NOTICE OF EXEMPTION

TO: Recorder/County Clerk
1600 Pacific Highway, M.S. A33
San Diego, CA 92101

FROM: County of San Diego Fire Protection District
County Operations Center
5510 Overland Avenue, Suite 250
San Diego, CA 92123

SUBJECT: FILING OF NOTICE OF EXEMPTION IN COMPLIANCE WITH PUBLIC RESOURCES CODE SECTION 21108 OR 21152

Project Name: County of San Diego Roadside Vegetation Management Project

Project Location: The project encompasses 29 road segments that total approximately 266 lane miles of County-maintained roadways throughout the inland areas of north and east San Diego County. See attachment for road segment locations.

Project Applicant: San Diego County Fire Protection District, 5510 Overland Avenue, Suite 250, San Diego, CA 92123 (858-974-5999)

Project Description: San Diego County Fire Protection District is proposing to conduct fuel reduction treatments within a 20-foot-wide buffer on each side of certain high-risk County-maintained roads totaling approximately 266 lane miles, reducing fire risks and improving evacuation performance in the event of a wildfire. The project proposes to avoid environmentally sensitive areas such as riparian habitat.

Agency Approving Project: County of San Diego

County Contact Person: David Sibbet **Telephone Number:** 619-672-7112

Date Form Completed: March 21, 2022

This is to advise that the County of San Diego Board of Supervisors have approved the above-described project on April 26, 2022 / Item # X and found the project to be exempt from the CEQA under the following criteria:

1. Exempt status and applicable section of the CEQA ("C") and/or State CEQA Guidelines ("G"): (check only one)
   - ☐ Declared Emergency [C 21080(b)(3); G 15269(a)]
   - ☐ Emergency Project [C 21080(b)(4); G 15269(c)]
   - ☐ Statutory Exemption. G Section:
   - ☒ Categorical Exemption. G Section: 15304, Minor Alterations to Land (Class 4) and 15301, Existing Facilities (Class 1)
   - ☐ G 15061(b)(3) - It can be seen with certainty that there is no possibility that the activity in question may have a significant effect on the environment and the activity is not subject to the CEQA.
   - ☐ G 15182 – Residential Projects Pursuant to a Specific Plan
   - ☐ G 15183 – Projects Consistent with a Community Plan, General Plan, or Zoning
   - ☐ Activity is exempt from the CEQA because it is not a project as defined in Section 15378.
2. Mitigation measures ☐ were ☒ were not made a condition of the approval of the project.
3. A Mitigation reporting or monitoring plan ☐ was ☒ was not adopted for this project.

Statement of reasons why project is exempt: The Class 4 exemption applies to the proposed project because the project is a fuel management activity within 30 feet of structures (e.g., County roadways) proposed to reduce the volume of flammable vegetation and the project would not result in an adverse and significant environmental impact, as evidenced by analysis and materials provided in the record. In addition, Class 1 exemption applies to portions of the proposed project because operation, maintenance, and minor alterations of existing public and private topographical features involve negligible or no expansion of existing or former use.

The following is to be filled in only upon formal project approval by the appropriate County of San Diego decision-making body.

Signature: _____ Telephone: _____

Name (Print) _____ Title: _____

This Notice of Exemption has been signed and filed by the County of San Diego. This notice must be filed with the Recorder/County Clerk as soon as possible after project approval by the decision-making body. The Recorder/County Clerk must post this notice within 24 hours of receipt and for a period of not less than 30 days. At the termination of the posting period, the Recorder/County Clerk must return this notice to the Department address listed above along with evidence of the posting period. The originating Department must then retain the returned notice for a period of not less than twelve months. Reference: CEQA Guidelines Section 15062.

Attachment to Notice of Exemption

COUNTY OF SAN DIEGO ROADSIDE VEGETATION MANAGEMENT PROJECT LOCATION				
COUNTY MAINTAINED ROAD	**FROM**	**TO**	**FIRE SAFE COUNCIL**	**LANE MILES**
OLD CASTLE ROAD	LILAC ROAD	OLD HIGHWAY 395	DEER SPRINGS	11
COLE GRADE ROAD	VALLEY CENTER ROAD	HIGHWAY 76	VALLEY CENTER	15.72
ENGINEERS ROAD	BOULDER CREEK ROAD	HIGHWAY 79	HARRISON PARK	11.68
BOULDER CREEK ROAD	OAK GROVE DRIVE	ENGINEERS ROAD	HARRISON PARK	36.08
BARRETT LAKE ROAD	HIGHWAY 94	END OF COUNTY MAINTAINED ROAD	DELZURA/BARRETT	3.75
BOULDER CREEK ROAD	ENGINEERS ROAD	EAGLE PEAK ROAD	HARRISON PARK	6.5
OLD HIGHWAY 395	CAMINO DEL REY	RIVERSIDE COUNTY LINE	DEER SPRINGS	23.48
CAMINO DEL REY	OLIVE HILL ROAD	OLD HIGHWAY 395	DEER SPRINGS	9.8
HARRIS RANCH ROAD	HIGHWAY 94	END OF ROAD	POTRERO/TECATE	4.4
CORTE MADERA ROAD	OLDE HIGHWAY 80	END OF COUNTY MAINTAINED ROAD	PINE VALLEY	1.58
COUGAR PASS ROAD	NORTH BROADWAY	END OF COUNTY MAINTAINED ROAD	DEER SPRINGS	3.7
DEER SPRINGS ROAD	CHAMPAGNE BOULEVARD/OLD HIGHWAY 395	SAN MARCOS CITY LIMIT	DEER SPRINGS	4.44
DEHESA ROAD	HARBISON CANYON ROAD	JAPATULE ROAD	CREST	4.77
DEHESA ROAD	WILLOW GLENN ROAD	HARBISON CANYON ROAD	CREST	3.22
EAST GRADE ROAD (COUNTY ROUTE S7)	SOUTH GRADE ROAD	HIGHWAY 76	PALOMAR	22.56
EMRY ROAD	HUMPHRIES/THING ROAD	HIGHWAY 94	POTRERO/TECATE	2.03
FARMER ROAD	MAIN STREET	END OF COUNTY MAINTAINED ROAD	JULIAN	3.87
LAWSON VALLEY ROAD	LYONS VALLEY ROAD	RUDNICK DRIVE	OUTER JAMUL	10.4
MOUNTAIN VIEW ROAD	FRANCES DRIVE	LA CRESTA ROAD/LA CRESTA BOULEVARD	CREST	4.95
NORTH CENTRE CITY PARKWAY	NUTMEG STREET	MOUNTAIN MEADOW	DEER SPRINGS	4.88
NORTH LAKE WOHLFORD ROAD	VALLEY CENTER ROAD	LAKE WHOLFOROAD ROAD/GUEJITO ROAD	VALLEY CENTER	6.64
PINE HILLS ROAD	HIGHWAY 78/HIGHWAY 79	END OF COUNTY MAINTAINED ROAD	HARRISON PARK	7.15
PINE VALLEY ROAD	OLD HIGHWAY 80	INTERSTATE 8 WESTBOUND RAMP/END OF COUNTY MAINTAINED ROAD	PINE VALLEY	0.51
POTRERO VALLEY ROAD	HIGHWAY 94	END OF COUNTY MAINTAINED ROAD	POTRERO/TECATE	7.57
RIVERSIDE DRIVE	OLD HIGHWAY 80	VIEJAS GRADE ROAD	DESCANSO	1.74
ROUND POTRERO ROAD	POTRERO VALLEY ROAD	END OF COUNTY MAINTAINED ROAD	POTRERO/TECATE	5.65
SOUTH GRADE ROAD	HIGHWAY 76	EAST GRADE ROAD	PALOMAR	13.58
VALLEY CENTER ROAD	ESCONDIDO CITY LIMIT	HIGHWAY 76	VALLEY CENTER	26.12
WYNOLA ROAD	HIGHWAY 79	HIGHWAY 78	JULIAN	8.37
			TOTAL LANE MILES	**266.14**

Memo

1230 Columbia St., Ste 440
San Diego, Ca 92101
619.219.8000

Date: March 21, 2022

To: David Sibbet, Deputy Fire Marshal
Chief Alex Elward, San Diego County Fire
Chief Ryan Silva, San Diego County Fire
Captain Michael Neal, San Diego County Fire

From: Jazmin Amini, Environmental Planner
Charlie Richmond, Senior Environmental Director

Subject: County of San Diego Roadside Vegetation Management Project CEQA Exemption Support Memorandum

BACKGROUND

Fire hazards represent a high-level threat to individuals, property, and wildlife located in the unincorporated areas of San Diego County (County). Nearly 80 percent of the County's unincorporated communities are located within very high or high fire severity zones and the County manages nearly 2,000 miles of public roads that serve many of these zones. These public roads are critical during emergencies, such as wildfires, allowing residents the ability to evacuate and first responders the ability to reach the front lines of an incident. The County has increasingly grown concerned about preventing worst-case scenarios such as entrapments, a potentially life-threatening situation in which wildfire overtakes a road. Therefore, fire safety, including the ability to evacuate, is of the utmost importance to residents living in the County's rural areas.

On March 16, 2021, the San Diego County Board of Supervisors (Board) directed the San Diego County Fire Protection District (SDCFPD) to pursue a vegetation maintenance program to reduce fire risks along approximately 266 lane miles of rights-of-ways (ROW) and private land situated adjacent to existing roadways throughout unincorporated areas of the County (project). In response, on October 5, 2021, SDCFPD presented a recommendation to the Board for SDCFPD to expand beyond the existing practice by County of San Diego's Department of Public Works (DPW), which currently manages vegetation along certain County-maintained roads in the unincorporated areas, up to 10 feet from the edge of the pavement within the public right-of-way, consistent with County Defensible Space Ordinance (Section 68.404(c)).

In response to the Board's July 13, 2021 direction and consistent with the County Consolidated Fire Code (Section 4907.2.1), which provides fire districts with the authority to clear combustible vegetation within twenty feet on both sides of the roadway, SDCFPD is proposing to conduct fuel reduction treatments within a 20-foot-wide buffer on each side of certain high-risk County-maintained roads totaling approximately 266 lane miles, reducing fire risks and improving evacuation performance in the event of a wildfire.

PROJECT LOCATION

The project encompasses 29 road segments that total approximately 266 lane miles of County-maintained roadways throughout the inland areas of north and east San Diego County. The project area would include up to 20 feet on each side of the roadway. Rural residential communities within the project area include Potrero, Barrett Junction, Pine Valley, Descanso, Julian, Wynola, Jamul, Crest, Harbison Canyon, Palomar Mountain, Rincon, Valley Center, Pauma Valley, Escondido, San Marcos, Bonsall, and Rainbow. As shown in Figure 1, the project areas are located east of Interstate 15 (I-15), with three exceptions: Deer Springs Road, Camino del Rey, and portions of Old Highway 395.

PROJECT PURPOSE AND NEED

Every year there are major fires throughout California that result in devastating losses to life, property, and wildlife. Of the top 20 largest fires in the recorded history of the State, eight have occurred in the past 2 years (CALFIRE 2022a).[1] Two of the largest fires in the State's history, the Cedar Fire and the Witch Fire, occurred in San Diego County. The Cedar Fire occurred between October 2003 and the beginning of December 2003 and burned 273,246 acres, destroyed 2,820 buildings, killed 15 people, and resulted in $1.3 billion dollars in fire-related damage. The Witch Fire occurred between October 2007 to early November 2007 and burned 247,800 acres, destroyed 1,265 residential buildings, killed 2 people, and totaled over $1.3 billion in fire-related damage. The passing of time since these two large fires has resulted in much of the vegetation growing back, presenting additional challenge for minimizing the risk of, and damage from wildfire.

Aside from the increasing number of larger, more devastating fires, San Diego County experiences multiple wildfires every year that result in the destruction of property and wildlife and put human lives at risk. In 2021 alone, San Diego County experienced 10 large fires in the unincorporated area (Table 1). Another recent major fire in San Diego County was the September 2020 Valley Fire that burned 16,390 acres around Japatul Road and Carveacre Road southeast of Alpine, which resulted in the destruction of 61 structures, damage to an additional 11 structures, and three injuries.

Table 1 Recorded Fires in Unincorporated San Diego County in 2021

Fire	Month of Occurrence	Acres Burned	General Location
Paso Fire	April	28	Near Highway 79 and Lookout Road, North of Cuyamaca Rancho State Park
Southern Fire	May	5,366	14000 Blk Great Southern Overland, Agua Caliente in San Diego County
Clevenger Fire	June	53	Along San Pasqual Valley Road
Sierra Fire	June	1,000	Around Camp Pendleton
Mesa Fire	June	350	Near Highway 76
Overland Fire	July	515	Near Canebrake Canyon Road east of Mount Laguna
Ysabel Fire	July	173	Along Highway 79
Road Fire	July	86	Japatul Valley Road and I-8
Chaparral Fire	August	1,427	San Diego and Riverside County
Aruba Fire	September	54	Southeast Rainbow
Total Acres		9,052	

Source: CALFIRE 2022b (https://www.fire.ca.gov/incidents/2021/)

[1] Dixie and Monument Fires (July 2021), the Caldor Fire (August 2021), the River Complex Fire (July 2021), the August Complex and SCU August Complex Fires (August 2020), the Creek Fire (September 2020), and North Complex Fire (August 2020).

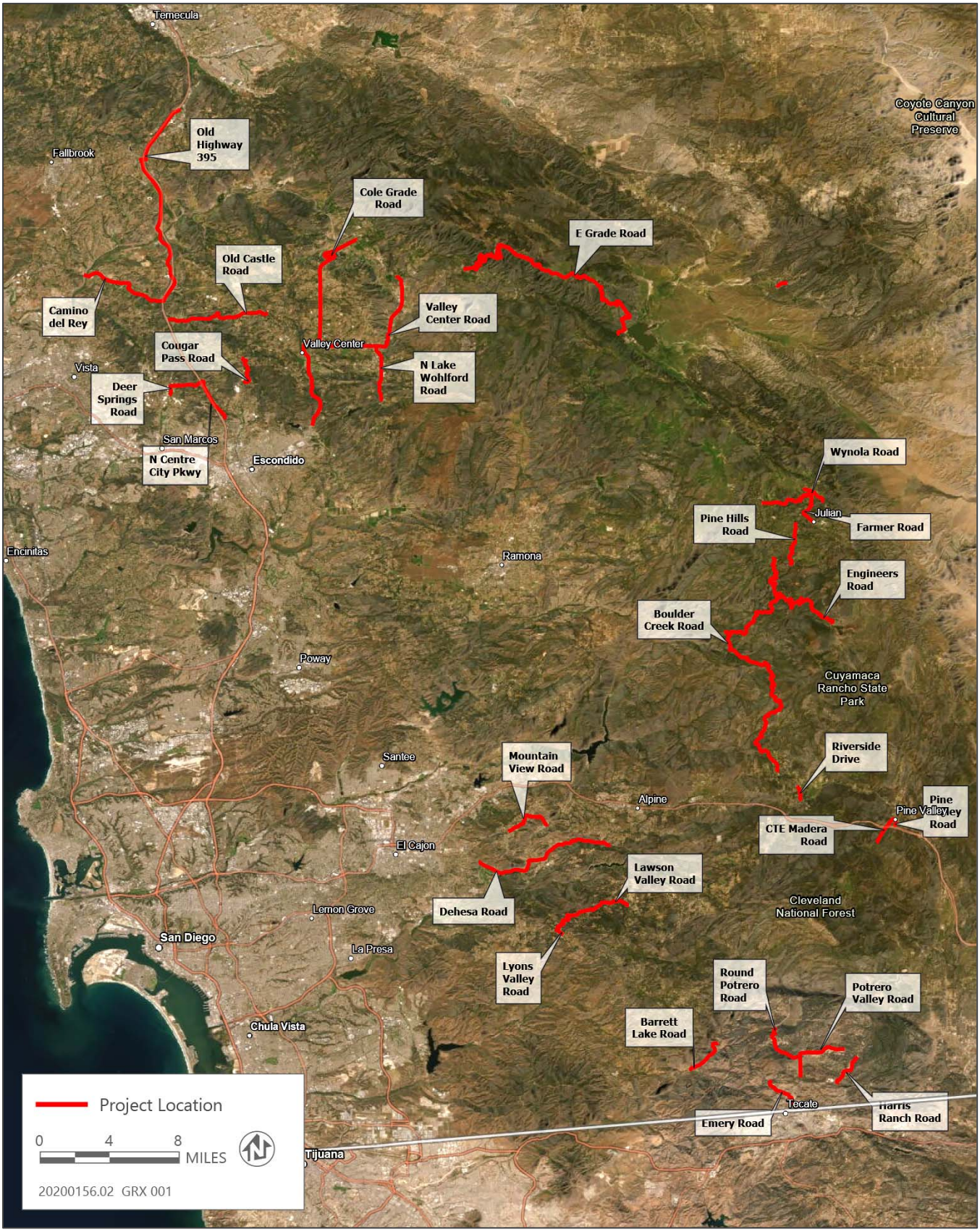

Figure 1 Regional Location

As a result of the increasing frequency of wildfires, implementing strategies to reduce their risk and threat in the unincorporated County is of the utmost importance with any delay having the potential to result in emergency conditions that may have tragic consequences.

As indicated previously, San Diego County manages nearly 2,000 miles of public roads that serve many of areas designated by the state of California as High or Very High Fire Hazard Severity Zones. These roads are critical during emergencies, such as wildfires, allowing residents the ability to evacuate and first responders the ability to reach the front lines of an incident. The County has increasingly grown concerned about preventing worst-case scenarios such as entrapments, a potentially life-threatening situation in which wildfire overtakes a road.

PROJECT OBJECTIVES

The project is proposed to increase the safety of emergency access and evacuation routes. Objectives for the proposed project are to:

1. Maintain safe evacuation routes along public and private roadways within the unincorporated County by reducing barriers to evacuation and flammable vegetation along emergency evacuation routes for the community and allow for first responders to reach the front lines of an incident;
2. Reduce the risk of lateral wildfire spread to natural resources and/or structures;
3. Reduce fuel within areas at high risk of wildfire ignition; and
4. Establish fuel breaks along roadways;

PROJECT DESCRIPTION

The project proposes to increase roadside vegetation management by adding 266 lane miles of high priority roads for wildfire safety. SDCFPD's work may include work along roads maintained by DPW, either within the ROW or beyond the ROW up to 20 feet from the edge of the pavement. Permission to perform work on private property would be obtained prior to any work being conducted on private land. Vegetation management may also occur along other high priority roads not maintained by DPW. No ground disturbance is proposed; however, vegetation would be trimmed back to a height of no more than six inches and, in certain cases, be removed entirely. Specific areas may require up to two treatments (cutting, trimming, or pruning) each year. In addition to the fuel reduction treatments, SDCFPD is proposing to apply PHOS-CHEK® FORTIFY®, a long-term and weather-resistant fire retardant from the United States Forest Service's qualified product list, on select stretches of roads following fuel reduction activities. Application of PHOS-CHEK® FORTIFY® aims to further reduce roadside starts and enhance the protection of evacuation corridors, reducing fire risks and improving evacuation performance in the event of a wildfire. PHOS-CHEK® FORTIFY® is comprised of the already widely used ammonium polyphosphate and an environmentally benign cellulose-based viscoelastic carrier fluid that contains solely nontoxic starting materials widely used in food, drug, cosmetic, and agricultural formulations (Yu et al. 2019). Finally, the project and its proponents will comply with the Reasonable and Prudent Measures and the Terms and Conditions identified in the Biological Opinion issued by the United States Fish and Wildlife Service (USFWS).

CONSTRUCTION AND MAINTENANCE SCHEDULE

Project activities are anticipated to begin in 2022 and would require up to five months to complete. Maintenance would occur on an annual basis as needed. Construction activities would primarily include trimming back target vegetation and chipping from mechanical treatment activities. Topsoil disturbance would be minimal, and grubbing would be avoided to ensure roots remain intact. Masticator chippings would be left in place and away from roadway ROW. Construction personnel associated with the project would apply PHOS-CHEK® FORTIFY® fire retardant along the roadside in areas not identified as sensitive habitat.

Equipment would primarily include masticators and water tenders. Additionally, leaf blowers and chain saws may be used on a very limited basis if the masticator would cause damage to improvements. Onsite construction equipment with its associated horsepower (hp) would include:

- John Deer 6110M Tractor (122 hp)
- New Holland TV6070 Tractor (155 hp)
- Water Tender (240 hp)
- Leaf Blower (10 hp)
- Chain Saw (10 hp)

Up to two crews would be working simultaneously throughout the project area. Each crew would typically consist of one masticator operator, one water tender operator, and 2 to 4 traffic management and roadway safety personnel. Construction would take place up to eight hours per day on weekdays between the hours of 7:00 a.m. and 7:00 p.m. to comply with County construction noise regulations (County of San Diego Municipal Code Sections 36.408-36.409). It is estimated that each crew could complete up to two miles of work per day.

DOCUMENTS INCORPORATED BY REFERENCE

A Memorandum of Understanding (MOU; 1997) between the United States Fish and Wildlife Service (USFWS), California Department of Fish and Wildlife (CDFW), California Department of Forestry, San Diego County Fire Chief's Association, and the Fire District's Association of San Diego County was entered into in 1997 and remains in effect. The 1997 MOU was entered into to allow the abatement of flammable vegetation within the respective jurisdictions in order to protect life, property, and the environment from the threat of fire in accordance with State Law, County and District ordinances and Cities municipal codes and to establish a cooperative mechanism whereby USFWS and CDFW may assess, minimize, and help account for the potential adverse impacts to special-status species that would result from the abatement activities.

The 1997 MOU authorizes the take of species listed as threatened or endangered, or candidate species for management purposes necessitated by or incidental to fire protection measures described within the 1997 MOU. Applicable provisions within the 1997 MOU include but is not limited to "Any measures as deemed necessary by the Fire Chief and in accordance with the Guideline section of this MOU."

"Section II. Guideline" of the 1997 MOU indicates under subsection d. that "Property owners, their lessees, fire districts, the County of San Diego, Caltrans, and cities shall be permitted to clear up to 30' along each side of the established regularly traveled roadways. The required width will be at the discretion of the fire chief."

Furthermore, "Section VI. Special Terms and Conditions" specifies that it is understood by the parties that the Department authorizes the take of species listed as threatened species or endangered species, or candidate species (Under Chapter 1.5 of Division 3 of the Fish and Game Code) which may be impacted by the fire protection activities established by the guidelines set forth in Section I of the MOU.

Finally, "Section VII. Findings" states that pursuant to Fish and Game Code 2081, the Department finds that implementation of the fire control, abatement, and protection measures contemplated by this MOU is not likely to result in jeopardy to the continued existence of the identified State listed or candidate species, if the terms and conditions of the MOU are fully implemented and adhered to. The Department finds, further, that by preventing or limiting the spread of fire to the identified species' habitat, this MOU will serve to protect the identified species from further degradation.

APPLICABLE CEQA EXEMPTION

California Environmental Quality Act review is required for projects that are discretionary and that have the potential to have an impact on the environment. However, the CEQA statutes and implementing guidelines contain a list of exempt actions that have been deemed to not have a significant effect on the environment. CEQA exemptions are

addressed in Article 18 (Statutory Exemptions) and Article 19 (Categorical Exemptions) of the CEQA Guidelines. All projects that meet one or more of the descriptions of the statutory exemptions are exempt from CEQA. Projects meeting the descriptions of the categorical exemptions are generally exempt from the provisions of CEQA, unless exceptional circumstances occur.

Based on the project purpose and project description described above and in combination with the Memorandum of Understanding (MOU; 1997) with the wildlife agencies, the project qualifies as categorically exempt from the provisions of CEQA pursuant to CEQA Guidelines Section 15304. The categorical exemption is described as follows:

> *CEQA Guidelines Section 15304: Minor Alterations to Land*
> Class 4 consists of minor public or private alterations in the condition of land, water, and/or vegetation which do not involve removal of healthy, mature, scenic trees except for forestry or agricultural purposes. Examples include, but are not limited to:
>
> (i) Fuel management activities within 30 feet of structures to reduce the volume of flammable vegetation, provided that the activities will not result in the taking of endangered, rare, or threatened plant or animal species or significant erosion and sedimentation of surface waters. This exemption shall apply to fuel management activities within 100 feet of a structure if the public agency having fire protection responsibility for the area has determined that 100 feet of fuel clearance is required due to extra hazardous fire conditions.

Why CEQA Guidelines Section 15304 "Minor Alterations to Land" Exemption Applies to the Proposed Project

The Class 4 exemption applies to the proposed project because the project is a fuel management activity within 30 feet of structures (e.g., County roadways) proposed to reduce the volume of flammable vegetation. The project is being proposed to avoid sensitive habitat to the extent feasible and would avoid riparian habitat entirely. Moreover, as indicated in the analysis in this document under Biological Resources, the proposed project would not result in unauthorized take and CDFW found that "implementation of the fire control, abatement, and protection measures contemplated by [the] MOU is not likely to result in jeopardy to the continued existence of the identified State listed or candidate species, if the terms and conditions of the MOU are fully implemented and adhered to." CDFW made the finding "that by preventing or limiting the spread of fire to the identified species' habitat, this MOU will serve to protect the identified species from further degradation." As such, the project would not result in an adverse and significant impact to endangered, rare, or threatened plant or animal species. Additionally, as analyzed under Hydrology and Water Quality below, the project would not result in significant erosion and sedimentation of surface waters because vegetation management activities would leave vegetation roots intact to ensure soil erosion does not occur and to minimize any changes to site drainage. Finally, no healthy, mature, scenic trees would be removed as the project is designed to avoid riparian habitat, including oak trees, and would not remove any trees that are protected by County ordinance.

Exceptions to the Use of a Categorical Exemption

Categorical exemptions are subject to exceptions defined in CEQA Guidelines Section 15300.2; if any of these exceptions occur, a categorical exemption cannot be used. The exceptions include:

a) Location. Classes 3, 4, 5, 6, and 11 are qualified by consideration of where the project is to be located – a project that is ordinarily insignificant in its impact on the environment may in a particularly sensitive environment be significant. Therefore, these classes are considered to apply in all instances, except where the project may impact on an environmental resource of hazardous or critical concern where designated, precisely mapped, and officially adopted pursuant to law by federal, state, or local agencies.

b) Cumulative Impact. All exemptions for these classes are inapplicable when the cumulative impact of successive projects of the same type in the same place, over time is significant.

c) Significant Effect. A categorical exemption shall not be used for an activity where there is a reasonable possibility that the activity will have a significant effect on the environment due to unusual circumstances.

d) Scenic Highways. A categorical exemption shall not be used for a project which may result in damage to scenic resources, including but not limited to, trees, historic buildings, rock outcroppings, or similar resources, within a highway officially designated as a state scenic highway. This does not apply to improvements which are required as mitigation by an adopted negative declaration or certified EIR.

e) Hazardous Waste Sites. A categorical exemption shall not be used for a project located on a site which is included on any list compiled pursuant to Section 65962.5 of the Government Code.

f) Historical Resources. A categorical exemption shall not be used for a project which may cause a substantial adverse change in the significance of a historical resource.

Table 2 provides a brief discussion of why each exception does not apply to the project.

Table 2 Exceptions to the Use of a Categorical Exemption (CEQA Guidelines Section 15300.2)

Exception	Applicability
(a) Location. Classes 3, 4, 5, 6, and 11 are qualified by consideration of where the project is to be located – a project that is ordinarily insignificant in its impact on the environment may in a particularly sensitive environment be significant. Therefore, these classes are considered to apply in all instances, except where the project may impact on an environmental resource of hazardous or critical concern where designated, precisely mapped, and officially adopted pursuant to law by federal, state, or local agencies.	The project would be located within a 20-foot buffer of approximately 266 lane miles of roadway in the unincorporated County. Any identified riparian areas would be avoided as required by the MOU with the Wildlife Agencies. As documented in the impact analysis, the proposed project would not impact an environmental resource of hazardous or critical concern where designated, precisely mapped, and officially adopted pursuant to law by federal, state, or local agencies
(b) Cumulative Impact. All exemptions for these classes are inapplicable when the cumulative impact of successive projects of the same type in the same place, over time is significant.	The project would result in a benefit related to wildfire prevention and would reduce potential wildfire hazard related impacts. In addition, as expressed in the MOU findings by CDFW, the impact on wildlife habitat and special status species would be a net benefit. Therefore, the project would not contribute to any cumulative environmental impact in relation to other projects in the region.
(c) Significant Effect. A categorical exemption shall not be used for an activity where there is a reasonable possibility that the activity will have a significant effect on the environment due to unusual circumstances.	The project would not have a significant effect on the environment due to unusual circumstances. As documented in the impact analyses below, the project would not result in any significant effects on the environment.
(d) Scenic Highways. A categorical exemption shall not be used for a project which may result in damage to scenic resources, including but not limited to, trees, historic buildings, rock outcroppings, or similar resources, within a highway officially designated as a state scenic highway. This does not apply to improvements which are required as mitigation by an adopted negative declaration or certified EIR.	Two highways in the unincorporated County have been designated as a State Scenic Highway: State Route (SR) 78 through the Anza-Borrego Desert State Park and SR-125 between Interstate 8 (I-8) and SR-94. Eligible scenic highways include portions of Interstate 5, Interstate 15, SR-94, I-8, SR-79, SR-78, and SR-76 within the unincorporated County. The project would be located along 266 lane miles of roadway within the unincorporated County. The project would not obscure scenic resources along the project site or create a barrier to any views from the roadway. Further, the project would not result in damage to any scenic resources, including trees, historic buildings, or rock outcroppings.
(e) Hazardous Waste Sites. A categorical exemption shall not be used for a project located on a site which is included on any list compiled pursuant to Section 65962.5 of the Government Code.	The project is located adjacent to the existing County roadway where there are no structures with potential to have stored or disposed of hazardous waste onsite. Therefore, there is no potential that the project site would have been exposed to hazardous waste or materials. Moreover, the proposed project would not disturb underlying soils even if unknown soil contamination was present.

Exception	Applicability
(f) Historical Resources. A categorical exemption shall not be used for a project which may cause a substantial adverse change in the significance of a historical resource.	The project would trim vegetation within a 20-foot buffer of the roadway edge to the root while minimizing disturbing the topsoil. Thus, the project would not cause a substantial adverse change in the significance of historical or archaeological resources or substantially disturb human remains.

ENVIRONMENTAL ANALYSIS

The following discussion evaluates the potential environmental impacts associated with the construction and operation of the project.

Aesthetics

Setting

The project site consists of approximately 266 lane miles of roadways in the unincorporated County. There is a wide range of aesthetic conditions, ranging from developed areas with residential uses, private driveways, and fencing to areas that are located on remote public lands such as National Forests overseen by the U.S. Forest Service.

Impact Analysis

The project consists of trimming back vegetation within a 20-foot buffer from the pavement on each side of the roadway. The vegetation would be cut down to the root, and disturbance to topsoil would be avoided to the maximum extent feasible. Masticator chippings would be left in place out of roadway ROW. Additionally, as further detailed in the Biological Resources section, riparian zones and vernal pool depressions identified in the biological survey would be avoided. The project does not involve the construction of any structures and the application of PHOS-CHEK® FORTIFY® is an uncolored precision applied product that would not be visible to area residents or road users. For these reasons, the project would not have a substantial adverse effect on scenic vistas, damage scenic resources, degrade existing visual character, or create a new source of substantial light or glare. Therefore, the project would have a **less-than-significant** impact on aesthetics.

Agricultural and Forestry Resources

Setting

The unincorporated County is made up of approximately 407,600 acres of farmland with only six percent of the region's soils considered prime agricultural land (County of San Diego 2011a:2.2-2). Approximately 31 percent of the unincorporated County is zoned A70 limited agriculture or A72 general agriculture, and approximately 80,504 acres are in Williamson Act Contract (County of San Diego 2011a:2.2-8). The project site is located along approximately 266 lane miles of unincorporated County roadway characterized as rural land in some areas and developed residential in other areas.

Impact Analysis

The project would clear vegetation within a 20-foot buffer on either side of approximately 266 lane miles of roadway ROW by cutting down the vegetation to the root. The project would not convert farmland to non-agricultural use, nor would it conflict with existing zoning for agricultural use or a Williamson Act contract. Furthermore, the project would not conflict or result in the loss of forest land or timberland production. Therefore, the project would have a **less-than-significant** impact on agricultural and forest resources.

Air Quality

Setting

The unincorporated County is located in the San Diego Air Basin encompassing approximately 4,260 square miles (County of San Diego 2011a:2.3-1). Sensitive receptors are defined by air quality regulators such as schools, hospitals, resident care facilities, daycare centers, or other facilities that may house individuals with health conditions that would be adversely impacted by changes in air quality. The County also considers residences sensitive receptors.

Impact Analysis

Construction equipment would consist of a masticator, water tender, chain saw, and leaf blower. There would be up to two crews working simultaneously in different areas of the project site. Based on modeling conducted to estimate the emissions generated by the project, the project would not exceed any County of San Diego air quality thresholds during construction or operations (i.e., vegetation trimming maintenance). See Appendix B for detailed modeling outputs. Therefore, the project would have a **less-than-significant** impact on air quality.

Biological Resources

Setting

The project site encompasses approximately 266 lane miles of unincorporated County roadway. The biological report identified 35 vegetation communities/land cover types, 12 special-status plant species, and 13 special-status wildlife species potentially located in the vicinity of the project. Except for a single observance of California Gnatcatcher, no special status species were observed during the surveys (See Appendix A for further detail).

As discussed under "Documents Incorporated By Reference" above, the MOU authorizes the take of species listed as threatened or endangered, or candidate species for management purposes necessitated by or incidental to fire protection measured described within the MOU. CDFW, pursuant to Fish and Game Code 2081, made findings that implementation of the fire control, abatement, and protection measures contemplated by the MOU would not likely to result in jeopardy to the continued existence of the identified State listed or candidate species, if the terms and conditions of the MOU are fully implemented and adhered to. CDFW determined that by preventing or limiting the spread of fire to the identified species' habitat, the MOU serves to protect the identified species from further degradation.

Impact Analysis

Uncontrolled wildfires pose a serious threat to human lives and property but are generally part of the natural disturbance cycle of adjacent wildlands. The project's overarching objective is to protect lives, property, and the natural environment from the increasing threat of wildfire while minimizing the potential of disturbance to special-status species and habitats. Properly maintained combustible vegetation is known to reduce the incidences of non-natural fires spreading from developed areas to natural land and lowers the potential impacts of unseasonable and frequent wildfires to special-status species and their habitats. Simple vegetation maintenance practices performed at least annually may greatly reduce the risk that catastrophic wildfires pose on humans and special-status species alike. Moreover, the project is being planned to limit impacts to sensitive habitats and avoid riparian areas entirely since they are naturally more resistant to fires. The vegetation maintenance activities associated with the project are consistent with the MOU, which finds that "implementation of the fire control, abatement, and protection measures contemplated by [the] MOU is not likely to result in jeopardy to the continued existence of the identified State listed or candidate species, if the terms and conditions of the MOU are fully implemented and adhered to." Moreover, Wildlife agencies determined that by preventing or limiting the spread of fire to the identified species' habitat, activities such as those proposed by the project will serve to protect the identified species from further degradation. Finally, SDCFPD is proposing to apply PHOS-CHEK FORTIFY, a long-term and weather-resistant fire retardant from the United States Forest Service's qualified product list, on select stretches of roads following fuel reduction activities. PHOS-CHEK FORTIFY is comprised of the already widely used ammonium polyphosphate and an environmentally benign cellulose-based viscoelastic carrier fluid that contains solely nontoxic starting materials widely used in food,

drug, cosmetic, and agricultural formulations (Yu et al. 2019). As such, impacts on biological resources from the project would be a **less-than-significant**.

Cultural Resources

Setting

As of 2011, the County of San Diego had more than 27,000 recorded cultural resource sites (County of San Diego 2011a:2.5-1); however, the location of cultural and archeological resources is not always known. The State has established several programs and policies to protect these resources. Additionally, the County has implemented regulatory protections to safeguard the presence of cultural resources that are previously known or discovered during construction activities.

Impact Analysis

The project involves trimming back vegetation to the root within a 20-foot buffer on either side of the roadway. The project would not disturb any structures including those of historical significance. Additionally, the project is designed to avoid disturbance of topsoil including grubbing where buried artifacts may occur within the County; thus, the project would not cause a substantial adverse change in the significance of historical or archaeological resources or substantially disturb human remains. Therefore, the project would have a **less-than-significant** impact on cultural resources.

Energy

Setting

San Diego Gas & Electric (SDG&E) provides electric and natural gas service to San Diego County. The County's 2015-2020 Strategic Energy Plan provided long- and short-term goals to reduce utility usage and costs and minimize impacts on the environment. The County has enacted policies, established programs, and implemented projects to achieve the goals set forth in the 2015-2022 Strategic Energy Plan. Additionally, the County's Zero Net Energy Portfolio Plan utilizes six phased strategies to cut its energy footprint in half by 2030 to meet State efficiency goals.

Impact Analysis

The project involves up to two sets of construction equipment each consisting of a masticator, water tender, chain saw, and leaf blower. Energy use would be minimal and short-term only taking place during the initial vegetation trimming and annually as needed. The project would not result in a wasteful, inefficient, or unnecessary consumption of energy resources nor would it conflict with a state or local renewable energy or energy efficiency plan, such as the County's 2015-2020 Strategic Energy Plan or County's Zero Net Energy Portfolio Plan. Therefore, the project would have a **less-than-significant** impact on energy.

Geology, Soils, and Seismicity

Setting

San Diego County contains active faults, steep topography, and other geological characteristics that pose public safety concerns. Major active faults and fault zones present within San Diego County include San Jacinto Fault Zone, including Coyote Creek Fault; Elsinore Fault Zone and Earthquake Valley Fault; and the Rose Canyon Fault Zone, including a series of unnamed faults trending from downtown San Diego across San Diego Bay to the City of Coronado. The San Andreas Fault Zone is not located within San Diego County (County of San Diego 2011:2.6-7). Although liquefaction is not known to have occurred historically in San Diego County, portions of the unincorporated County would be susceptible to liquefaction from ground shaking during larger seismic events (County of San Diego 2011a:2.6-11).

Landslides can be caused by ground shaking from an earthquake or water from rainfall, septic systems, landscaping, or other origins that infiltrate slopes with unstable material. The Multi-Jurisdictional Hazard Mitigation Plan estimated high and moderate risk of landslide assessments for urban and rural areas of the unincorporated County (County of

San Diego 2011a:2.6-12). The San Diego region has been divided into 34 soil associations containing variable susceptibility to erosive forces, depending on their individual characteristics (County of San Diego 2011a:2.6-14).

Impact Analysis

The trimming of vegetation within the project site would keep the roots intact having a minimal effect on erosion and the loss of topsoil. Additionally, the project would not involve the construction of buildings or facilities that would relocate residents, visitors, or employees on site; thus, risks associated with ground shaking are not applicable to the project. For these reasons, the project would not cause potential substantial adverse effects involving fault rupture or seismic ground shaking. Additionally, the project would not result in erosion or sediment runoff. Therefore, the project would have a **less-than-significant** impact on geology, soils, and seismicity.

Greenhouse Gas Emissions

Setting

According to a 2012 greenhouse gas inventory conducted by the San Diego Association of Governments (SANDAG), a total of 34.67 MMTCO2e were generated by activities in the unincorporated County. The largest contributor of greenhouse gas emissions was on-road transportation, which includes emissions from gasoline and diesel fuel use from vehicles operating on roadways. The second largest contributor was electricity consumption, which accounts for electricity generated from non-renewable sources and consumed at buildings and developments. Wildfires also contribute to greenhouse gas emissions.

Impact Analysis

A common screening threshold applied to projects is the California Air Pollution Control Officers Association's (CAPCOA's) threshold of 900 metric tons CO2e per year (equivalent to 50 houses or 30,000 square feet of commercial space, i.e., 90% of all projects are this size or greater). Projects less than this would not be significant.

Emissions from the project would be short-term, and project construction is expected to take up to five months to complete. Additionally, vegetation maintenance would occur on an annual basis. Emissions generated by the project would be minimal as construction equipment is limited to up to two masticators, water tenders, chain saws, and leaf blowers. Modeling conducted to estimate emissions from construction and operations of the project resulted in 75 metric tons CO2e per year (see Appendix B); thus, the project would not exceed CAPCOA's 900 metric ton threshold for greenhouse gas emissions for construction and operations. Therefore, the project would have a and **less-than-significant** impact on greenhouse gas emissions.

Hazards and Hazardous Materials

Setting

Historic land uses in the County that have the potential to result in hazardous material site contamination include burnsites, landfills, formerly used defense sites, agriculture, and petroleum storage. The following County-owned airports are located in the unincorporated County: Agua Caliente Airstrip, Borrego Valley Airport, Fallbrook Community Airpark, Jacumba Airport, Ocotillo Airstrip, and Ramona Airport. Most of the County is in the High and Very High Fire Hazard Severity Zone (FHSZ), except for the Desert and eastern Mountain Empire Sub-Regions which are in the Moderate FHSZ (County of San Diego 2011a:2.7-15).

Impact Analysis

The project is located adjacent to the existing roadway where there are no structures with potential to have stored hazardous waste onsite. Therefore, there is no potential that the project site would have been exposed to hazardous waste or materials. The project would trim back vegetation along approximately 266 lane miles of roadway within a 20-foot buffer from the pavement. The project would not involve the transport, use, or disposal of hazardous materials. Additionally, the project would trim the vegetation to the root; thus, the project would not create a hazard to the public or environment which could result from topsoil disturbance. Finally, a water tender would be present at each project site

in the event a fire is ignited from construction activities. Once vegetation trimming is completed, the project would further reduce fire risk by apply PHOS-CHEK FORTIFY. Application of PHOS-CHEK FORTIFY aims to further reduce roadside starts and enhance the protection of evacuation corridors, reducing fire risks and improving evacuation performance in the event of a wildfire. PHOS-CHEK FORTIFY consists of the already widely used ammonium polyphosphate and an environmentally benign cellulose-based viscoelastic carrier fluid that contains solely nontoxic starting materials widely used in food, drug, cosmetic, and agricultural formulations (Yu et al. 2019). Therefore, the project would have a **less-than-significant** impact on hazards and hazardous materials.

Hydrology and Water Quality

Setting

The County has three general categories of aquifers that include fractured rock aquifers, alluvial and sedimentary aquifers, and desert basin aquifers. The coastal zone of San Diego County is mostly supplied with imported water from member agencies of the San Diego County Water Authority (SDCWA). Approximately 65 percent of the County is dependent on groundwater resources, which provides the only source of water for approximately 41,000 residents (County of San Diego 2011a:2.8-2).

Impact Analysis

The project would comply with the regulations of the regional water quality control board and all other applicable State, federal, and local water and wastewater regulations. The project involves the trimming of vegetation along the roadway to the root. No grubbing would occur, and topsoil disturbance would be avoided to the greatest extent possible to avoid any additional erosion and minimize any changes to existing onsite drainage. Organic debris created from trimming vegetation would be left in place away from roadway ROW. The project would not alter local drainage patterns, exacerbate erosion, affect storm water discharges and/or alter the potential for flooding within or adjacent to the project site. PHOS-CHEK FORTIFY would be applied to a percentage of high-risk areas and is a hydrogel-based platform and polymer technology that provides it with weathering resistance and enhances adherence to vegetation, and requires a significant rain event to dislodge. PHOS-CHEK FORTIFY, itself, consists of widely used ammonium polyphosphate and an environmentally benign cellulose-based viscoelastic carrier fluid that contains solely nontoxic starting materials widely used in food, drug, cosmetic, and agricultural formulations (Yu et al. 2019). As such, the fire retardant would be resistant to runoff and would generally be considered non-toxic in the environment. Therefore, the project would have a **less-than-significant** impact on hydrology and water quality.

Land Use and Planning

Setting

The unincorporated County is broadly made up of villages, semi-rural, and rural regional land use categories. Privately owned land has been designated almost entirely to residential land uses across all three categories with only approximately 6 percent designated for specific plan area, commercial, or industrial development (County of San Diego 2011b:3-9). As discussed in the Aesthetics Setting Section, there are a variety of uses across the project site, ranging from developed areas with residential uses and areas that are located on rural public lands.

Impact Analysis

The project involves the trimming of vegetation within a 20-foot buffer along approximately 266 lane miles of roadways within the unincorporated County. The project does not include the demolition or construction of any structures and would not result in any changes to the roadway network including the subdivision of any property. Additionally, existing land uses along the project site would remain as is, and the project would not result in physical changes to the environment that could physically divide an established community. Therefore, the project would have a **less-than-significant** impact on land use and planning.

Mineral Resources

Setting

The three general categories of mineral resources valuable to San Diego County include: construction materials, industrial and chemical mineral materials, and metallic and rare materials (County of San Diego 2011a:2.10-3).

Areas known as Mineral Resource Zones (MRZs) are classified on the basis of geologic factors, without regard to existing land use and land ownership. MRZ-2 classification is recognized in land use planning because the likelihood for occurrence of significant mineral deposits is high, and the classification may be a factor in the discovery and development of mineral deposits that would tend to be economically beneficial to society. Within the unincorporated County, urban development has encroached upon many existing and potential future mining sites reducing access to many of the locally important mineral deposits (County of San Diego 2011b:5-20).

Impact Analysis

The project would trim vegetation to the root avoiding disturbance of topsoil to the greatest extent possible within a 20-foot buffer of the roadway edge. While portions of the project site are located adjacent to developed uses and adjacent to the roadway which are incompatible with mineral extraction, the project would not affect the potential for mineral resource recovery where feasible. Additionally, the project would not result in the availability or loss of locally important mineral resources. Therefore, the project would have a **less-than-significant** impact on mineral resources.

Noise

Setting

The predominant noise source influencing noise levels on and near the project site includes vehicle traffic on the surrounding roadway network. Noise-sensitive land uses are generally considered to include those uses where noise exposure could result in health-related risks to individuals, as well as places where quiet is an essential element of their intended purpose. Residential dwellings are of primary concern because of the potential for increased and prolonged exposure of individuals to both interior and exterior noise levels. Additional land uses such as schools, transient lodging, historic sites, cemeteries, and places of worship are also generally considered sensitive to increases in noise levels.

Impact Analysis

Project construction would take place between the hours of 7:00 am and 7:00 pm to comply with Sections 36.408-36.409 of the County of San Diego Municipal Code which limits the hours construction activity. Additionally, noise associated with project construction would be linear in nature. Elevated noise levels would only occur temporarily (generally less than 1 hour) in the location where construction occurs before moving along the roadway. Each masticator would emit a noise level of approximately 85 dB at a distance of 50 feet with the majority of sensitive receptors located farther from the noise source. Chain saws also produce a noise level of approximately 85 dB at a distance of 50 feet; however, this equipment would only be used on an as-needed basis. The project would have no effect on long term operational noise other than intermittent, short-term noise associated with annual vegetation trimming maintenance similar to that of the initial construction phase. Therefore, the project would have a **less-than-significant** impact on noise.

Population and Housing

Setting

In 2020, the unincorporated County was estimated to contain a population of 505,675 (SANDAG 2021). Census data from 2010 estimated total employment at 385,988 (SANDAG 2016).

Impact Analysis

The project would trim vegetation along each side of approximately 266 lane miles of unincorporated County roadway for the purpose of reducing wildfire risk and enhancing evacuation efficiency in case of emergency. The

project does not involve any changes to the environment that would increase the number of residents or employees. Project construction would involve up to two crews working simultaneously. Each crew would consist of one masticator operator, one water tender operator, and 2-4 traffic management and roadway safety personnel. Construction workers are anticipated to commute from within the San Diego region and would not require temporary housing. The project would not induce population growth in the area, nor would it displace existing people or housing. Therefore, the project would have a **less-than-significant** impact on population and housing.

Public Services

Setting

Within the unincorporated County's emergency services system, fire and emergency medical services are provided by Fire Protection Districts, County Service Areas, and CAL FIRE. The San Diego County Sheriff's Department is the chief law enforcement agency in San Diego County. Additionally, public schools and educational facilities are mandated by the State Department of Education and administered by the San Diego County Board of Education and the San Diego County Office of Education. Finally, the San Diego County Library system serves several communities within the unincorporated County (County of San Diego 2011a:2.13).

Impact Analysis

The project would not require additional fire, police, school, or other public services beyond what is already provided in the area. Construction activities would be located outside of roadway ROW and maintain emergency vehicular access at all times. Therefore, project construction would not substantially impair implementation of or physically interfere with an existing emergency response or emergency preparedness plan or emergency evacuation plan, or require the preparation of a new emergency response or preparedness plan. Furthermore, an overall goal of the project is to increase evacuation and first responder access in the event of a wildfire, benefiting public services. Therefore, the project would have **no impact** on public services.

Recreation

Setting

The County of San Diego Department of Parks and Recreation maintains and enhances the quality of life for residents and visitors through a comprehensive program of acquisition, development and maintenance of recreation facilities including local and regional parks, fishing lakes, community centers, special use facilities, and preserves. Additionally, a system of regional and community trails further enhances and augments public recreational opportunities and experiences throughout the San Diego region (County of San Diego 2011a:2.14-1).

Impact Analysis

The project involves the trimming of vegetation along approximately 266 lane miles of roadways in the unincorporated County for fuel break and evacuation purposes. The project does not involve the construction or development of facilities that would increase the use of existing parks or recreational facilities or require the construction or expansion of recreational facilities. Therefore, the project would have **no impact** on recreation.

Transportation

Setting

The county contains a mix of roadway types that vary in ROW, number of travel lanes, median type, design speed, and bicycle and pedestrian infrastructure (County of San Diego 2018). Bus and rail service is provided by the Metropolitan Transit Authority (MTS) and North County Transit District (NCTD). Each transit operator provides paratransit services to Americans with Disability Act (ADA) certified passengers. As of 2018, the unincorporated County's existing bicycle facilities consisted of 1 mile of Class I Bike Path, 145 miles of Class II Bike Lanes, and 9 miles of Class III Bike Routes (County of San Diego 2018b:3-3). Pedestrian facilities in the unincorporated County consist of

sidewalks, pathways, and trails. Several areas in the unincorporated County are characterized as rural and no not have bicycle and/or pedestrian facilities present.

Impact Analysis

The project would not involve the reconfiguration of the roadway network, and construction would not impede with any vehicle, transit, bicycle, or pedestrian facilities or plans. Construction would remain away from roadway ROW to ensure hazards related to transportation safety are minimized and personnel would coordinate and control traffic when activities would potentially intrude into the roadway. Trips associated with construction personnel are temporary, intermittent, and redistributed throughout the region. Additionally, each crew would consist of a small number of construction personnel (i.e., up to 12 construction workers in total). Thus, vehicle miles traveled would not substantially increase as a result of the project. The existing emergency access network would remain as is and likely improve due to the increased evacuation access provided by the project. Therefore, the project would have a **less-than-significant** impact on transportation.

Tribal Cultural Resources

Setting

Assembly Bill (AB) 52 establishes a formal consultation process for California Indian tribes as part of CEQA and equates significant impacts on tribal cultural resource with significant environmental impacts. Tribal cultural resources include site features, places, cultural landscapes, sacred places, or objects which are of cultural value to a tribe. The San Diego region is generally composed of the following four distinct cultural groups: Kumeyaay/Diegueno, Luiseño, Cahuilla, and Cupeño.

Impact Analysis

The project would cut vegetation along the roadway to the root and would not involve grubbing which would disturb the topsoil or deeper soils that may have the potential to contain buried tribal cultural resources. Moreover, no structures would be removed or modified, including any potential prehistory structures or artifacts. For this reason, the project would not cause a substantial adverse change in the significance of a tribal cultural resource. Therefore, the project would have a **less-than-significant** impact on tribal cultural resources.

Utilities and Service Systems

Setting

The following four entities provide water supply for the County: Metropolitan Water District, SDCWA, and SDCWA Member Water Districts; Groundwater Dependent Water Districts; Groundwater Dependent Users; and Borrego Valley Aquifer. Additionally, there are 25 wastewater districts that serve the County which can be distinguished in the following three categories: the City of San Diego Metropolitan Wastewater Department (SDMWD); wastewater districts served by SDMWD; and wastewater districts unaffiliated with SDMWD. As of 2011, there were seven active landfills, nine transfer stations, construction demolition and inert processing facilities, ten biomass processing facilities, and various recycling programs that served the unincorporated County's solid waste disposal service needs.

Impact Analysis

The project would involve the trimming of vegetation to the root avoiding topsoil to the greatest extent feasible. The project would not require the relocation of construction of water, electric, gas, or telecommunication facilities. Additionally, the project would not require any utility or service systems. No solid waste would need to be disposed of as organic debris created from trimming vegetation would be left in place away from roadway ROW. Therefore, the project would have a **no impact** on utilities and service systems.

Wildfire

Setting

The California Department of Forestry and Fire Prevention (CALFIRE) identified San Diego County among the top five counties in the State for both number of acres burned and dollar value of fire damage (CAL FIRE 2016). The majority of the County is designated as a Very High and High FHSZ, except for the Desert and eastern Mountain Empire subregions, which are in the Moderate FHSZ. There are also areas of Moderate FHSZ and un-zoned areas in the more densely populated communities around the County (County of San Diego 2020:2.7-3 and 2.7-4).

Impact Analysis

The purpose of the project is to mitigate fire hazard and remove obstacles for evacuations related to wildfires in the unincorporated County. The project involves the management of vegetation along approximately 266 lane miles of roadway by trimming vegetation within a 20-foot buffer of each side of the roadway edge. The vegetation maintenance would provide a fuel break reducing the severity of wildfires and increase emergency access by essentially widening the usable area for evacuation situations to help avoid worst case scenarios such as entrapments. For these reasons, the project would assist in the implementation of County emergency response plans while reducing the risk of wildfires. Therefore, the project would have a **no impact** on wildfire.

CONCLUSION

Based on the analysis presented above, the proposed project would not result in any potentially significant environmental effects and the project qualifies for a Class 4 Categorical Exemption pursuant to CEQA requirements. Moreover, as indicated in Table 2, no exceptions to the categorical exemption would occur.

LIST OF ABBREVIATIONS

AB	Assembly Bill
ADA	Americans with Disability Act
BO	biological opinion
CAPCOA	California Air Pollution Control Officers Association
CDFW	California Department of Fish and Wildlife
CDF	California Department of Forestry
CAL FIRE	California Department of Forestry and Fire Prevention
CEQA	California Environmental Quality Act
Districts	Fire District's Association of San Diego County
Fire Chiefs	San Diego County Fire Chief's Association
FHSZ	Fire Hazard Severity Zone
hp	horsepower
MOU	Memorandum of Understanding
MRZs	Mineral Resource Zones
MTS	Metropolitan Transit Authority

NCTD	North County Transit District
ROW	right-of-way
SDCFPD	San Diego County Fire Protection District
SDCWA	San Diego County Water Authority
SDMWD	San Diego Metropolitan Wastewater Department
SDG&E	San Diego Gas & Electric
SR	State Route
TCRs	Tribal Cultural Resources
USDA	United States Department of Agriculture
USFWS	United States Fish and Wildlife Service

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Appendix A

Biological Resources Constraints
Letter Report

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COUNTY OF SAN DIEGO ROADSIDE VEGETATION MANAGEMENT PROJECT

BIOLOGICAL RESOURCES CONSTRAINTS LETTER REPORT

SAN DIEGO COUNTY, CALIFORNIA

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March 21, 2022

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1.0 INTRODUCTION AND BACKGROUND

Fire hazards represent a high-level threat to individuals, property, and wildlife located in the unincorporated areas of San Diego County (County). Nearly 80 percent of the County's unincorporated communities are located within very high or high fire severity zones. San Diego County manages nearly 2,000 miles of public roads that serve many of these State designated very high or high fire severity zones. These roads are critical during emergencies, such as wildfires, allowing residents the ability to evacuate and first responders the ability to reach the front lines of an incident. The County has increasingly grown concerned about preventing worst-case scenarios such as entrapments, a potentially life-threatening situation in which wildfire overtakes a road. Therefore, fire safety, including the ability to evacuate, is of the utmost importance to residents living in the County's rural areas.

On March 16, 2021, the San Diego County Board of Supervisors (Board) directed the San Diego County Fire Protection District (SDCFPD) to pursue a vegetation maintenance program to reduce fire risks along approximately 266 miles of rights-of-ways (ROW) and private land situated adjacent to existing roadways throughout unincorporated areas of the County (project). In response, on October 5, 2021, SDCFPD presented a recommendation to the Board for SDCFPD to expand beyond the existing practice by County of San Diego's Department of Public Works (DPW), which currently manages vegetation along certain County-maintained roads in the unincorporated areas, up to 10 feet from the edge of the pavement within the public right-of-way, consistent with County Defensible Space Ordinance (Section 68.404(c)). This allows for motorists to safely pull off the side of the road in an emergency.

In response to the Board's July 13, 2021 direction and consistent with the County Consolidated Fire Code (Section 4907.2.1), which provides fire districts with the authority to clear combustible vegetation within 20 feet on both sides of the roadway, SDCFPD is proposing to conduct fuel reduction treatments within a 20-foot-wide buffer on each side of certain high-risk County-maintained roads totaling approximately 266 miles. In addition to the fuel reduction treatments, SDCFPD is proposing to apply PHOS-CHEK® FORTIFY®, a long-term and weather-resistant fire retardant from the United States Forest Service's qualified product list, on select stretches of roads following fuel reduction activities. Application of PHOS-CHEK® FORTIFY® aims to further reduce roadside starts and enhance the protection of evacuation corridors in the event of a wildfire. PHOS-CHEK® FORTIFY® is comprised of the already widely used ammonium polyphosphate and an environmentally benign cellulose-based viscoelastic carrier fluid that contains solely nontoxic starting materials widely used in food, drug, cosmetic, and agricultural formulations (Yu et al. 2019).

1.1 Purpose of this Constraints Study

Blackhawk Environmental, Inc. (Blackhawk), under Ascent Environmental (Ascent), was contracted to evaluate the existing biological resources by conducting a literature review for special-status species and other sensitive biological resources occurrences, performing windshield surveys to map vegetation communities and document special-status species and other sensitive biological resources occurrences, and prepare a biological resources constraints letter report to document the results and provide guidance and recommendations for implementation of vegetation management practices associated with the project.

The information and results presented herein document the investigation, best professional judgement, and conclusions of Blackhawk. It is correct and complete to the best of our knowledge.

1.2 Location

The project encompasses 29 road segments that total approximately 266 miles of County-maintained roadways throughout the inland areas of north and east San Diego County. Rural residential communities within the project area include Potrero, Barrett Junction, Pine Valley, Descanso, Julian, Wynola, Jamul, Crest, Harbison Canyon, Palomar Mountain, Rincon, Valley Center, Pauma Valley, Escondido, San Marcos, Bonsall, and Rainbow. As shown in Figure 1, the project areas are located east of Interstate 15 (I-15), with three exceptions: Deer Springs Road, Camino del Rey, and portions of Old Highway 395.

1.3 Project Description

The project proposes to increase roadside vegetation management by adding approximately 266 lane-miles of high priority roads for wildfire safety. SDCFPD's work may include work along roads maintained by DPW, either within the ROW or beyond the ROW up to 20 feet from the edge of the pavement. Vegetation management may also occur along other high priority roads not maintained by DPW. No ground disturbance is proposed; however, vegetation would be trimmed back to a height of no more than six inches and in certain cases where needed, be removed entirely. Vegetation management will not include removal of root structure as to prevent erosion. Specific areas may require up to two treatments (cutting, trimming, or pruning) each year. Following fuel reduction treatments, SDCFPD may apply PHOS-CHEK® FORTIFY® on select stretches of project roads to further reduce roadside starts and enhance the protection of evacuation corridors.

The project and its proponents will comply with the Reasonable and Prudent Measures and the Terms and Conditions identified in the Biological Opinion issued by the United States Fish and Wildlife Service (USFWS).

2.0 REGULATORY SETTING

2.1 1997 Memorandum of Understanding

A Memorandum of Understanding (MOU; 1997) between the United States Fish and Wildlife Service (USFWS), California Department of Fish and Wildlife (CDFW), California Department of Forestry (CDF), San Diego County Fire Chief's Association (Fire Chiefs), and the Fire District's Association of San Diego County (Districts) was entered into in 1997 and remains in effect. The 1997 MOU was entered into to allow the abatement of flammable vegetation within the respective jurisdictions in order to protect life, property, and the environment from the threat of fire in accordance with State Law, County and District ordinances and Cities municipal codes and to establish a cooperative mechanism whereby USFWS and CDFW may assess, minimize, and help account for the potential adverse impacts to special-status species that would result from the abatement activities. A copy of the MOU can be found in Attachment C.

The 1997 MOU authorizes the take of species listed as threatened or endangered, or candidate species for management purposes necessitated by or incidental to fire protection measures described within the 1997 MOU. Applicable provisions within the 1997 MOU include but is not limited to "Any measures as deemed necessary by the Fire Chief and in accordance with the Guideline section of this MOU."

"Section II. Guideline" of the 1997 MOU indicates under subsection d. that "Property owners, their lessees, fire districts, the County of San Diego, Caltrans, and cities shall be permitted to clear up to 30' along each side of the established regularly traveled roadways. The required width will be at the discretion of the fire chief."

Moreover, "Section II. Guideline" indicates that fire districts and cities shall continue to avoid vegetation removal in recognizable riparian (stream side) zones and vernal pool depressions, as these are naturally somewhat resistant to fire and are subject to separate federal and state regulations. If such removal is deemed necessary by the local fire chief, USFWS and CDFW must be notified in writing and consulted at least ten (10) days prior to anticipated vegetation abatement. If the USFWS and CDFW fail to respond within the ten-day period, the party may complete the abatement and not be in violation of the 1997 MOU.

"Section IV. Biological Surveys" states that property owners, their lessees, CDF, fire districts and cities shall not be required to perform biological surveys as a condition precedent to performance of the fire protection activities established by the guidelines set forth in Section I of the MOU.

Furthermore, "Section VI. Special Terms and Conditions" specifies that it is understood by the parties that the Department authorizes the take of species listed as threatened species or endangered species, or candidate species (Under Chapter 1.5 of Division 3 of the Fish and Game Code) which may be impacted by the fire protection activities established by the guidelines set forth in Section I of the MOU.

Finally, "Section VII. Findings" states that pursuant to Fish and Game Code 2081, the Department finds that implementation of the fire control, abatement, and protection measures contemplated by this MOU is not likely to result in jeopardy to the continued existence of the identified State listed or candidate species, if the terms and conditions of the MOU are fully implemented and adhered to. The Department finds, further, that by preventing or limiting the spread of fire to the identified species' habitat, this MOU will serve to protect the identified species from further degradation.

2.2 Local Ordinances and Codes

The County Defensible Space Ordinance (Section 68.404(c)) requires property owners to clear ten feet of combustible vegetation along the sides of roadways and driveways, while allowing the Fire Warden, as necessary, to require additional vegetation management in accordance with the County's Consolidated Fire Code (CFC). Additionally, the CFC (Section 4907.2.1) provides fire districts the option to clear combustible vegetation within 20 feet on both sides of roadways.

2.3 California Environmental Quality Act

California Environmental Quality Act review is required for projects that are discretionary and have the potential to have an impact on the environment. However, the CEQA statutes and implementing guidelines contain a list of exempt actions that have been deemed to not have a significant effect on the environment. Regulatory exemptions are addressed in Article 18 (Statutory Exemptions) and Article 19 (Categorical Exemptions) of the CEQA Guidelines. All projects that meet the descriptions of the statutory exemptions are exempt from CEQA. Projects meeting the descriptions of the categorical exemptions are generally exempt from the provisions of CEQA, unless exceptional circumstances occur.

3.0 METHODS

3.1 Database and Literature Review

Prior to conducting the windshield surveys to map the vegetation communities, Blackhawk conducted a database records search centered on each of the 29 road segments. A five-mile radius surrounding each road segment was reviewed for sensitive biological and aquatic resources. The California Department of Fish and Wildlife (CDFW) California Natural Diversity Database (CNDDB) (CDFW 2022) was reviewed for sensitive plant and wildlife species records in the quadrangles containing and surrounding the project sites. CNDDB contains records of reported occurrences of federal- and State-listed species, proposed endangered or threatened species, and/or otherwise sensitive species or communities that may occur within or in the vicinity of a project area. For the purposes of this project, only species identified during the literature review that were designated as federal- and State-listed, or proposed endangered or threatened, were deemed special-status (target) species.

Utilizing the background data described above, a field survey was conducted to assess the 29 road segments for existing conditions and their capacity to potentially harbor sensitive biological resources (special-status species, sensitive habitat types, etc.) identified in the literature review.

3.2 Field Survey

A windshield survey of approximately 266 lane-miles along the 29 road segments was performed by Blackhawk survey teams between December 8, 2021, and January 13, 2022. Methods included driving the road segments and where appropriate/feasible pausing at select vantage points that provided full visual coverage of the surrounding area to document existing vegetation communities, incidental special-status species observation, and Riparian Zones and vernal pool depressions. Vegetation communities along both sides of the roadways were mapped out to 20 feet from the edge of the pavement (Survey Area). Vegetation communities/land cover types were described according to dominant plant(s) species as detailed in the 2008 Draft Vegetation Communities of San Diego County (Oberbauer et al 2008) and annotated on high-resolution aerial imagery of the Survey Area using the ESRI-based ArcGIS Online applications Collector and Field Maps. Binoculars were used as needed and plant species observed were identified to species level when feasible according to the nomenclature in The Jepson Manual: Vascular Plants of California Edition 2 (Baldwin et al. 2012). Ancillary data, including survey conditions, vegetation community descriptions, special-status species observations and/or their potential to occur, Riparian Zones and vernal pool depression observations, and other noteworthy remarks from each segment were recorded in a customized Wildnote data form on the surveyors' smart phone. Following the field surveys, analysis of the field data was performed by the biologists and GIS specialists to define, designate, and edit all vegetation maps and summary reports for each road segment, which are included in Attachment A of this report.

Representative photos of vegetation communities documented across the project are included in Attachment B.

4.0 RESULTS

This section is divided into sub-sections that describe the 35 vegetation communities/land cover types recorded throughout the project area, literature review results for special-status species, and high priority road segment details that describe the physical location/characteristics, environmental setting,

vegetation communities/land cover types, potential for and observation of special-status species, and observation of resource protection ordinance areas.

4.1 Vegetation Communities/Land Use Cover Types

Field survey efforts identified 35 different vegetation communities/land cover types within the Survey Area along the project's 29 road segments. These vegetation communities/land cover types are further discussed below. Additionally, results for each road segment are detailed in Section 4.3, with comprehensive survey data and associated vegetation maps found in Attachment A.

Agriculture

Agriculture consists of a variety of land use and dominant plant species, dependent on the type of agricultural use. These areas included actively grazed pastureland, plowed/tilled fields, vineyards and orchards, dairies, nurseries, and chicken ranches. Dependent on crop use, rotation and tilling regimes, this community may or may not be irrigated and/or artificially seeded with highly variable vegetative cover ranging from 0 – 100%. Vegetative cover in agricultural areas may also have significant seasonal variation as a result of frequent land use changes. This vegetation community was most frequently encountered in the Julian and Fallbrook regions of San Diego County.

Big Sagebrush Scrub

Big sagebrush scrub occurs at higher elevations [approximately 4,000 – 9,000 feet above mean sea level (amsl)] in the interior cismontane zones of San Diego County. This scrub community was structurally homogeneous with an average shrub density of 50 – 80% and an average shrub height of three to five feet. This community was heavily dominated by big sagebrush (*Artemisia tridentata*), with lesser dominant species that included California buckwheat (*Eriogonum fasciculatum*) and deerweed (*Acmispon glaber*). This vegetation community was only documented along Corte Madera Road near Pine Valley.

Black Oak Woodland

Black oak woodland is an open to dense, moderately tall woodland community restricted to montane regions of San Diego County (approximately 3000 – 7,000 feet amsl) such as Palomar Mountain and Julian. The canopy coverages ranged between 20-80%, and the average canopy height was 20 – 40 feet. This vegetation community was heavily dominated by mature California black oak (*Quercus kelloggii*) with less dominant native conifer and oak species intermixed and a generally sparse shrub-covered understory.

Chamise Chaparral

Chamise chaparral generally occurs along the foothill, cismontane and western transmontane regions of San Diego County, such as Potrero and Lake Henshaw. This brushland community was structurally homogenous and heavily dominated by chamise (*Adenostoma fasciculatum*) with other shrub species contributing minimal vegetation cover, such as scrub oak (*Quercus berberidifolia*), California buckwheat, cupleaf ceanothus (*Ceanothus perplexens*) and chaparral yucca (*Hesperoyucca*

whipplei). The average shrub height was between three and six feet, and the average shrub cover was 60 - 100%.

Coast Live Oak Woodland

Coast live oak woodland is an open to dense, moderately tall (40 – 60 feet) woodland community found throughout the majority of San Diego County. This vegetation community was heavily dominated by mature coast live oak (*Quercus agrifolia*) with a wide variety of understory species such as California buckwheat, toyon (*Heteromeles arbutifolia*), scrub oak, Ramona lilac (*Ceanothus tomentosus*), Mexican manzanita (*Arctostaphylos pungens*), young coast live oak and numerous species of non-native grasses. Sub-dominant understory species within this vegetation community were highly variable dependent on ecological factors such as elevation, slope aspect and direction, and rain fall. The canopy coverages generally ranged between 20-80%.

Coastal Sage - Chaparral Mix

Coastal sage – chaparral mix consists of a mixture of evergreen, woody chaparral shrub species and drought-deciduous, fleshy, sage scrub shrub species occurring throughout the coastal, foothill and lower cismontane regions of San Diego County. This vegetation community was co-dominated by several chaparral and coastal sage scrub species including California sagebrush (*Artemisia californica*), chamise, mission manzanita (*Xylococcus bicolor*), laurel sumac (*Malosma laurina*), California buckwheat, mountain mahogany (*Cercocarpus betuloides*), black sage (*Salvia mellifera*) and various Ceanothus species. Shrub height was variable, ranging between three and seven feet, with shrub cover varying from 40 – 90%.

Coulter Pine Forest

Coulter pine forest is a generally open, tall woodland community from 60 to 100 feet tall that is restricted to high elevation regions of San Diego County (4,000 – 6,500 feet amsl). This vegetation community consisted of a near-monoculture of Coulter pines (*Pinus coulteri*), with minimal understory development and sparsely scattered coast live oak trees. This vegetation community was only documented in one location along East Grade Road in the Palomar Mountain Region.

Diegan Coastal Sage Scrub

Diegan coastal sage scrub consists of a low-growing mixture of drought-deciduous, fleshy, sage scrub shrub species. This community occurs widely throughout the coastal, foothill and lower cismontane regions of San Diego County. This vegetation community was generally dominated by California sagebrush and California buckwheat with regionally variable, co-dominant black sage, deerweed, laurel sumac and white sage (*Salvia apiana*). In portions of the County, this community was heavily dominated by broom baccharis (*Baccharis sarothroides*). Shrub height was variable, averaging between two and five feet, with shrub cover varying widely from 30 – 80%. Non-native annual plant species were common within the shrub gaps of this community, typically dominating the gaps between the shrubs. This community was generally more common on western County Road sections.

Disturbed Habitat

Disturbed habitat occurs throughout San Diego County primarily as a result of anthropogenic disturbance. This community type includes areas that have been altered to such a large extent that the areas no longer support substantive native vegetation, yet generally retain their native soil substrates. Vegetation, when present, was dominated by non-native, ornamental and/or ruderal exotic plant species that specialize and thrive in disturbed soils. Areas classified as disturbed habitat included parking lots, trails, road shoulders, areas repeatedly cleared for fuel management, construction sites and graded areas. Commonly encountered plant species that were observed within this community included shortpod mustard (*Hirschfeldia incana*), red brome (*Bromus madritensis*), Russian tumbleweed (*Salsola tragus*), tocalote (*Centaurea melitensis*), African fountain grass (*Pennisetum setaceum*), wild oat (*Avena barbata*) and various ornamental species. In some areas, minimal native species were observed and generally restricted to sparse regrowth of species tolerant of repeated disturbance including telegraph weed (*Heterotheca grandiflora*), dove weed (*Croton setiger*), California buckwheat and deerweed.

Disturbed Wetland

Disturbed wetland occurs in low-lying watersheds across San Diego County primarily as a result of anthropogenic disturbance to areas permanently or periodically inundated by water. These areas were often unvegetated but occasionally contained scattered native or non-native vegetation typical of wet soils. Dominant plant species observed in this vegetation community included curly dock (*Rumex crispus*), wild radish (*Raphanus sativus*) and non-native grasses. This community was restricted to anthropogenically altered swales, riprap, lined channels and culverts with generally low-growing vegetation along the hydrological gradients. Though this community is heavily disturbed by human disturbance, it was classified as a Riparian Zone.

Engelmann Oak Woodland

Engelmann oak woodland is an open to moderately dense woodland community that is restricted to cismontane elevations below 4,000 feet amsl in San Diego County that receive relatively higher annual rainfall totals, such as Boulder Creek and Lawson Valley. This vegetation community was heavily dominated by Engelmann oak (*Quercus engelmannii*) with a variable co-dominance of coast live oak and scrub oak. The understory generally contained a few scattered shrub species among a dominance of non-native, annual grass species. The average canopy height was 30 – 60 feet, and the canopy coverage generally ranged between 20-80%.

Eucalyptus Woodland

Eucalyptus woodlands are widespread across the foothills and lower cismontane regions of San Diego County. Most eucalyptus woodlands are generally associated with sites historically planted with eucalyptus species used for shade trees, lumber and/or ornamental purposes, or are stands that have invaded areas that were formerly native vegetation communities. This community ranged from single-species thickets, with little or no shrubby understory, to tall, closed-canopy, woodlands with a heavily developed herbaceous and shrubby understory. This vegetation community was most commonly dominated by blue gum (*Eucalyptus globulus*) and red gum (*E. camaldulensis*), which are the most dominant eucalyptus tree species within San Diego County.

Flat-topped Buckwheat Scrub

Flat-topped buckwheat scrub is a structurally homogeneous, low-growing shrubland community commonly found in disturbed areas in the coastal and foothill areas of San Diego County. This community features a near monoculture of California buckwheat with other plant species contributing some additional vegetation coverage, such as deerweed, common sand aster (*Corethrogyne filaginifolia*) and non-native grasses.

Jeffrey Pine Forest

Jeffrey pine forest generally occurs at high elevations in San Diego County (6,500 – 9,000 feet amsl). This community is typically 70 – 100 feet tall, and is characterized as an open forest dominated by Jeffrey pine (*Pinus jeffreyi*) with a sparse shrubby understory. This vegetation community was only documented in one location along Pine Valley Road and is considered an outlier community within the region.

Mixed Oak Woodland

Mixed oak woodland is an open to closed canopy woodland community, which is moderately tall (30 – 60 feet), and is restricted to the montane regions of San Diego County, such as Palomar Mountain and Julian. This vegetation community was co-dominated by several oak species including canyon oak (*Quercus chrysolepis*), Engelmann oak, coast live oak and/or California black oak. The understory was variably covered by various shrub species that primarily included Mexican manzanita and scrub oak.

Mixed Oak/Coniferous/Bigcone/Coulter Forest

Mixed oak/coniferous/bigcone/Coulter forest is known to occur at higher elevations in the montane regions of San Diego County, primarily on Palomar Mountain. This community is a moderately dense, tall (50 – 100 feet) forest co-dominated by oak and conifer species. This community contained a variety of co-dominant conifer species including white fir (*Abies concolor*), bigcone spruce (*Pseudotsuga macrocarpa*), incense cedar (*Calocedrus decurrens*) and Coulter pine, as well as black oak, coast live oak, Engelmann oak and canyon oak. Generally, this community had a poorly developed shrub understory.

Montane Buckwheat Scrub

Montane buckwheat scrub is restricted to higher-elevation, montane regions of San Diego County, such as Palomar Mountain. This community often occurs in sandy soils in and around mountain meadows and is a low-growing shrubland community type, visually similar to flat-topped buckwheat scrub. The primary difference is that it occurs only at high elevations and is dominated by the interior variety of California buckwheat, as well as Wright's buckwheat (*E. wrightii*), which does not occur at lower elevations.

Montane Chaparral

Montane chaparral consists of a mixture of dense, nearly impenetrable, woody chaparral shrub species that are restricted to higher-elevation, cismontane and transmontane regions of San Diego County. This vegetation community had variable shrub species dominance, dependent on specific location, slope aspect and elevation, of primarily *Ceanothus* and *Arctostaphylos* species. The most common dominant species encountered within this community included Palmer lilac (*C. palmeri*), big berry manzanita (*A. glauca*), Mexican manzanita, chaparral whitethorn (*C. leucodermis*) and scrub oak, occasionally with scattered Engelmann oak and canyon oak. Shrub height was variable, ranging between six and twelve feet, with shrub cover greater than 80%.

Montane Meadow

Montane meadow consists of a mixture of low-growing sedge species (e.g., *Carex, Cyperus, Juncus, Scirpus, Eleocharis, etc.*) and other bulbiferous or perennial herb species associated with open valleys that are seasonally or permanently saturated with water. This community is restricted to montane regions of San Diego County, such as Descanso, Julian and Palomar Mountain. Dominant species encountered in this community included deergrass (*Muhlenbergia rigens*), Mexican rush (*Juncus mexicanus*) and clustered field sedge (*Carex praegracilis*). Non-native cover within this community was generally low. This community was classified as a Riparian Zone.

Mulefat Scrub

Mulefat scrub occurs in riparian areas throughout most of San Diego County but is absent from higher-elevation areas. This community is generally restricted to intermittent stream channels and along the margins of lakes and large rivers that encounter frequent flood disturbance. Mulefat scrub was heavily dominated by mulefat (*Baccharis salicifolia*) with less dominant arroyo willow (*Salix lasiolepis*) and understories dominated by Douglas mugwort (*Artemisia douglasiana*) and western ragweed (*Ambrosia psilostachya*). This vegetation community was classified as a Riparian Zone.

Non-native Grassland

Non-native grassland occurs throughout most of San Diego County, typically below elevations below 4,000 feet. Non-native grassland was observed within areas previously disturbed by fire or anthropogenically altered and included grazed, mowed and dry-farmed lands. Non-native grassland was comprised by dense to sparse cover of non-native annual grasses dominated by numerous species including red brome, ripgut brome (*Bromus diandrus*), red-stem filaree (*Erodium cicutarium*), shortpod mustard, African fountain grass, cheatgrass (*Bromus tectorum*) and wild oat. Some non-native grasslands included very isolated native species, tolerant of disturbance, such as telegraph weed, deerweed, California buckwheat and doveweed.

Non-Native Riparian

Non-native riparian communities are comprised of densely vegetated thickets dominated by at least 50% non-native, invasive species occurring most commonly along disturbed river and creek areas throughout San Diego County. This vegetation community was dominated by invasive riparian species such as giant reed (*Arundo donax*), castor bean (*Ricinus communis*), eucalyptus (*Eucalyptus* spp.), salt

cedar (*Tamarix ramosissima*), and sparse native species that included arroyo willow and western ragweed. This community was classified as a Riparian Zone.

Non-Vegetated Floodplain or Channel

Non-vegetated floodplain or channel communities occur on sandy, gravelly or rocky fringes of waterways or flood channels that occur throughout San Diego County. These communities generally remain unvegetated on a relatively permanent basis, though may contain some weedy species, with usually less than 10% cover. Where this community was observed, if vegetation was present, dominant species included various, low-growing, non-native grasses such as red brome. This community was classified as a Riparian Zone.

Northern Mixed Chaparral

Northern mixed chaparral consists of a mixture of dense, nearly impenetrable, woody chaparral shrub species that is restricted to the eastern cismontane and transmontane regions of San Diego County, such as Lake Henshaw, below 5,000 feet in elevation. This vegetation community exhibits variable shrub cover percentages dependent on specific location, slope aspect and elevation, and is primarily dominated by Ceanothus and Arctostaphylos species. The most common dominant species encountered within this community included scrub oak, chamise, hoary leaf ceanothus (*Ceanothus crassifolius*), cupleaf ceanothus, chaparral whitethorn and various manzanita species with scattered canyon and coast live oak trees. Shrub density in this community was heavily dependent on slope aspect, with the densest stands occurring on north-facing slopes and lower density stands occurring on south-facing slopes.

Scrub Oak Chaparral

Scrub oak chaparral is generally concentrated in foothill, cismontane, and transmontane regions of San Diego County. This community is structurally similar to northern mixed chaparral and forms dense brushlands that are nearly impenetrable. This community was heavily dominated by scrub oak species with other shrub species contributing less than 25% cover, including mountain mahogany, chamise, laurel sumac, California buckwheat and various manzanita species.

Southern Arroyo Willow Riparian Forest

Southern arroyo willow riparian forest is a winter-deciduous riparian forest community that is restricted to perennially wet riparian zones along creeks, streams, rivers and lakes within San Diego County. This community consisted of young and mature riparian tree species, heavily dominated by arroyo willow, with closed, or nearly closed canopies from 30 to 60 feet tall and a moderately thick understory. Other sub-dominant tree and shrub species within this community included Goodding's black willow (*Salix gooddingii*), red willow (*Salix laevigata*) and mulefat. Tree canopy coverage was generally between 60 and 100%. The herbaceous understory layer was often dominated by a mixture of native and non-native species, such as poison hemlock (*Conium maculatum*) and western ragweed. This community was classified as a Riparian Zone.

Southern Coast Live Oak Riparian Forest

Dense riparian forests dominated by evergreen species with a closed or nearly closed canopies (40 – 60 feet tall) that occur along floodplains and drainages along streams. Where identified, this community was dominated by coast live oak with sub-dominant western sycamore (*Platanus racemosa*), arroyo willow, black willow, red willow, and understory species such as Southern California wild grape (*Vitis girdiana*), poison oak (*Toxicodendron diversilobum*), and California wild rose (*Rosa californica*). Tree canopy coverage was generally between 60 and 100%. This community was classified as a Riparian Zone.

Southern Cottonwood-Willow Riparian Forest

Southern cottonwood-willow riparian forest is a tall, open, broadleaved winter-deciduous riparian forest community that occurs along perennially wet stream courses throughout San Diego County. This community was most often dominated by Fremont cottonwood (*Populus fremontii*), western sycamore, red willow, arroyo willow and/or Goodding's black willow, with understories dominated by native species such as wild grape (*Vitis girdiniana*) and mulefat. Tree canopy coverage was generally between 60 and 100%, and average heights typically exceeded 40 feet. This community was classified as a Riparian Zone.

Southern Mixed Chaparral

Southern mixed chaparral is visually and structurally similar to northern mixed chaparral, though with lower overall vegetation density and average height. This dense, woody brushland community occurs throughout the coastal foothills and cismontane regions of San Diego County. This vegetation community had variably dominant shrub species, dependent on specific location, slope aspect and elevation. The most frequently encountered dominant shrub species within this community included Ramona lilac, cup-leaf ceanothus (*Ceanothus perplexans*), laurel sumac, mountain mahogany, chamise, scrub oak, mission manzanita and sugarbush (*Rhus ovata*).

Southern Riparian Forest

Southern riparian forest is a medium to tall broadleaved riparian forest community with a closed or nearly closed canopy that may have a sparse or dense understory. This community cannot be further differentiated into southern coast live oak riparian forest, arroyo willow forest, or southern cottonwood-willow riparian forest due to a lack of characteristic dominant tree species. This community is restricted to streams, rivers and lake edges and occurs within the foothills and cismontane regions of San Diego County. This community was most often dominated by Fremont cottonwood, western sycamore, coast live oak, arroyo willow and/or mulefat. This community was classified as a Riparian Zone.

Southern Riparian Scrub

Southern riparian scrub consists of relatively low-growing riparian thickets dominated by small trees or shrubs that generally lack mature riparian trees and cannot be further differentiated into mulefat scrub or southern willow scrub due to a lack of characteristic dominant species. This community occurs primarily along major river systems where flood scouring occurs. Commonly encountered dominant

species in this community included immature Fremont cottonwood, western sycamore, coast live oak, arroyo willow and/or mulefat. This community was classified as a Riparian Zone.

Southern Riparian Woodland

Southern riparian woodland is a moderate-density riparian woodland community dominated by small trees and shrubs, with occasional scattered, taller riparian trees. This community is similar to other riparian forest communities, though it is generally less dense, lacking a closed canopy, and is not dominated by tall trees. This community occurs along major river systems and smaller tributaries and is found throughout San Diego County. Dominant species encountered in this community included Fremont cottonwood, western sycamore, mulefat and Goodding's black willow, with understory plant species such as poison oak. This community was classified as a Riparian Zone.

Southern Willow Scrub

Southern willow scrub consists of moderately tall, dense, broad-leafed, winter-deciduous riparian thickets that occur along frequently scoured river and stream systems of San Diego County without mature riparian trees. This community typically had a dense canopy and mid-story, precluding understory development. Dominant species encountered included arroyo willow, red willow, mulefat and black elderberry (*Sambucus nigra*), occasionally with dominant non-native understory species such as castor bean and poison hemlock. This community was classified as a Riparian Zone.

Urban/Developed

Urban/developed communities occur throughout San Diego County as a result of anthropogenic disturbances. This community includes areas that have been developed through construction activities or were otherwise physically altered to an extent that native vegetation is no longer present. Examples include buildings, paved roads, parking lots, permanent structures, landscaped areas, and areas where natural vegetation communities are no longer evident. This community included areas that were unvegetated or vegetated with ornamental plantings and occasionally contained relict natives retained for ornamental purposes, such as native coast live oak and pine trees.

Wildflower Field

Wildflower fields are generally restricted to elevations between 4,000 – 5,000 feet within San Diego County and consists of a variety of mostly low-growing, native herb species with dominant species varying considerably by region. This community was only identified in one location along Engineers Road and was dominated California wild rose, golden yarrow (*Eriophyllum confertiflorum*) and snowberry (*Symphoricarpos albus*).

4.2 Special-Status Species

A total of 12 special-status plant species and 13 special-status wildlife species occurrences requiring analysis for this project were found within five miles of project areas through the CNDDB review. These include the following:

Plants

- Cuyamaca lake downingia (*Downingia concolor* var. *brevior*; SE)
- Del Mar manzanita (*Arctostaphylos glandulosa* ssp. *crassifolia*; FE)
- Dehesa nolina (*Nolina interrata*; FE)
- Encinitas baccharis (*Baccharis vanessae*; FE, SE)
- Nevin's barberry (*Berberis nevinii*; FE, SE)
- Parish's meadowfoam (*Limnanthes alba* ssp. *parishii*; SE)
- San Bernardino bluegrass (*Poa atropurpurea*; FE)
- San Diego ambrosia (*Ambrosia pumila*; FE)
- San Diego button celery (*Eryngium aristulatum* var. *parishii*; FE, SE)
- San Diego thorn mint (*Acanthomintha ilicifolia*; FE, SE)
- spreading navarretia (*Navarretia fossalis*; FT)
- thread-leaved brodiaea (*Brodiaea filifolia*; FE, SE)

Wildlife

- arroyo toad (*Anaxyrus californicus*; FE)
- California black rail (*Laterallus jamaicensis coturniculus*; ST)
- coastal California gnatcatcher (*Polioptila californica californica*; FT)
- Hermes copper butterfly (*Lycaena hermes*; FT)
- Laguna Mountains skipper (*Pyrgus ruralis lagunae*; FE)
- least Bell's vireo (*Vireo bellii pusillus*; FE, SE)
- Quino checkerspot butterfly (*Euphydras editha quino*; FE)
- San Diego fairy shrimp (*Branchinecta sandiegonensis*; FE)
- Southwestern willow flycatcher (*Empidonax traillii extimus*; FE, SE)
- Stephens' kangaroo rat (*Dipodomys stephensi*; FE, ST)
- Swainson's hawk (*Buteo swainsoni*; ST)
- tricolored blackbird (*Agelaius tricolor*; ST)
- western yellow-billed cuckoo (*Coccyzus americanus occidentalis*; FT, SE)

The results of the literature review were utilized during the field surveys conducted for this project to ascertain presence/absence and potentials for occurrence of each of these species. Although numerous special-status species were identified as having potential to occur, only one: coastal California gnatcatcher was observed during the surveys. Results for each road segment are detailed in Section 4.3, with comprehensive survey data and associated maps found in Attachment A.

4.3 High Priority County Roads

Old Castle Road – Lilac Road to Old Highway 395

This 5.47-mile stretch of east-west running road is situated in north-central San Diego County, immediately east of Interstate 15, in the unincorporated community of Valley Center. Nine distinct vegetation communities were mapped within the Survey Area along this route including Agriculture,

Coast Live Oak Woodland, Eucalyptus Woodland, Coastal Sage-Chaparral Mix, Diegan Coastal Sage Scrub, Disturbed Habitat, Southern Coast Live Oak Riparian Forest, Southern Cottonwood-Willow Riparian Forest, Southern Mixed Chaparral, and Urban/Developed. Riparian zones consisting of Southern Coast Live Oak Riparian Forest and Southern Cottonwood-Willow Riparian Forest were mapped for avoidance. The literature review for this road segment yielded two special-status species with potential to occur including least Bell's vireo and coastal California gnatcatcher. Field surveys determined that both species have potential to occur in respective areas of the Coastal Sage-Chaparral Mix, Diegan Coastal Sage Scrub, Southern Coast Live Oak Riparian Forest, and Southern Cottonwood-Willow Riparian Forest habitats mapped within the Survey Area. No special-status species were observed or detected during the survey.

Cole Grade Road – Valley Center Road to Highway 76

This 7.8-mile stretch of north-south running road is situated in north-central San Diego County, immediately northeast of Highway 76, in the unincorporated community of Valley Center. Twelve distinct vegetation communities were mapped within the Survey Area along this route including Agriculture, Chamise Chaparral, Coast Live Oak Woodland, Coastal Sage-Chaparral Mix, Disturbed Habitat, Diegan Coastal Sage Scrub, Eucalyptus Woodland, Flat-topped Buckwheat Scrub, Mulefat Scrub, Southern Coast Live Oak Riparian Forest, Southern Mixed Chaparral, and Urban Developed. Riparian zones consisting of Mule Fat Scrub and Southern Coast Live Oak Riparian Forest habitats were mapped for avoidance. The literature review for this road segment yielded four special-status species with potential to occur including arroyo toad, Swainson's hawk, coastal California gnatcatcher, and least Bell's vireo. Field surveys determined that only coastal California gnatcatcher has potential to occur in the Diegan Coastal Sage Scrub and Flat-topped Buckwheat Scrub habitats of the Survey Area. No special-status species were observed or detected during the survey.

Engineers Road – Boulder Creek Road to Highway 79

This 5.8-mile stretch of east-west running road is situated in north-east San Diego County, immediately north-northwest of Highway 79, in the unincorporated community of Julian. Ten distinct vegetation communities were mapped within the Survey Area along this route including Black Oak Woodland, Coast Live Oak Woodland, Disturbed Habitat, Montane Buckwheat Scrub, Mixed Oak/Coniferous/Bigcone/Coulter Forest, Montane Chaparral, Non-Native Grassland, Southern Coast Live Oak Riparian Forest, Urban/Developed, and Wildflower Field. Southern Coast Live Oak Riparian Forest was the only riparian zone mapped for avoidance. The literature review for this road segment yielded four special-status species with potential to occur including arroyo toad, Cuyamaca Lake downingia, Parish's meadowfoam, and San Bernardino blue grass. None of these species have potential to occur within the Survey Area. No special-status species were observed or detected during the survey.

Boulder Creek Road – Oak Grove Drive to Engineers Road

This 18-mile stretch of north-south running road is situated in east San Diego County, approximately two miles north of Interstate 8, in the unincorporated community of Julian. Eighteen distinct vegetation communities were mapped within the Survey Area along this route including Agriculture, Chamise Chaparral, Coast Live Oak Woodland, Diegan Coastal Sage Scrub, Disturbed Habitat, Engelmann Oak Woodland, Mixed Oak Woodland, Mixed Oak/Coniferous/Bigcone/Coulter Forest, Montane Buckwheat Scrub, Montane Chaparral, Mulefat Scrub, Non-Native Grassland, Non-Vegetated

Floodplain or Channel, Scrub Oak Chaparral, Southern Coast Live Oak Riparian Forest, Southern Mixed Chaparral, Southern Riparian Forest, and Urban/Developed. Riparian zones consisting of Non-Vegetated Floodplain or Channel, Southern Coast Live Oak Riparian Forest, and Southern Riparian Forest habitats were mapped for avoidance. The literature review for this road segment yielded five special-status species with potential to occur including arroyo toad, Cuyamaca Lake downingia, Parish's meadowfoam, least Bell's vireo, and San Bernardino blue grass. Field surveys determined that only least Bell's vireo has potential to occur in the riparian habitats within the Survey Area. No special-status species were observed or detected during the survey.

Boulder Creek Road – Engineers Road to Eagle Peak Road

This 3.2-mile stretch of north-south running road is situated in north-northeast San Diego County, approximately two miles south of Highway 78, in the unincorporated community of Julian. Thirteen distinct vegetation communities were mapped within the Survey Area along this route including Chamise Chaparral, Coast Live Oak Woodland, Disturbed Habitat, Engelmann Oak Woodland, Mixed Oak/Coniferous/Bigcone/Coulter Forest, Mixed Oak Woodland, Montane Buckwheat Scrub, Montane Chaparral, Native Grassland, Scrub Oak Chaparral, Southern Riparian Woodland, Southern Coast Live Oak Riparian Forest, and Urban/Developed. Riparian zones consisting of Southern Coast Live Oak Riparian Forest and Southern Riparian Woodland habitats were mapped for avoidance. The literature review for this road segment yielded five special-status species with potential to occur including arroyo toad, Cuyamaca Lake downingia, San Diego button-celery, Parish's meadowfoam, and San Bernardino blue grass. Field surveys determined that none of these species had potential to occur within the Survey Area. No special-status species were observed or detected during the survey.

Barrett Lake Road – Highway 94 to End of County Maintained Road

This 2.4-mile stretch of north-south running road is situated in south-southeast San Diego County, immediately north-northeast of Highway 94, in the unincorporated community of Dulzura. Seven distinct vegetation communities were mapped within the Survey Area along this route including Agriculture, Disturbed Habitat, Coast Live Oak Woodland, Diegan Coastal Sage Scrub, Southern Coast Live Oak Riparian Forest, Southern Cottonwood-Willow Riparian Forest, and Urban/Developed. Riparian zones consisting of Southern Coast Live Oak Riparian Forest and Southern Cottonwood-Willow Riparian Forest were mapped for avoidance. The literature review for this road segment yielded six special-status species with potential to occur including Quino checkerspot butterfly, arroyo toad, least Bell's vireo, tricolored blackbird, San Diego fairy shrimp, and San Diego thorn-mint. Field Surveys determined that of these species, only arroyo toad, Quino checkerspot butterfly, and least Bell's vireo have potential to occur in respective areas of the Diegan Coastal Sage Scrub and riparian habitats mapped within the Survey Area. No special-status species were observed or detected during the survey.

Old Highway 395 – Camino Del Rey to Riverside County Line

This 12.8-mile stretch of north-south running road is situated in north San Diego County, paralleling Interstate 15, in the unincorporated community of Pala Mesa. Fourteen distinct vegetation communities were mapped within the Survey Area along this route including Coastal Sage-Chaparral Mix, Coast Live Oak Woodland, Diegan Coastal Sage Scrub, Disturbed Habitat, Eucalyptus Woodland, Mulefat Scrub, Non-Native Riparian, Scrub Oak Chaparral, Southern Arroyo Willow Riparian Forest, Southern Coast Live Oak Riparian Forest, Southern Cottonwood-Willow Riparian Forest, Southern Mixed Chaparral, Southern Willow Scrub, and Urban/Developed. Riparian zones consisting of Non-Native

Riparian, Mulefat Scrub, Southern Arroyo Willow Riparian Forest, Southern Willow Scrub, Southern Cottonwood-Willow Riparian Forest, and Southern Coast Live Oak Riparian Forest were mapped for avoidance. The literature review for this road segment yielded nine special-status species with potential to occur including tricolored blackbird, San Diego ambrosia, arroyo toad, Swainson's hawk, western yellow-billed cuckoo, Stephens' kangaroo rat, least Bell's vireo, coastal California gnatcatcher, and southwestern willow flycatcher. Field surveys determined that of these species, only coastal California gnatcatcher, least Bell's vireo, western yellow-billed cuckoo, and southwestern willow flycatcher have potential to occur in respective areas of the Coastal Sage-Chaparral Mix, Diegan Coastal Sage Scrub, and riparian habitats mapped within the Survey Area. No special-status species were observed or detected during the survey.

Camino Del Rey – Olive Hill Road to Old Highway 395

This 4.9-mile stretch of east-west running road is situated in north San Diego County, west of Interstate 15, in the unincorporated community of Bonsall. Eleven distinct vegetation communities were mapped within the Survey Area along this route including Coast Live Oak Woodland, Coastal Sage-Chaparral Mix, Diegan Coastal Sage Scrub, Disturbed Habitat, Eucalyptus Woodland, Non-Native Riparian, Southern Arroyo Willow Riparian Forest, Southern Coast Live Oak Riparian Forest, Southern Cottonwood-Willow Riparian Forest, Southern Willow Scrub, and Urban/Developed. Riparian zones consisting of Southern Arroyo Willow Riparian Forest, Southern Coast Live Oak Riparian Forest, Southern Cottonwood-Willow Riparian Forest, Non-Native Riparian, and Southern Willow Scrub were mapped for avoidance. The literature review for this road segment yielded nine special-status species with potential to occur including San Diego thorn-mint, San Diego ambrosia, arroyo toad, Swainson's hawk, western yellow-billed cuckoo, Stephens' kangaroo rat, least Bell's vireo, coastal California gnatcatcher, and southwestern willow flycatcher. Of these species, only least Bell's vireo, coastal California gnatcatcher, and southwestern willow flycatcher have potential to occur in respective areas of the Coastal Sage-Chaparral Mix, Diegan Coastal Sage Scrub, Southern Arroyo Willow Riparian Forest, Southern Coast Live Oak Riparian Forest, Southern Cottonwood-Willow Riparian Forest, and Southern Willow Scrub habitats mapped within the Survey Area. A coastal California gnatcatcher was observed within Diegan Coastal Sage Scrub at the west end of the Survey Area near the intersection of Camino del Rey and Interstate 15.

Harris Ranch Road – Highway 94 to End of Road

This 2.1-mile stretch of north-south running road is situated in south-southeast San Diego County, immediately north of Highway 94, in the unincorporated community of Potrero. Eight distinct vegetation communities were mapped within the Survey Area along this route including Coastal Sage-Chaparral Mix, Diegan Coastal Sage Scrub, Chamise Chaparral, Disturbed Habitat, Flat-Topped Buckwheat Scrub, Non-Native Grassland, Scrub Oak Chaparral, and Southern Mixed Chaparral. No riparian zones were mapped in this segment. The literature review for this road segment yielded five special-status species with potential to occur including Quino checkerspot butterfly, arroyo toad, least Bell's vireo, tricolored blackbird, and San Diego thorn-mint. Of these species, only Quino checkerspot butterfly has potential to occur in the Coastal Sage-Chaparral Mix and Flat-Topped Buckwheat Scrub habitats mapped within the Survey Area. Suitable habitat for one additional special-status species, Hermes copper butterfly, was identified during the field survey. No special-status species were observed or detected during the survey.

Corte Madera Road – Old Highway 80 to End of County Maintained Road

This 0.8-mile stretch of north-south running road is situated in east San Diego County, immediately west-southwest of Old Highway 80, in the unincorporated community of Pine Valley. Seven distinct vegetation communities were mapped within the Survey Area along this route including Big Sagebrush Scrub, Coast Live Oak Woodland, Disturbed Habitat, Jefferey Pine Forest, Mixed Oak/Coniferous/Bigcone/Coulter Forest, Southern Mixed Chaparral, and Urban/Developed. No riparian zones were mapped in this segment. The literature review for this road segment yielded five special-status species with potential to occur including arroyo toad, Parish's meadowfoam, Hermes copper butterfly, San Bernardino blue grass, and least Bell's vireo. None of these species have potential to occur within the Survey Area. No special-status species were observed or detected during the survey.

Cougar Pass Road – North Broadway to End of County Maintained Road

This 2-mile stretch of north-south running road is situated in north-central San Diego County, approximately two miles northeast of Interstate 15, in the community of Escondido. Ten distinct vegetation communities were mapped within the Survey Area along this route including Coast Live Oak Woodland, Coastal Sage-Chaparral Mix, Diegan Coastal Sage Scrub, Disturbed Habitat, Non-Vegetated Floodplain or Channel, Scrub Oak Chaparral, Southern Coast Live Oak Riparian Forest, Southern Mixed Chaparral, Southern Riparian Scrub, and Urban/Developed. Riparian zones consisting of Southern Coast Live Oak Riparian Forest, Non-Vegetated Floodplain or Channel, and Southern Riparian Scrub were mapped for avoidance. The literature review for this road segment yielded six special-status species with potential to occur including San Diego button-celery, spreading navarretia, San Diego thorn-mint, tricolored blackbird, coastal California gnatcatcher, and least Bell's vireo. Field surveys determined that of these species, only coastal California gnatcatcher and least Bell's vireo have potential to occur in respective areas of Coastal Sage-Chaparral Mix, Diegan Coastal Sage Scrub, Southern Riparian Scrub, and Southern Coast Live Oak Riparian Forest habitats mapped within the Survey Area. No special-status species were observed or detected during the survey.

Deer Springs Road – Champagne Boulevard/Old Highway 395 to San Marcos City Limit

This 2.2-mile stretch of east-west running road is situated in north-central San Diego County, immediately west of Interstate 15, in the community of San Marcos. Eleven distinct vegetation communities were mapped within the Survey Area along this route including Agriculture, Coast Live Oak Woodland, Coastal Sage-Chaparral Mix, Disturbed Habitat, Coastal Sage-Chaparral Mix, Non-Native Riparian, Non-Vegetated Floodplain or Channel, Scrub Oak Chaparral, Southern Coast Live Oak Riparian Forest, Southern Mixed Chaparral, Disturbed Wetland, and Urban/Developed. Riparian zones consisting of Disturbed Wetland, Southern Coast Live Oak Riparian Forest, Non-Native Riparian, and Non-Vegetated Floodplain or Channel were mapped for avoidance. The literature review for this road segment yielded nine special-status species with potential to occur including San Diego thorn-mint, tricolored blackbird, Del Mar manzanita, San Diego fairy shrimp, thread-leaved brodiaea, San Diego button celery, spreading navarretia, coastal California gnatcatcher, and least Bell's vireo. Field surveys determined that none of these species have potential to occur within the Survey Area. No special-status species were observed or detected during the survey.

Dehesa Road – Harbison Canyon Road to Japatul Road

This 4.8-mile stretch of east-west running road is situated in east San Diego County, approximately two miles south of Interstate 8, in the unincorporated community of Alpine. Nine distinct vegetation communities were mapped within the Survey Area along this route including Coast Live Oak Woodland, Coastal Sage-Chaparral Mix, Diegan Coastal Sage Scrub, Diegan Coastal Sage Scrub (*Baccharis* dominated), Disturbed Habitat, Mulefat Scrub, Non-Native Riparian, Southern Coast Live Oak Riparian Forest, and Urban/Developed. Riparian zones consisting of Mulefat Scrub, Non-Native Riparian, and Southern Coast Live Oak Riparian Forest were mapped for avoidance. The literature review for this road segment yielded nine special-status species with potential to occur including Swainson's hawk, Quino checkerspot butterfly, Hermes copper butterfly, coastal California gnatcatcher, least Bell's vireo, arroyo toad, Dehesa nolina, San Diego thorn-mint, and Encinitas baccharis. Field surveys determined that of these species, only Quino checkerspot butterfly, coastal California gnatcatcher, least Bell's vireo, Dehesa nolina, and San Diego thorn-mint have potential to occur within respective areas of the Coastal Sage-Chaparral Mix, Diegan Coastal Sage Scrub, Mulefat Scrub, and Southern Coast Live Oak Riparian Forest habitats mapped within the Survey Area. No special-status species were observed or detected during the survey.

Dehesa Road – Willow Glenn Road to Harbison Canyon Road

This 3.2-mile stretch of east-west running road is situated in east San Diego County, approximately two miles southeast of Interstate 8, in the community of El Cajon. Five distinct vegetation communities were mapped within the Survey Area along this route including Diegan Coastal Sage Scrub, Disturbed Habitat, Diegan Coastal Sage Scrub (*Baccharis* dominated), Eucalyptus Woodland, and Urban/Developed. No riparian zones were mapped in this segment. The literature review for this road segment yielded nine special-status species with the potential to occur including arroyo toad, coastal California gnatcatcher, Swainson's hawk, least Bell's vireo, Quino checkerspot butterfly, Hermes copper butterfly, San Diego thorn-mint, Encinitas Baccharis, and Dehesa nolina. Of these species, only coastal California gnatcatcher, Dehesa nolina, and San Diego thorn-mint have potential to occur within the Diegan Coastal Sage Scrub habitat mapped within the Survey Area. No special-status species were observed or detected during the survey.

East Grade Road/County Route S7 – South Grade Road to Highway 76

This 11.3-mile stretch of east-west running road is situated in north-central San Diego County, immediately north-northwest of Highway 76, on Palomar Mountain. Fourteen distinct vegetation communities were mapped within the Survey Area along this route including Coast Live Oak Woodland, Coulter Pine Forest, Disturbed Habitat, Flat-Topped Buckwheat Scrub, Mixed Oak/Coniferous/Bigcone/Coulter Forest, Mixed Oak Woodland, Montane Buckwheat Scrub, Montane Chaparral, Non-Native Grassland, Non-Vegetated Floodplain or Channel, Northern Mixed Chaparral, Southern Coast Live Oak Riparian Forest, Southern Riparian Scrub, and Urban/Developed. Riparian zones consisting of Southern Coast Live Oak Riparian Forest, Non-Vegetated Floodplain or Channel, and Southern Riparian Scrub were mapped for avoidance. The literature review for this road segment yielded seven special-status species with potential to occur including least Bell's vireo, southwestern willow flycatcher, arroyo toad, Laguna Mountains skipper, Stephen's kangaroo rat, Nevin's barberry, and San Bernardino blue grass. Field surveys determined that of these species, least Bell's vireo, southwestern willow flycatcher, Laguna Mountains skipper, and Nevin's barberry have potential to occur within respective areas of the Coulter Pine Forest, Mixed Oak/Coniferous/Bigcone/Coulter

Forest, Montane Chapparal, Northern Mixed Chaparral, Southern Coast Live Oak Riparian, and Southern Riparian Scrub habitats mapped within the Survey Area. No special-status species were observed or detected during the survey.

Emery Road – Humphries/Thing Road to Highway 94

This 2-mile stretch of north-south running road is situated in south-central San Diego County, immediately south of Highway 94, in the unincorporated community of Tecate. Ten distinct vegetation communities were mapped within the Survey Area along this route including Chamise Chaparral, Coastal Sage-Chaparral Mix, Diegan Coastal Sage Scrub, Disturbed Habitat, Eucalyptus Woodland, Flat-Topped Buckwheat Scrub, Non-Native Riparian, Southern Coast Live Oak Riparian Forest, Southern Mixed Chaparral, and Urban/Developed. Southern Coast Live Oak Riparian Forest was the only riparian zone mapped in this segment. The literature review for this road segment yielded five special-status species with potential to occur including arroyo toad, Quino checkerspot butterfly, least Bell's vireo, tricolored blackbird, and San Diego thorn-mint. Field surveys determined that of these species, only Quino checkerspot butterfly, least Bell's vireo, and San Diego thorn-mint have potential to occur within respective areas of the Coastal Sage-Chaparral Mix, Diegan Coastal Sage Scrub, Flat-Topped Buckwheat Scrub, and Southern Coast Live Oak Riparian Forest habitats mapped within the Survey Area. The field survey identified potential for one additional special-status species, Hermes copper butterfly, to occur within the Southern Mixed Chapparal habitat mapped within the Survey Area. No special-status species were observed or detected during the survey.

Farmer Road – Main Street to End of County Maintained Road

This 2.7-mile stretch of north-south running road is situated in northeast San Diego County, approximately one quarter mile northwest of Highway 78/Highway 79, in the unincorporated community of Julian. Seven distinct vegetation communities were mapped within the Survey Area along this route including Agriculture, Disturbed Wetland, Mixed Oak/Coniferous/Bigcone/Coulter Forest, Montane Buckwheat Scrub, Montane Meadow, Non-Native Grassland, and Urban/Developed. Riparian zones consisting of Disturbed Wetland and Montane Meadow were mapped for avoidance. The literature review for this road segment yielded two special-status species with potential to occur including arroyo toad and Parish's meadowfoam. Field surveys determined that of these species, only Parish's meadowfoam has potential to occur within the Montane Meadow habitat mapped within the Survey Area. No special-status species were observed or detected during the survey.

Lawson Valley Road – Lyons Valley Road to Rudnick Road

This 5.2-mile stretch of east-west running road is situated in east San Diego County, approximately three miles northeast of Highway 94, in the unincorporated community of Jamul. Eleven distinct vegetation communities were mapped within the Survey Area along this route including Coast Live Oak Woodland, Coastal Sage-Chaparral Mix, Diegan Coastal Sage Scrub, Disturbed Habitat, Eucalyptus Woodland, Engelmann Oak Woodland, Flat-Topped Buckwheat Scrub, Scrub Oak Chaparral, Southern Coast Live Oak Riparian Forest, Southern Mixed Chaparral, and Urban/Developed. Southern Coast Live Oak Riparian Forest was the only riparian zone mapped in this segment. The literature review for this road segment yielded eight special-status species with potential to occur including arroyo toad, Quino checkerspot butterfly, Hermes copper butterfly, Swainson's hawk, coastal California gnatcatcher, least Bell's vireo, Dehesa nolina, and San Diego thorn-mint. Of these species, only Quino checkerspot butterfly, Hermes copper butterfly, coastal California gnatcatcher, least Bell's vireo, Dehesa nolina,

and San Diego thorn-mint have potential to occur within respective areas of the Coastal Sage-Chaparral, Diegan Coastal Sage Scrub, Flat-Topped Buckwheat Scrub, Southern Coast Live Oak Riparian Forest, and Southern Mixed Chaparral habitats mapped within the Survey Area. No special-status species were observed or detected during the survey.

Mountain View Road – Frances Drive to La Cresta Road/La Cresta Boulevard

This 2.8-mile stretch of east-west running road is situated in east San Diego County, approximately two miles south of Interstate 8, in the community of El Cajon. Six distinct vegetation communities were mapped within the Survey Area along this route including Coast Live Oak Woodland, Coastal Sage-Chaparral Mix, Diegan Coastal Sage Scrub, Disturbed Habitat, Southern Mixed Chaparral, and Urban/Developed. No riparian zones were mapped in this segment. The literature review for this road segment yielded 10 special-status species with potential to occur including Quino checkerspot butterfly, coastal California gnatcatcher, San Diego thorn-mint, tricolored blackbird, San Diego ambroisa, arroyo toad, Encinitas baccharis, Hermes copper butterfly, Dehesa nolina, and least Bell's vireo. Of these species, only coastal California gnatcatcher and Quino checkerspot butterfly have potential to occur within respective areas of the Coastal Sage-Chaparral Mix, Diegan Coastal Sage Scrub, and Southern Mixed Chaparral habitats mapped within the Survey Area. No special-status species were observed or detected during the survey.

North Centre City Parkway – Nutmeg Street to Mountain Meadow

This 2.5-mile stretch of north-south running road is situated in north-central San Diego County, immediately east of Interstate 15, in the community of Escondido. Six distinct vegetation communities were mapped within the Survey Area along this route including Coast Live Oak Woodland, Coastal Sage-Chaparral Mix, Diegan Coastal Sage Scrub, Disturbed Habitat, Southern Mixed Chaparral, and Urban/Developed. No riparian zones were mapped in this segment. The literature review for this road segment yielded 11 special-status species with potential to occur including tricolored blackbird, Swainson's hawk, western yellow-billed cuckoo, California black rail, coastal California gnatcatcher, least Bell's vireo, San Diego thorn-mint, Del Mar manzanita, thread-leaved brodiaea, San Diego button-celery, and spreading navarretia. None of these species have potential to occur within the Survey Area. No special-status species were observed or detected during the survey.

North Lake Wohlford Road – Valley Center Road to Lake Wohlford Road/Guejito Road

This 3.3-mile stretch of north-south running road is situated in east San Diego County, approximately four miles southwest of Highway 76, in the unincorporated community of Valley Center. Nine distinct vegetation communities were mapped within the Survey Area along this route including Chamise Chaparral, Coast Live Oak Woodland, Coastal Sage-Chaparral Mix, Diegan Coastal Sage Scrub, Disturbed Habitat, Mulefat Scrub, Southern Coast Live Oak Riparian Forest, Southern Mixed Chaparral, and Urban/Developed. Riparian zones consisting of Mulefat Scrub and Southern Coast Live Oak Riparian Forest were mapped for avoidance. The literature review for this road segment yielded five special-status species with the potential to occur including arroyo toad, Swainson's hawk, Stephens' kangaroo rat, coastal California gnatcatcher, and least Bell's vireo. None of these species have potential to occur within the Survey Area. No special-status species were observed or detected during the survey.

Pine Hills Road – Highway 78/Highway 79 to End of County Maintained Road

This 2.9-mile stretch of north-south running road is situated in northeast San Diego County, immediately south of Highway 78/79, in the unincorporated community of Julian. Eleven distinct vegetation communities were mapped within the Survey Area along this route including Agriculture, Coast Live Oak Woodland, Disturbed Habitat, Disturbed Wetland, Mixed Oak/Coniferous/Bigcone/Coulter Forest, Mixed Oak Woodland, Montane Buckwheat Scrub, Montane Meadow, Non-Native Grassland, Southern Coast Live Oak Riparian Forest, and Urban/Developed. Riparian zones consisting of Disturbed Wetland, Montane Meadow, and Southern Coast Live Oak Riparian Forest were mapped for avoidance. The literature review for this road segment yielded five special-status species with potential to occur including arroyo toad, Cuyamaca Lake downingia, San Diego button celery, Parish's meadowfoam, and San Diego blue grass. Of these species, Cuyamaca Lake downingia, San Diego button celery, Parish's meadowfoam, and San Bernardino blue grass have potential to occur within the Montane Meadow habitat mapped within the Survey Area. No special-status species were observed or detected during the survey.

Pine Valley Road - Old Highway 80 to Interstate 8 West-Bound Ramp/End of County Maintained Road

This 0.26-mile stretch of north-south running road is situated in east San Diego County, immediately north of Interstate 8, in the unincorporated community of Pine Valley. Five distinct vegetation communities were mapped within the Survey Area along this route including Coast Live Oak Woodland, Disturbed Habitat, Mixed Oak/Coniferous/Bigcone/Coulter Forest, Southern Mixed Chaparral, and Urban/Developed. No riparian zones were mapped in this segment. The literature review for this road segment yielded five special-status species with potential to occur including arroyo toad, Hermes copper butterfly, least Bell's vireo, Parish's meadowfoam, and San Bernardino blue grass. None of these species have potential to occur within the Survey Area. No special-status species were observed or detected during the survey.

Potrero Valley Road – Highway 94 to End of County Maintained Road

This 3.8-mile stretch of north-south and east-west running road is situated in south-central San Diego County, immediately north of Highway 94, in the unincorporated community of Potrero. Twelve distinct vegetation communities were mapped within the Survey Area along this route including Chamise Chaparral, Coast Live Oak Woodland, Disturbed Habitat, Eucalyptus Woodland, Flat-Topped Buckwheat Scrub, Mixed Oak Woodland, Mulefat Scrub, Non-Native Grassland, Southern Mixed Chaparral, Southern Riparian Forest, Southern Riparian Woodland, and Urban/Developed. Riparian zones consisting of Mulefat Scrub, Southern Riparian Woodland, and Southern Riparian Forest were mapped for avoidance. The literature review for this road segment yielded five special-status species with potential to occur including tricolored blackbird, arroyo toad, Quino checkerspot butterfly, least Bell's vireo, and San Diego thorn-mint. Of these species, only arroyo toad, Quino checkerspot butterfly, and least Bell's vireo have potential to occur in respective areas of the Flat-Topped Buckwheat Scrub, Mulefat Scrub, Southern Riparian Forest and Southern Riparian Woodland habitats mapped within the Survey Area. No special-status species were observed or detected during the survey.

Riverside Drive - Old Highway 80 to Viejas Grade Road

This 0.85-mile stretch of north-south running road is situated in east San Diego County, immediately north of Highway 80, in the unincorporated community of Descanso. Seven distinct vegetation

communities were mapped within the Survey Area along this route including Coast Live Oak Woodland, Montane Meadow, Non-Native Grassland, Southern Coast Live Oak Riparian Forest, Southern Riparian Forest, Southern Riparian Scrub, and Urban/Developed. Riparian zones consisting of Montane Meadow, Southern Coast Live Oak Riparian Forest, Southern Riparian Forest, and Southern Riparian Scrub were mapped for avoidance. The literature review for this road segment yielded five special-status species with potential to occur including tricolored blackbird, arroyo toad, Hermes copper butterfly, least Bell's vireo, and San Diego thorn-mint. Of these species, arroyo toad and least Bell's vireo have potential to occur in the Southern Coast Live Oak Riparian Forest, Southern Riparian Forest, and Southern Riparian Scrub habitats mapped within the Survey Area. No special-status species were observed or detected during the survey.

Round Potrero Road – Potrero Valley Road to End of County Maintained Road

This 2.8-mile stretch of north-south running road is situated in south-central San Diego County, approximately one mile north of Highway 94, in the unincorporated community of Potrero. Eight distinct vegetation communities were mapped within the Survey Area along this route including Agriculture, Chamise Chaparral, Disturbed Habitat, Flat-Topped Buckwheat Scrub, Non-Native Grassland, Scrub Oak Chapparal, Southern Mixed Chaparral, and Urban/Developed. No riparian zones were mapped in this segment. The literature review for this road segment yielded five special-status species with potential to occur including tricolored blackbird, arroyo toad, Quino checkerspot butterfly, least Bell's vireo, and San Diego thorn-mint. Of these species, only Quino checkerspot butterfly has potential to occur in the Chamise Chaparral, Flat-Topped Buckwheat Scrub, Scrub Oak Chaparral, and Southern Mixed Chaparral habitats mapped within the Survey Area. No special-status species were observed or detected during the survey.

South Grade Road – Highway 76 to East Grade Road

This 6.6-mile stretch of north-south running road is situated in northeast San Diego County, immediately north-northeast of Highway 76, on Palomar Mountain. Ten distinct vegetation communities were mapped within the Survey Area along this route including Diegan Coastal Sage Scrub, Chamise Chaparral, Coast Live Oak Woodland, Disturbed Habitat, Flat-Topped Buckwheat Scrub, Mixed Oak/Coniferous/Bigcone/Coulter Forest, Mixed Oak Woodland, Montane Chaparral, Southern Mixed Chaparral, and Urban/Developed. No riparian zones were mapped in this segment. The literature review for this road segment yielded seven special-status species with potential to occur including least Bell's vireo, southwestern willow flycatcher, arroyo toad, Laguna Mountains skipper, Stephens' kangaroo rat, Nevin's barberry, and San Bernardino blue grass. Of these species, only Laguna Mountains skipper and Nevin's barberry have potential to occur within respective areas of the Coulter Pine Forest, Mixed Oak/Coniferous/Bigcone/Coulter Forest, Montane Chaparral, Southern Mixed Chaparral, Montane Buckwheat Scrub, and Southern Coast Live Oak Riparian Forest habitats mapped within the Survey Area. No special-status species were observed or detected during the survey.

Valley Center Road – Escondido City Limit to Highway 76

This 13.74-mile stretch of north-south and west-east running road is situated in north-central San Diego County, approximately four miles east of Interstate 15, in the unincorporated community of Valley Center. Eleven distinct vegetation communities were mapped within the Survey Area along this route including Coast Live Oak Woodland, Coastal Sage-Chaparral Mix, Diegan Coastal Sage Scrub, Disturbed Habitat, Mulefat Scrub, Non-Native Riparian, Southern Coast Live Oak Riparian Forest,

Southern Cottonwood-Willow Riparian Forest, Southern Mixed Chaparral, Southern Willow Scrub, and Urban/Developed. Riparian zones consisting of Mulefat Scrub, Southern Coast Live Oak Riparian Forest, Southern Willow Scrub, and Southern Cottonwood-Willow Riparian Forest were mapped for avoidance. The literature review for this road segment yielded three special-status species with potential to occur including arroyo toad, least Bell's vireo, and coastal California gnatcatcher. All of these species have potential to occur in respective areas of the Coastal Sage-Chaparral Mix, Diegan Coastal Sage Scrub, Mulefat Scrub, Southern Coast Live Oak Riparian Forest, Southern Cottonwood-Willow Riparian Forest, and Southern Willow Scrub habitats mapped within the Survey Area. No special-status species were observed or detected during the survey.

Wynola Road – Highway 79 to Highway 78

This 4.1-mile stretch of west-east running road is situated in north-east San Diego County, immediately east of Highway 79, in the unincorporated community of Julian. Twelve distinct vegetation communities were mapped within the Survey Area along this route including Agriculture, Coast Live Oak Woodland, Diegan Coastal Sage Scrub, Disturbed Habitat, Disturbed Wetland, Mixed Oak/Coniferous/Bigcone/Coulter Forest, Mixed Oak Woodland, Non-Vegetated Floodplain or Channel, Non-Native Grassland, Southern Coast Live Oak Riparian Forest, Southern Riparian Woodland, and Urban/Developed. Riparian zones consisting of Disturbed Wetland, Southern Riparian Woodland, Non-Vegetated Floodplain or Channel, and Southern Coast Live Oak Riparian Forest were mapped for avoidance. The literature review for this road segment yielded four special-status species with potential to occur including tricolored blackbird, arroyo toad, Parish's meadowfoam, and least Bell's vireo. None of these species have potential to occur within the Survey Area. No special-status species were observed or detected during the survey.

5.0 PROJECT FINDINGS

As stated above in Section 2.1, the MOU between USFWS, CDFW, CDF, County Fire Chiefs, and the County Fire Districts authorizes the take of species listed as threatened or endangered, or candidate species for management purposes necessitated by or incidental to fire protection measures. The MOU indicates property owners, their lessees, fire districts, the County of San Diego, Caltrans, and cities shall be permitted to clear up to 30 feet along each side of the established regularly traveled roadways.

Maintaining vegetation within a 20-foot buffer along approximately 266 miles of rural San Diego County roadways would result in impacts to vegetation communities and land cover types. These impacts would be considered temporary because if left alone, the vegetation communities can return to pre-impact condition, thus providing habitat and functions and values effectively equal to the functions and values that existed before the area was impacted. Project plans do not call for ground disturbance, but instead aim to trim scrub, brush, and grass community vegetation to a height of no more than six inches and in certain cases where needed, remove it entirely. Leaving plant roots intact reduces risk of erosion. Trees would be limbed up to eliminate, or reduce, ladder fuels but will not be cut down. Project plans call for continued maintenance of combustible vegetation and the application of PHOS-CHEK® FORTIFY® along select areas of roadways following fuel reduction treatments.

The MOU with the Wildlife Agencies requires avoidance of Riparian Zone vegetation and vernal pools since they are already somewhat resistant to fire. No vernal pools were observed during any of the

field surveys; however, twelve different Riparian Zone vegetation communities were recorded during the field surveys including Southern Riparian Woodland, Southern Riparian Forest, Montane Meadow, Southern Riparian Scrub, Southern Coast Live Oak Riparian Forest, Disturbed Wetland, Mulefat Scub, Non-Native Riparian, Southern Willow Scrub, Non-Vegetated Floodplain or Channel, Southern Arroyo Willow Riparian Forest, and Southern Cottonwood-Willow Riparian Forest. These Riparian Zone vegetation communities and 50-foot buffer areas would be avoided by the project, as described in the project description, and are depicted in the attached project maps.

Special-Status Plants

Twelve special-status plant species were identified during the literature review as having potential to occur within the project Survey Areas. No special-status plant species were observed or detected during the field surveys; however, it was determined that only seven of these species have potential to occur based on the presence of suitable habitat within the Survey Area including Parish's meadowfoam, Cuyamaca Lake downingia, San Diego button celery, San Bernardino blue grass, Dehesa nolina, San Diego thorn-mint, and Nevin's barberry. Four of these species (Parish's meadowfoam, Cuyamaca Lake downingia, San Diego button celery, and San Diego thorn-mint) are typically restricted to vernal pools and/or wet meadow habitats, areas considered to be Riparian Zones or Vernal Pool Depressions by the project and will be avoided during vegetation maintenance. The remaining three species (San Bernardino blue grass, Dehesa nolina, and Nevin's barberry) are associated with upland vegetation communities that would be subject to vegetation maintenance activities. Impacts to these species as a result of activities within the scope of the project, should they occur, are authorized by the MOU and are therefore considered less-than-significant.

Special-Status Wildlife

Thirteen special-status wildlife species were identified during the literature review as having potential to occur within the project Survey Areas. Field surveys confirmed that only eight of these species have potential to occur based on suitable habitat availability within the Survey Area including arroyo toad, least Bell's vireo, coastal California gnatcatcher, Laguna Mountains skipper, Quino checkerspot butterfly, Hermes copper butterfly, southwestern willow flycatcher, and western yellow-billed cuckoo. Only one, coastal California gnatcatcher, was incidentally observed during the field surveys. Four of these species (arroyo toad, least Bell's vireo, southwestern willow flycatcher, and western yellow-billed cuckoo) are restricted to riparian habitats and the immediate surrounding areas, areas considered to be Riparian Zones or Vernal Pool Depressions by the project and will be avoided during vegetation maintenance. The remaining four species (coastal California gnatcatcher, Laguna Mountains skipper, Quino checkerspot butterfly, and Hermes copper butterfly) are associated with upland vegetation communities that would be subject to vegetation maintenance activities. Impacts to these species as a result of activities within the scope of the project, should they occur, are authorized by the MOU and are therefore considered less-than-significant.

6.0 SUMMARY

As stated in the MOU, uncontrolled wildfires pose a serious threat to human lives and property but are generally part of the natural disturbance cycle of adjacent wildlands. The project objectives are clear in that they aim to protect lives, property, and the natural environment from the increasing threat of fire while minimizing the potential of disturbance to special-status species and habitats. Properly

maintained combustible vegetation is known to reduces the incidences of non-natural fires spreading from developed areas to natural land and lowers the potential impacts of unseasonable and frequent wildfires to special-status species and their habitats. Simple vegetation maintenance practices performed at least annually may greatly reduce the risk that catastrophic wildfires pose on humans and special-status species alike. Furthermore, application of PHOS-CHEK® FORTIFY® provides a proactive and preventive wildfire management solution rather than relying on reactive suppression methods following wildfire ignition. Despite the presence, or potential presence, of special-status species within areas that would be subject to vegetation maintenance, less-than-significant impacts would occur from vegetation maintenance consistent with the MOU, which "finds that implementation of the fire control, abatement, and protection measures contemplated by [the] MOU is not likely to result in jeopardy to the continued existence of the identified State listed or candidate species, if the terms and conditions of the MOU are fully implemented and adhered to. The Department finds, further, that by preventing or limiting the spread of fire to the identified species' habitat, this MOU will serve to protect the identified species from further degradation." Therefore, consistent with the MOU, the proposed project shall comply with the Reasonable and Prudent Measures and the Terms and Conditions identified in the Biological Opinion issued by the Service for this action and no impacts not already contemplated by the MOU would occur.

7.0 SURVEYOR CERTIFICATION

This report was prepared for SDCFPD. All data, statements, analyses, findings, and attachments within this report are accurate and truthful in terms of describing the existing conditions and the project as proposed to Blackhawk Environmental and are based on best available knowledge at the time of the report. Any use which a third party makes of this report, or any reliance on or decisions made based on it, are the responsibilities of such third parties. Blackhawk Environmental accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this report.

Seth Reimers
Senior Biologist

8.0 REFERENCES

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ATTACHMENT A

Data Forms and Figures

(Due to file size, this attachment will be provided upon request)

Blackhawk Environmental

ATTACHMENT B

Representative Photographs

Blackhawk Environmental

Photograph 1. Northwest-facing view of agriculture associated with a vineyard along Corte Madera Road, amongst patches of coast live oak woodland.

Photograph 2. Northwest-facing view of a small patch of Big Sagebrush Scrub along Corte Madera Road, at the Interstate 8 overpass.

Photograph 3. Northwest-facing view of Black Oak Woodland along Engineers Road.

Photograph 4. Northwest-facing view of Chamise Chaparral along Boulder Creek road.

Photograph 5. South-facing view of Coast Live Oak Woodland along Corte Madera Road.

Photograph 6. West-facing view of Coastal Sage – Chaparral Mix habitat along Valley Center Road**.**

Photograph 7. East-facing view of Coulter Pine Forest along East Grade Road.

Photograph 8. Northeast-facing view of Diegan Coastal Sage Scrub along Dehesa Road.

Photograph 9. Southeast-facing view of Diegan Coastal Sage Scrub – Baccharis Dominated along Dehesa Road.

Photograph 10. West-facing view of Disturbed Habitat along Old Castle Road.

Photograph 11. Northwest-facing view of Disturbed Wetland along Wynola Road.

Photograph 12. Northeast-facing view of Engelmann Oak Woodland along Lawson Valley Road.

Photograph 13. Northeast-facing view of Eucalyptus Woodland along Dehesa Road.

Photograph 14. Northeast-facing view of flat-topped buckwheat scrub along Lawson Valley Road. Heavily dominated by California buckwheat with sparse deerweed and nonnative grasses.

Photograph 15. Northeast-facing view of Jeffrey Pine Forest along Corte Madera Road.

Photograph 16. Northwest-facing view of Mixed Oak Woodland along South Grade Road. Dominated by numerous oak species, including Canyon Oak, Black Oak, Coast Live Oak, and sub-dominant Engelmann Oak in patches.

Photograph 17. West-facing view of Mixed Oak/Coniferous/Bigcone/Coulter Forest along Wynola Road.

Photograph 18. Northwest-facing view of Montane Buckwheat Scrub along Boulder Creek Road.

Photograph 19. Northeast-facing view of Montane Chaparral occurring along South Grade Road.

Photograph 20. Northeast-facing view of Montane Meadow alongside Farmer Road. Dominant species outside of immediate road shoulder, such as clustered field sedge (*Carex praegracilis*) and standing water indicate a Riparian Zone.

Photograph 21. Southwest-facing view of Mulefat Scrub along Dehesa Road. This vegetation community qualifies as a Riparian Zone.

Photograph 22. Northeast-facing view of Non-Native Grassland East Grade Road.

Photograph 23. Southeast-facing view of a small patch of Non-native Riparian habitat, dominated by giant reed (*Arundo donax*) along Dehesa Road. This vegetation community qualifies as a Riparian Zone.

Photograph 24. Northwest-facing view of Non-Vegetated Floodplain or Channel along Boulder Creek Road.

Photograph 25. Southwest-facing view of Northern Mixed Chaparral along East Grade Road.

Photograph 26. South-facing view of Scrub Oak Chaparral along Old Highway 395.

Photograph 27. West-facing view of Southern Arroyo Willow Riparian Forest along Valley Center Road. This vegetation community qualifies as a Riparian Zone.

Photograph 28. Northwest-facing view of Southern Coast Live Oak Riparian Forest along Old Castle Road. This vegetation community qualifies as a Riparian Zone.

Photograph 29. North-facing view of Southern Cottonwood-Willow Riparian Forest along Old Castle Road. This vegetation community qualifies as a Riparian Zone.

Photograph 30. Southwest-facing view of Southern Mixed Chaparral along Valley Center Road.

Photograph 31. South-facing view of Southern Riparian Forest along Riverside Drive associated with the Sweetwater River. This vegetation community qualifies as a Riparian Zone.

Photograph 32. Southeast-facing view of Southern Riparian Scrub along the Riverside Drive bridge crossing over Sweetwater River. This vegetation community qualifies as a Riparian Zone.

Photograph 33. Northeast-facing view of Southern Riparian Woodland along Portrero Valley Road. This vegetation community qualifies as a Riparian Zone.

Photograph 34. North-facing view of Southern Willow Scrub along Valley Center Road. This vegetation community qualifies as a Riparian Zone.

Photograph 35. Northeast-facing view of Urban/Developed along Portrero Valley Road.

Photographs 36. Northwest-facing view of Wildflower Field along Engineers Road.

Attachment C

Memorandum of Understanding

MEMORANDUM OF UNDERSTANDING
BETWEEN
THE FISH AND WILDLIFE SERVICE OF
THE UNITED STATES DEPARTMENT OF THE INTERIOR,
THE CALIFORNIA DEPARTMENT OF FISH AND GAME,
THE CALIFORNIA DEPARTMENT OF FORESTRY,
THE SAN DIEGO COUNTY FIRE CHIEF'S ASSOCIATION AND
THE FIRE DISTRICT'S ASSOCIATION OF SAN DIEGO COUNTY

A. INTRODUCTION

Many species of plants and wildlife in the County of San Diego have been listed and continue to be listed as threatened or endangered by the Secretary of the Interior pursuant to the federal Endangered Species Act and by the California Fish and Game Commission pursuant to the California Endangered Species Act. Additionally, many listed and species that may be listed in the future are protected in certain areas by agreements among jurisdictions and the wildlife agencies, pursuant to the state of California's Natural Communities Conservation Planning (NCCP) program. In light of these listings, officials of the California Department of Forestry, and the members of the San Diego County Fire Chief's Association and the Fire Districts Association of San Diego County have expressed concerns regarding their ability to continue to require the abatement of flammable vegetation within their respective jurisdictions in order to protect life, property and the environment from the threat of fire.

B. AUTHORITIES

This Memorandum of Understanding is hereby made and entered into by and between the California Department of Forestry, hereinafter referred to as "CDF"; the San Diego County Fire Chief's Association, hereinafter referred to as the "Fire Chiefs"; the Fire District Association of San Diego County, hereinafter referred to as the "Districts"; the Fish and Wildlife Service of the United States Department of the Interior, hereinafter referred to as the "Service"; and the California Department of Fish and Game, hereinafter referred to as "Department" under the authority of the Endangered Species Act of 1973, as amended (16 U.S.C. Section 1531 et. seq.) the Fish and Game Code Section 702 and the California Endangered Species Act, as amended (Fish and Game Code Section 2050, et. seq.).

C. PURPOSE

The purpose of this Memorandum of Understanding is to establish guidelines by which the CDF, Fire Chiefs and the Districts can continue to protect lives and property from the threat of fire by requiring the abatement of flammable vegetation pursuant to State Law, County and District ordinances and Cities' municipal codes and to establish a cooperative mechanism whereby the Service and Department may assess, minimize, and help account for potential adverse impacts to sensitive species and habitats resulting from vegetation abatement activities.

D. RECITALS

1. Fire Districts are responsible for assuring compliance with applicable provisions of their ordinances, the California Health and Safety Code and the California Public Resources Code sections 4290 & 4291 regarding the abatement of flammable vegetation.
2. Fire Departments of the Cities are responsible for assuring compliance with the Government Code and applicable provisions of their municipal codes regarding the abatement of flammable vegetation.
3. CDF is responsible for assuring compliance with applicable provisions of the California Public Resources Code sections 4290 & 4291 regarding the abatement of flammable vegetation.
4. The Service is responsible for enforcing the federal Endangered Species Act of 1973.
5. The Department is responsible for enforcing the California Endangered Species Act, and the Native Plant Protection Act. The Service and Department together administer the state NCCP program (NCCP Act of 1991.)
6. Areas immediately surrounding improvements to real property, whether such areas are undeveloped wildlands or are altered in some way, do not generally constitute core natural habitat areas, nor do they typically support sensitive species, by virtue of their proximity to human activities.
7. Uncontrolled wildfires pose a serious threat to human lives and property, but are generally part of the natural disturbance cycle of adjacent wildlands. The propensity of wildlands to carry fire to human developments usually necessitate the provision of fuel breaks in order to reduce or eliminate the likelihood of damage to property.
8. Properly maintained fuel modification zones and fire breaks will reduce the incidence of non-Natural fires spreading from developed areas to natural land and lower the potential impacts of unseasonable and frequent wildfires to listed species and their habitats."

NOW THEREFORE, the parties hereto mutually agree as follows:

Section I. General Terms and Conditions:

This MOU authorizes the take of species listed as threatened or endangered, or candidate species (under Chapter 1.5 of Division 3 of the Fish and Game Code) for management purposes necessitated by or incidental to those certain fire protection measures described herein.

The management purposes for which this MOU is issued are:

1. Mandatory fire protection measures in accordance with Section 4290 of the Public Resources Code, specifically:

(a) Measures necessary to implement minimum fire safety standards related to defensible space which are applicable to state responsibility are lands under the authority of CDF.

(b) Measures necessary to implement minimum safety standards related to fuel breaks and greenbelts.

(c) Other measures required by Section 4290 as determined by the Director of CDF.

2. Mandatory fire protection measures in accordance with Section 4291 of the Public Resource Code, specifically:

   (a) The maintenance around and adjacent to any building or structure in, upon, or adjoining any mountainous area or forest-covered lands, brush-covered lands, or grass-covered lands, or any land which is covered with flammable material, of a fire break made by removing and clearing away, for a distance of not less than 30 feet on each side of such building or structure or to the property line, whichever is nearer, all flammable vegetation or combustible growth.

   (b) The maintenance around and adjacent to any building or structure such as is described in (a) above, additional fire protection or fire break made by removing all brush, flammable vegetation, or combustible growth which is located from 30 feet to 100 feet from such a building or structure or to the property line, whichever is nearer, as may be required by the Director of Forestry and Fire Prevention upon a finding that, because of extra hazardous conditions, a firebreak of only 30 feet around such building or structure is not sufficient to provide reasonable fire safety, and including the maintenance of grass and other vegetation more than 30 feet from such building or structure and less than 18 inches in height where necessary to stabilize the soil and prevent erosion.

3. Mandatory fire protection measures in accordance with Section 4296.5 of Public Resource Code, specifically, upon order of the Director of Forestry and Fire Protection or the agency having primary responsibility for the fire protection of the area, the destruction, removal, or modification so as not to be flammable, of any vegetation or other flammable material on any railroad right-of-way on forest-covered, brush-covered, or grass-covered land.

4. Any measures as deemed necessary by the Fire Chief and in accordance with the Guideline section of this MOU.

Section II. GUIDELINE

The following guidelines may be implemented by individuals or entities owning or leasing property within the jurisdiction of the County and the Cities as well as by CDF, Fire Districts, and the Cities:

a. **Improved Property**. Property owners, their lessees, CDF, fire districts, and cities shall be permitted to clear all flammable vegetation within a one hundred (100) foot radius of all structures[1] using methods, such as mowing and trimming that leave the plant root structure intact to stabilize the soil. Clearing is not limited to these methods and discing, which exposes bare mineral soil, may be used if deemed necessary by the local fire chief. Where the distance from the structure to the property line of the parcel on which the structure is located is less than the distance required to be cleared, the adjacent owner, lessee, CDF, fire districts, or cities shall be permitted to establish the required fuel break. The removal of flammable vegetation does not apply to single specimens of trees, ornamental shrubbery, or similar plants which are used as ground cover, if the Chief of the local fire department determines that they do not form a means of rapidly transmitting fire from the native growth to any structures.

b. **Unimproved Property**. Property owners, their lessees, fire districts and cities shall be permitted to establish fuel breaks on unimproved property if such a fire break is deemed necessary based on written findings by the Chief of the local fire department to protect improved property, or public safety and welfare. The Chief of the local fire department shall deem such a fuel break necessary only if the subject property is located within an unusually high fuel loading area or within a high or very high hazard area as determined by California Department of Forestry Fire Severity Mapping. These findings shall be provided to the Department and Service upon their adoption by the Chief of the Fire Department at least ten (10) days prior to the issuance of abatement orders. If the Department of Service fail to respond within the ten-day period, the party may complete the abatement and not be in violation of this MOU. Clearing may be done using methods, such as mowing and trimming that leave the plant root structure intact to stabilize the soil. Clearing is not limited to these methods and discing, which exposes bare mineral soil, may be used if deemed necessary by the local fire chief.

c. **Areas previously cleared**. Areas that have been consistently cleared of vegetation over the last three years may continue to be cleared even though they are outside of the limits established in Sections a. and b. above.

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[1]For the purposes of this MOU, the term "structure" does not include fences or similar barriers enclosing or separating areas of land.

d. **Roadway clearance.** Property owners, their lessees, fire districts, the County of San Diego, Cal Trans and cities shall be permitted to clear up to 30' along each side of established regularly traveled roadways. The required width will be at the discretion of the fire chief.

e. **Prior or Future Agreements.** The terms and guidelines in this MOU may be superseded by any other specific agreement entered into with the Service or the Department governing the removal of vegetation. This MOU shall not preclude revision of the flammable vegetation abatement guidelines contained herein when future regional and local conservation plans are adopted by the local jurisdictions.

f. **Federal Lands.** Land owned or controlled by Federal Multiple Use Land Management Agencies, will be handled on a "case by case" basis, with the federal agency that controls the subject lands to determine what clearing is appropriate.

g. Property owners, their lessees, fire districts, and cities shall continue to avoid vegetation removal in recognizable riparian (stream side) zones and vernal pool depressions, as these areas are naturally somewhat resistant to fire and are subject to separate federal and state regulations. If such removal is deemed necessary by the local fire chief, the Department and Service must be notified in writing and consulted at least ten (10) days prior to anticipated vegetation abatement. If the Department and Service fail to respond within the ten-day period, the party may complete the abatement and not be in violation of this MOU.

Section III NOTIFICATION OF LANDOWNERS

Fire agencies that require abatement of flammable vegetation clearance shall develop guidelines for this clearance. These guidelines shall be made available to the public, either through direct mail or a public notices, stating that the guidelines are available and the location where they can be obtained. The guidelines must include directions as to the minimum and maximum limits for vegetation clearing and acceptable clearing methods. Additionally, the following statement shall be included in the guidelines:

> Landowners who have received notice from the California Department of Fish and Game or U.S. Fish and Wildlife Service of the occurrence of rare, threatened, or endangered species on their property in areas subject to fuel break clearance must notify both agencies in writing at least 10 days prior to vegetation clearing. The agencies will have up to 10 days following such notification to (1) determine whether the proposed clearing complies with State and/or Federal endangered species requirements and (2) to suggest voluntary, alternative abatement measures if feasible and warranted. Failure of the agencies to respond within 10 days will allow the landowner to proceed with abatement

activities without further delay. Failure by landowners to provide adequate notification as described above may render landowners liable under State and Federal law.

Section IV. BIOLOGICAL SURVEYS

Property owners, their lessees, CDF, fire districts and cities shall not be required to perform biological surveys as a condition precedent to performance of the fire protection activities established by the guidelines set forth in Section 1.

Section V. PROJECT OFFICERS

a. Project Officer for the CDF is:

Ken. Miller, Ranger in Charge
California Department of Forestry
2249 Jamacha Rd.
El Cajon, California 92019

b. Project Officer for the Fire Chiefs is:

Erwin L. Willis, Fire Chief
Rancho Santa Fe Fire Protection District
P.O. Box 410
Rancho Santa Fe, CA 92067

c. Project Officer for the Districts is:

Ralph Steinhoff
North County Fire Protection District
315 East Ivy Street
Fallbrook, CA 92028

d. Project Officer for Service is:

Gail Kobetich, Field Supervisor
U.S. Fish and Wildlife Service, Carlsbad Field Office
2730 Loker Avenue West
Carlsbad, California 92008

e. Project Officer for the Department is:

Jacqueline Schafer, Director
Department of Fish and Game
1416 9th Street
Sacramento, California 95814

Section VI. SPECIAL TERMS AND CONDITIONS

The CDF, fire districts, cities, the Service and the Department shall comply with the Reasonable and Prudent Measures and the Terms and Conditions identified in Biological Opinion issued by the Service for this action. Take of listed species that is deliberate and results from an act outside the scope of the Project as defined in Section I is not authorized.

It is understood by the parties that the Service authorizes incidental take of the following federally listed threatened and endangered species: arroyo toad (Bufo microscaphys californicus), coastal California gnatcatcher (Polioptila californica), and Stephen's Kangaroo Rat (Dipodomys stephensi), which may be impacted by the fire protection activities established by the guidelines set forth in Section I. Furthermore, it is understood by the parties that the Department authorizes the take of species listed as threatened species or endangered species, or candidate species (under Chapter 1.5 of Division 3 of the Fish and Game Code) which may be impacted by the fire protection activities established by the guidelines set forth in Section I.

Any person who becomes aware of the take of an individual of a candidate or listed species as a result of that person's engaging in the permitted activity shall report the take to the Department as soon as practicable and shall make available the remains of any animal or plant taken to the Department of fish and Game upon demand.

Section VII. FINDINGS

1. Department Findings:
Pursuant to fish and Game Code Section 2081, the Department finds that implementation of the fire control, abatement, and protection measures contemplated by this MOU is not likely to result in jeopardy to the continued existence of the identified State listed or candidate species, if the terms and conditions of the MOU are fully implemented and adhered to. The Department finds, further, that by preventing or limiting the spread of fire to the identified species' habitat, this MOU will serve to protect the identified species from further degradation.

Section VIII. AMENDMENTS

Amendments to this MOU may be proposed by any of the parties and shall become effective upon being reduced to a written instrument executed by all of the parties. It is anticipated and understood by the parties that this MOU, specifically the arroyo toad (Bufo microscaphys californicus), coastal California gnatcatcher (Polioptila californica), and Stephen's Kangaroo Rat (Dipodomys stephensi), may be amended to include additional species that in the future are listed as threatened or endangered by the Secretary of the Interior or the California Fish and Game Commission. In addition, it is understood that this MOU may be amended to include additional parties.

Section IX. TERM OF AGREEMENT

This MOU shall become effective upon the date it is executed by the parties (execution date) and shall remain in effect for an initial period of one (1) year. Thereafter, this MOU shall be automatically extended from year to year on the aforementioned execution date unless the Service or the Department objects to the extension, in writing, within thirty (30) days prior to the expiration of this MOU. Any written objection must state the reason for the objection to the extension of this MOU. In the event a written objection is provided, the parties shall work cooperatively to resolve any problems so that the MOU may be extended.

IN WITNESS WHEREOF, each party hereto has caused this MOU to be executed by an authorized official on the day and year set forth opposite his or her signature.

U.S. FISH AND WILDLIFE SERVICE

By: Gail C. Kobetich Date: 2·26·97

Title: Gail Kobetich, Field Supervisor

SERVICE CONTRACT SUFFICIENCY REVIEW

By: _____ Date: _____

Title: _____

CALIFORNIA DEPARTMENT OF FISH AND GAME

By: _____ Date: 2/26/97

Title: Jacqueline Schafer, Director

CALIFORNIA DEPARTMENT OF FORESTRY, SAN DIEGO RANGER UNIT

BY: Stephen C. Davis Date: 2-26-97

Title: Ken Miller, Ranger in Charge

SAN DIEGO COUNTY FIRE CHIEF'S ASSOCIATION

By: E. L. Willis Date: 2-26-97

Title: Erwin L. Willis, President

FIRE DISTRICT'S ASSOCIATION OF SAN DIEGO COUNTY

By: Wayne Strange Date: 2/26/97

Title: Wayne Strange, President

Appendix B

Construction Emissions

Emissions Analysis Summary

Construction

Total Daily Emissions	ROG	CO	NOx	PM10	PM2.5	CO2	CH4	CO2e
Source	*lb/day*	*lb/day*	*lb/day*	*lb/day*	*lb/day*	g/day	g/day	g/day
Vegetation Removal Emissions	12.3088	48.4497	5.6241	0.3449	0.3267	549,458	382.23	559,014
Worker Trips	0.1301	0.9074	0.0943	0.0036	0.0022	134,426	5.57	4.20
TOTAL	**12.4389**	**49.3571**	**5.7184**	**0.3485**	**0.3289**	**683,884**	**387.80**	**559,018**
County of San Diego Thresholds [1]	75	550	250	100	55	[2]		
Exceeds Threhsolds?	No	No	No	No	No			

Total Annual Emissions	ROG	CO	NOx	PM10	PM2.5	CO2	CH4	CO2e
Source	*tons/year*	*tons/year*	*tons/year*	*tons/year*	*tons/year*	MT/year	MT/year	MT/year
Vegetation Removal Emissions	0.8206	3.2300	0.3749	0.0230	0.0218	73.2610	0.0510	74.5351
Worker Trips	0.0087	0.0605	0.0063	0.0002	0.0001	17.9235	0.0007	0.0006
TOTAL	**0.8293**	**3.2905**	**0.3812**	**0.0232**	**0.0219**	**91**	**0.05**	**75**
County of San Diego Thresholds [1]	14	100	40	15	10	[2]		
Exceeds Threhsolds?	No	No	No	No	No			

Operations*

Total Daily Emissions	ROG	CO	NOx	PM10	PM2.5	CO2	CH4	CO2e
Source	*lb/day*	*lb/day*	*lb/day*	*lb/day*	*lb/day*	g/day	g/day	g/day
Vegetation Removal Emissions	12.3088	48.4497	5.6241	0.3449	0.3267	549,457.8209	382.2293	559,013.5543
Worker Trips	0.1301	0.9074	0.0943	0.0036	0.0022	134,426.0868	5.5658	4.1962
TOTAL	**12.4389**	**49.3571**	**5.7184**	**0.3485**	**0.3289**	**683,884**	**387.80**	**559,018**
County of San Diego Thresholds [1]	75	550	250	100	55	[2]		
Exceeds Threhsolds?	No	No	No	No	No			

Total Annual Emissions	ROG	CO	NOx	PM10	PM2.5	CO2	CH4	CO2e
Source	*tons/year*	*tons/year*	*tons/year*	*tons/year*	*tons/year*	MT/year	MT/year	MT/year
Vegetation Removal Emissions	0.8206	3.2300	0.3749	0.0230	0.0218	73.2610	0.0510	74.5351
Worker Trips	0.0087	0.0605	0.0063	0.0002	0.0001	17.9235	0.0007	0.0006
TOTAL	**0.8293**	**3.2905**	**0.3812**	**0.0232**	**0.0219**	**91**	**0.05**	**75**
County of San Diego Thresholds [1]	14	100	40	15	10	[2]		
Exceeds Threhsolds?	No	No	No	No	No			

*Conservatively assumes that activity will be similar to construction activity and only occur once per year.

[1] (SDAPCD does not have AQ or GHG CEQA thresholds) County of San Diego. 2007. COUNTY OF SAN DIEGO GUIDELINES FOR DETERMINING SIGNIFICANCE AND REPORT FORMAT AND CONTENT REQUIREMENTS. AIR QUALITY. Available: https://www.sandiegocounty.gov/content/dam/sdc/pds/ProjectPlanning/docs/AQ-Guidelines.pdf. Accessed January 29, 2022.

[2] There are no applicable thresholds. [Pending discussion]

Worker Trip Exhaust Emissions

Commute Trips by Workers on Field Crew

	value	units	source
Number of workers on crew			
Number of crews	2	crews/day	assumption
Workers per crew	6	workers/day	assumption (1 masticator operator, 1 water operator, 4 traffic management and roadway safety personnel)
Trip rate for crew workers	2	trips/day	assumption
Avg. worker commute trip length (1-way)	16.8	miles/trip	default worker trip length in construction module of CalEEMod

Daily VMT by crew workers per crew

Average daily	403	VMT/day	calculation

Mix of passenger vehicles used in employee commutes

breakdown of passenger car VMT in Tuolomne County (EMFAC 2021 Average Distributions)

	value	units	source
light duty autos - gasoline	46,651,922	VMT/day	wksht: On-Rd Veh Emiss Rates
light duty autos - diesel	205,722	VMT/day	wksht: On-Rd Veh Emiss Rates
light duty autos - electricity	2,097,108	VMT/day	wksht: On-Rd Veh Emiss Rates
light duty autos - plug in hybrid	1,248,834	VMT/day	wksht: On-Rd Veh Emiss Rates
light duty trucks 1 - gasoline	4,651,323	VMT/day	wksht: On-Rd Veh Emiss Rates
light duty trucks 1 - diesel	1,118	VMT/day	wksht: On-Rd Veh Emiss Rates
light duty trucks 1 - electricity	6,614	VMT/day	wksht: On-Rd Veh Emiss Rates
light duty trucks 1 - plug in hybrid	2,525	VMT/day	wksht: On-Rd Veh Emiss Rates
light duty trucks 2 - gasoline	21,817,861	VMT/day	wksht: On-Rd Veh Emiss Rates
light duty trucks 2 - diesel	82,882	VMT/day	wksht: On-Rd Veh Emiss Rates
light duty trucks 2 - electricity	46,669	VMT/day	wksht: On-Rd Veh Emiss Rates
light duty trucks 2 - plug in hybrid	121,164	VMT/day	wksht: On-Rd Veh Emiss Rates
Total, all passenger vehicle types	76,933,741	VMT/day	summation

relative portion of passenger car VMT by veh type	value	units	source
light duty autos - gasoline	60.6%	%	calculation
light duty autos - diesel	0.3%	%	calculation
light duty autos - electricity	2.7%	%	calculation
light duty autos - plug in hybrid	1.6%	%	calculation
light duty trucks 1 - gasoline	6.0%	%	calculation
light duty trucks 1 - diesel	0.0%	%	calculation
light duty trucks 1 - electricity	0.0%	%	calculation
light duty trucks 1 - plug in hybrid	0.0%	%	calculation
light duty trucks 2 - gasoline	28.4%	%	calculation
light duty trucks 2 - diesel	0.1%	%	calculation
light duty trucks 2 - electricity	0.1%	%	calculation
light duty trucks 2 - plug in hybrid	0.2%	%	calculation

Total, all passenger vehicle types	100.0%	%	summation

Biomass Field Worker Trip Exhaust Emissions

Emission Rates (running exhaust, running loss, brake wear, tire wear)

	ROG	CO	NOX	PM10	PM2.5	CO2	CH4	N2O	units	source
light duty autos - gasoline	2.97E-04	2.03E-03	1.82E-04	8.55E-06	5.34E-06	7.01E-01	2.77E-05	2.04E-05	lb/mile	wksht: On-Rd Veh Emiss Rates
light duty autos - diesel	8.67E-05	1.15E-03	4.73E-04	4.60E-05	4.10E-05	5.68E-01	4.03E-06	8.95E-05	lb/mile	wksht: On-Rd Veh Emiss Rates
light duty autos - electricity	0.00E+00	0.00E+00	0.00E+00	3.02E-06	8.62E-07	0.00E+00	0.00E+00	0.00E+00	lb/mile	wksht: On-Rd Veh Emiss Rates
light duty autos - plug in hybrid	7.27E-05	6.23E-04	3.01E-05	4.95E-06	3.10E-06	3.60E-01	9.31E-06	5.53E-06	lb/mile	wksht: On-Rd Veh Emiss Rates
light duty trucks 1 - gasoline	8.11E-04	5.00E-03	5.85E-04	1.26E-05	8.50E-06	8.45E-01	6.40E-05	4.24E-05	lb/mile	wksht: On-Rd Veh Emiss Rates
light duty trucks 1 - diesel	7.62E-04	4.18E-03	3.48E-03	6.35E-04	6.03E-04	9.97E-01	3.54E-05	1.57E-04	lb/mile	wksht: On-Rd Veh Emiss Rates
light duty trucks 1 - electricity	0.00E+00	0.00E+00	0.00E+00	3.42E-06	9.75E-07	0.00E+00	0.00E+00	0.00E+00	lb/mile	wksht: On-Rd Veh Emiss Rates
light duty trucks 1 - plug in hybrid	5.51E-05	5.74E-04	2.77E-05	3.70E-06	2.06E-06	3.33E-01	8.57E-06	5.09E-06	lb/mile	wksht: On-Rd Veh Emiss Rates
light duty trucks 2 - gasoline	3.25E-04	2.47E-03	3.05E-04	9.03E-06	5.57E-06	8.82E-01	3.38E-05	2.66E-05	lb/mile	wksht: On-Rd Veh Emiss Rates
light duty trucks 2 - diesel	6.17E-05	5.82E-04	1.39E-04	1.93E-05	1.57E-05	7.77E-01	2.86E-06	1.22E-04	lb/mile	wksht: On-Rd Veh Emiss Rates
light duty trucks 2 - electricity	0.00E+00	0.00E+00	0.00E+00	3.69E-06	1.05E-06	0.00E+00	0.00E+00	0.00E+00	lb/mile	wksht: On-Rd Veh Emiss Rates
light duty trucks 2 - plug in hybrid	5.91E-05	5.94E-04	2.86E-05	4.28E-06	2.56E-06	3.46E-01	8.84E-06	5.26E-06	lb/mile	wksht: On-Rd Veh Emiss Rates
Composite emiss rates - all pass vehicles	**3.23E-04**	**2.25E-03**	**2.34E-04**	**8.83E-06**	**5.54E-06**	**7.35E-01**	**3.04E-05**	**2.29E-05**	**lb/mile**	**Sumproduct calculation**

Worker Commute Emissions (exhaust, loss, wear, fugitives)

	ROG	CO	NOX	PM10	PM2.5	CO2	CH4	N2O	CO2e
	lb/day	*lb/day*	*lb/day*	*lb/day*	*lb/day*	g/day	g/day	g/day	g/day
Total Daily (lb/day)	**0.130**	**0.907**	**0.094**	**0.004**	**0.002**	**134,426**	**5.566**	**4.196**	**135,816**
	tons/year	*tons/year*	*tons/year*	*tons/year*	*tons/year*	MT/year	MT/year	MT/year	MT/year
Total Annual (tons/year)	**0.009**	**0.060**	**0.006**	**0.000**	**0.000**	**17.923**	**0.001**	**0.001**	**18.109**

Source: calculations

	value	units
mass conversion rate	1000000	g/MT
mass conversion rate	2,000	lb/ton

Construction Duration Calculation

Total Vegation Removal Area Calculation

Metric	Units	Value	Source
Total roadway length requiring vegetation removal	mi	200	Project Description
Total roadway length requiring vegetation removal	ft	1,056,000	calculated
Buffer Width	ft	20	Project Description
Buffer Area	ft2	21,120,000	calculated
Buffer Area	acres	485	calculated

Daily Vegetation Removal Area Calculation

Metric	Units	Low	High	Source
Roadway length that where vegetation can be removed in a day	mi	1.5	2	Project Description
Total roadway length requiring vegetation removal	ft	7,920	10,560	calculated
Buffer Width	ft	20	20	Project Description
Buffer Area	ft2	158,400	211,200	calculated
Buffer Area	acres	3.6	4.8	calculated

Construction Schedule Assumptions		High	Low	
Estimated days of Construction		133.3	100.0	calculated
Days per Week		5.0	5.0	Project Description
Weeks per month		4.3	4.3	52 weeks divided by 12
Months per year		6.2	4.6	calculated

Vegetation Removal Activities

Representative Equipment List

Equipment Type	Comparable Equipment Type in OFFROAD2017 -ORION	Load Factor	Source/ Notes
John Deer 6110M Tractor (122 hp) (Diesel)	Agricultural - Agricultural Tractors	0.37	See Notes 1, 2
New Holland TV6070 Tractor (155 hp) (Diesel)	Agricultural - Agricultural Tractors	0.37	See Notes 1, 2
Water Tender (240 hp) (Diesel)	Construction and Mining - Off-Highway Trucks	0.38	See Notes 1, 2
Leaf Blower (10 hp) (Gas)	Lawn and Garden - Misc - Leaf Blowers/Vacuums	0.94	See Note 3
Chain Saw (10 hp) (Gas)	Lawn and Garden - Misc - Chainsaws	0.7	See Note 3

Notes

1 The Comparable Equipment Type in OFFROAD2017 -ORION identifies how the equipment type is listed in CARB's web-based OFFROAD2017-ORION model. Engine size based on equipment description in project description and available equipment in the market. These equipment categories are used in CalEEMod (See Note 2).

2 The load factors are based on assumptions in Table 3.3 of Appendix D of the CalEEMod User's Guide.

3 Load factors based on EPA's National Emissions from Lawn and Garden Equipment report. CalEEMod does not report load factors for these lawn and garden equipment. https://www.epa.gov/sites/default/files/2015-09/documents/banks.pdf

Sources

1 California Air Resources Board. 2017. OFFROAD2017-ORION. Available at https://www.arb.ca.gov/orion/. Accessed January 14,

2 CalEEMod 2020 User's Guide. Available: http://www.aqmd.gov/caleemod/user's-guide

3 EPA's National Emissions from Lawn and Garden Equipment report. https://www.epa.gov/sites/default/files/2015-09/documents/banks.pdf

Off-road Equipment Emission Rates

	Equipment Type	HP Bin	ROG	CO	NOx	PM10	PM2.5	CO2
			lb/hp-hr					
[1]	John Deer 6110M Tractor (122 hp) (Diesel)	175	0.0004	0.0034	0.0040	0.0002	0.0002	0.5668
[1]	New Holland TV6070 Tractor (155 hp) (Diesel)	175	0.0004	0.0034	0.0040	0.0002	0.0002	0.5668
[1]	Water Tender (240 hp) (Diesel)	300	0.0002	0.0011	0.0014	0.0001	0.0001	0.4425
[2]	Leaf Blower (10 hp) (Gas)	15	0.0261	1.0558	0.0064	0.0041	0.0041	1.8933
[2]	Chain Saw (10 hp) (Gas)	15	1.5984	3.4610	0.0307	0.0057	0.0057	9.3255

Source: [1] OFFROAD 2017, [2] CalEEMod 2020 Appendix D Table 7.2. Note that N2O Emission factors were not available from either source and are assumed to be neglibile.

Equipment Type	HP	ROG	CO	NOx	PM10	PM2.5	CO2
		lb/hr					
John Deer 6110M Tractor (122 hp) (Diesel)	122	0.0540	0.4119	0.4862	0.0220	0.0202	69.1555
New Holland TV6070 Tractor (155 hp) (Diesel)	155	0.0687	0.5233	0.6177	0.0279	0.0257	87.8615
Water Tender (240 hp) (Diesel)	240	0.0438	0.2642	0.3324	0.0131	0.0121	106.2013
Leaf Blower (10 hp) (Gas)	10	0.2608	10.5578	0.0644	0.0411	0.0411	18.9331
Chain Saw (10 hp) (Gas)	5	7.9921	17.3050	0.1533	0.0286	0.0286	46.6276

Source: Calculated

Off-road Equipment Emissions

	Number of Equipment	Hours per day	ROG	CO	NOx	PM10	PM2.5
			lb/day	*lb/day*	*lb/day*	*lb/day*	*lb/day*
John Deer 6110M Tractor (122 hp) (Diesel)	1	8	0.16	1.22	1.44	0.07	0.06
New Holland TV6070 Tractor (155 hp) (Diesel)	1	8	0.20	1.55	1.83	0.08	0.08
Water Tender (240 hp) (Diesel)	2	8	0.27	1.61	2.02	0.08	0.07
Leaf Blower (10 hp) (Gas)	2	1	0.49	19.85	0.12	0.08	0.08
Chain Saw (10 hp) (Gas)	2	1	11.19	24.23	0.21	0.04	0.04
		Total Daily	**12.31**	**48.45**	**5.62**	**0.34**	**0.33**

	Number of Equipment	Days per Year (high)	ROG	CO	NOx	PM10	PM2.5
			tons/year	*tons/year*	*tons/year*	*tons/year*	*tons/year*
John Deer 6110M Tractor (122 hp) (Diesel)	1	133	0.0107	0.0813	0.0959	0.0043	0.0040
New Holland TV6070 Tractor (155 hp) (Diesel)	1	133	0.0135	0.1033	0.1219	0.0055	0.0051
Water Tender (240 hp) (Diesel)	2	133	0.0178	0.1071	0.1347	0.0053	0.0049
Leaf Blower (10 hp) (Gas)	2	133	0.0327	1.3232	0.0081	0.0051	0.0051
Chain Saw (10 hp) (Gas)	2	133	0.7459	1.6151	0.0143	0.0027	0.0027
		Total Annual	**0.8206**	**3.2300**	**0.3749**	**0.0230**	**0.0218**

Global Warming Potential (rates)

	CO_2	CH_4	N_2O	units
global warming potent	1	25	298	unitless

Source: Intergovernmental Panel on Climate Change. *Climate Change 2007—The Physical Science Basis* . Working Group I Contribution to the Fourth Assessment https://www.ipcc.ch/report/ar4/wg1/

Source: Table B-1—Global Warming Potential Factors for Required Greenhouse Gases (100-YearTime Horizon) from 40 CFR 98 (page 722-723), as required by ARB's Regulation for the Mandatory Reporting of GHGs. Available: http://www.theclimateregistry.org/wp-content/uploads/2014/11/2014.06.30_GRP_2.0_Updates_and_Clarifications1.pdf

Running Exhaust Emission Rates for On-Road Vehicles

Source: These emission rates were provided by the California Air Resources Board's Mobile Source Emissions Inventory (EMFAC2014) which is available at http://www.arb.ca.gov/emfac/2014/
It is assumed that emission rates for vehicles in the portion of Tuolomne County that is also part of the Lake Tahoe Air Basin are also representative of emission rates in other mountainous areas of Tuolomne County and Nevada County.

Source: EMFAC2021 (v1.0.1) Emission Rates
Region Type: County
Region: San Diego
Calendar Year: 2022
Season: Annual
Vehicle Classification: EMFAC2011 Categories
Units: miles/year for CVMT and EVMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/vehicle/day for IDLEX and DIURN. PHEV calculated based on total VMT.

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Population	Total VMT	CVMT	EVMT	Trips	NOx_RUNEX	NOx_IDLEX	NOx_STREX	PM2.5_RUNE	PM2.5_IDLEX	PM2.5_STREX	PM2.5_PMTW	PM2.5_PMBW	PM10_RUNEX	PM10_IDLEX	PM10_STREX	PM10_PMTW	PM10_PMBW	CO2_RUN	CO2_IDLE	CO2_STRE	CH4_RUN	CH4_IDLE	CH4_STRE	N2O_RUN	N2O_IDLE	N2O_STREX	ROG_RUNEX	ROG_IDLEX	ROG_STREX	ROG_HOTSOAK	ROG_RUNLOSS	ROG_DIURN	TOG_RUN	TOG_IDLE	TOG_STRE	TOG_HOT	TOG_RUN	TOG_DIUR	NH3_RUNEX	CO_RUNE	CO_IDLEX	CO_STREX	SOx_RUNI	SOx_IDLE	SOx_STREX	ROG	CO	NOX	PM10	PM2.5	CO2	CH4	n2o
San Diego	2022	LDA	Aggregate	Aggregate	Gasoline	1200745.49	4665192L79	4665192L8	0	5588598.82	0.04953037	0	0.273045932	0.001642498	0	0.002066037	0.002000056	0.00263147	0.0017673	0	0.002226901	0.003800063	0.00738	309.156	0	72.7096	0.00344	0	0.07613	0.00517	0	0.034045567	0.013442669	0	0.355971404	0.096824823	2.238108486	1.499635134	0.01961	0	0.38974	0.09642	0.23811	1.49064	0.032752262	0.83424	0	3.40899	0.00306	0	0.00072	0.0003	0.002032962	0.000518	8.6E-06	5.13811E-06	0.70077	2.76823E-05	3E-05
San Diego	2022	LDA	Aggregate	Aggregate	Diesel	6495.422	205721.6287	205721.629	0	28048.708	0.213091909	0	0	0.017957658	0	0	0.002000056	0.002614139	0.003475854	0	0	0.003800063	0.00747	257.685	0	0	0.00183	0	0	0.04606	0	0	0.028301158	0	0	0	0	0	0.04476	0	0	0	0	0	0.0031	0.52203	0	0	0.00244	0	0	8.75E-05	0.001152888	0.000477	4.6E-05	4.09757E-05	0.5681	4.02536E-06	9E-05
San Diego	2022	LDA	Aggregate	Aggregate	Electricity	46339.9103	2097508.011	0	2097508.01	232269.782	0	0	0	0	0	0	0.002000001	0.005528559	0	0	0	0.003800002	0.00437	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
San Diego	2022	LDA	Aggregate	Aggregate	Plug-in Hybri	26391.5953	1248833.575	648725.107	600108.468	109129.247	0.003749362	0	0.112850708	0.000991486	0	0.002236742	0.002000001	0.001341372	0.000999717	0	0.002432642	0.003800002	0.00383	157.442	0	67.0273	0.00062	0	0.06121	0.00069	0	0.020769157	0.001947071	0	0.165829216	0.040816646	0.035276144	0.468409149	0.00284	0	0.18156	0.04582	0.03528	0.46841	0.019663375	0.25565	0	1.27064	0.00156	0	0.000664	7.3E-05	0.000622328	3E-05	4.9E-06	3.1964E-06	0.36001	9.30976E-06	1.5E-06
San Diego	2022	LDT1	Aggregate	Aggregate	Gasoline	138289.527	4651323.272	4651323.27	0	604313.852	0.200126614	0	0.484751808	0.002274364	0	0.003320329	0.002000056	0.003251348	0.002998278	0	0.003616795	0.003800063	0.00939	371.075	0	92.7447	0.01188	0	0.13211	0.01359	0	0.043391142	0.054273683	0	0.712053433	0.222357702	0.657259659	3.591617411	0.07915	0	0.77993	0.22236	0.66726	3.59142	0.035940014	2.06607	0	6.73324	0.00367	0	0.00092	0.00881	0.004994625	0.00059	1.3E-05	8.10093E-06	0.84664	6.40388E-05	4.2E-05
San Diego	2022	LDT1	Aggregate	Aggregate	Diesel	74.4106335	1118.115896	1118.1159	0	221.523102	1.153236645	0	0	0.27224	0	0	0.002000056	0.00363596	0.284545848	0	0	0.003800063	0.01016	452.029	0	0	0.01604	0	0	0.07122	0	0	0.345419096	0	0	0	0	0	0.39324	0	0	0	0	0	0.0031	1.89866	0	0	0.00428	0	0	0.00076	0.004184373	0.000468	0.00064	0.00062267	0.99615	3.12732E-05	0.000166
San Diego	2022	LDT1	Aggregate	Aggregate	Electricity	174.798842	6613.859084	0	6613.85908	826.808128	0	0	0	0	0	0	0.002000001	0.005528463	0	0	0	0.003800002	0.0044	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
San Diego	2022	LDT1	Aggregate	Aggregate	Plug-in Hybri	49.8526960	2525.068387	1208.73025	1316.35814	202.832907	0.003455018	0	0.112850708	0.000547957	0	0.001468086	0.002000001	0.001351445	0.000595697	0	0.001596677	0.003800002	0.00386	145.082	0	73.3238	0.00057	0	0.06123	0.00064	0	0.020806788	0.001794216	0	0.165829216	0.025396778	0.023146059	0.308875114	0.00262	0	0.18156	0.0254	0.02315	0.30888	0.020150473	0.23558	0	1.27064	0.00143	0	0.00072	1.5E-05	0.000573778	2.8E-05	3.7E-06	2.2616E-06	0.32288	8.5652E-06	5.1E-06
San Diego	2022	LDT2	Aggregate	Aggregate	Gasoline	554991.831	21817861.26	21817861.3	0	2599601.65	0.091467568	0	0.386074127	0.001637637	0	0.002035928	0.002000056	0.001064447	0.001832319	0	0.002203346	0.003800063	0.00888	389.247	0	92.283	0.00449	0	0.0911	0.00728	0	0.060155164	0.018079193	0	0.431081344	0.092477662	0.238892549	1.503162532	0.02638	0	0.47198	0.09248	0.23889	1.50116	0.034019951	1.01967	0	3.98433	0.00385	0	0.00091	0.00032	0.002472323	0.0003	9E-06	5.5693E-06	0.88238	3.3834E-05	2.7E-05
San Diego	2022	LDT2	Aggregate	Aggregate	Diesel	1975.91029	82881.65222	82881.6522	0	9486.61846	0.062347937	0	0	0.006564693	0	0	0.002000056	0.003051655	0.006842496	0	0	0.003800063	0.00872	352.282	0	0	0.0014	0	0	0.0555	0	0	0.027977136	0	0	0	0	0	0.03185	0	0	0	0	0	0.0031	0.26278	0	0	0.00334	0	0	4.24E-05	0.000584554	0.000314	1.9E-05	1.5703E-05	0.77665	2.8649E-06	0.00012
San Diego	2022	LDT2	Aggregate	Aggregate	Electricity	1225.20766	46668.62996	0	46668.63	6320.6557	0	0	0	0	0	0	0.002000001	0.005523227	0	0	0	0.003800002	0.00435	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
San Diego	2022	LDT2	Aggregate	Aggregate	Plug-in Hybri	2426.91947	121163.805	60036.3379	61127.4671	10035.352	0.003576217	0	0.112850708	0.000772691	0	0.001880432	0.002000001	0.001346611	0.000790658	0	0.002045164	0.003800002	0.00385	150.178	0	79.7211	0.00058	0	0.06125	0.00066	0	0.020824764	0.001857265	0	0.165829216	0.027151126	0.025378522	0.342073125	0.00271	0	0.18156	0.02715	0.02538	0.34207	0.020745563	0.24385	0	1.27064	0.01648	0	0.00079	1.9E-05	0.000593771	2.9E-05	4.3E-06	2.5576E-06	0.36548	8.8405E-06	1.3E-06

Model Output: OFFROAD2021 (v1.0.1) Emissions Inventory
Region Type: County
Region: San Diego
Calendar Year: 2022
Scenario: All Adopted Rules - Exhaust
Vehicle Classification: OFFROAD2021 Equipment Types
Units: tons/day for Emissions, gallons/year for Fuel, hours/year for Activity, Horsepower-hours/year for Horsepower-hours

		1	2	3	4	6	7	8	9	10	11	12	15	16	17	18	19	20	21	22	23	24	25
Region	Calendar Year	Vehicle Category	Model Year	Horsepower Bin	Fuel	ROG_tpd	TOG_tpd	CO_tpd	NOx_tpd	CO2_tpd	PM10_tpd	PM2.5_tpd	Fuel Consumption	Total_Activity_hpy	Total_Population	Horsepower_Hours_hhpy	ROG (lb/hp-hr)	TOG (lb/hp-hr)	CO (lb/hp-hr)	NOx (lb/hp-hr)	CO2 (lb/hp-hr)	PM10 (lb/hp-hr)	PM2.5 (lb/hp-hr)
San Diego	2022	Agricultural - Agricultural Tractors	Aggregate	100	Gasoline	1.1277E-06	1.3421E-06	1.33E-05	3.5675E-06	0.0004012	3.01814E-08	2.77669E-08	13.00282125	61.51407982	0.039277067	347.0105513	0.002372358	0.002823302	0.027885204	0.007504967	0.844019425	6.34921E-05	5.84127E-05
San Diego	2022	Agricultural - Agricultural Tractors	Aggregate	100	Diesel	0.04963021	0.05906406	0.313575	0.36928586	50.391169	0.025813036	0.023747993	1633126.266	66257.29154	858.5300135	58373590.98	0.000620658	0.000738635	0.003921456	0.004618162	0.630174581	0.000322809	0.000296984
San Diego	2022	Agricultural - Agricultural Tractors	Aggregate	175	Gasoline	5.6123E-06	6.6791E-06	6.89E-05	3.4267E-05	0.0035958	2.70494E-07	2.48854E-07	116.5346871	289.9447179	0.274562725	3109.999387	0.001317359	0.001567766	0.016182789	0.008043357	0.844019417	6.34921E-05	5.84127E-05
San Diego	2022	Agricultural - Agricultural Tractors	Aggregate	175	Diesel	0.02126966	0.02531265	0.162093	0.19135224	27.217554	0.008656007	0.007963526	882093.1062	72201.95541	366.7542753	35051382.4	0.000442974	0.000527176	0.003375832	0.00398521	0.566848244	0.000180275	0.000165853
San Diego	2022	Agricultural - Agricultural Tractors	Aggregate	25	Gasoline	0.00010639	0.00012661	0.000956	1.5509E-05	0.0024951	1.781E-06	1.63852E-06	80.86289092	2109.130553	1.133298773	2158.014498	0.035988503	0.042829293	0.323348928	0.005246239	0.844019409	0.000602465	0.000554267
San Diego	2022	Agricultural - Agricultural Tractors	Aggregate	25	Diesel	0.00636241	0.0075718	0.018519	0.0134488	1.6194225	0.000871157	0.000801464	52483.82673	22674.80822	151.6207619	1875953.821	0.00247584	0.002946454	0.007206554	0.005233405	0.630174575	0.000338998	0.000311878
San Diego	2022	Agricultural - Agricultural Tractors	Aggregate	300	Diesel	0.01045066	0.01243715	0.053304	0.08392795	23.470425	0.00369175	0.00339641	760652.4912	42102.85646	108.0830439	30225745.16	0.0002524	0.000300377	0.00128737	0.002026994	0.566848243	8.91616E-05	8.20287E-05
San Diego	2022	Agricultural - Agricultural Tractors	Aggregate	50	Gasoline	2.173E-05	2.5861E-05	0.000499	4.9278E-05	0.0093813	7.05716E-07	6.49258E-07	304.0381908	1355.710425	1.130167271	8113.966955	0.001955019	0.002326634	0.044858024	0.004433437	0.844019404	6.34921E-05	5.84127E-05
San Diego	2022	Agricultural - Agricultural Tractors	Aggregate	50	Diesel	0.10313898	0.12274391	0.317076	0.2502463	28.75217	0.022305978	0.0205215	931828.4455	83627.74825	1269.939053	33306777.1	0.002260545	0.002690235	0.00694949	0.005484764	0.63017458	0.00048889	0.000449779
San Diego	2022	Agricultural - Agricultural Tractors	Aggregate	600	Diesel	0.00607252	0.0072268	0.038723	0.0495512	13.719297	0.002116955	0.001947598	444628.3755	31562.88775	38.07638101	17668020.61	0.000250902	0.000298594	0.00159993	0.002047336	0.566848244	8.74675E-05	8.04701E-05
San Diego	2022	Agricultural - Agricultural Tractors	Aggregate	75	Gasoline	8.363E-07	9.9527E-07	1.01E-05	2.7054E-06	0.0003042	2.2885E-08	2.10542E-08	9.859385394	161.1123433	0.043574214	263.1206504	0.002320224	0.002761258	0.027883725	0.007505796	0.844019412	6.34921E-05	5.84127E-05
San Diego	2022	Agricultural - Agricultural Tractors	Aggregate	75	Diesel	0.06640213	0.07902402	0.266209	0.44718279	36.676264	0.029342568	0.026995162	1188640.231	74687.69977	1077.123246	42486120.22	0.001140927	0.001357797	0.004574019	0.007683531	0.630174578	0.000504166	0.000463833
San Diego	2022	Agricultural - Agricultural Tractors	Aggregate	750	Diesel	0.00016901	0.00020114	0.001247	0.00154143	0.2694323	6.91305E-05	6.36001E-05	8732.024733	183.8900616	0.555556261	346980.9898	0.000355575	0.000423164	0.002623738	0.003242961	0.56684824	0.000145441	0.000133806
San Diego	2022	Agricultural - ATVs	Aggregate	100	Gasoline	0.00071277	0.00084825	0.017645	0.00218957	1.0613391	7.98401E-05	7.34529E-05	34396.91432	1577.705821	45.25423944	1101554.08	0.00047235	0.000562136	0.011693328	0.001451026	0.70334951	5.29101E-05	4.86772E-05
San Diego	2022	Agricultural - ATVs	Aggregate	175	Gasoline	0.00111414	0.00132592	0.032206	0.00513042	2.45607	0.00018476	0.000169979	79598.71881	1461.425247	61.67388187	2549132.587	0.000319058	0.000379705	0.00922295	0.001469209	0.703349501	5.29101E-05	4.86772E-05
San Diego	2022	Agricultural - ATVs	Aggregate	175	Diesel	3.3895E-06	4.0338E-06	4.63E-05	3.1628E-05	0.0084606	1.21409E-06	1.11696E-06	274.1993794	2555.605028	0.127402022	13074.90182	0.000189245	0.000225217	0.002587141	0.001765862	0.472373537	6.7785E-05	6.23622E-05
San Diego	2022	Agricultural - ATVs	Aggregate	25	Gasoline	0.04503026	0.05358974	0.428556	0.01514658	1.5628581	0.001337939	0.001230904	50650.63474	7273.9784	279.5718188	1622076.123	0.020265444	0.024117553	0.192867743	0.006816574	0.703349511	0.000602127	0.000553957
San Diego	2022	Agricultural - ATVs	Aggregate	25	Diesel	0.00116277	0.00138379	0.007592	0.00740361	1.1158944	0.000327492	0.000301293	36164.99772	11501.18662	108.7275841	1551194.774	0.000547205	0.000651219	0.00357267	0.003484176	0.525145489	0.000154119	0.00014179
San Diego	2022	Agricultural - ATVs	Aggregate	25	Electric	0	0	0	0	0	0	0	0	1958.786157	56.32348931	331517.3223	0	0	0	0	0	0	0
San Diego	2022	Agricultural - ATVs	Aggregate	50	Gasoline	0.00201389	0.00239669	0.074902	0.00442355	2.0401987	0.000153476	0.000141198	66120.75427	5822.031555	226.5529945	2117503.498	0.000694278	0.000826249	0.025822035	0.001524998	0.703349513	5.29101E-05	4.86772E-05
San Diego	2022	Agricultural - ATVs	Aggregate	50	Diesel	0.00337594	0.00401765	0.023707	0.02172058	3.5799599	0.000875391	0.00080536	116022.842	15203.52617	220.4994522	4976470.029	0.000495217	0.00058935	0.003477552	0.003186199	0.525145484	0.000128411	0.000118139
San Diego	2022	Agricultural - ATVs	Aggregate	75	Gasoline	0.00036313	0.00043216	0.012501	0.00082712	0.4058619	3.05313E-05	2.80888E-05	13153.56918	2609.334985	24.77242283	421240.3379	0.000629298	0.000748916	0.021664701	0.001433375	0.703349511	5.29101E-05	4.86772E-05
San Diego	2022	Agricultural - Bale Wagons (Self Prop	Aggregate	175	Diesel	0.00015862	0.00018877	0.001098	0.00139519	0.178182	6.6595E-05	6.12674E-05	5774.696902	7406.109643	1.667906826	220288.1573	0.000525647	0.000625564	0.003638042	0.004623423	0.59046692	0.000220685	0.00020303
San Diego	2022	Agricultural - Bale Wagons (Self Prop	Aggregate	300	Diesel	1.5308E-05	1.8218E-05	6.71E-05	0.00013591	0.0227886	6.16864E-06	5.67515E-06	738.5546225	874.0857453	0.187721788	28173.7448	0.000396648	0.000472044	0.001737433	0.003521401	0.590466924	0.000159834	0.000147047
San Diego	2022	Agricultural - Balers (Self Propelled)	Aggregate	75	Diesel	1.075E-06	1.2794E-06	6.05E-06	7.9966E-06	0.0009638	4.29462E-07	3.95105E-07	31.23723605	28.32634127	0.017896971	1071.865968	0.000732162	0.000871333	0.004123258	0.005446159	0.656431848	0.000292488	0.000269089
San Diego	2022	Agricultural - Combine Harvesters	Aggregate	175	Diesel	0.00016181	0.00019257	0.001198	0.00140724	0.2004155	6.38165E-05	5.87112E-05	6495.260399	645.5360406	2.417201239	279196.189	0.000423089	0.000503511	0.003132712	0.003679444	0.524016075	0.000166858	0.000153509
San Diego	2022	Agricultural - Combine Harvesters	Aggregate	300	Diesel	0.0001388	0.00016518	0.000592	0.00117522	0.2024158	5.51492E-05	5.07373E-05	6560.088519	752.3657018	1.189710816	281982.7988	0.000359328	0.00042763	0.001531615	0.003042423	0.524016077	0.000142771	0.000131349
San Diego	2022	Agricultural - Combine Harvesters	Aggregate	600	Diesel	0.0013008	0.00154806	0.009087	0.01190187	2.1188936	0.000498132	0.000458281	68671.17599	18393.6163	8.958501199	2951803.219	0.000321697	0.000382846	0.002247268	0.002943408	0.524016076	0.000123191	0.000113336
San Diego	2022	Agricultural - Combine Harvesters	Aggregate	750	Diesel	0.0001417	0.00016864	0.00098	0.00135337	0.2303446	5.71947E-05	5.26191E-05	7465.23445	213.4170475	0.625089509	320890.1369	0.000322366	0.000383642	0.002228413	0.0030788	0.524016077	0.000130113	0.000119704
San Diego	2022	Agricultural - Combine Harvesters	Aggregate	9999	Diesel	6.2961E-06	7.4929E-06	4.2E-05	7.3857E-05	0.0091695	2.43516E-06	2.24035E-06	297.1741024	1250.450463	0.017500891	12773.9107	0.00035981	0.000428204	0.002400258	0.004220768	0.524016079	0.000139164	0.000128031
San Diego	2022	Agricultural - Construction Equipmer	Aggregate	100	Diesel	0.00060599	0.00072117	0.003455	0.00440948	0.5401238	0.000312045	0.000287082	17504.85959	4986.972848	12.23471147	750821.196	0.00058918	0.000701173	0.003359354	0.004287201	0.525145483	0.000303392	0.000279121
San Diego	2022	Agricultural - Construction Equipmer	Aggregate	175	Diesel	0.00232351	0.00276517	0.017421	0.0224169	3.0183088	0.000943312	0.000867847	97820.30205	5055.950855	63.87293972	4664455.68	0.000363635	0.000432756	0.002726401	0.003508305	0.472373535	0.000147631	0.00013582
San Diego	2022	Agricultural - Construction Equipmer	Aggregate	300	Diesel	0.00016757	0.00019942	0.000681	0.0016635	0.2416564	6.94893E-05	6.39301E-05	7831.835979	3196.840352	2.329004024	373452.6554	0.000327545	0.000389806	0.001331004	0.003251703	0.472373536	0.000135833	0.000124966
San Diego	2022	Agricultural - Construction Equipmer	Aggregate	50	Diesel	2.4279E-05	2.8894E-05	8.89E-05	7.1444E-05	0.01003	4.98126E-06	4.58276E-06	325.0634286	383.384929	0.325921559	13942.67186	0.001271175	0.001512804	0.004654889	0.00374059	0.525145483	0.000260805	0.000239941
San Diego	2022	Agricultural - Construction Equipmer	Aggregate	600	Diesel	6.2911E-05	7.487E-05	0.000432	0.00056306	0.0810735	2.54987E-05	2.34588E-05	2627.510518	1257.080262	0.419159264	125290.0064	0.000366551	0.000436226	0.002514522	0.003280665	0.472373538	0.000148568	0.000136683
San Diego	2022	Agricultural - Construction Equipmer	Aggregate	75	Diesel	0.00011164	0.00013286	0.000629	0.00083043	0.1000927	4.45985E-05	4.10306E-05	3243.902131	6403.358974	2.701508742	139137.9615	0.00058573	0.000697067	0.003298607	0.004356927	0.525145485	0.00023399	0.000215271
San Diego	2022	Agricultural - Cotton Pickers	Aggregate	600	Diesel	2.6196E-05	3.1175E-05	0.000182	0.00024094	0.0427117	1.00467E-05	9.24295E-06	1384.241848	909.1265946	0.194254115	59501.08588	0.000321384	0.000382474	0.002230442	0.002956044	0.524016076	0.00012326	0.000113399
San Diego	2022	Agricultural - Forage & Silage Harves	Aggregate	600	Diesel	2.3972E-05	2.8528E-05	0.000178	0.00020828	0.0383726	9.0687E-06	8.3432E-06	1243.616722	43.45208001	0.101077434	53456.37069	0.000327359	0.000389584	0.002425483	0.002844217	0.524016074	0.000123842	0.000113935
San Diego	2022	Agricultural - Forage & Silage Harves	Aggregate	750	Diesel	0.00017063	0.00020306	0.001171	0.001602	0.2376005	7.17294E-05	6.5991E-05	7700.390566	1608.319478	0.587772376	330998.2304	0.00037631	0.000447839	0.00258231	0.003533126	0.524016079	0.000158196	0.00014554
San Diego	2022	Agricultural - Forage & Silage Harves	Aggregate	9999	Diesel	7.512E-05	8.9399E-05	0.000503	0.0008488	0.0892353	3.00887E-05	2.76816E-05	2892.02635	487.7302624	0.166709003	124312.6038	0.000441126	0.000524977	0.002955906	0.004984373	0.524016074	0.00017669	0.000162554
San Diego	2022	Agricultural - Forklifts	Aggregate	100	Diesel	0.00043792	0.00052116	0.002624	0.00307197	0.4169707	0.000215423	0.00019819	13513.59277	12814.71094	9.020621054	579627.1509	0.000551531	0.000656367	0.00330433	0.00386893	0.525145484	0.000271311	0.000249606
San Diego	2022	Agricultural - Forklifts	Aggregate	175	Diesel	9.2382E-05	0.00010994	0.000686	0.00079944	0.1142982	3.65156E-05	3.35944E-05	3704.288452	2910.473954	1.771625729	176635.0022	0.000381799	0.000454372	0.002834532	0.00330395	0.472373534	0.000150912	0.000138839
San Diego	2022	Agricultural - Forklifts	Aggregate	50	Diesel	0.00094043	0.00111919	0.003522	0.00294498	0.4002848	0.000202032	0.000185869	12972.8196	17498.38322	18.99423212	556432.2231	0.001233778	0.001468298	0.004620265	0.003863613	0.525145486	0.000265052	0.000243847
San Diego	2022	Agricultural - Forklifts	Aggregate	75	Diesel	0.00190204	0.00226359	0.010774	0.01418279	1.7188129	0.000765505	0.000704265	55704.96864	29185.90125	45.09216391	2389306.314	0.000581128	0.00069159	0.003291712	0.004333238	0.525145481	0.000233883	0.000215173
San Diego	2022	Agricultural - Hay Squeeze/Stack Ret	Aggregate	175	Diesel	1.892E-05	2.2516E-05	0.000141	0.00016208	0.0233575	7.51227E-06	6.91129E-06	756.9930851	917.5378309	0.290826413	34377.52299	0.000401755	0.000478121	0.00299877	0.003441675	0.495992215	0.000159522	0.00014676
San Diego	2022	Agricultural - Hay Squeeze/Stack Ret	Aggregate	300	Diesel	9.7982E-05	0.00011661	0.000429	0.00086988	0.1458606	3.9483E-05	3.63244E-05	4727.193117	1569.65095	1.265595894	214677.2449	0.000333185	0.000396517	0.001459444	0.002957977	0.495992214	0.00013426	0.000123519
San Diego	2022	Agricultural - Hay Squeeze/Stack Ret	Aggregate	600	Diesel	7.4371E-07	8.8508E-07	5.16E-06	6.8414E-06	0.0012138	2.85158E-07	2.62345E-07	39.33748269	28.32634136	0.005965657	1786.443275	0.000303904	0.000361671	0.00210924	0.002795609	0.49599222	0.000116525	0.000107203
San Diego	2022	Agricultural - Hay Squeeze/Stack Ret	Aggregate	75	Diesel	1.6071E-06	1.9126E-06	9.05E-06	1.1954E-05	0.0014409	6.42009E-07	5.90649E-07	46.69697101	4897.356238	0.031850505	1907.556042	0.000615016	0.00073192	0.003463537	0.004574774	0.551402758	0.00024569	0.000226034
San Diego	2022	Agricultural - Nut Harvester	Aggregate	100	Diesel	0.00273135	0.00325054	0.015202	0.01910981	2.3333456	0.001418643	0.001305152	75621.34649	31304.09806	39.11295387	2923904.936	0.000681927	0.000811549	0.00379552	0.004771072	0.582557351	0.000354187	0.000325852
San Diego	2022	Agricultural - Nut Harvester	Aggregate	175	Diesel	0.00074779	0.00088994	0.005349	0.00655206	0.8818918	0.000304965	0.000280568	28581.21155	16278.92877	11.87058808	1228552.024	0.000444336	0.000528797	0.003178644	0.003893207	0.524016078	0.000181209	0.000166712
San Diego	2022	Agricultural - Nut Harvester	Aggregate	25	Diesel	0.00179269	0.00213345	0.006565	0.00553676	0.7405918	0.000297351	0.000273563	24001.82158	4812.377212	59.16415513	928032.1905	0.001410147	0.001678192	0.005163787	0.004355277	0.582557354	0.000233899	0.000215187
San Diego	2022	Agricultural - Nut Harvester	Aggregate	300	Diesel	0.00069981	0.00083284	0.002826	0.00606988	0.8630404	0.000291549	0.000268225	27970.25558	4606.668639	5.639922879	1202290.317	0.000424909	0.000505677	0.001716066	0.003685479	0.524016079	0.000177021	0.00016286
San Diego	2022	Agricultural - Nut Harvester	Aggregate	50	Diesel	0.00060297	0.00071758	0.002138	0.00170066	0.2221359	0.00013009	0.000119683	7199.196526	8884.427272	8.241005159	278357.4648	0.001581294	0.00188187	0.00560802	0.00446002	0.582557348	0.000341164	0.000313871
San Diego	2022	Agricultural - Nut Harvester	Aggregate	75	Diesel	0.00039523	0.00047035	0.002247	0.00294347	0.3565749	0.000159639	0.000146868	11556.22708	8493.410342	7.296649604	446822.3734	0.000645708	0.000768445	0.003670951	0.004808921	0.582557349	0.000260812	0.000239947
San Diego	2022	Agricultural - Other Harvesters	Aggregate	100	Diesel	0.00075733	0.00090128	0.00444	0.00523329	0.7000465	0.000374626	0.000344656	22687.79072	13635.50836	11.22868386	877225.1012	0.000630225	0.00075002	0.003694549	0.004354986	0.582557348	0.000311753	0.000286812
San Diego	2022	Agricultural - Other Harvesters	Aggregate	175	Diesel	0.00071555	0.00085157	0.005156	0.00626929	0.8529237	0.000290002	0.000266802	27642.38449	9494.360999	11.15693872	1188196.911	0.000439618	0.000523182	0.003167491	0.003851703	0.524016078	0.00017817	0.000163917
San Diego	2022	Agricultural - Other Harvesters	Aggregate	300	Diesel	9.6859E-05	0.00011527	0.000415	0.00082688	0.1417517	3.85776E-05	3.54914E-05	4594.02869	5137.898985	0.753918348	197472.4982	0.00035806	0.000426121	0.001533398	0.00305675	0.524016076	0.000142611	0.000131202
San Diego	2022	Agricultural - Other Harvesters	Aggregate	600	Diesel	3.5527E-05	4.228E-05	0.000247	0.00032681	0.0579819	1.36219E-05	1.25321E-05	1879.133322	4954.008924	0.217054924	80773.79924	0.000321075	0.000382106	0.002228413	0.002953563	0.524016077	0.000123109	0.00011326
San Diego	2022	Agricultural - Other Harvesters	Aggregate	75	Diesel	0.0002206	0.00026253	0.001242	0.00164091	0.1977809	8.81257E-05	8.10756E-05	6409.877471	7104.696976	4.163221408	247838.3865	0.000649765	0.000773274	0.003659229	0.004833252	0.582557346	0.000259571	0.000238806
San Diego	2022	Agricultural - Other Harvesters	Aggregate	750	Diesel	7.4008E-06	8.8076E-06	5.12E-05	7.0683E-05	0.0120303	2.98713E-06	2.74816E-06	389.8894202	4897.355986	0.031850506	16759.2417	0.000322366	0.000383642	0.002228413	0.0030788	0.524016082	0.000130113	0.000119704
San Diego	2022	Agricultural - Sprayers/Spray Rigs	Aggregate	100	Diesel	0.0001889	0.00022481	0.001128	0.00130014	0.1794813	9.18179E-05	8.44724E-05	5816.805143	1497.159171	3.330872701	237614.5932	0.000580346	0.000690659	0.003466517	0.003994283	0.551402758	0.000282083	0.000259516
San Diego	2022	Agricultural - Sprayers/Spray Rigs	Aggregate	175	Diesel	0.00053279	0.00063407	0.003867	0.00464954	0.641237	0.000214244	0.000197104	20781.83406	7857.318156	8.00743602	943770.8152	0.000412112	0.000490447	0.00299092	0.003596386	0.495992214	0.000165716	0.000152459
San Diego	2022	Agricultural - Sprayers/Spray Rigs	Aggregate	25	Diesel	3.0518E-06	3.6319E-06	1.12E-05	9.4255E-06	0.0012607	5.06196E-07	4.657E-07	40.8595431	817.0077163	0.127830086	1669.099028	0.001334734	0.001588444	0.004887633	0.004122361	0.551402753	0.000221391	0.000203679
San Diego	2022	Agricultural - Sprayers/Spray Rigs	Aggregate	300	Diesel	0.00036401	0.0004332	0.001479	0.00316271	0.4556908	0.000151289	0.000139186	14768.47336	5221.808065	3.25942314	670684.5057	0.000396205	0.000471517	0.001610006	0.003442416	0.495992215	0.000164669	0.000151495
San Diego	2022	Agricultural - Sprayers/Spray Rigs	Aggregate	50	Diesel	0.00024691	0.00029384	0.000912	0.00073995	0.1031375	5.12515E-05	4.71514E-05	3342.581131	3747.204769	4.481875519	136543.3498	0.001320041	0.001570957	0.004875686	0.003955972	0.551402757	0.000274005	0.000252085
San Diego	2022	Agricultural - Sprayers/Spray Rigs	Aggregate	600	Diesel	0.00094941	0.00112988	0.006566	0.00852189	1.3053659	0.000379084	0.000348758	42305.57573	4790.558735	6.19547916	1921234.069	0.000360743	0.000429314	0.002494862	0.003238013	0.495992213	0.000144038	0.000132515
San Diego	2022	Agricultural - Sprayers/Spray Rigs	Aggregate	75	Diesel	0.00872223	0.01038018	0.044385	0.06197376	6.6541883	0.004028736	0.003706437	215655.4402	18069.61599	194.7917853	8809454.421	0.000722772	0.000860159	0.003678012	0.005135488	0.551402758	0.000333843	0.000307136
San Diego	2022	Agricultural - Swathers/Windrowers,	Aggregate	100	Diesel	0.00053024	0.00063102	0.003186	0.00365481	0.5060039	0.000258904	0.000238192	16399.06774	7752.184124	7.420647609	586159.5015	0.000660352	0.000785874	0.003968379	0.004551679	0.630174578	0.000322437	0.000296642
San Diego	2022	Agricultural - Swathers/Windrowers,	Aggregate	175	Diesel	5.8047E-05	6.9081E-05	0.000381	0.00051491	0.0601505	2.54869E-05	2.3448E-05	1949.417812	1022.896799	0.613946139	77463.23823	0.000547027	0.000651008	0.003586226	0.004852423	0.566848248	0.000240184	0.000220969
San Diego	2022	Agricultural - Swathers/Windrowers,	Aggregate	300	Diesel	2.7052E-05	3.2194E-05	0.000117	0.00023541	0.0398938	1.08375E-05	9.97047E-06	1292.917618	5006.627256	0.2596319	51376.15206	0.000384376	0.000457439	0.00166389	0.003344977	0.566848247	0.000153989	0.00014167
San Diego	2022	Agricultural - Swathers/Windrowers,	Aggregate	50	Diesel	0.00019447	0.00023144	0.000712	0.00057225	0.080339	3.98991E-05	3.67072E-05	2603.703814	645.536002	2.417201261	93065.39545	0.00152541	0.001815364	0.005585866	0.004488708	0.630174583	0.000312966	0.000287929
San Diego	2022	Agricultural - Swathers/Windrowers,	Aggregate	75	Diesel	0.000127	0.00015114	0.000717	0.00094463	0.1139467	5.08914E-05	4.68201E-05	3692.896857	1838.519322	2.559963406	131996.9278	0.000702351	0.000835856	0.003964968	0.0052242	0.630174583	0.000281451	0.000258935
San Diego	2022	Airport Ground Support - A/C Tug Na	Aggregate	100	Diesel	0.00015602	0.00018568	0.001217	0.00142369	0.1775296	9.53038E-05	8.76795E-05	5759.751689	2354.355677	7.136252904	207871.1944	0.000547909	0.000652057	0.004273844	0.004999693	0.623446617	0.000334687	0.000307912
San Diego	2022	Airport Ground Support - A/C Tug Na	Aggregate	175	Diesel	0.00026104	0.00031065	0.003262	0.00304642	0.5502121	0.000167597	0.000154189	17851.02428	4900.262232	14.94755676	644583.4671	0.000295626	0.000351819	0.003694317	0.003450117	0.623123029	0.000189806	0.000174622
San Diego	2022	Airport Ground Support - A/C Tug Na	Aggregate	25	Diesel	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Airport Ground Support - A/C Tug Na	Aggregate	300	Diesel	9.4201E-05	0.00011211	0.000549	0.00141265	0.2870993	3.97996E-05	3.66156E-05	9314.620202	1502.145391	4.532484952	336352.7255	0.000204448	0.00024331	0.0011915	0.003065928	0.623103261	8.63786E-05	7.94683E-05
San Diego	2022	Airport Ground Support - A/C Tug Na	Aggregate	50	Diesel	6.3883E-05	7.6026E-05	0.000223	0.00018918	0.0187494	2.02321E-05	1.86135E-05	608.3020296	457.9595018	1.446537751	19755.9673	0.002360526	0.00280922	0.008221649	0.006990394	0.692804644	0.000747592	0.000687785
San Diego	2022	Airport Ground Support - A/C Tug Na	Aggregate	75	Diesel	9.844E-07	1.1715E-06	1.99E-05	1.705E-05	0.0031372	1.1691E-06	1.07557E-06	101.7846183	63.92108047	0.1928717	3675.462127	0.000195516	0.000232681	0.003943992	0.003386396	0.623103261	0.0002322	0.000213624
San Diego	2022	Airport Ground Support - A/C Tug Na	Aggregate	750	Diesel	2.7934E-05	3.3244E-05	0.000115	0.00031466	0.0190963	1.44801E-05	1.33217E-05	619.5585463	31.96054024	0.09643585	22372.37817	0.000911487	0.001084745	0.003736527	0.010267348	0.623103261	0.000472478	0.000434679
San Diego	2022	Airport Ground Support - A/C Tug Wi	Aggregate	100	Diesel	1.9737E-05	2.3489E-05	0.000178	0.00022788	0.0260211	1.38131E-05	1.2708E-05	844.2260374	353.3535785	0.87924018	30432.57695	0.000473441	0.000563433	0.004259043	0.005466348	0.624179983	0.00033134	0.000304833
San Diego	2022	Airport Ground Support - A/C Tug Wi	Aggregate	175	Diesel	2.2586E-05	2.6879E-05	0.00039	0.00024648	0.0693015	1.13374E-05	1.04304E-05	2248.410419	530.0303677	1.318860269	81050.47707	0.000203428	0.000242096	0.003514836	0.002219945	0.624179983	0.000102113	9.39441E-05
San Diego	2022	Airport Ground Support - A/C Tug Wi	Aggregate	25	Diesel	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Airport Ground Support - A/C Tug Wi	Aggregate	300	Diesel	0.0001494	0.0001778	0.001219	0.00165956	0.6528299	5.05878E-05	4.65408E-05	21180.34684	3160.215309	7.913161617	763509.3498	0.000142843	0.000169995	0.001165274	0.00158672	0.624178106	4.83676E-05	4.44982E-05
San Diego	2022	Airport Ground Support - A/C Tug Wi	Aggregate	50	Diesel	7.2061E-07	8.5758E-07	1.25E-05	9.94E-06	0.0019733	4.11906E-08	3.78953E-08	64.02233024	44.16919731	0.109905022	2075.952274	0.000253398	0.000301565	0.00440662	0.003495358	0.693911262	1.44845E-05	1.33257E-05
San Diego	2022	Airport Ground Support - A/C Tug Wi	Aggregate	600	Diesel	0.00014446	0.00017191	0.000867	0.00207163	0.3209007	6.84895E-05	6.30104E-05	10411.26932	1020.126941	2.637720539	375312.3252	0.000280972	0.00033438	0.001687211	0.004029425	0.624166819	0.000133215	0.000122558
San Diego	2022	Airport Ground Support - A/C Tug Wi	Aggregate	75	Diesel	3.9262E-06	4.6726E-06	4.51E-05	4.4262E-05	0.0068956	2.24334E-06	2.06387E-06	223.7209182	132.5075919	0.329715067	7817.947924	0.000366612	0.000436299	0.004215678	0.004132924	0.643878084	0.000209471	0.000192713

San Diego	2022	Airport Ground Support - A/C Tug Wi	Aggregate	750	Diesel	1.7895E-05	2.1296E-05	5.31E-05	0.00033424	0.0260649	8.62086E-06	7.93119E-06	845.6474662	48.40459979	0.219810045	30494.89787	0.000428369	0.000509794	0.001271683	0.008001117	0.623953165	0.00020637	0.00018986
San Diego	2022	Airport Ground Support - Baggage Tu	Aggregate	100	Diesel	0.00012703	0.00015118	0.002021	0.00150983	0.2960436	4.76999E-05	4.38839E-05	9604.807561	5630.037006	7.747665557	504017.3102	0.000183985	0.000218957	0.002927367	0.002186779	0.428778538	6.90867E-05	6.35598E-05
San Diego	2022	Airport Ground Support - Baggage Tu	Aggregate	175	Diesel	2.9134E-07	3.4672E-07	1.42E-05	1.3278E-06	0.0026891	4.62946E-08	4.25911E-08	87.24368468	36.58318285	0.049664523	4572.897857	4.65089E-05	5.53494E-05	0.002272765	0.00021196	0.429271763	7.3903E-06	6.79907E-06
San Diego	2022	Airport Ground Support - Baggage Tu	Aggregate	25	Diesel	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Airport Ground Support - Baggage Tu	Aggregate	300	Diesel	1.2717E-05	1.5134E-05	3.55E-05	0.00022219	0.015489	5.76166E-06	5.30072E-06	502.5236238	146.3327314	0.198658091	26339.89166	0.000352434	0.000419425	0.000985005	0.006157926	0.429271763	0.000159682	0.000146908
San Diego	2022	Airport Ground Support - Baggage Tu	Aggregate	50	Diesel	9.9744E-05	0.0001187	0.000442	0.00034821	0.0411458	3.31826E-05	3.0528E-05	1334.929935	1401.097625	1.936916389	62939.64357	0.001156867	0.001376767	0.005121742	0.004038689	0.477225912	0.000384865	0.000354076
San Diego	2022	Airport Ground Support - Baggage Tu	Aggregate	75	Diesel	0.00013672	0.0001627	0.002006	0.00153468	0.2945707	7.39028E-05	6.79905E-05	9557.022195	7536.135668	10.2308917	500933.5228	0.000199233	0.000237104	0.002922886	0.002236451	0.429271763	0.000107697	9.90812E-05
San Diego	2022	Airport Ground Support - Belt Loader	Aggregate	100	Diesel	0.00012612	0.0001501	0.001018	0.00113208	0.1424278	9.52386E-05	8.76195E-05	4620.912751	3103.950997	6.090080595	266367.5818	0.000345649	0.000411351	0.002789099	0.003102548	0.390333858	0.000261008	0.000240128
San Diego	2022	Airport Ground Support - Belt Loader	Aggregate	175	Diesel	4.9034E-06	5.8355E-06	5.84E-05	4.2206E-05	0.0095654	2.84689E-06	2.61914E-06	310.3402448	132.3221641	0.290003838	17890.31422	0.000200081	0.000238113	0.002384239	0.001722164	0.390310247	0.000116165	0.000106872
San Diego	2022	Airport Ground Support - Belt Loader	Aggregate	25	Diesel	1.6889E-07	2.01E-07	4.41E-06	4.2208E-06	0.0008883	1.39804E-08	1.2862E-08	28.82057228	59.77487724	0.116001535	1494.371931	8.2504E-05	9.81866E-05	0.002154103	0.00206187	0.433944034	6.82941E-06	6.28306E-06
San Diego	2022	Airport Ground Support - Belt Loader	Aggregate	300	Diesel	2.4172E-06	2.8766E-06	1.6E-05	2.3321E-05	0.008422	1.06068E-06	9.75824E-07	273.2430423	59.77487724	0.116001535	15750.68015	0.000112029	0.000133324	0.000742758	0.001080882	0.390336913	4.91595E-05	4.52267E-05
San Diego	2022	Airport Ground Support - Belt Loader	Aggregate	50	Diesel	4.9619E-05	5.9051E-05	0.000239	0.00019289	0.0255303	1.50016E-05	1.38014E-05	828.3032472	926.5105972	1.798023795	42948.24929	0.000843388	0.001003701	0.004061247	0.003278615	0.433944034	0.000254984	0.000234586
San Diego	2022	Airport Ground Support - Belt Loader	Aggregate	600	Diesel	6.6562E-07	7.9214E-07	1.28E-05	3.5477E-06	0.0072714	1.1939E-07	1.09838E-07	235.9119246	29.88743862	0.058000768	13598.78457	3.57311E-05	4.2523E-05	0.000686405	0.000190447	0.390336913	6.40898E-06	5.89626E-06
San Diego	2022	Airport Ground Support - Belt Loader	Aggregate	75	Diesel	0.00014676	0.00017466	0.00109	0.00138408	0.1538336	9.8993E-05	9.10735E-05	4990.963046	4572.778109	8.874117439	287696.4841	0.000372386	0.00044317	0.002764756	0.003511963	0.390336913	0.000251184	0.00023109
San Diego	2022	Airport Ground Support - Belt Loader	Aggregate	750	Diesel	8.9836E-06	1.0691E-05	0.000115	9.9114E-05	0.0042644	5.04267E-06	4.63926E-06	138.3550588	12.77240967	0.058000768	7982.756041	0.000821523	0.00097768	0.010475573	0.009063675	0.389970728	0.000461138	0.000424247
San Diego	2022	Airport Ground Support - Bobtail	Aggregate	100	Diesel	3.835E-06	4.5639E-06	7.21E-05	5.5849E-05	0.0110998	2.59014E-06	2.38293E-06	360.1221492	221.4134781	0.47765338	18875.49901	0.000148316	0.000176508	0.002789392	0.002159941	0.429280553	0.000100172	9.21586E-05
San Diego	2022	Airport Ground Support - Bobtail	Aggregate	175	Diesel	1.2156E-05	1.4467E-05	0.000115	0.00010981	0.0177243	7.14519E-06	6.57357E-06	575.0447718	247.7096157	0.597066725	30143.13099	0.000294397	0.000350357	0.002776963	0.00265944	0.429242902	0.000173041	0.000159197
San Diego	2022	Airport Ground Support - Bobtail	Aggregate	25	Diesel	3.8316E-07	4.56E-07	6.16E-06	7.69E-06	0.0009047	2.83115E-07	2.60466E-07	29.35145007	55.35336954	0.119413345	1383.834238	0.000202126	0.000240547	0.003251241	0.004056636	0.477238326	0.000149349	0.000137401
San Diego	2022	Airport Ground Support - Bobtail	Aggregate	300	Diesel	3.2163E-05	3.8277E-05	0.000229	0.00031498	0.0969214	1.32953E-05	1.22316E-05	3144.508529	801.2433111	1.791200175	164820.9031	0.000142452	0.00016953	0.00101226	0.001395061	0.429269775	5.88853E-05	5.41745E-05
San Diego	2022	Airport Ground Support - Bobtail	Aggregate	50	Diesel	5.2576E-06	6.2569E-06	3.92E-05	3.2759E-05	0.005708	1.25199E-06	1.15183E-06	185.1908186	192.3562462	0.47765338	8732.158395	0.000439526	0.000523073	0.003277845	0.002738625	0.477185974	0.000104665	9.62916E-05
San Diego	2022	Airport Ground Support - Bobtail	Aggregate	75	Diesel	1.5265E-06	1.8167E-06	1.68E-05	2.3974E-05	0.0024088	1.33591E-06	1.22904E-06	78.14967461	55.35336954	0.119413345	4096.149346	0.000272048	0.00032376	0.002990213	0.004272552	0.429280553	0.000238081	0.000219034
San Diego	2022	Airport Ground Support - Cargo Load	Aggregate	100	Diesel	0.00014214	0.00016916	0.002494	0.0018991	0.3847652	7.38003E-05	6.78963E-05	12483.28397	8350.644014	17.97057115	720366.5192	0.000144042	0.000171421	0.002526943	0.001924493	0.3899107	7.47872E-05	6.88042E-05
San Diego	2022	Airport Ground Support - Cargo Load	Aggregate	175	Diesel	0.00011605	0.0001381	0.003231	0.00122539	0.567622	3.83713E-05	3.53016E-05	18415.87018	8088.852191	16.90722375	1063195.604	7.96786E-05	9.48241E-05	0.002218618	0.000841362	0.38973454	2.63461E-05	2.42384E-05
San Diego	2022	Airport Ground Support - Cargo Load	Aggregate	25	Diesel	2.621E-06	3.1192E-06	2.63E-05	2.4992E-05	0.0037872	1.29885E-06	1.19494E-06	122.872101	255.2353198	0.531673703	6380.882996	0.000299849	0.000356845	0.003009607	0.002859137	0.433273699	0.000148594	0.000136706
San Diego	2022	Airport Ground Support - Cargo Load	Aggregate	300	Diesel	1.2024E-05	1.431E-05	0.000105	0.0001055	0.0550002	3.92408E-06	3.61015E-06	1784.422312	482.8396601	1.063347406	103016.7217	8.52079E-05	0.000101404	0.000745679	0.000747607	0.389744274	2.78069E-05	2.55824E-05
San Diego	2022	Airport Ground Support - Cargo Load	Aggregate	50	Diesel	7.5463E-06	8.9807E-06	6.17E-05	5.8567E-05	0.0084515	2.32613E-06	2.14004E-06	274.2011002	380.7455321	0.850677924	14238.85259	0.000386883	0.000460423	0.003164133	0.003002641	0.433295344	0.000119257	0.000109716
San Diego	2022	Airport Ground Support - Cargo Load	Aggregate	600	Diesel	6.0263E-06	7.1718E-06	9.32E-05	2.5663E-05	0.0516719	8.89038E-07	8.17915E-07	1676.438035	306.2823838	0.638008443	96785.23328	4.54531E-05	5.40929E-05	0.000702802	0.000193563	0.38973394	6.70555E-06	6.1691E-06
San Diego	2022	Airport Ground Support - Cargo Load	Aggregate	750	Diesel	7.2254E-06	8.5988E-06	0.000103	2.8418E-05	0.0567955	9.96048E-07	9.16364E-07	1842.667123	153.1411919	0.319004222	106382.0813	4.95811E-05	5.90056E-05	0.000710173	0.000195003	0.38973394	6.83494E-06	6.28814E-06
San Diego	2022	Airport Ground Support - Cargo Trac	Aggregate	100	Diesel	8.9849E-05	0.00010693	0.00086	0.00084424	0.1295275	5.63414E-05	5.18341E-05	4202.375685	2494.056978	3.710598255	224662.907	0.000291949	0.000347443	0.002794581	0.002743211	0.420875189	0.000183071	0.000168425
San Diego	2022	Airport Ground Support - Cargo Trac	Aggregate	175	Diesel	4.8006E-05	5.7132E-05	0.000616	0.00042411	0.1034142	2.4362E-05	2.2413E-05	3355.161328	1247.028489	1.855299128	179369.6808	0.000195377	0.000232515	0.002509007	0.001726032	0.420876033	9.91485E-05	9.12167E-05
San Diego	2022	Airport Ground Support - Cargo Trac	Aggregate	25	Diesel	1.6074E-06	1.913E-06	2.57E-05	1.9275E-05	0.0037494	8.52535E-08	7.84332E-08	121.6450831	233.9919429	0.337327114	5849.798572	0.000200591	0.00023872	0.003206756	0.002405373	0.467889685	1.06388E-05	9.78773E-06
San Diego	2022	Airport Ground Support - Cargo Trac	Aggregate	300	Diesel	9.6477E-05	0.00011482	0.000456	0.00115047	0.1510681	4.47716E-05	4.11898E-05	4901.238318	1207.101293	1.855299128	262021.7634	0.000268789	0.000319881	0.001270925	0.003205238	0.42087999	0.000124735	0.000114756
San Diego	2022	Airport Ground Support - Cargo Trac	Aggregate	50	Diesel	3.1381E-05	3.7347E-05	0.000174	0.0001409	0.0193846	9.73745E-06	8.95845E-06	628.9127943	893.2549565	1.517972014	30241.60154	0.000757515	0.000901505	0.004196741	0.003401214	0.467924157	0.000235052	0.000216247
San Diego	2022	Airport Ground Support - Cargo Trac	Aggregate	600	Diesel	6.5443E-05	7.7883E-05	0.000316	0.00063612	0.1566582	2.11434E-05	1.94519E-05	5082.60289	701.9758286	1.011981342	271723.1437	0.000175817	0.000209236	0.000848776	0.001708977	0.420871359	5.68029E-05	5.22587E-05
San Diego	2022	Airport Ground Support - Cargo Trac	Aggregate	75	Diesel	0.00037832	0.00045023	0.002595	0.00302099	0.3566548	0.000245424	0.00022579	11571.27376	10151.72187	15.09538836	619617.8609	0.000445714	0.000530437	0.003056808	0.003559171	0.420191308	0.000289146	0.000266014
San Diego	2022	Airport Ground Support - Forklift	Aggregate	100	Diesel	0.00014108	0.00016789	0.001135	0.00129541	0.1653948	9.47924E-05	8.7209E-05	5366.051563	5833.838338	15.4298278	514867.0994	0.000200024	0.000238045	0.001608967	0.001836692	0.234503605	0.000134401	0.000123649
San Diego	2022	Airport Ground Support - Forklift	Aggregate	175	Diesel	8.0812E-05	9.6173E-05	0.000564	0.00080426	0.0890929	4.86408E-05	4.47495E-05	2890.521587	2116.173153	5.618954633	277529.626	0.000212563	0.000252968	0.001482939	0.002115492	0.234345539	0.000127942	0.000117707
San Diego	2022	Airport Ground Support - Forklift	Aggregate	25	Diesel	9.9448E-08	1.1835E-07	1.87E-06	1.5507E-06	0.0003126	6.09377E-09	5.60627E-09	10.14226484	35.05841643	0.089189756	876.4604109	8.28295E-05	9.8574E-05	0.001556431	0.001291539	0.260370913	5.07547E-06	4.66943E-06
San Diego	2022	Airport Ground Support - Forklift	Aggregate	300	Diesel	2.2099E-05	2.6299E-05	0.000164	0.00023189	0.0747785	8.19562E-06	7.53997E-06	2426.107575	985.8583826	2.586502926	233085.4398	6.92106E-05	8.23664E-05	0.000513156	0.000726263	0.234198836	2.56679E-05	2.36144E-05
San Diego	2022	Airport Ground Support - Forklift	Aggregate	50	Diesel	3.4001E-05	4.0464E-05	0.000142	0.00012531	0.0140162	1.16917E-05	1.07563E-05	454.7395056	1020.916799	2.675692682	39298.12795	0.000631595	0.00075165	0.002632643	0.002327695	0.260363827	0.000217184	0.000199809
San Diego	2022	Airport Ground Support - Forklift	Aggregate	600	Diesel	8.6763E-06	1.0325E-05	2.56E-05	0.00016063	0.0123951	4.20831E-06	3.87165E-06	402.1447783	105.1752493	0.267569268	38634.37491	0.000163939	0.000195101	0.000483207	0.003035085	0.234206189	7.95165E-05	7.31552E-05
San Diego	2022	Airport Ground Support - Forklift	Aggregate	75	Diesel	1.3171E-05	1.5675E-05	6.94E-05	0.00011787	0.0082777	8.73662E-06	8.03769E-06	268.5603749	374.4474562	1.070277073	25835.40144	0.00037216	0.000442901	0.001962339	0.003330538	0.233892634	0.00024686	0.000227111
San Diego	2022	Airport Ground Support - Lift	Aggregate	100	Diesel	4.8705E-05	5.7963E-05	0.001068	0.00067125	0.1712196	2.53611E-05	2.33322E-05	5555.0318	3729.051379	8.957765605	320154.9047	0.000111055	0.000132164	0.002436117	0.001530554	0.390405757	5.78271E-05	5.32009E-05
San Diego	2022	Airport Ground Support - Lift	Aggregate	175	Diesel	1.8521E-05	2.2042E-05	0.000239	0.00016071	0.0398325	1.05325E-05	9.68986E-06	1292.322766	598.0752072	1.429430682	74480.29913	0.00018153	0.000216036	0.002341577	0.001575197	0.390408627	0.000103231	9.49727E-05
San Diego	2022	Airport Ground Support - Lift	Aggregate	25	Diesel	5.2391E-07	6.2349E-07	8.25E-06	1.0135E-05	0.0011853	3.65599E-07	3.36351E-07	38.4554791	79.74336096	0.190590758	1993.584024	0.000191841	0.000228306	0.003020337	0.003711114	0.43402376	0.000133873	0.000123163
San Diego	2022	Airport Ground Support - Lift	Aggregate	300	Diesel	1.7335E-05	2.063E-05	0.000234	0.00014652	0.0835826	6.20518E-06	5.70876E-06	2711.745362	698.8036631	1.715316818	156292.7905	8.09647E-05	9.63547E-05	0.001095034	0.000684372	0.390390989	2.89827E-05	2.6664E-05
San Diego	2022	Airport Ground Support - Lift	Aggregate	50	Diesel	1.539E-05	1.8315E-05	0.000179	0.00017706	0.0281796	5.5005E-06	5.06046E-06	914.2561827	1057.648787	2.572975227	47396.93554	0.000237029	0.000282084	0.00275468	0.002727043	0.434017725	8.47178E-05	7.79403E-05
San Diego	2022	Airport Ground Support - Lift	Aggregate	75	Diesel	8.7935E-06	1.0465E-05	0.000167	0.00012107	0.0262957	3.12603E-06	2.87595E-06	853.1351443	698.8036631	1.715316818	49170.17607	0.000130552	0.000155367	0.002481574	0.001797503	0.39039648	4.64103E-05	4.26974E-05
San Diego	2022	Airport Ground Support - Misc - A/C	Aggregate	175	Gasoline	0.00070642	0.00084515	0.045149	0.00490255	1.1600337	8.31621E-05	6.28336E-05	46676.2	4894.65	6.74	636304.5	0.00081044	0.000969601	0.051797546	0.005624444	1.330848001	9.54076E-05	7.20858E-05
San Diego	2022	Airport Ground Support - Misc - A/C	Aggregate	600	Gasoline	0.0003039	0.00036358	0.035214	0.00307387	1.012064	7.46605E-05	5.64101E-05	40416.45	1135.15	2.2	567575	0.000390863	0.000467625	0.045291064	0.003953528	1.301690094	9.60263E-05	7.25532E-05
San Diego	2022	Airport Ground Support - Misc - Air C	Aggregate	175	Gasoline	2.9413E-07	3.5189E-07	3.24E-05	3.5507E-06	0.0010392	7.44969E-08	5.62865E-08	47.45	0	0.17	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Airport Ground Support - Misc - Air C	Aggregate	175	Nat Gas	0	1.5546E-07	0.000138	1.6545E-05	0.0055845	0	0	299.3	7.3	1.28	949	0	0.000119586	0.105945691	0.012726907	4.295731983	0	0
San Diego	2022	Airport Ground Support - Misc - Air S	Aggregate	175	Gasoline	3.0229E-05	3.6165E-05	0.003122	0.00034161	0.0982972	7.04686E-06	5.3243E-06	3912.8	365	4.88	47450	0.000465059	0.000556392	0.048034661	0.005255468	1.51226493	0.000108413	8.19123E-05
San Diego	2022	Airport Ground Support - Misc - Bagg	Aggregate	100	Gasoline	0.00513323	0.00614134	0.411334	0.03225871	10.241598	0.000714069	0.000539519	412690.9	79606.5	90.71	7960650	0.000470722	0.000563167	0.037719767	0.002958157	0.939165319	6.54809E-05	4.94744E-05
San Diego	2022	Airport Ground Support - Misc - Bagg	Aggregate	100	Nat Gas	0	0.0001974	0.073888	0.00849212	1.6822859	0	0	93505.7	15016.1	18.08	1501610	0	9.59641E-05	0.035920204	0.004128402	0.817834655	0	0
San Diego	2022	Airport Ground Support - Misc - Belt	Aggregate	100	Gasoline	0.00124749	0.00149249	0.101526	0.0077748	2.4421875	0.000170275	0.000128652	98612.05	34802.75	42.89	2088165	0.000436111	0.000521758	0.03549241	0.002717988	0.853762438	5.95264E-05	4.49755E-05
San Diego	2022	Airport Ground Support - Misc - Belt	Aggregate	100	Nat Gas	0	1.4289E-05	0.006323	0.00070404	0.1621789	0	0	8942.5	2646.25	4.81	158775	0	6.56952E-05	0.029073539	0.003236959	0.745650254	0	0
San Diego	2022	Airport Ground Support - Misc - Bobt	Aggregate	100	Gasoline	0.000825	0.00098702	0.066109	0.00518455	1.6460065	0.000114764	8.67102E-05	66320.5	12800.55	14.58	1280055	0.000470489	0.000562888	0.037701058	0.002956686	0.938697768	6.54483E-05	4.94498E-05
San Diego	2022	Airport Ground Support - Misc - Bobt	Aggregate	100	Nat Gas	0	2.1158E-06	0.001453	0.00013171	0.0405799	0	0	2230.15	368.65	0.42	36865	0	4.18963E-05	0.028776897	0.002608151	0.803561473	0	0
San Diego	2022	Airport Ground Support - Misc - Carg	Aggregate	100	Gasoline	0.00034359	0.00041106	0.027944	0.00214263	0.6737681	4.69767E-05	3.54935E-05	27199.8	8223.45	11.42	575641.5	0.000435718	0.000521289	0.035436682	0.002717175	0.854439341	5.95736E-05	4.50111E-05
San Diego	2022	Airport Ground Support - Misc - Carg	Aggregate	100	Nat Gas	0	1.9821E-05	0.006794	0.00079542	0.1430096	0	0	7997.15	2007.5	1.94	140525	0	0.000102968	0.035293093	0.004132074	0.74290693	0	0
San Diego	2022	Airport Ground Support - Misc - Carg	Aggregate	100	Gasoline	0.00991242	0.01185911	0.971832	0.04984669	11.447587	0.000798153	0.000603049	492439.75	95396.4	70.59	9062658	0.000798448	0.000955255	0.078281365	0.004015167	0.922106756	6.42915E-05	4.85758E-05
San Diego	2022	Airport Ground Support - Misc - Carg	Aggregate	175	Nat Gas	0	7.0712E-06	0.005348	0.000633	0.2042408	0	0	11026.65	1189.9	7.67	185148.44	0	2.78804E-05	0.021086616	0.002495795	0.805276997	0	0
San Diego	2022	Airport Ground Support - Misc - Cart	Aggregate	15	Gasoline	2.3671E-07	2.5791E-07	1.31E-05	1.4625E-07	5.342E-09	5.37754E-10	4.06304E-10	0.797420128	0	0.019670822	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Airport Ground Support - Misc - Cate	Aggregate	300	Gasoline	0.0014102	0.00168715	0.080098	0.00862165	1.8433801	0.000135987	0.000102746	74722.8	7865.75	7.72	1603826.425	0.000641868	0.000767924	0.036457662	0.003924245	0.839035584	6.18961E-05	4.67659E-05
San Diego	2022	Airport Ground Support - Misc - Cate	Aggregate	300	Nat Gas	0	7.0094E-06	0.004173	0.00048026	0.1411706	0	0	7646.75	642.4	1.45	131692	0	3.88546E-05	0.02313101	0.002662188	0.782541974	0	0
San Diego	2022	Airport Ground Support - Misc - Deic	Aggregate	100	Gasoline	1.1259E-05	1.347E-05	0.000424	7.8183E-05	0.0252099	1.75769E-06	1.32803E-06	970.9	116.8	5.53	10862.4	0.000756666	0.000905267	0.028513334	0.005254221	1.694211164	0.000118124	8.92496E-05
San Diego	2022	Airport Ground Support - Misc - Fork	Aggregate	50	Gasoline	0.00035991	0.0004306	0.036296	0.00084709	0.278762	1.92176E-05	1.452E-05	12767.7	7858.45	10.79	392922.5	0.000668675	0.000799995	0.067433455	0.001573782	0.517904407	3.57039E-05	2.69763E-05
San Diego	2022	Airport Ground Support - Misc - Fork	Aggregate	50	Nat Gas	0	2.5538E-05	0.006932	0.00187548	0.5618319	0	0	29711	18388.7	25.28	919435	0	2.02766E-05	0.0055041	0.001489066	0.446075319	0	0
San Diego	2022	Airport Ground Support - Misc - Fuel	Aggregate	175	Gasoline	3.1163E-06	3.7283E-06	0.000339	3.7614E-05	0.0108789	7.799E-07	5.89258E-07	430.7	138.7	6.66	18031	0.000126166	0.000150943	0.013733505	0.001522851	0.440440603	3.15749E-05	2.38566E-05
San Diego	2022	Airport Ground Support - Misc - Fuel	Aggregate	175	Nat Gas	0	1.8926E-06	0.001054	0.00012021	0.0341784	0	0	1850.55	478.15	0.84	66941	0	2.06391E-05	0.01149585	0.001310936	0.372719638	0	0
San Diego	2022	Airport Ground Support - Misc - Gene	Aggregate	100	Gasoline	0.00011653	0.00013941	0.007478	0.00045954	0.0961216	6.70183E-06	5.0636E-06	4102.6	489.1	0.54	52333.7	0.001625445	0.001944666	0.104305394	0.006410031	1.340794827	9.34834E-05	7.06319E-05
San Diego	2022	Airport Ground Support - Misc - Grou	Aggregate	175	Gasoline	0.0005356	0.00064079	0.059648	0.00518113	1.7346643	0.000124357	9.39586E-05	69244.15	6774.4	8.48	1016160	0.000384773	0.000460338	0.042850404	0.003722076	1.246166848	8.93369E-05	6.7499E-05
San Diego	2022	Airport Ground Support - Misc - Hydr	Aggregate	175	Gasoline	0.0018905	0.00226178	0.092504	0.00983422	1.9181255	0.000137509	0.000103896	78369.15	9909.75	6.47	1204034.625	0.001146202	0.001371304	0.056084879	0.005962437	1.162949617	8.33711E-05	6.29915E-05
San Diego	2022	Airport Ground Support - Misc - Lav (	Aggregate	15	Gasoline	2.038E-08	2.2205E-08	1.13E-06	1.2592E-08	4.606E-10	4.63716E-11	3.50362E-11	0.068758818	0	0.00169625	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Airport Ground Support - Misc - Lav T	Aggregate	175	Gasoline	0.00045133	0.00053996	0.036768	0.00311172	0.9330827	6.68921E-05	5.05407E-05	37551.2	12614.4	10.4	1639872	0.000200911	0.000240368	0.01636745	0.001385204	0.415367992	2.97775E-05	2.24985E-05
San Diego	2022	Airport Ground Support - Misc - Lav T	Aggregate	175	Nat Gas	0	9.0312E-07	0.000562	6.5005E-05	0.0194906	0	0	1054.85	295.65	0.75	38434.5	0	1.71533E-05	0.010666948	0.001234665	0.370191996	0	0
San Diego	2022	Airport Ground Support - Misc - Lift	Aggregate	100	Gasoline	0.00063043	0.00075424	0.034402	0.0031563	0.8350346	5.82206E-05	4.39889E-05	33736.95	7139.4	18.94	713940	0.000644615	0.00077121	0.03517539	0.003227299	0.853818617	5.95303E-05	4.49784E-05
San Diego	2022	Airport Ground Support - Misc - Lift	Aggregate	100	Nat Gas	0	1.6316E-06	0.000872	9.4095E-05	0.0247163	0	0	1346.85	240.9	0.7	24090	0	4.94425E-05	0.026412932	0.002851353	0.748979046	0	0
San Diego	2022	Airport Ground Support - Misc - Mair	Aggregate	175	Gasoline	0.00034368	0.00041118	0.031095	0.0029624	0.8854346	6.34762E-05	4.79598E-05	35386.75	5989.65	13.29	778654.5	0.000322207	0.000385486	0.029151748	0.00277729	0.830107873	5.95099E-05	4.4963E-05
San Diego	2022	Airport Ground Support - Misc - Othe	Aggregate	50	Gasoline	0.00028316	0.00033877	0.021316	0.00062622	0.2131573	1.46949E-05	1.11028E-05	9387.8	3598.9	19.63	179945	0.001148711	0.001374305	0.086475623	0.002540434	0.864735664	5.96141E-05	4.50418E-05
San Diego	2022	Airport Ground Support - Misc - Othe	Aggregate	50	Nat Gas	0	2.5913E-05	0.003237	0.00103659	0.1927419	0	0	10289.35	3777.75	3.69	188887.5	0	0.000100148	0.012508609	0.004006132	0.744896199	0	0
San Diego	2022	Airport Ground Support - Misc - Pass	Aggregate	175	Gasoline	0.00010331	0.0001236	0.009424	0.00103791	0.2859146	2.0497E-05	1.54866E-05	11388	1700.9	9.07	212782.59	0.000354419	0.000424023	0.032330462	0.003560797	0.980896327	7.03198E-05	5.31305E-05
San Diego	2022	Airport Ground Support - Misc - Pass	Aggregate	175	Nat Gas	0	2.1354E-08	1.92E-05	2.3068E-06	0.0007813	0	0	51.1	0	0.31	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Airport Ground Support - Misc - Serv	Aggregate	300	Gasoline	0.00175025	0.00209398	0.106376	0.01151039	2.5688013	0.000189502	0.000143179	103776.8	32276.95	38.35	5809851	0.000219917	0.000263106	0.013365987	0.001446265	0.322766444	2.38106E-05	1.79903E-05
San Diego	2022	Airport Ground Support - Misc - Serv	Aggregate	300	Nat Gas	0	2.2882E-05	0.012571	0.00113223	0.3586578	0	0	19640.65	4894.65	3.75	881037	0	1.89592E-05	0.010415657	0.000938134	0.297172787	0	0
San Diego	2022	Airport Ground Support - Misc - Swe	Aggregate	100	Gasoline	1.4928E-05	1.7859E-05	0.000809	7.5504E-05	0.020131	1.40358E-06	1.06049E-06	813.95	313.9	0.86	16730.87	0.000651329	0.000779243	0.03530386	0.003294386	0.878355215	6.1241E-05	4.6271E-05
San Diego	2022	Airport Ground Support - Misc - Swe	Aggregate	50	Nat Gas	0	2.0307E-07	5.1E-05	1.5738E-05	0.0042672	0	0	219	87.6	0.31	3942	0	3.76058E-05	0.009444614	0.002914442	0.790220913	0	0
San Diego	2022	Airport Ground Support - Misc - Wat	Aggregate	175	Gasoline	2.9788E-05	3.5638E-05	0.002448	0.00026869	0.0714109	5.1194E-06	3.86799E-06	2850.65	1047.55	3.38	157132.5	0.000138387	0.000165564	0.011371086	0.001248269	0.331758023	2.37835E-05	1.79698E-05
San Diego	2022	Airport Ground Support - Other	Aggregate	100	Diesel	0.00010426	0.00012408	0.001652	0.00125787	0.2541236	6.15044E-05	5.6584E-05	8244.761624	5492.960441	11.37085871	474444.1346	0.000160415	0.000190907	0.002541833	0.001935418	0.391005481	9.46332E-05	8.70626E-05
San Diego	2022	Airport Ground Support - Other	Aggregate	175	Diesel	0.00018103	0.00021544	0.003578	0.00177472	0.6308647	7.42316E-05	6.8293E-05	20467.7109	7332.293883	15.3606337	1179812.036	0.000112011	0.000133302	0.002213687	0.001098098	0.390342892	4.59302E-05	4.22558E-05
San Diego	2022	Airport Ground Support - Other	Aggregate	25	Diesel	1.1906E-06	1.4169E-06	1.94E-05	1.4788E-05	0.0028922	6.43147E-08	5.91696E-08	93.83378412	194.6082434	0.398977499	4865.206084	0.000178641	0.000212598	0.002915568	0.00221885	0.433958114	9.65011E-06	8.8781E-06
San Diego	2022	Airport Ground Support - Other	Aggregate	300	Diesel	0.00021807	0.00025952	0.00144	0.0024811	0.6725103	8.58032E-05	7.8939E-05	21818.85536	5580.819693	11.76983621	1257700.361	0.000126572	0.000150631	0.00083577	0.001440092	0.390341387	4.98023E-05	4.58181E-05
San Diego	2022	Airport Ground Support - Other	Aggregate	50	Diesel	0.00043013	0.00051189	0.002757	0.00249991	0.3461047	0.000149802	0.000137818	11228.98639	16893.1377	35.50899738	581985.9458	0.000539522	0.000642076	0.003458048	0.003135695	0.434128084	0.000187901	0.000172869
San Diego	2022	Airport Ground Support - Other	Aggregate	600	Diesel	0.00011778	0.00014016	0.000986	0.00113506	0.419492	4.62991E-05	4.25951E-05	13609.95752	2184.620303	4.588241234	784514.3713	0.000109591	0.000130422	0.000917168	0.001056189	0.390342365	4.30818E-05	3.96353E-05

San Diego	2022	Airport Ground Support - Other	Aggregate	75	Diesel	9.0563E-05	0.00010778	0.001195	0.00102169	0.1818368	5.52489E-05	5.0829E-05	5899.493176	5138.22871	10.97188121	340067.8015	0.000194406	0.000231359	0.00256493	0.002193194	0.390336364	0.000118599	0.000109111
San Diego	2022	Airport Ground Support - Passenger	Aggregate	100	Diesel	6.3658E-07	7.5758E-07	2.38E-06	5.9636E-06	0.000253	3.16708E-07	2.91371E-07	8.20712913	4.052783836	0.108259351	405.2783836	0.001146621	0.001364574	0.004282258	0.010741833	0.455646092	0.000570464	0.000524827
San Diego	2022	Airport Ground Support - Passenger	Aggregate	175	Diesel	1.3127E-06	1.5622E-06	1.03E-05	1.6934E-05	0.0016531	1.02242E-06	9.40629E-07	53.63167953	23.83990492	0.108259351	2622.389541	0.000365422	0.000434883	0.002862566	0.004714031	0.460165459	0.000284614	0.000261845
San Diego	2022	Airport Ground Support - Passenger	Aggregate	25	Diesel	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Airport Ground Support - Passenger	Aggregate	300	Diesel	4.2865E-07	5.1013E-07	2.42E-06	8.1045E-06	0.0013787	1.73115E-07	1.59266E-07	44.72885376	8.105567673	0.216518702	2208.767191	0.000141669	0.000168597	0.000800447	0.00267853	0.455646092	5.72148E-05	5.26376E-05
San Diego	2022	Airport Ground Support - Passenger	Aggregate	50	Diesel	2.5349E-06	3.0167E-06	1.93E-05	2.3901E-05	0.0035132	1.21609E-06	1.1188E-06	113.9813804	116.5771351	2.056927674	5039.994299	0.000367158	0.000436948	0.002789542	0.003461863	0.508854583	0.00017614	0.000162048
San Diego	2022	Airport Ground Support - Passenger	Aggregate	600	Diesel	1.3594E-07	1.6178E-07	2.72E-06	7.5679E-07	0.0015557	2.53407E-08	2.33135E-08	50.47384415	8.105567673	0.216518702	2492.462059	3.98137E-05	4.73816E-05	0.000797866	0.000221651	0.455646092	7.42188E-06	6.82813E-06
San Diego	2022	Airport Ground Support - Passenger	Aggregate	75	Diesel	4.939E-07	5.8778E-07	2.18E-05	1.1692E-05	0.003754	7.55178E-08	6.94764E-08	121.7937963	109.4251636	2.923002484	6014.331213	5.99476E-05	7.13426E-05	0.002645565	0.0014191	0.455646092	9.16611E-06	8.43282E-06
San Diego	2022	Cargo Handling Equipment - Port Cor	Aggregate	175	Diesel	4.7574E-06	5.6618E-06	0.000167	8.024E-05	0.0321014	6.82204E-07	6.27627E-07	1041.493835	211.5682685	1.858085658	36601.31045	9.48855E-05	0.000112922	0.003336546	0.001600349	0.640250449	1.36063E-05	1.25178E-05
San Diego	2022	Cargo Handling Equipment - Port Cor	Aggregate	300	Diesel	8.3221E-05	9.904E-05	0.000527	0.00085315	0.2217062	1.48225E-05	1.36367E-05	7193.014808	942.5872371	1.449660463	235646.8093	0.000257807	0.000306811	0.00163371	0.002642948	0.686814118	4.59181E-05	4.22446E-05
San Diego	2022	Cargo Handling Equipment - Port Cor	Aggregate	600	Diesel	8.4741E-05	0.00010085	0.000656	0.00088824	0.3366097	1.19054E-05	1.09529E-05	10920.93048	1084.167319	1.667404815	357775.2152	0.000172904	0.000205771	0.00133849	0.00181235	0.686814118	2.42916E-05	2.23482E-05
San Diego	2022	Cargo Handling Equipment - Port For	Aggregate	100	Diesel	3.4727E-05	4.1328E-05	0.000718	0.0001236	0.1179904	5.21668E-06	4.79935E-06	3828.068807	2437.954581	1.736607141	221853.8668	0.000114267	0.000135987	0.002362217	0.000406711	0.388242036	1.71653E-05	1.5792E-05
San Diego	2022	Cargo Handling Equipment - Port For	Aggregate	175	Diesel	0.00107521	0.00127959	0.012152	0.00949675	1.94297	0.000388503	0.000357423	63037.52238	29049.22164	20.69238128	4061444.301	0.000193257	0.000229992	0.002184185	0.001706936	0.349227518	6.98291E-05	6.42428E-05
San Diego	2022	Cargo Handling Equipment - Port For	Aggregate	300	Diesel	0.00037333	0.0004443	0.00304	0.00204437	1.4951727	3.61171E-05	3.32277E-05	48509.23035	14882.86203	10.60138063	3125401.026	8.71998E-05	0.000103775	0.000710071	0.000477503	0.349227518	8.43588E-06	7.76101E-06
San Diego	2022	Cargo Handling Equipment - Port For	Aggregate	75	Diesel	0.00047182	0.00056151	0.003359	0.00435321	0.4924289	0.000245008	0.000225407	15976.31219	12859.71398	9.160249049	925899.4067	0.000371997	0.000442707	0.002648513	0.003432169	0.388242036	0.00019317	0.000177716
San Diego	2022	Cargo Handling Equipment - Port Oth	Aggregate	300	Diesel	4.2972E-05	5.1141E-05	0.000282	0.00044817	0.1032952	1.01819E-05	9.36736E-06	3351.300142	635.0614843	1.234947562	127012.2969	0.000246982	0.000293929	0.001621295	0.002575843	0.59368678	5.85203E-05	5.38386E-05
San Diego	2022	Cargo Handling Equipment - Port Oth	Aggregate	50	Diesel	8.9635E-05	0.00010667	0.000773	0.00073447	0.1151018	1.29869E-05	1.19479E-05	3734.351171	7072.630941	13.75351608	127307.3569	0.000513982	0.000611682	0.004434939	0.00421154	0.660011462	7.44686E-05	6.85111E-05
San Diego	2022	Cargo Handling Equipment - Port Yar	Aggregate	175	Diesel	4.6414E-05	5.5236E-05	0.003654	0.00029989	0.6596402	1.00824E-05	9.2758E-06	21401.29829	6095.774402	7.386983641	1060664.746	3.19441E-05	3.80161E-05	0.002515083	0.000206398	0.453995773	6.93918E-06	6.38404E-06
San Diego	2022	Cargo Handling Equipment - Port Yar	Aggregate	300	Diesel	0.00024344	0.00028971	0.006634	0.00150338	3.5142898	4.66628E-05	4.29297E-05	114017.2616	28954.92841	35.08817229	5650782.87	3.14484E-05	3.74262E-05	0.00085706	0.000194215	0.453995773	6.02816E-06	5.54591E-06
San Diego	2022	Commercial Harbor Craft - AE - Barg	Aggregate	175	Diesel	5.3468E-05	6.3758E-05	0.000274	0.00090941	0.1191435	0.000034084	3.26064E-05	3865.059189	1589.276547	19.79999982	74002.03242	0.000527437	0.000628949	0.002706687	0.008971	1.175302336	0.000336225	0.000321649
San Diego	2022	Commercial Harbor Craft - AE - Barg	Aggregate	25	Diesel	0.00003046	0.00003625	0.000152	0.00055969	0.0894254	0.00002305	0.00002206	2900.990722	9068.641601	8.800000191	44254.97343	0.000502447	0.000597955	0.002507289	0.009232184	1.47510043	0.000380217	0.000363887
San Diego	2022	Commercial Harbor Craft - AE - Barg	Aggregate	300	Diesel	0.0000064	0.00000762	3.63E-05	0.00014107	0.0222719	0.00000354	0.00000339	722.5078735	176.5862885	2.200000048	14003.29284	0.000333636	0.000397235	0.001892341	0.007353855	1.161046793	0.000184542	0.000176723
San Diego	2022	Commercial Harbor Craft - AE - Barg	Aggregate	600	Diesel	0.00040081	0.000477	0.002157	0.00733318	1.0649791	0.000253632	0.000242413	34548.29465	7154.653767	11.00000006	668838.3652	0.000437461	0.000520615	0.002354404	0.008003762	1.162365684	0.000276825	0.000264581
San Diego	2022	Commercial Harbor Craft - AE - Barg	Aggregate	800	Diesel	0.00024244	0.00028853	0.001455	0.00435512	0.6616758	0.000196123	0.000187494	21464.99219	2267.1604	2.200000048	414890.3822	0.000426579	0.000507664	0.002560464	0.007662841	1.164219078	0.000345079	0.000329896
San Diego	2022	Commercial Harbor Craft - AE - Barg	Aggregate	9999	Diesel	0.00092144	0.00109658	0.003211	0.01133787	1.0582003	0.000349325	0.000333955	34328.38732	2620.332969	6.600000049	682448.3639	0.000985649	0.001172992	0.003435077	0.01212787	1.131933578	0.000373665	0.000357224
San Diego	2022	Commercial Harbor Craft - AE - Com	Aggregate	100	Diesel	0.00275586	0.00327968	0.008251	0.0216846	1.5873363	0.00136134	0.00130147	51493.74469	24496.02655	20.58490512	902867.0888	0.002228212	0.002651734	0.006670999	0.017532767	1.283417586	0.001100691	0.001052284
San Diego	2022	Commercial Harbor Craft - AE - Com	Aggregate	175	Diesel	0.00262113	0.00311936	0.010166	0.028356	2.114325	0.001262423	0.00120687	68589.44189	24496.02733	20.58490547	1321349.137	0.001448087	0.001723342	0.005616327	0.015665714	1.168091929	0.000697445	0.000666754
San Diego	2022	Commercial Harbor Craft - AE - Com	Aggregate	25	Diesel	0.00018955	0.00022557	0.000578	0.00092448	0.0900525	6.99259E-05	6.67486E-05	2921.333385	7537.237869	6.333816041	48694.32284	0.002841565	0.00338165	0.008665679	0.013859358	1.350020928	0.001048293	0.00100066
San Diego	2022	Commercial Harbor Craft - AE - Com	Aggregate	300	Diesel	0.00149508	0.00177923	0.007015	0.02373844	2.6862632	0.000901205	0.000861554	87143.31635	15074.47949	12.66763513	1684493.859	0.000647914	0.000771055	0.003040011	0.010287397	1.16413137	0.00039055	0.000373367
San Diego	2022	Commercial Harbor Craft - AE - Com	Aggregate	50	Diesel	0.00270308	0.00321697	0.006958	0.00879682	0.7686816	0.000712772	0.00068142	24936.29758	26380.33618	22.168359	430821.0877	0.004580196	0.005450965	0.011790113	0.014905674	1.302483926	0.001207748	0.001154624
San Diego	2022	Commercial Harbor Craft - AE - Com	Aggregate	75	Diesel	0.00116732	0.00138924	0.003415	0.00829888	0.5349727	0.000575316	0.00055002	17354.70036	11305.85924	9.500725909	302895.2822	0.002813329	0.003348166	0.00823035	0.020000915	1.289323688	0.001386553	0.00132559
San Diego	2022	Commercial Harbor Craft - AE - Com	Aggregate	175	Diesel	0.00289412	0.00344421	0.011431	0.03960165	2.9612421	0.001546365	0.001478279	96063.72946	28761.93797	17.427947	1845184.399	0.001144984	0.001362615	0.004522186	0.01566738	1.171539686	0.00061178	0.000584843
San Diego	2022	Commercial Harbor Craft - AE - Com	Aggregate	25	Diesel	1.63E-05	1.94E-05	0.000126	0.00026786	0.0356178	1.4E-05	1.33E-05	1155.452289	2212.45633	1.340611	20089.10339	0.000592311	0.000704959	0.004585033	0.009733489	1.294281651	0.000508734	0.000483297
San Diego	2022	Commercial Harbor Craft - AE - Com	Aggregate	300	Diesel	0.00088111	0.00104859	0.004288	0.02070357	2.3372099	0.000618274	0.00059107	75819.90687	11062.2827	6.703056	1465500.126	0.0004389	0.000522327	0.002136118	0.010312932	1.164219077	0.000307977	0.000294426
San Diego	2022	Commercial Harbor Craft - AE - Com	Aggregate	50	Diesel	0.00180896	0.00215292	0.006005	0.01051351	1.2110727	0.000656769	0.000628056	39287.62215	37611.7666	22.79039299	670976.246	0.001968089	0.002342304	0.006532826	0.011438354	1.317607128	0.000714543	0.000683304
San Diego	2022	Commercial Harbor Craft - AE - Com	Aggregate	600	Diesel	0.00026087	0.00031046	0.001603	0.00482532	0.7609148	0.000206488	0.000197403	24684.34019	2212.45633	1.340611	477116.1846	0.000399138	0.000475007	0.002452656	0.007382859	1.16421909	0.000315932	0.000302032
San Diego	2022	Commercial Harbor Craft - AE - Com	Aggregate	75	Diesel	0.00560615	0.00667182	0.017535	0.04293761	4.2875428	0.003049556	0.002915433	139089.3905	86285.81447	52.28384163	2450828.021	0.001669838	0.001987259	0.005222872	0.012789332	1.277081145	0.000908336	0.000868386
San Diego	2022	Commercial Harbor Craft - AE - Crew	Aggregate	100	Diesel	0.00031233	0.0003717	0.001209	0.00655158	0.903519	0.000301176	0.000287924	29310.47266	15178.02637	7.213346004	509602.251	0.000447408	0.000532452	0.001732029	0.009385077	1.294281753	0.000431432	0.000412448
San Diego	2022	Commercial Harbor Craft - AE - Crew	Aggregate	25	Diesel	1.3307E-05	1.5837E-05	7.04E-05	0.0002629	0.0420894	1.0513E-05	1.0051E-05	1365.396353	7589.013065	3.606672974	20983.62147	0.000462938	0.000550954	0.002449844	0.009146038	1.464251403	0.000365737	0.000349665
San Diego	2022	Commercial Harbor Craft - AE - Crew	Aggregate	50	Diesel	0.000092	0.0001095	0.000452	0.00154142	0.2256192	0.0000643	0.0000614	7319.166504	7589.013184	3.606673002	119906.4143	0.000560103	0.000666663	0.002750254	0.009384302	1.373588199	0.000391464	0.000373808
San Diego	2022	Commercial Harbor Craft - AE - Crew	Aggregate	75	Diesel	0.00010683	0.00012718	0.000503	0.0021533	0.3020463	0.00007227	0.0000691	9798.487549	8309.85022	10.82001901	181955.1507	0.0004286	0.000510251	0.002016151	0.008638996	1.211803028	0.000289946	0.000277228
San Diego	2022	Commercial Harbor Craft - AE - Dred	Aggregate	175	Diesel	0.00020946	0.00024927	0.001338	0.00408096	0.6772883	0.00016838	0.000160971	21971.46962	5095.201366	2.588235	424679.9063	0.000360041	0.000428477	0.002300479	0.007014934	1.164219137	0.000289435	0.0002767
San Diego	2022	Commercial Harbor Craft - AE - Excur	Aggregate	100	Diesel	0.00021397	0.00025469	0.000917	0.00443248	0.6201796	0.000180351	0.000172386	20118.84375	10609.93848	10.2048521	361305.5316	0.000432306	0.000514595	0.001853468	0.008955611	1.253042329	0.00036439	0.000348297
San Diego	2022	Commercial Harbor Craft - AE - Excur	Aggregate	175	Diesel	0.00032532	0.00038717	0.001665	0.00557488	0.8065999	0.0001854	0.00017734	26166.38505	8440.119596	10.20485211	492909.2403	0.000481801	0.000573402	0.002465231	0.008256406	1.194576828	0.000274578	0.000262641
San Diego	2022	Commercial Harbor Craft - AE - Excur	Aggregate	300	Diesel	0.00038361	0.00045653	0.002297	0.00784247	1.2513103	0.000259524	0.000248079	40592.94531	10609.93848	10.2048521	785679.251	0.000356424	0.000424173	0.002134268	0.007286696	1.162632911	0.000241132	0.000230498
San Diego	2022	Commercial Harbor Craft - AE - Excur	Aggregate	50	Diesel	0.00048649	0.00057911	0.001413	0.00220783	0.2356182	0.00015172	0.000145051	7643.536202	7581.445561	17.85849093	130103.4493	0.002729649	0.00324934	0.007930254	0.012387954	1.322034793	0.000851288	0.000813871
San Diego	2022	Commercial Harbor Craft - AE - Excur	Aggregate	600	Diesel	0.00040862	0.0004863	0.002512	0.00756247	1.19335	0.000338342	0.000323455	38712.69141	5304.969238	5.102426052	748265.9384	0.000398648	0.000474424	0.00245073	0.007377859	1.164219062	0.000330083	0.000315559
San Diego	2022	Commercial Harbor Craft - AE - Excur	Aggregate	75	Diesel	0.00007088	8.435E-05	0.000341	0.00147125	0.2133704	0.00004852	0.00004639	6921.81079	5304.969215	5.102426029	128274.1562	0.000403374	0.00048003	0.001939488	0.008372801	1.214277354	0.000276124	0.000264003
San Diego	2022	Commercial Harbor Craft - AE - Ferry	Aggregate	100	Diesel	0.00013057	0.00015539	0.000366	0.00091983	0.0427814	5.63312E-05	5.37808E-05	1387.843131	824.8804046	1.000000009	24324.07467	0.003918579	0.004663387	0.010973225	0.027605464	1.283930106	0.001690579	0.001614038
San Diego	2022	Commercial Harbor Craft - AE - Ferry	Aggregate	300	Diesel	2.7483E-05	3.2756E-05	9.58E-05	0.0002488	0.0112162	1.192E-05	1.14104E-05	363.8573144	94.43452588	0.999999979	7034.995157	0.002851848	0.003399001	0.009937325	0.025817425	1.163869531	0.001236906	0.001184024
San Diego	2022	Commercial Harbor Craft - AE - Ferry	Aggregate	25	Diesel	1.1733E-05	1.3958E-05	3.17E-05	4.1507E-05	0.0029825	3.78167E-06	3.61722E-06	96.74790245	213.1779598	1.000000012	1654.260992	0.005177421	0.00615935	0.013973676	0.018316579	1.316118261	0.001668793	0.001596224
San Diego	2022	Commercial Harbor Craft - AE - Ferry	Aggregate	50	Diesel	4.4661E-05	5.308E-05	0.000214	0.00037466	0.0447535	2.31998E-05	2.22272E-05	1451.819945	1546.832367	2.000000047	25124.46838	0.001297635	0.001542272	0.00622751	0.010885961	1.300328355	0.000674078	0.000645819
San Diego	2022	Commercial Harbor Craft - AE - Rese	Aggregate	175	Diesel	0.00017496	0.00020822	0.000611	0.00159013	0.0738694	7.59526E-05	7.2672E-05	2396.349193	842.52608	0.812500007	46128.30352	0.002768848	0.003295135	0.009671154	0.025164499	1.169014241	0.001201982	0.001150065
San Diego	2022	Commercial Harbor Craft - AE - Rese	Aggregate	25	Diesel	0.00000269	0.0000032	1.91E-05	0.0000499	0.0065428	0.00000214	0.00000205	212.2506409	421.2630615	0.40625	3690.264734	0.00053213	0.000633017	0.00377832	0.009871108	1.294281816	0.00042333	0.000405526
San Diego	2022	Commercial Harbor Craft - AE - Rese	Aggregate	300	Diesel	0.00019319	0.00022991	0.000673	0.00174634	0.0788454	8.37201E-05	8.00468E-05	2557.773571	421.2630453	0.406250008	49449.54041	0.002851908	0.003394002	0.009933918	0.025780341	1.163957731	0.00123592	0.001181693
San Diego	2022	Commercial Harbor Craft - AE - Rese	Aggregate	600	Diesel	0.00072867	0.00086718	0.002368	0.00627397	0.3133245	0.000317265	0.000303314	10164.35591	1263.789158	1.218750009	196506.5788	0.002706934	0.003221478	0.008797721	0.023307083	1.163965508	0.001178604	0.001126777
San Diego	2022	Commercial Harbor Craft - AE - Rese	Aggregate	75	Diesel	0.0001056	0.00012567	0.000296	0.00074913	0.0356691	4.56438E-05	4.35938E-05	1157.115682	842.52608	0.812500007	20296.45278	0.003798052	0.004520069	0.010658953	0.026943902	1.282904442	0.001641663	0.001567934
San Diego	2022	Commercial Harbor Craft - AE - Rese	Aggregate	9999	Diesel	0.00182321	0.00216977	0.005314	0.0138509	0.8969212	0.00072357	0.000691733	29096.4375	1263.789185	1.21875	562396.263	0.002366553	0.002816394	0.006897733	0.01797871	1.164219131	0.000939206	0.000897881
San Diego	2022	Commercial Harbor Craft - AE - Tugb	Aggregate	175	Diesel	0.00028907	0.00034402	0.001751	0.00599587	0.9940735	0.000192557	0.000184093	32248.0918	12771.67188	5.25	610830.75	0.000345465	0.000411131	0.002092511	0.007165627	1.188010985	0.000230124	0.000220008
San Diego	2022	Commercial Harbor Craft - AE - Tugb	Aggregate	100	Diesel	0.00022056	0.00026244	0.001014	0.00464375	0.6728328	0.00016666	0.00015942	21826.93171	11238.13113	6.166668009	398138.8823	0.000404404	0.000481192	0.00185876	0.008514454	1.233659849	0.000305576	0.000292302
San Diego	2022	Commercial Harbor Craft - AE - Tugb	Aggregate	175	Diesel	0.00095715	0.00113896	0.004531	0.01446206	1.8178046	0.000529599	0.00050632	58970.21837	22785.82016	15.41666623	1118740.365	0.000624559	0.000743192	0.002956801	0.009436775	1.186153087	0.000345574	0.000330383
San Diego	2022	Commercial Harbor Craft - AE - Tugb	Aggregate	25	Diesel	4.0631E-05	4.8343E-05	0.000208	0.00077208	0.1235683	3.1348E-05	2.9983E-05	4008.597519	14047.66058	7.708332986	61332.08723	0.000483607	0.000575398	0.002473203	0.009189581	1.470760772	0.000373117	0.00035687
San Diego	2022	Commercial Harbor Craft - AE - Tugb	Aggregate	300	Diesel	4.7683E-05	5.6737E-05	0.000145	0.00038436	0.0267283	1.85568E-05	1.77499E-05	867.0807559	235.9406674	1.541667055	16761.22499	0.002076732	0.00247106	0.006305306	0.01673992	1.164095875	0.000808201	0.00077306
San Diego	2022	Commercial Harbor Craft - AE - Tugb	Aggregate	50	Diesel	5.525E-05	6.572E-05	0.000378	0.00090404	0.1164976	4.18E-05	4.003E-05	3779.223192	5855.004626	4.625000015	65514.34282	0.000615629	0.000732292	0.004213674	0.010073299	1.298086052	0.000465761	0.000446038
San Diego	2022	Commercial Harbor Craft - AE - Tugb	Aggregate	75	Diesel	0.0001149	0.0001367	0.000474	0.00236807	0.3265094	0.0001016	0.0000971	10592.07812	8428.59668	4.625	188154.3635	0.000445788	0.000530368	0.001837978	0.009187602	1.26678883	0.000394187	0.000376728
San Diego	2022	Commercial Harbor Craft - AE - Work	Aggregate	175	Diesel	0.00057191	0.00068062	0.002045	0.00568742	0.273902	0.00026164	0.000250128	8885.474861	4401.615285	6.136045987	171495.7371	0.002434426	0.002897164	0.008705796	0.024209428	1.165909026	0.001113714	0.001064712
San Diego	2022	Commercial Harbor Craft - AE - Work	Aggregate	300	Diesel	0.0008288	0.00098631	0.003732	0.01154503	1.5847762	0.000420503	0.000401961	51410.6956	13204.84529	18.40813718	994611.3922	0.000608303	0.000723903	0.002739298	0.00847353	1.16315441	0.00030863	0.000295021
San Diego	2022	Commercial Harbor Craft - AE - Work	Aggregate	600	Diesel	0.001036	0.00123292	0.003514	0.00936993	0.4236739	0.000467681	0.000447105	13744.12745	2200.807639	3.068022941	265747.527	0.002845867	0.003386806	0.009652431	0.025738911	1.163818584	0.001284705	0.001228183
San Diego	2022	Commercial Harbor Craft - ME - Com	Aggregate	175	Diesel	0.00143614	0.00170912	0.00506	0.01429329	0.7669436	0.000631451	0.000603611	24879.9166	12629.57275	12.66763206	476119.1142	0.002201934	0.002620473	0.007757431	0.021914902	1.175900717	0.000968159	0.000925474
San Diego	2022	Commercial Harbor Craft - ME - Com	Aggregate	300	Diesel	0.00711183	0.00846335	0.025086	0.08764893	6.8313458	0.002972249	0.002841301	221611.2477	69462.66049	69.67198602	4285073.432	0.001211563	0.001441807	0.004273582	0.014931768	1.163779924	0.000506349	0.000484041
San Diego	2022	Commercial Harbor Craft - ME - Com	Aggregate	50	Diesel	0.0000136	0.0000162	6.86E-05	0.00026218	0.0393	0.0000105	0.00001	1274.904785	1578.696655	1.583454013	20886.15611	0.000475339	0.000566212	0.002397665	0.009163658	1.37358819	0.00036699	0.000349514
San Diego	2022	Commercial Harbor Craft - ME - Com	Aggregate	600	Diesel	0.01215477	0.01446519	0.040519	0.14074114	11.059623	0.005116074	0.004890916	358778.0445	69462.66376	69.67198926	6939326.587	0.001278652	0.001521702	0.004262541	0.01480562	1.163445017	0.000538198	0.000514512
San Diego	2022	Commercial Harbor Craft - ME - Com	Aggregate	75	Diesel	0.000099	0.00011786	0.000299	0.00041886	0.045344	0.0000512	0.000049	1470.974609	1578.696655	1.583454013	25574.88655	0.002825819	0.00336418	0.008525667	0.01195584	1.294281612	0.001461434	0.001398638
San Diego	2022	Commercial Harbor Craft - ME - Com	Aggregate	800	Diesel	0.00519018	0.00617676	0.017475	0.05484918	3.4368452	0.002285243	0.002184653	111492.4589	12629.57659	12.66763598	2156816.024	0.001756677	0.002090597	0.005914675	0.018564357	1.163241084	0.000773468	0.000739422
San Diego	2022	Commercial Harbor Craft - ME - Com	Aggregate	9999	Diesel	0.00284964	0.0033913	0.008359	0.02182222	1.4275578	0.001124248	0.001074781	46310.47684	3157.394064	3.166909	895121.2498	0.00232397	0.002765717	0.006817114	0.017796715	1.164219059	0.00091686	0.000876518
San Diego	2022	Commercial Harbor Craft - ME - Com	Aggregate	175	Diesel	3.75E-05	4.46E-05	0.000125	0.00078298	0.0808088	1.65E-05	1.57E-05	2621.466592	1599.417381	1.340611	50669.53886	0.000540265	0.000642556	0.001808031	0.01128044	1.164219079	0.000237717	0.000226191
San Diego	2022	Commercial Harbor Craft - ME - Com	Aggregate	300	Diesel	0.00336686	0.00400677	0.012198	0.04909239	4.4099032	0.001377672	0.001316958	143058.8049	38386.02528	32.174672	2766096.417	0.000888548	0.001057426	0.003219248	0.012955963	1.163816749	0.000363581	0.000347558
San Diego	2022	Commercial Harbor Craft - ME - Com	Aggregate	600	Diesel	0.02262962	0.02693113	0.079837	0.31892841	26.237972	0.009821139	0.009388972	851168.9851	139149.3449	116.6331887	16459829.25	0.001003633	0.001194406	0.003540808	0.014144602	1.163664539	0.000435571	0.000416405
San Diego	2022	Commercial Harbor Craft - ME - Com	Aggregate	800	Diesel	0.00609075	0.00724849	0.023666	0.09848665	7.5078762	0.002825097	0.002700793	243558.1336	25590.68404	21.449782	4707661.793	0.00094447	0.001123998	0.003669738	0.015271967	1.164219075	0.000438078	0.000418802
San Diego	2022	Commercial Harbor Craft - ME - Crew	Aggregate	175	Diesel	0.00032674	0.00038879	0.001173	0.00644507	0.7146156	0.00014122	0.00013494	23182.37897	13808.51749	10.82001917	441251.6363	0.000540554	0.000643205	0.001941141	0.010662632	1.182249142	0.000233632	0.000223243
San Diego	2022	Commercial Harbor Craft - ME - Crew	Aggregate	300	Diesel	0.00026727	0.00031808	0.000891	0.00555408	0.5688202	0.000118129	0.000112931	18452.72461	6532.365234	3.606673002	356667.1492	0.000547033	0.000651014	0.001823752	0.011367685	1.164219165	0.000241778	0.000231139
San Diego	2022	Commercial Harbor Craft - ME - Crew	Aggregate	600	Diesel	0.00668231	0.0079525	0.020513	0.09785586	8.7701961	0.00289101	0.002763805	284508.23	46105.25865	28.853386	5499173.882	0.000887058	0.001055673	0.002723059	0.012990093	1.164219081	0.000383774	0.000366887
San Diego	2022	Commercial Harbor Craft - ME - Crew	Aggregate	800	Diesel	0.00027884	0.00033184	0.001024	0.0063464	0.8735074	0.0000962	0.000092	28336.88672	2975.144287	14.4266901	549211.6235	0.000370625	0.000441076	0.001361182	0.008435493	1.16104686	0.000127867	0.000122284
San Diego	2022	Commercial Harbor Craft - ME - Excu	Aggregate	175	Diesel	0.0000123	0.0000146	5.51E-05	0.00031016	0.0274799	0.00000662	0.00000633	891.4572754	514.3494873	2.551213026	17230.70914	0.000521104	0.000618547	0.002334379	0.013140222	1.164219085	0.000280464	0.000268178
San Diego	2022	Commercial Harbor Craft - ME - Excu	Aggregate	300	Diesel	0.00228538	0.00271986	0.007981	0.02607851	1.984105	0.0009512	0.000909291	64365.06282	20743.87487	33.16576903	1246253.62	0.001338673	0.001593174	0.004674696	0.015275634	1.162200577	0.000557171	0.000532622
San Diego	2022	Commercial Harbor Craft - ME - Excu	Aggregate	50	Diesel	0.00000319	0.0000038	2.45E-05	0.0000501	0.0065988	0.00000269	0.00000257	214.06633	514.3494873	2.551213026	3721.833041	0.000625686	0.000745332	0.004805428	0.00982661	1.294281766	0.000527616	0.00050408
San Diego	2022	Commercial Harbor Craft - ME - Excu	Aggregate	600	Diesel	0.00417684	0.0049708	0.013961	0.07080475	6.9112691	0.001826679	0.001746225	224203.9877	38427.22379	58.67789558	4336940.157	0.000703052	0.000836691	0.002349926	0.011917958	1.163314742	0.000307469	0.000293927
San Diego	2022	Commercial Harbor Craft - ME - Excu	Aggregate	9999	Diesel	0.00243892	0.00290252	0.008676	0.04750981	5.1847608	0.000943076	0.000901581	168195.4609	10923.12793	10.2048521	3305032.74	0.000538698	0.000641095	0.001916347	0.010493742	1.145185445	0.000208302	0.000199137
San Diego	2022	Commercial Harbor Craft - ME - Ferr	Aggregate	175	Diesel	0.00043594	0.0005188	0.001504	0.00399015	0.1832681	0.000187386	0.000179138	5945.279754	2319.859284	2.000000517	114364.4318	0.002782618	0.00331156	0.009603047	0.025469527	1.169818981	0.001196104	0.001143456
San Diego	2022	Commercial Harbor Craft - ME - Ferr	Aggregate	600	Diesel	0.00063597	0.00075685	0.002122	0.00570998	0.2408533	0.000283976	0.000271455	7813.36605	1422.017874	2.999999599	151061.7547	0.003073283	0.003657467	0.010253013	0.02759324	1.16391421	0.001372304	0.001311798
San Diego	2022	Commercial Harbor Craft - ME - Ferr	Aggregate	600	Diesel	0.00077988	0.00092813	0.002692	0.0166758	1.9525762	0.000324534	0.00031026	63342.25195	10697.09082	4	1225993.625	0.00046437	0.000552639	0.001602849	0.009929363	1.16263296	0.000193239	0.00018474
San Diego	2022	Commercial Harbor Craft - ME - Rese	Aggregate	50	Diesel	0.00000273	0.00000325	1.37E-05	0.0000507	0.0075599	0.00000208	0.00000199	245.2471161	388.7157898	0.40625	4017.766576	0.000496022	0.000590502	0.002489194	0.009211834	1.373588243	0.000377921	0.000361569
San Diego	2022	Commercial Harbor Craft - ME - Rese	Aggregate	600	Diesel	0.00080555	0.00095868	0.002691	0.00726778	0.3152455	0.000358975	0.000343179	10226.67348	1166.147307	1.218749954	197749.4286	0.002973711	0.003538991	0.00993278	0.026829285	1.163741425	0.001325172	0.001266859
San Diego	2022	Commercial Harbor Craft - ME - Rese	Aggregate	800	Diesel	0.00098462	0.00117179	0.003172	0.00854345	0.4205506	0.000426199	0.000407445	13642.8077	1166.147371	1.218750014	263791.4728	0.002724779	0.003242735	0.008778509	0.023642606	1.16380531	0.001179435	0.001127539
San Diego	2022	Commercial Harbor Craft - ME - Rese	Aggregate	9999	Diesel	0.00527906	0.00628252	0.016071	0.04199947	2.4979649	0.002183475	0.002087404	81034.85601	3109.726362	3.250000021	1573583.372	0.002449005	0.002914521	0.007455447	0.019483944	1.158829209	0.001012934	0.000968366

San Diego	2022	Commercial Harbor Craft - ME - Tugb	Aggregate	9999	Diesel	0.00405965	0.00483132	0.014226	0.07778074	8.2884202	0.001557021	0.001488512	268879.25	14047.18848	5.25	5283464	0.000560909	0.000667528	0.001965608	0.010746726	1.145185573	0.000215129	0.000205663
San Diego	2022	Commercial Harbor Craft - ME - Tugb	Aggregate	175	Diesel	1.72E-05	0.0000204	8.46E-05	0.00039289	0.0376688	0.00000674	0.00000644	1221.989502	471.4464417	3.083333015	23619.46795	0.000531595	0.000630497	0.002614708	0.012142782	1.164219006	0.000208311	0.000199039
San Diego	2022	Commercial Harbor Craft - ME - Tugb	Aggregate	300	Diesel	0.00067961	0.0008088	0.002306	0.01437726	1.5586348	0.00029059	0.00027779	50562.65645	11949.69145	7.708334001	977843.2372	0.000507353	0.000603803	0.001721549	0.010733215	1.163584669	0.000216937	0.000207382
San Diego	2022	Commercial Harbor Craft - ME - Tugb	Aggregate	600	Diesel	0.0040849	0.00486158	0.013853	0.08501643	9.4355975	0.001742634	0.001666014	306094.0879	41100.39313	29.29166606	5922740.215	0.000503479	0.000599208	0.001707446	0.010478594	1.162972864	0.000214786	0.000205342
San Diego	2022	Commercial Harbor Craft - ME - Tugb	Aggregate	9999	Diesel	0.01453315	0.01729566	0.051937	0.23870533	22.500101	0.006687556	0.006393279	729911.1282	31640.49692	24.66666632	14294477.06	0.000742188	0.000883266	0.002652371	0.012190365	1.149050325	0.000341525	0.000326496
San Diego	2022	Commercial Harbor Craft - ME - Wor	Aggregate	175	Diesel	0.0001254	0.0001493	0.000527	0.0030823	0.3431443	5.75E-05	5.5E-05	11131.72278	3920.689497	6.136045999	210852.7341	0.000434151	0.000516896	0.001824758	0.01067133	1.188011027	0.000199073	0.000190417
San Diego	2022	Commercial Harbor Craft - ME - Wor	Aggregate	600	Diesel	0.00541603	0.00644553	0.019145	0.09671065	11.371279	0.002083267	0.001991571	368888.2577	49008.61606	76.70056872	7143532.426	0.000553466	0.000658671	0.001956433	0.009882894	1.16203484	0.00021289	0.000203519
San Diego	2022	Commercial Harbor Craft - ME - Wor	Aggregate	800	Diesel	0.00060118	0.00071546	0.002627	0.01461224	1.2493086	0.000330122	0.000315597	40528.00795	3920.688978	6.136045	783353.6804	0.000560238	0.000666729	0.002448049	0.013617009	1.164219041	0.000307638	0.000294102
San Diego	2022	Commercial Harbor Craft - ME - Wor	Aggregate	9999	Diesel	0.00750497	0.00893153	0.026304	0.11238066	10.048671	0.003202168	0.003061265	325982.395	13722.41167	21.47615805	6367361.332	0.000860423	0.001023974	0.003015726	0.012884126	1.152051717	0.00036712	0.000350965
San Diego	2022	Construction and Mining - Bore/Drill	Aggregate	100	Diesel	0.00017526	0.00020857	0.003199	0.00206191	0.5102427	8.42103E-05	7.74735E-05	16554.26177	7534.809013	19.73830265	642308.0935	0.000199185	0.000237047	0.003635494	0.002343417	0.579904191	9.57072E-05	8.80506E-05
San Diego	2022	Construction and Mining - Bore/Drill	Aggregate	175	Diesel	0.00020605	0.00024522	0.004382	0.00193678	0.7913458	8.63359E-05	7.94291E-05	25674.34202	6593.724199	20.82982169	984031.1883	0.00015286	0.000181916	0.003250845	0.00143679	0.587057016	6.4048E-05	5.89242E-05
San Diego	2022	Construction and Mining - Bore/Drill	Aggregate	25	Diesel	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Construction and Mining - Bore/Drill	Aggregate	300	Diesel	0.00026447	0.00031474	0.002311	0.00273091	1.1355969	8.91917E-05	8.20563E-05	36843.18929	6856.920383	21.19366137	1432475.037	0.000134776	0.000160395	0.001177595	0.001391693	0.578708656	4.54527E-05	4.18165E-05
San Diego	2022	Construction and Mining - Bore/Drill	Aggregate	50	Diesel	0.00011551	0.00013747	0.000793	0.00078384	0.1084257	4.4008E-05	4.04874E-05	3517.750903	3075.748212	8.641192404	119041.1642	0.000708349	0.000842994	0.004861522	0.004806751	0.664902156	0.000269872	0.000248282
San Diego	2022	Construction and Mining - Bore/Drill	Aggregate	600	Diesel	0.00037264	0.00044347	0.003579	0.00346134	1.9126484	0.000115719	0.000106461	62053.77037	5927.992677	17.55526457	2419173.867	0.000112445	0.000133819	0.001080037	0.001044479	0.577152944	3.49189E-05	3.21254E-05
San Diego	2022	Construction and Mining - Bore/Drill	Aggregate	75	Diesel	7.2679E-05	8.6494E-05	0.001081	0.00109984	0.1690191	5.43854E-05	5.00346E-05	5483.639038	3007.481377	6.640074163	214695.3553	0.00024712	0.000294093	0.00367564	0.003739645	0.574693168	0.000184919	0.000170126
San Diego	2022	Construction and Mining - Bore/Drill	Aggregate	750	Diesel	0.00015766	0.00018763	0.001876	0.00125398	1.035247	4.91166E-05	4.51873E-05	33587.44966	2001.143029	3.547436882	1278629.371	9.00144E-05	0.000107125	0.001070866	0.000715929	0.591047216	2.80418E-05	2.57985E-05
San Diego	2022	Construction and Mining - Bore/Drill	Aggregate	9999	Diesel	0.00018687	0.0002224	0.001111	0.0043236	0.5925073	9.92878E-05	9.13448E-05	19223.24729	398.0673423	0.54575952	740944.4296	0.000184114	0.000219111	0.001094379	0.004259733	0.583755438	9.78213E-05	8.99956E-05
San Diego	2022	Construction and Mining - Cranes	Aggregate	100	Diesel	0.00083522	0.00099398	0.005805	0.00748589	0.7669305	0.000497188	0.000457413	24882.2141	19063.87132	42.95354284	1674998.079	0.000364006	0.000433197	0.002529997	0.003262513	0.334244703	0.000216685	0.00019935
San Diego	2022	Construction and Mining - Cranes	Aggregate	175	Diesel	0.00202825	0.00241378	0.01543	0.02041534	2.3484269	0.001097237	0.001009458	76192.12306	34912.78194	76.42531958	5106760.295	0.000289933	0.000345045	0.002205675	0.002918327	0.335702384	0.000156848	0.0001443
San Diego	2022	Construction and Mining - Cranes	Aggregate	25	Diesel	4.1741E-06	4.9676E-06	1.94E-05	1.7117E-05	0.0020947	1.31486E-06	1.20967E-06	67.96121023	164.1670953	0.342714438	4104.177384	0.000742441	0.000883567	0.00345858	0.00304461	0.372584518	0.000233871	0.000215162
San Diego	2022	Construction and Mining - Cranes	Aggregate	300	Diesel	0.00252584	0.00300596	0.013855	0.02868441	4.0494196	0.001188282	0.001093219	131378.9585	40011.22729	84.87894237	8826350.232	0.000208904	0.000248613	0.001145892	0.002372398	0.33491491	9.82791E-05	9.04168E-05
San Diego	2022	Construction and Mining - Cranes	Aggregate	50	Diesel	0.00012198	0.00014517	0.000439	0.00034983	0.0339381	3.62018E-05	3.33056E-05	1101.08291	1597.040471	3.655620667	65844.38785	0.00135236	0.00160942	0.004865834	0.003878442	0.376262625	0.00040136	0.000369251
San Diego	2022	Construction and Mining - Cranes	Aggregate	600	Diesel	0.0031605	0.00376125	0.02541	0.0348381	7.0603854	0.001396962	0.001285205	229066.4289	41912.06824	84.53622794	15383556.78	0.000149976	0.000178484	0.001205796	0.001653182	0.335038341	6.62904E-05	6.09872E-05
San Diego	2022	Construction and Mining - Cranes	Aggregate	75	Diesel	3.398E-05	4.0439E-05	0.000117	0.00025611	0.0136898	2.38585E-05	2.19498E-05	444.1501686	425.9470582	1.142381459	29639.33813	0.000836898	0.000995978	0.002890492	0.006307828	0.337171729	0.000587621	0.000540611
San Diego	2022	Construction and Mining - Cranes	Aggregate	750	Diesel	9.0205E-05	0.00010735	0.000704	0.00092218	0.1416854	4.52131E-05	4.1596E-05	4596.826569	487.933839	1.142381459	309361.3421	0.000212856	0.000253316	0.001661159	0.002176065	0.334335043	0.000106689	9.81542E-05
San Diego	2022	Construction and Mining - Cranes	Aggregate	9999	Diesel	0.00050053	0.00059567	0.004208	0.00585502	0.3900373	0.000269266	0.000247725	12654.3293	906.050988	1.827810334	850116.3355	0.000429804	0.000511502	0.003613228	0.005027737	0.334927335	0.000231221	0.000212723
San Diego	2022	Construction and Mining - Crawler Tr	Aggregate	100	Diesel	0.00541765	0.00644746	0.035624	0.0460808	4.8426318	0.003687863	0.003392834	157113.8559	80877.64932	172.9704039	7066471.671	0.000559669	0.000666053	0.003680117	0.004760365	0.500266807	0.000380974	0.000350496
San Diego	2022	Construction and Mining - Crawler Tr	Aggregate	175	Diesel	0.00391927	0.00466425	0.032796	0.03851263	5.2965738	0.002152374	0.001980184	171841.5054	51898.90169	114.4686905	7742964.129	0.000369505	0.000439741	0.003092017	0.003630937	0.499356428	0.000202924	0.00018669
San Diego	2022	Construction and Mining - Crawler Tr	Aggregate	25	Diesel	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Construction and Mining - Crawler Tr	Aggregate	300	Diesel	0.00372882	0.00443761	0.020645	0.04429324	5.5563872	0.001782106	0.001639537	180270.8624	39590.14669	88.71576988	8134953.244	0.00033461	0.000398214	0.001852613	0.003974708	0.498609213	0.000159919	0.000147126
San Diego	2022	Construction and Mining - Crawler Tr	Aggregate	50	Diesel	0.00036146	0.00043016	0.001341	0.0010242	0.109918	0.000102584	9.43775E-05	3566.167241	3460.034879	10.13894513	145461.1469	0.001813984	0.002158791	0.006727524	0.005139983	0.551625739	0.000514821	0.000473636
San Diego	2022	Construction and Mining - Crawler Tr	Aggregate	600	Diesel	0.00812417	0.00966844	0.056958	0.08762628	19.429702	0.003393516	0.003122035	630375.2722	73716.672	155.2272499	28460412.56	0.000208382	0.000247992	0.001460963	0.002247584	0.498365306	8.70425E-05	8.00791E-05
San Diego	2022	Construction and Mining - Crawler Tr	Aggregate	75	Diesel	4.3707E-05	5.2015E-05	0.000142	0.00034613	0.0118302	2.53778E-05	2.33476E-05	383.8167427	246.9302524	1.216673415	17271.26549	0.001847342	0.00219849	0.005988644	0.014629905	0.500022537	0.001072638	0.000986827
San Diego	2022	Construction and Mining - Crawler Tr	Aggregate	750	Diesel	0.00016306	0.00019406	0.001009	0.00205525	0.1995512	7.35082E-05	6.76275E-05	6474.217695	471.1595999	1.115283964	293770.269	0.000405201	0.000482223	0.002507831	0.005107174	0.495871652	0.000182663	0.00016805
San Diego	2022	Construction and Mining - Crawler Tr	Aggregate	9999	Diesel	0.00075449	0.00089791	0.003372	0.01276111	1.1205513	0.000345636	0.000317985	36355.05213	1684.036525	3.041683539	1637471.506	0.00033636	0.000400296	0.001503202	0.005689023	0.499552163	0.000154088	0.000141761
San Diego	2022	Construction and Mining - Excavator	Aggregate	100	Diesel	0.00270293	0.00321671	0.037809	0.02811074	5.7043127	0.001475412	0.001357379	185070.1428	115675.3718	178.5990742	9413705.488	0.000209603	0.000249445	0.002931942	0.00217989	0.442349536	0.000114413	0.00010526
San Diego	2022	Construction and Mining - Excavator	Aggregate	175	Diesel	0.00439709	0.0052329	0.070146	0.03856305	12.039866	0.001873203	0.001723346	390620.2023	135389.4493	228.8872094	19770957.54	0.000162353	0.000193214	0.00258998	0.001423857	0.444546116	6.9164E-05	6.36309E-05
San Diego	2022	Construction and Mining - Excavator	Aggregate	25	Diesel	9.1075E-06	1.0839E-05	2.56E-05	1.7372E-05	0.0013457	2.42114E-06	2.22745E-06	43.66122239	79.61204422	0.304776577	1990.301105	0.003340432	0.00397539	0.009380552	0.006371679	0.493590656	0.000888021	0.000816979
San Diego	2022	Construction and Mining - Excavator	Aggregate	300	Diesel	0.00442206	0.00526262	0.032438	0.04166247	15.371275	0.001326776	0.001220634	498704.0901	115386.6331	198.0031829	25224280.32	0.000127976	0.000152302	0.000938774	0.001205727	0.444850384	3.83974E-05	3.53256E-05
San Diego	2022	Construction and Mining - Excavator	Aggregate	50	Diesel	0.00356589	0.0042437	0.03194	0.02766199	4.3950658	0.001191817	0.001096471	142593.068	181392.9093	247.8849493	6495983.139	0.000400724	0.000476895	0.003589332	0.003108576	0.493904915	0.000133933	0.000123218
San Diego	2022	Construction and Mining - Excavator	Aggregate	600	Diesel	0.00660403	0.00785934	0.054638	0.05310644	27.337303	0.001785719	0.001642862	886928.6764	132789.2921	206.536927	45053213.44	0.000107006	0.000127345	0.0008853	0.000860487	0.442948003	2.89341E-05	2.66194E-05
San Diego	2022	Construction and Mining - Excavator	Aggregate	75	Diesel	3.8265E-06	4.5539E-06	1.24E-05	3.0304E-05	0.0010357	2.22183E-06	2.04408E-06	33.60313628	32.1465543	0.101592192	1703.767378	0.001639522	0.001951166	0.005314939	0.012984082	0.443771429	0.000951969	0.000875812
San Diego	2022	Construction and Mining - Excavator	Aggregate	750	Diesel	9.7909E-05	0.00011652	0.000723	0.0011528	0.2177038	3.85119E-05	3.5431E-05	7063.158418	548.3482637	1.117514116	351637.1151	0.000203259	0.000241895	0.001501124	0.002393213	0.451953821	7.99509E-05	7.35548E-05
San Diego	2022	Construction and Mining - Excavator	Aggregate	9999	Diesel	0.00015988	0.00019027	0.001421	0.00394163	0.7589939	5.46716E-05	5.02978E-05	24624.72246	1034.376312	1.523882885	1245287.07	9.37228E-05	0.000111538	0.000833275	0.002310624	0.444929999	3.2049E-05	2.94851E-05
San Diego	2022	Construction and Mining - Graders	Aggregate	100	Diesel	0.00108571	0.00129209	0.005484	0.00853737	0.6467096	0.000678609	0.00062432	20981.77932	11234.61847	30.01454318	1006958.201	0.000787094	0.000936707	0.003975706	0.006189214	0.468835722	0.000491961	0.000452605
San Diego	2022	Construction and Mining - Graders	Aggregate	175	Diesel	0.00601282	0.00715576	0.048023	0.05637614	7.3535412	0.003129428	0.002879074	238577.5469	75717.22808	160.4859248	11245830.91	0.00039031	0.000464501	0.003117319	0.003659542	0.477340016	0.00020314	0.000186889
San Diego	2022	Construction and Mining - Graders	Aggregate	25	Diesel	2.8617E-06	3.4057E-06	1.11E-05	8.7645E-06	0.000845	1.05621E-06	9.7171E-07	27.41415414	46.648612	0.204180566	1166.2153	0.001791317	0.002131815	0.006973967	0.0054862	0.528915067	0.000661139	0.000608248
San Diego	2022	Construction and Mining - Graders	Aggregate	300	Diesel	0.00896713	0.01067162	0.03823	0.10565577	15.508494	0.003496518	0.003216796	503156.0226	109922.6727	144.7640212	23796957.47	0.000275077	0.000327365	0.001172762	0.003241116	0.475741529	0.00010726	9.8679E-05
San Diego	2022	Construction and Mining - Graders	Aggregate	50	Diesel	0.00010816	0.00012872	0.00038	0.00027231	0.0282271	3.02873E-05	2.78643E-05	915.7979626	1043.412829	2.960618205	38961.48441	0.002026572	0.002411788	0.007128516	0.005102188	0.528876173	0.000567476	0.000522078
San Diego	2022	Construction and Mining - Graders	Aggregate	600	Diesel	0.0004291	0.00051066	0.001431	0.00561808	0.6665538	0.000172633	0.000158822	21625.60403	2894.779617	3.777340468	1019234.13	0.000307331	0.000365749	0.00102484	0.004023804	0.477401866	0.000123644	0.000113752
San Diego	2022	Construction and Mining - Graders	Aggregate	75	Diesel	3.4602E-05	4.1179E-05	0.000116	0.0002701	0.0121763	2.26759E-05	2.08618E-05	395.0450805	259.9493904	0.816722263	18236.96387	0.001385059	0.001648335	0.004660129	0.010811688	0.487398225	0.000907683	0.000835068
San Diego	2022	Construction and Mining - Graders	Aggregate	9999	Diesel	0.0004681	0.00055707	0.001965	0.00646054	0.5263696	0.000198091	0.000182244	17077.48249	446.4272168	0.612541698	807730.5129	0.000423051	0.000503465	0.00177631	0.005838821	0.475715369	0.000179028	0.000164706
San Diego	2022	Construction and Mining - Misc - Asp	Aggregate	100	Gasoline	0.00011334	0.0001356	0.005291	0.00031985	0.1276607	8.90081E-06	6.72506E-06	5164.75	1357.8	3.44	82825.8	0.000998926	0.001195104	0.046634569	0.002819089	1.125160348	7.84489E-05	5.92725E-05
San Diego	2022	Construction and Mining - Misc - Asp	Aggregate	15	Gasoline	3.643E-06	3.9692E-06	0.000118	2.7333E-06	4.933E-09	1.59821E-06	1.20754E-06	7.364923692	0	0.069500206	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Construction and Mining - Misc - Asp	Aggregate	25	Gasoline	1.6102E-05	1.7544E-05	0.000523	1.0577E-05	2.065E-08	6.6891E-06	0.000005054	32.70781426	0	0.11899808	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Construction and Mining - Misc - Asp	Aggregate	50	Gasoline	0.00022459	0.0002687	0.017468	0.0003406	0.1233042	8.50048E-06	6.42258E-06	5741.45	2467.4	6.3	78956.8	0.002076446	0.002484238	0.161498341	0.003149015	1.140016401	7.85917E-05	5.93804E-05
San Diego	2022	Construction and Mining - Misc - Bor	Aggregate	100	Gasoline	0.00010688	0.00012787	0.003787	0.00038433	0.1558288	1.08648E-05	8.20893E-06	6142.95	949	8.94	83512	0.000934247	0.001117723	0.033106034	0.003359563	1.362139788	9.49716E-05	7.17564E-05
San Diego	2022	Construction and Mining - Misc - Bor	Aggregate	15	Gasoline	4.6996E-07	5.1204E-07	1.67E-05	3.527E-07	7.017E-10	2.27364E-07	1.71786E-07	1.041521626	0	0.023741416	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Construction and Mining - Misc - Bor	Aggregate	15	Diesel	2.668E-07	3.1887E-07	1.4E-06	1.6708E-06	4.033E-09	5.87583E-08	4.43952E-08	0.104180683	0	0.019977344	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Construction and Mining - Misc - Bor	Aggregate	175	Gasoline	2.3909E-05	2.8604E-05	0.00173	0.00014933	0.0537121	3.85058E-06	2.90933E-06	2142.55	229.95	2.21	28973.7	0.000602394	0.000720698	0.043592533	0.003762462	1.353289748	9.70165E-05	7.33013E-05
San Diego	2022	Construction and Mining - Misc - Bor	Aggregate	25	Gasoline	4.4812E-06	4.8824E-06	0.00016	2.9441E-06	6.313E-09	2.04538E-06	1.5454E-06	9.944316498	0	0.118655284	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Construction and Mining - Misc - Bor	Aggregate	25	Diesel	1.6515E-06	1.9738E-06	5.64E-06	1.0436E-05	2.409E-08	3.5096E-07	2.6517E-07	0.490737241	0	0.077209267	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Construction and Mining - Misc - Bor	Aggregate	50	Gasoline	1.7313E-05	2.0713E-05	0.001049	3.2547E-05	0.0124831	8.60575E-07	6.50212E-07	543.85	215.35	1.94	6891.2	0.001834024	0.002194207	0.111140175	0.003447776	1.322363872	9.11626E-05	6.88784E-05
San Diego	2022	Construction and Mining - Misc - Cen	Aggregate	15	Gasoline	0.00019895	0.00021676	0.005821	0.00013339	2.389E-07	7.74152E-05	5.84914E-05	366.7991216	0	18.2360001	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Construction and Mining - Misc - Cen	Aggregate	15	Diesel	1.8711E-06	2.2363E-06	9.81E-06	1.1718E-05	2.829E-08	4.11932E-07	3.11237E-07	0.730649069	0	0.619986728	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Construction and Mining - Misc - Cen	Aggregate	25	Gasoline	2.6561E-06	2.894E-06	7.98E-05	1.6064E-06	3.12E-09	1.0108E-06	7.63718E-07	5.017931194	0	0.076194008	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Construction and Mining - Misc - Cen	Aggregate	25	Diesel	4.884E-07	5.8371E-07	1.65E-06	3.0589E-06	6.968E-09	1.09278E-07	8.25654E-08	0.144028626	0	0.054980835	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Construction and Mining - Misc - Cen	Aggregate	5	Gasoline	8.3366E-05	9.083E-05	0.002206	3.7955E-05	8.814E-08	1.11055E-06	8.3908E-07	140.0439777	0	10.76303895	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Construction and Mining - Misc - Cor	Aggregate	100	Gasoline	0.00012066	0.00014436	0.006457	0.00032111	0.3061251	2.13438E-05	1.61264E-05	11982.95	2540.4	4.17	167666.4	0.000525346	0.000628518	0.028112758	0.001398084	1.332833168	9.29283E-05	7.02125E-05
San Diego	2022	Construction and Mining - Misc - Cor	Aggregate	15	Gasoline	0.00013084	0.00014255	0.004157	9.816E-05	1.743E-07	5.64706E-05	4.26668E-05	260.5025616	0	2.654347168	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Construction and Mining - Misc - Cor	Aggregate	25	Gasoline	8.1649E-05	8.8961E-05	0.002607	5.3633E-05	1.03E-07	3.33726E-05	2.52148E-05	163.3513477	0	0.830457318	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Construction and Mining - Misc - Cor	Aggregate	25	Diesel	3.2898E-07	3.9318E-07	1.12E-06	2.0789E-06	4.798E-09	6.991E-08	5.28209E-08	0.097753232	0	0.020443983	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Construction and Mining - Misc - Cor	Aggregate	5	Gasoline	6.9774E-06	7.6022E-06	0.000181	3.1767E-06	7.236E-09	9.11764E-08	6.88888E-08	11.51483139	0	0.591279592	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Construction and Mining - Misc - Cor	Aggregate	50	Gasoline	0.00029361	0.00035127	0.02369	0.00050166	0.286448	1.97475E-05	1.49203E-05	12293.2	4438.4	7.27	155344	0.001379734	0.001650699	0.111325788	0.002357413	1.346090404	9.27982E-05	7.01142E-05
San Diego	2022	Construction and Mining - Misc - Cor	Aggregate	50	Diesel	0.00010272	0.00012429	0.000832	0.00073994	0.1068311	2.98367E-05	2.74497E-05	3566.05	2587.85	4.46	85399.05	0.00087803	0.001062416	0.007107778	0.006325056	0.913203535	0.000255047	0.000234643
San Diego	2022	Construction and Mining - Misc - Cra	Aggregate	100	Gasoline	0.00016116	0.00019281	0.006795	0.00045669	0.1496857	1.04364E-05	7.88532E-06	6091.85	1835.95	4.42	135860.3	0.000865931	0.001035991	0.036512996	0.002453877	0.80428631	5.60768E-05	4.23691E-05
San Diego	2022	Construction and Mining - Misc - Cra	Aggregate	175	Gasoline	7.152E-06	8.5566E-06	0.000351	3.3894E-05	0.0098364	7.05165E-07	5.32792E-07	379.6	62.05	0.17	7756.25	0.000673131	0.000805327	0.033074228	0.003190047	0.925779326	6.63685E-05	5.01451E-05
San Diego	2022	Construction and Mining - Misc - Cra	Aggregate	50	Gasoline	7.9053E-05	9.4579E-05	0.005698	0.00012062	0.0378466	2.60911E-06	1.97133E-06	1784.85	927.1	2.21	34302.7	0.001682345	0.00201274	0.121254888	0.002566955	0.805418668	5.55248E-05	4.19521E-05
San Diego	2022	Construction and Mining - Misc - Cru	Aggregate	15	Gasoline	7.0197E-07	7.6482E-07	2.38E-05	5.2674E-07	9.97E-10	3.23028E-07	2.44066E-07	1.484159148	0	0.014945626	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Construction and Mining - Misc - Cru	Aggregate	25	Gasoline	8.6122E-07	9.3834E-07	2.93E-05	5.6578E-07	1.159E-09	3.75376E-07	2.83618E-07	1.830017056	0	0.009769288	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Construction and Mining - Misc - Dur	Aggregate	100	Gasoline	9.1243E-06	1.0916E-05	0.000329	3.213E-05	0.0128303	8.94559E-07	6.75889E-07	496.4	215.35	1.62	14213.1	0.000468634	0.000560669	0.016915462	0.001650206	0.658977848	4.59455E-05	3.47144E-05
San Diego	2022	Construction and Mining - Misc - Dur	Aggregate	15	Gasoline	1.7927E-05	1.9532E-05	0.000468	1.2818E-05	1.943E-08	6.29514E-06	4.75634E-06	29.75368258	0	1.17118912	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Construction and Mining - Misc - Dur	Aggregate	25	Gasoline	0.00205973	0.00246346	0.082199	0.00156028	0.143903	0.000952208	0.000719446	10695.80634	31090.7	208.7566897	270600.05	0.005556554	0.006645699	0.221749025	0.00420919	0.38820843	0.00256878	0.001940856
San Diego	2022	Construction and Mining - Misc - Dur	Aggregate	25	Diesel	2.3652E-07	2.8268E-07	8.07E-07	1.4946E-06	3.45E-09	5.04186E-08	3.8094E-08	0.070280448	0	0.028406936	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Construction and Mining - Misc - Dur	Aggregate	5	Gasoline	4.602E-06	5.0141E-06	0.000101	2.0956E-06	4.049E-09	5.10226E-08	3.85504E-08	6.533597624	0	0.54921242	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Construction and Mining - Misc - Exc	Aggregate	25	Diesel	1.6917E-06	2.0219E-06	5.77E-06	1.0691E-05	2.468E-08	3.59508E-07	2.71628E-07	0.502689885	0	0.044685177	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Construction and Mining - Misc - Oth	Aggregate	15	Gasoline	0	0	0	0	0	0	0	0	0	0.010169782	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Construction and Mining - Misc - Oth	Aggregate	15	Diesel	4.1097E-06	4.9117E-06	2.16E-05	2.5736E-05	6.212E-08	9.05092E-07	6.83848E-07	1.604761852	0	0.370213121	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Construction and Mining - Misc - Oth	Aggregate	175	Gasoline	0.00011254	0.00013464	0.010406	0.00039353	0.3168358	2.27137E-05	1.71615E-05	12621.7	2299.5	6.19	289737	0.000283542	0.000339226	0.026217161	0.000991507	0.798276024	5.72279E-05	4.32388E-05
San Diego	2022	Construction and Mining - Misc - Oth	Aggregate	2	Gasoline	0	0	0	0	0	0	0	0	0	0.010169782	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Construction and Mining - Misc - Oth	Aggregate	25	Gasoline	0	0	0	0	0	0	0	0	0	0.010169782	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Construction and Mining - Misc - Oth	Aggregate	25	Diesel	0.00047645	0.00057649	0.002825	0.0036153	0.4911096	0.000140079	0.000128842	16363.21136	33996.1	49.27846497	461644.7	0.000753416	0.000911613	0.004466827	0.005716888	0.776592997	0.000221508	0.000203738
San Diego	2022	Construction and Mining - Misc - Oth	Aggregate	5	Gasoline	0	0	0	0	0	0	0	0	0	0.010169782	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Construction and Mining - Misc - Pav	Aggregate	25	Diesel	4.4563E-07	5.3259E-07	1.52E-06	2.8164E-06	6.499E-09	9.57475E-08	7.23425E-08	0.132405378	0	0.017631521	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

San Diego	2022	Construction and Mining - Misc - Pav	Aggregate	100	Gasoline	3.0546E-05	3.6545E-05	0.001599	8.6115E-05	0.0706703	4.9273E-06	3.72285E-06	2777.65	770.15	4.44	50829.9	0.000438688	0.000524841	0.022964837	0.001236746	1.014939933	7.0764E-05	5.34662E-05
San Diego	2022	Construction and Mining - Misc - Pav	Aggregate	15	Gasoline	0.00035789	0.00038994	0.010871	0.00026847	4.558E-07	0.000147679	0.00011158	683.281175	0	12.80181976	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Construction and Mining - Misc - Pav	Aggregate	25	Gasoline	1.8466E-05	2.012E-05	0.000564	1.2129E-05	2.228E-08	7.21744E-06	5.45318E-06	35.43193768	0	0.284388736	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Construction and Mining - Misc - Pav	Aggregate	25	Diesel	7.5662E-07	9.0428E-07	2.58E-06	4.7813E-06	1.104E-08	1.60788E-07	1.21484E-07	0.224824683	0	0.043813852	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Construction and Mining - Misc - Pav	Aggregate	5	Gasoline	9.7691E-05	0.00010644	0.002294	4.4482E-05	9.166E-08	1.15495E-06	8.72632E-07	147.0601896	0	7.572014842	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Construction and Mining - Misc - Pav	Aggregate	50	Gasoline	0.00016856	0.00020167	0.013525	0.00029024	0.1554651	1.07176E-05	8.09776E-06	6716	3011.25	17.17	111416.25	0.00110442	0.001321317	0.088614916	0.001901673	1.018608411	7.02219E-05	5.30566E-05
San Diego	2022	Construction and Mining - Misc - Plat	Aggregate	15	Gasoline	0.00012524	0.00013645	0.003762	9.3953E-05	1.578E-07	5.11254E-05	3.86281E-05	236.6542118	0	5.798827418	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Construction and Mining - Misc - Plat	Aggregate	15	Diesel	1.6097E-06	1.9238E-06	8.44E-06	1.008E-05	2.433E-08	3.54503E-07	2.67847E-07	0.628547133	0	0.390709079	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Construction and Mining - Misc - Plat	Aggregate	25	Gasoline	0.01562472	0.01869326	0.547305	0.01139762	1.0435126	0.005702131	0.004308277	74693.6	238366.9	1229.63	1462920	0.007796769	0.009327972	0.273106139	0.005687437	0.520714877	0.002845375	0.002149839
San Diego	2022	Construction and Mining - Misc - Plat	Aggregate	25	Diesel	0.00013967	0.00016901	0.000887	0.00105838	0.1451879	4.13567E-05	3.80482E-05	4839.9	24590.05	40.95	196720.4	0.000518312	0.000627158	0.003289696	0.003927499	0.53877067	0.000153469	0.000141191
San Diego	2022	Construction and Mining - Misc - Plat	Aggregate	5	Gasoline	7.0563E-05	7.6881E-05	0.001619	3.213E-05	6.467E-08	8.1483E-07	6.1565E-07	103.9637514	0	5.412278642	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Construction and Mining - Misc - Roll	Aggregate	100	Gasoline	0.00075406	0.00090215	0.03355	0.00193887	0.5629958	3.92534E-05	2.96581E-05	23414.75	5179.35	8.32	388451.25	0.001417081	0.001695381	0.063049559	0.003643627	1.05801419	7.37673E-05	5.57353E-05
San Diego	2022	Construction and Mining - Misc - Roll	Aggregate	15	Gasoline	3.5547E-05	3.873E-05	0.001136	2.6669E-05	4.764E-08	1.54356E-05	1.16624E-05	71.17736116	0	0.912767066	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Construction and Mining - Misc - Roll	Aggregate	15	Diesel	5.8349E-06	6.9736E-06	3.06E-05	3.654E-05	8.82E-08	1.28504E-06	9.7092E-07	2.278424236	0	0.834535075	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Construction and Mining - Misc - Roll	Aggregate	2	Gasoline	0	0	0	0	0	0	0	0	0	0.001050824	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Construction and Mining - Misc - Roll	Aggregate	25	Gasoline	5.3538E-05	5.8332E-05	0.00172	3.5168E-05	6.793E-08	2.20088E-05	1.66288E-05	107.6883665	0	0.616484254	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Construction and Mining - Misc - Roll	Aggregate	25	Diesel	5.3047E-06	6.34E-06	1.81E-05	3.3522E-05	7.738E-08	1.1273E-06	8.51736E-07	1.576268496	0	0.346780935	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Construction and Mining - Misc - Roll	Aggregate	5	Gasoline	3.9946E-06	4.3523E-06	0.00011	1.8186E-06	4.382E-09	5.52116E-08	4.17154E-08	6.94306787	0	0.564415144	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Construction and Mining - Misc - Roll	Aggregate	50	Gasoline	0.00038262	0.00045776	0.029182	0.00053443	0.1494151	1.03005E-05	7.78263E-06	7453.3	2763.05	4.42	102232.85	0.002732093	0.003268648	0.208373153	0.003816101	1.066907712	7.35517E-05	5.55724E-05
San Diego	2022	Construction and Mining - Misc - Rou	Aggregate	100	Gasoline	0.00139927	0.00167407	0.058963	0.00396971	1.3027486	9.08308E-05	6.86277E-05	52998	10417.1	25.18	885453.5	0.00115361	0.001380167	0.048610862	0.00327277	1.074033232	7.48842E-05	5.65791E-05
San Diego	2022	Construction and Mining - Misc - Rou	Aggregate	175	Gasoline	5.4053E-05	6.4668E-05	0.002661	0.00025649	0.0745297	5.34299E-06	4.03692E-06	2978.4	372.3	0.9	52866.6	0.000746383	0.000892965	0.036742485	0.003541701	1.029131518	7.37778E-05	5.57432E-05
San Diego	2022	Construction and Mining - Misc - Rou	Aggregate	50	Gasoline	0.00010693	0.00012793	0.007702	0.00016332	0.0513048	3.53691E-06	2.67233E-06	2409	730	1.78	34310	0.002275089	0.002721893	0.163863165	0.003474879	1.091591078	7.52533E-05	5.68581E-05
San Diego	2022	Construction and Mining - Misc - Rub	Aggregate	100	Gasoline	0.00076589	0.0009163	0.034729	0.0020525	0.6853889	4.7787E-05	3.61057E-05	28115.95	7529.95	14.7	542156.4	0.001031248	0.001233774	0.046761168	0.002763638	0.92285892	6.43439E-05	4.86154E-05
San Diego	2022	Construction and Mining - Misc - Rub	Aggregate	15	Gasoline	0	0	0	0	0	0	0	0	0	0.001466902	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Construction and Mining - Misc - Rub	Aggregate	2	Gasoline	0	0	0	0	0	0	0	0	0	0.001466902	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Construction and Mining - Misc - Rub	Aggregate	25	Gasoline	0	0	0	0	0	0	0	0	0	0.001466902	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Construction and Mining - Misc - Rub	Aggregate	25	Diesel	2.8992E-07	3.465E-07	9.9E-07	1.8321E-06	4.229E-09	6.16095E-08	4.65494E-08	0.08614675	0	0.010847874	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Construction and Mining - Misc - Rub	Aggregate	5	Gasoline	0	0	0	0	0	0	0	0	0	0.001466902	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Construction and Mining - Misc - Rub	Aggregate	50	Gasoline	0.0001274	0.00015242	0.009792	0.00018298	0.0579967	3.99824E-06	3.02089E-06	2792.25	1135.15	2.22	45406	0.002048184	0.002450426	0.157423592	0.002941839	0.932422601	6.42804E-05	4.85674E-05
San Diego	2022	Construction and Mining - Misc - Sign	Aggregate	15	Gasoline	4.5116E-06	4.9156E-06	0.00015	3.3852E-06	6.272E-09	2.03212E-06	1.53537E-06	9.348921416	0	0.120381394	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Construction and Mining - Misc - Sign	Aggregate	15	Diesel	2.516E-05	3.007E-05	0.000132	0.00015756	3.803E-07	5.54103E-06	4.18656E-06	9.824448423	0	3.415915832	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Construction and Mining - Misc - Sign	Aggregate	25	Gasoline	0.00039926	0.00047767	0.01781	0.00033659	0.0306534	0.000222682	0.000168249	2288.55	3982.15	15.01	31134.5	0.009361376	0.011199851	0.417592805	0.007891837	0.718720809	0.005221153	0.003944871
San Diego	2022	Construction and Mining - Misc - Sign	Aggregate	25	Diesel	0.00218302	0.00264145	0.013855	0.01654176	2.2691842	0.000646376	0.000594666	75660.85	268731.25	358	1612387.5	0.000988349	0.001195903	0.006272995	0.007489197	1.027361277	0.000292643	0.000269232
San Diego	2022	Construction and Mining - Misc - Sign	Aggregate	5	Gasoline	2.4521E-07	2.6717E-07	6.37E-06	1.1164E-07	2.546E-10	3.20814E-09	2.42392E-09	0.405122896	0	0.017081796	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Construction and Mining - Misc - Sign	Aggregate	50	Diesel	4.5064E-05	5.4528E-05	0.00036	0.0003224	0.0472219	1.28544E-05	1.18261E-05	1576.8	956.3	1.78	35383.1	0.000929735	0.001124979	0.007417398	0.006651638	0.974249142	0.000265204	0.000243988
San Diego	2022	Construction and Mining - Misc - Skid	Aggregate	100	Gasoline	0.00051671	0.00061819	0.02944	0.00138045	1.2172298	8.48682E-05	6.41226E-05	47869.75	11212.8	36.15	897024	0.000420503	0.000503085	0.023957976	0.001123416	0.990584175	6.90659E-05	5.21831E-05
San Diego	2022	Construction and Mining - Misc - Skid	Aggregate	15	Gasoline	1.6437E-06	1.7909E-06	4.68E-05	1.2328E-06	1.961E-09	6.35206E-07	4.79934E-07	2.95240827	0	0.025084292	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Construction and Mining - Misc - Skid	Aggregate	2	Gasoline	0	0	0	0	0	0	0	0	0	0.001904764	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Construction and Mining - Misc - Skid	Aggregate	25	Gasoline	0.00014162	0.0001543	0.004175	9.3013E-05	1.649E-07	5.34368E-05	4.03744E-05	262.963406	0	1.554896712	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Construction and Mining - Misc - Skid	Aggregate	25	Diesel	8.8415E-05	0.00010567	0.000301	0.00055825	1.282E-06	0.000019271	1.45603E-05	26.21501008	0	4.632594944	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Construction and Mining - Misc - Skid	Aggregate	5	Gasoline	0	0	0	0	0	0	0	0	0	0.001904764	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Construction and Mining - Misc - Skid	Aggregate	50	Gasoline	0.00089893	0.00107547	0.076505	0.00148802	0.8231206	5.67452E-05	4.28741E-05	35835.7	18746.4	60.42	599884.8	0.001093911	0.001308743	0.093098461	0.001810773	1.001655752	6.90532E-05	5.21736E-05
San Diego	2022	Construction and Mining - Misc - Sur	Aggregate	15	Gasoline	0.00022633	0.0002466	0.005855	0.00016972	2.455E-07	7.95344E-05	6.00926E-05	372.3158202	0	4.12604884	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Construction and Mining - Misc - Sur	Aggregate	25	Gasoline	7.7659E-06	8.4613E-06	0.000202	5.0996E-06	7.978E-09	0.000002585	1.95311E-06	12.83876837	0	0.056464712	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Construction and Mining - Misc - Sur	Aggregate	5	Gasoline	2.3422E-05	2.5519E-05	0.000514	1.0665E-05	2.054E-08	2.5883E-07	1.9556E-07	33.15371834	0	1.38939524	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Construction and Mining - Misc - Tan	Aggregate	15	Gasoline	7.8362E-06	8.5379E-06	0.00028	5.9593E-06	1.222E-08	3.9586E-06	2.99093E-06	17.42260552	0	0.827300048	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Construction and Mining - Misc - Tan	Aggregate	25	Gasoline	0.00205827	0.0024625	0.104381	0.00184502	0.1972316	0.001488055	0.001124308	14026.95	65517.5	359.63	276505.75	0.00543403	0.006501216	0.275576085	0.004871006	0.520709143	0.003928599	0.002968275
San Diego	2022	Construction and Mining - Misc - Tra	Aggregate	100	Gasoline	0.00036594	0.0004378	0.027539	0.0009996	0.4801937	3.34803E-05	2.52962E-05	19856	6792.65	7.83	427936.95	0.000624237	0.00074683	0.04697683	0.001705168	0.819142602	5.71126E-05	4.31517E-05
San Diego	2022	Construction and Mining - Misc - Tra	Aggregate	15	Gasoline	0	0	0	0	0	0	0	0	0	0.003495384	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Construction and Mining - Misc - Tra	Aggregate	2	Gasoline	0	0	0	0	0	0	0	0	0	0.003495384	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Construction and Mining - Misc - Tra	Aggregate	25	Gasoline	0	0	0	0	0	0	0	0	0	0.003495384	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Construction and Mining - Misc - Tra	Aggregate	25	Diesel	8.083E-06	9.6605E-06	2.76E-05	5.1078E-05	1.179E-07	1.71702E-06	1.29731E-06	2.401804477	0	0.327904724	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Construction and Mining - Misc - Tra	Aggregate	5	Gasoline	0	0	0	0	0	0	0	0	0	0.003495384	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Construction and Mining - Misc - Tre	Aggregate	100	Gasoline	0.00058136	0.00069554	0.024406	0.00165964	0.5484331	3.82381E-05	2.8891E-05	22286.9	5380.1	13.37	355086.6	0.001195189	0.001429912	0.050175039	0.003411953	1.127488745	7.86112E-05	5.93951E-05
San Diego	2022	Construction and Mining - Misc - Tre	Aggregate	15	Gasoline	6.1724E-05	6.7251E-05	0.001945	4.6307E-05	8.156E-08	0.000026427	1.9967E-05	121.9729822	0	0.943729128	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Construction and Mining - Misc - Tre	Aggregate	15	Diesel	2.3098E-06	2.7606E-06	1.21E-05	1.4465E-05	3.492E-08	5.08703E-07	3.84353E-07	0.901948583	0	0.277405374	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Construction and Mining - Misc - Tre	Aggregate	2	Gasoline	0	0	0	0	0	0	0	0	0	0.001162966	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Construction and Mining - Misc - Tre	Aggregate	25	Gasoline	0.00010611	0.00011561	0.003361	6.97E-05	1.328E-07	0.000043015	3.25002E-05	210.6617882	0	0.731478186	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Construction and Mining - Misc - Tre	Aggregate	25	Diesel	7.8368E-06	9.3662E-06	2.67E-05	4.9522E-05	1.143E-07	1.66538E-06	1.25828E-06	2.328648809	0	0.233527305	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Construction and Mining - Misc - Tre	Aggregate	5	Gasoline	0	0	0	0	0	0	0	0	0	0.001162966	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Construction and Mining - Misc - Tre	Aggregate	50	Gasoline	0.00156419	0.00187138	0.112224	0.00240252	0.7597	5.2373E-05	3.95707E-05	35671.45	16213.3	40.3	486399	0.002347576	0.002808615	0.168429187	0.003605759	1.140177039	7.86028E-05	5.93888E-05
San Diego	2022	Construction and Mining - Off-Highw	Aggregate	100	Diesel	0.00086167	0.00102546	0.008839	0.00837573	1.2694731	0.000602542	0.000554338	41186.65622	23144.79186	33.98136078	1825481.759	0.000344576	0.000410074	0.003534713	0.003349408	0.507655225	0.000240953	0.000221677
San Diego	2022	Construction and Mining - Off-Highw	Aggregate	175	Diesel	0.0008791	0.00104621	0.011969	0.00848817	1.9832493	0.000409506	0.000376745	64344.34072	18065.45107	26.36312061	2856253.861	0.000224681	0.000267389	0.003059034	0.002169403	0.506877921	0.000104661	9.62884E-05
San Diego	2022	Construction and Mining - Off-Highw	Aggregate	25	Diesel	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Construction and Mining - Off-Highw	Aggregate	300	Diesel	0.00058551	0.0006968	0.003746	0.00566306	1.6709773	0.000200036	0.000184033	54213.01956	11270.66765	17.3415204	2410436.838	0.00017732	0.000211025	0.001134542	0.001715056	0.506054936	6.05809E-05	5.57345E-05
San Diego	2022	Construction and Mining - Off-Highw	Aggregate	50	Diesel	0.00240791	0.00286561	0.015927	0.01327474	1.8228064	0.000803022	0.00073878	59138.94741	62702.22798	95.12776219	2366895.551	0.000742648	0.000883813	0.004912088	0.004094207	0.562191559	0.000247669	0.000227855
San Diego	2022	Construction and Mining - Off-Highw	Aggregate	600	Diesel	0.00142427	0.00169499	0.0112	0.01106729	5.5882302	0.000384077	0.000353351	181303.9758	22562.17574	32.77848075	8070947.535	0.000128822	0.000153309	0.001012978	0.001001012	0.505443513	3.47389E-05	3.19598E-05
San Diego	2022	Construction and Mining - Off-Highw	Aggregate	75	Diesel	0.00064462	0.00076715	0.007313	0.00635865	1.0475561	0.000347294	0.00031951	33986.80314	21381.14141	35.08400081	1506284.595	0.000312406	0.000371789	0.003544193	0.003081632	0.507683566	0.000168311	0.000154846
San Diego	2022	Construction and Mining - Off-Highw	Aggregate	750	Diesel	0.00010909	0.00012983	0.000499	0.00080971	0.2450784	4.08477E-05	3.75799E-05	7951.298864	563.1497812	0.801920018	358791.558	0.000221963	0.000264154	0.001015757	0.001647437	0.498638359	8.31091E-05	7.64604E-05
San Diego	2022	Construction and Mining - Off-Highw	Aggregate	9999	Diesel	0.00014954	0.00017797	0.000749	0.00210678	0.3083447	5.63048E-05	5.18004E-05	10003.90399	271.4981967	0.501200012	444327.8111	0.000245689	0.00029239	0.001230876	0.003461291	0.5065891	9.2505E-05	8.51046E-05
San Diego	2022	Construction and Mining - Off-Highw	Aggregate	100	Diesel	7.7564E-05	9.2308E-05	0.000908	0.00069834	0.1246122	4.45134E-05	4.09523E-05	4042.904275	2338.547411	1.787739447	204234.1617	0.000277241	0.00032994	0.003245428	0.002496096	0.445404802	0.000159106	0.000146377
San Diego	2022	Construction and Mining - Off-Highw	Aggregate	175	Diesel	0.00195003	0.0023207	0.026132	0.01469715	4.1709604	0.000719576	0.00066201	135322.2166	43495.25733	30.98748375	6864235.139	0.000207383	0.000246803	0.00277914	0.001563018	0.443574707	7.65258E-05	7.04037E-05
San Diego	2022	Construction and Mining - Off-Highw	Aggregate	25	Diesel	2.845E-05	3.3857E-05	0.000103	6.7775E-05	0.0071814	7.29363E-06	6.71014E-06	232.9918249	424.6644169	0.297956575	10616.61042	0.001956193	0.002328032	0.007107323	0.004660212	0.493792655	0.000501511	0.00046139
San Diego	2022	Construction and Mining - Off-Highw	Aggregate	300	Diesel	0.00350771	0.00417446	0.021152	0.02661557	8.5039112	0.00105182	0.000967675	275900.0347	66533.1034	52.2417194	14028874.38	0.000182525	0.00021722	0.001100676	0.001384955	0.442505581	5.4732E-05	5.03535E-05
San Diego	2022	Construction and Mining - Off-Highw	Aggregate	50	Diesel	0.00021096	0.00025106	0.001555	0.00124609	0.1686235	7.48781E-05	6.88878E-05	5470.802998	8683.326515	5.363218341	250473.0219	0.000614844	0.000731715	0.004531331	0.003631706	0.491450684	0.000218231	0.000200773
San Diego	2022	Construction and Mining - Off-Highw	Aggregate	600	Diesel	0.01343069	0.01598363	0.084984	0.10259345	36.372331	0.003713281	0.003416218	1180060.235	158856.146	116.6996584	59735196.43	0.000164131	0.00019533	0.00103856	0.001253754	0.444491749	4.53785E-05	4.17482E-05
San Diego	2022	Construction and Mining - Off-Highw	Aggregate	75	Diesel	3.1588E-05	3.7592E-05	0.000389	0.00022086	0.0505058	8.96746E-06	8.25006E-06	1638.605559	1164.735481	0.794550865	83027.03682	0.000277731	0.000330523	0.003417463	0.001941902	0.444063123	7.88447E-05	7.25371E-05
San Diego	2022	Construction and Mining - Off-Highw	Aggregate	750	Diesel	0.00617716	0.00735133	0.041158	0.0526722	12.380029	0.002053084	0.001888837	401656.4192	30719.5863	25.12767112	20368607.11	0.000221386	0.000263468	0.001475094	0.001887744	0.443693641	7.35814E-05	6.76949E-05
San Diego	2022	Construction and Mining - Off-Highw	Aggregate	9999	Diesel	0.00863964	0.01028189	0.051191	0.14564088	21.867881	0.003027461	0.002785264	709479.3095	28242.62302	19.96309049	35808604.7	0.000176129	0.000209608	0.001043579	0.002969058	0.445802151	6.17183E-05	5.67808E-05
San Diego	2022	Construction and Mining - Other	Aggregate	100	Diesel	0.00230034	0.0027376	0.020276	0.02170637	2.9580476	0.001509498	0.001388738	95970.59551	54447.21762	120.5884971	4470955.052	0.000375591	0.000446984	0.003310544	0.003544132	0.482978401	0.000246465	0.000226748
San Diego	2022	Construction and Mining - Other	Aggregate	175	Diesel	0.00094835	0.00112862	0.010093	0.00960892	1.678554	0.000502428	0.000462234	54458.83754	16714.82576	40.42679945	2544734.913	0.000272051	0.000323763	0.002895411	0.00275648	0.481521454	0.00014413	0.0001326
San Diego	2022	Construction and Mining - Other	Aggregate	25	Diesel	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Construction and Mining - Other	Aggregate	300	Diesel	0.00098293	0.00116977	0.005819	0.01128211	2.2048298	0.000435148	0.000400337	71533.27339	15162.39767	37.26382247	3320653.864	0.000216084	0.000257158	0.00127924	0.002480217	0.484701445	9.56614E-05	8.80085E-05
San Diego	2022	Construction and Mining - Other	Aggregate	50	Diesel	0.00153097	0.00182198	0.008602	0.00789273	0.9853903	0.000578977	0.000532658	31969.90234	34932.05955	73.44037161	1332163.048	0.000838943	0.000998412	0.004713815	0.004325066	0.539975121	0.000317268	0.000291887
San Diego	2022	Construction and Mining - Other	Aggregate	600	Diesel	0.00287903	0.00342628	0.022271	0.03041535	8.4920505	0.001121286	0.001031583	275515.2273	33675.12236	75.41723222	12832045.62	0.000163785	0.000194917	0.00126698	0.001730293	0.483102778	6.37887E-05	5.86856E-05
San Diego	2022	Construction and Mining - Other	Aggregate	75	Diesel	0.00026546	0.00031591	0.001135	0.00220085	0.1285134	0.000172667	0.000158854	4169.474994	2683.468318	8.895872739	196566.4881	0.000985836	0.001173226	0.004213641	0.00817343	0.477267343	0.000641245	0.000589945
San Diego	2022	Construction and Mining - Other	Aggregate	750	Diesel	0.00059823	0.00071195	0.00349	0.00690124	1.6802689	0.000226907	0.000208754	54514.47313	4147.034603	8.302814557	2546790.767	0.000171474	0.000204069	0.001000255	0.001978137	0.481624283	6.50394E-05	5.98363E-05
San Diego	2022	Construction and Mining - Other	Aggregate	9999	Diesel	0.00013196	0.00015704	0.001018	0.00296597	0.5435136	5.39452E-05	4.96296E-05	17633.69866	894.4894392	1.878017578	821316.3189	0.000117284	0.000139578	0.000905152	0.002636206	0.483084148	4.79475E-05	4.41117E-05
San Diego	2022	Construction and Mining - Pavers	Aggregate	100	Diesel	0.00044776	0.00053287	0.006325	0.00527539	0.9789393	0.000277677	0.000255463	31760.60825	18287.64099	46.00192943	1484311.758	0.000220213	0.000262072	0.003110766	0.00259449	0.481452567	0.000136564	0.000125639
San Diego	2022	Construction and Mining - Pavers	Aggregate	175	Diesel	0.00065862	0.00078381	0.009033	0.00665126	1.5916442	0.000319557	0.000293992	51639.14405	15192.30415	39.35940945	2398785.31	0.000200432	0.00023853	0.002748977	0.002024115	0.484370269	9.72478E-05	8.9468E-05
San Diego	2022	Construction and Mining - Pavers	Aggregate	25	Diesel	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Construction and Mining - Pavers	Aggregate	300	Diesel	0.00035205	0.00041896	0.002385	0.00468775	1.2429661	0.00014336	0.000131891	40326.6655	8518.943214	18.93613906	1876822.16	0.00013693	0.000162958	0.000927794	0.001823325	0.483458293	5.57607E-05	5.12998E-05
San Diego	2022	Construction and Mining - Pavers	Aggregate	50	Diesel	0.00022329	0.00026573	0.001046	0.00090432	0.1205584	6.74365E-05	6.20416E-05	3911.383591	4221.418364	11.89705072	163710.8546	0.000995649	0.001184904	0.004664931	0.004032453	0.537579572	0.000300705	0.000276648
San Diego	2022	Construction and Mining - Pavers	Aggregate	600	Diesel	4.725E-05	5.6231E-05	0.000417	0.00054493	0.2260504	1.57846E-05	1.45218E-05	7333.957675	906.0295894	2.081983875	341369.8648	0.000101041	0.000120247	0.000890773	0.001165307	0.483395989	3.37545E-05	3.10541E-05
San Diego	2022	Construction and Mining - Pavers	Aggregate	75	Diesel	0.00036677	0.00043649	0.001456	0.00274025	0.1841581	0.000264147	0.000243015	5974.806019	3888.339237	11.50048236	280667.1418	0.000953957	0.001135288	0.003788253	0.007127234	0.478985163	0.000687032	0.00063207

San Diego	2022	Construction and Mining - Pavers	Aggregate	750	Diesel	4.6212E-06	5.4996E-06	8.26E-05	2.2873E-05	0.0466278	7.76649E-07	7.14517E-07	1512.7865	93.8873162	0.198284179	70415.48715	4.79083E-05	5.70148E-05	0.000856575	0.000237126	0.483391796	8.05155E-06	7.40743E-06
San Diego	2022	Construction and Mining - Paving Eq	Aggregate	100	Diesel	0.00030715	0.00036554	0.004065	0.00321047	0.624123	0.000170253	0.000156632	20248.98422	12370.48194	26.82429906	1101103.205	0.000203634	0.000242341	0.002694723	0.002128447	0.413775754	0.000112873	0.000103843
San Diego	2022	Construction and Mining - Paving Eq	Aggregate	175	Diesel	0.00030978	0.00036866	0.003977	0.00293803	0.6765613	0.000155513	0.000143072	21950.28527	8245.970318	17.91586026	1197337.909	0.000188869	0.00022477	0.0024246	0.001791278	0.412489843	9.48142E-05	8.7229E-05
San Diego	2022	Construction and Mining - Paving Eq	Aggregate	25	Diesel	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Construction and Mining - Paving Eq	Aggregate	300	Diesel	0.00016972	0.00020198	0.000996	0.00193136	0.4540697	7.38231E-05	6.79172E-05	14731.7924	3474.237031	7.423699002	801875.5468	0.000154503	0.000183872	0.000907085	0.001758245	0.413369513	6.7206E-05	6.18295E-05
San Diego	2022	Construction and Mining - Paving Eq	Aggregate	50	Diesel	0.00014729	0.00017529	0.001094	0.00098869	0.1501014	4.85215E-05	4.46398E-05	4869.874297	6902.001648	14.6494327	239816.42	0.000448362	0.000533588	0.003329959	0.003009579	0.456907891	0.000147699	0.000135883
San Diego	2022	Construction and Mining - Paving Eq	Aggregate	600	Diesel	0.00015503	0.0001845	0.001011	0.00171978	0.4863084	5.53562E-05	5.09277E-05	15777.739	2164.642118	4.652184708	860361.0565	0.000131538	0.000156541	0.000857989	0.0014592	0.412623394	4.69687E-05	4.32112E-05
San Diego	2022	Construction and Mining - Paving Eq	Aggregate	75	Diesel	2.2904E-05	2.7258E-05	0.000171	0.00024192	0.0232361	1.77649E-05	1.63437E-05	753.8690595	594.8695249	1.4847398	40716.19168	0.000410647	0.000488704	0.003057624	0.004337303	0.416599354	0.000318507	0.000293027
San Diego	2022	Construction and Mining - Paving Eq	Aggregate	750	Diesel	2.2631E-05	2.6932E-05	0.00018	0.0002142	0.0970674	5.39057E-06	4.95932E-06	3149.244933	267.7534756	0.494913267	171292.12	9.64455E-05	0.000114778	0.000765835	0.000912842	0.413674622	2.29731E-05	2.11353E-05
San Diego	2022	Construction and Mining - Paving Eq	Aggregate	9999	Diesel	8.4156E-06	1.0015E-05	8.23E-05	0.00019529	0.0440507	3.21654E-06	2.95921E-06	1429.175078	92.26640036	0.197965307	77781.93236	7.89824E-05	9.39956E-05	0.000772249	0.001832848	0.413424804	3.01879E-05	2.77729E-05
San Diego	2022	Construction and Mining - Rollers	Aggregate	100	Diesel	0.00217169	0.00258449	0.02501	0.02274714	3.8409157	0.001301501	0.001197381	124614.2802	73567.6881	221.7043181	6422022.254	0.000246859	0.000293783	0.002842933	0.002585699	0.43660211	0.000147943	0.000136108
San Diego	2022	Construction and Mining - Rollers	Aggregate	175	Diesel	0.0012444	0.00148093	0.022063	0.01298121	3.9979671	0.000595954	0.000548278	129709.6382	46526.88222	129.7184418	6689774.668	0.000135791	0.000161602	0.002407592	0.001416533	0.43626521	6.50316E-05	5.9829E-05
San Diego	2022	Construction and Mining - Rollers	Aggregate	25	Diesel	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Construction and Mining - Rollers	Aggregate	300	Diesel	0.00027705	0.00032972	0.001938	0.00323055	0.6621403	0.000121459	0.000111742	21482.41367	5118.576801	16.62272486	1106939.746	0.000182709	0.000217439	0.001277902	0.002130471	0.436665537	8.0099E-05	7.3691E-05
San Diego	2022	Construction and Mining - Rollers	Aggregate	50	Diesel	0.00309485	0.00368313	0.01849	0.01734384	2.4720705	0.001049287	0.000965344	80203.60455	104106.1532	300.6367662	3717494.196	0.000607732	0.000723251	0.003630893	0.00340579	0.485437599	0.000206047	0.000189564
San Diego	2022	Construction and Mining - Rollers	Aggregate	600	Diesel	0.00011102	0.00013212	0.00102	0.00126828	0.3880885	4.29165E-05	3.94832E-05	12591.10255	1847.850726	6.01681452	645384.4579	0.000125577	0.000149447	0.001153203	0.001434562	0.438970244	4.85432E-05	4.46597E-05
San Diego	2022	Construction and Mining - Rollers	Aggregate	75	Diesel	0.00010122	0.00012046	0.000328	0.00075284	0.027428	5.44322E-05	5.00776E-05	889.8713069	657.0343019	2.855437399	45603.30635	0.001620244	0.001928224	0.005253824	0.012051113	0.439056788	0.000871329	0.000801623
San Diego	2022	Construction and Mining - Rough Ter	Aggregate	100	Diesel	0.00241907	0.0028789	0.059913	0.03594226	9.8461254	0.00096544	0.000888205	319446.6936	159463.8383	564.4275184	15354528.95	0.00011501	0.000136871	0.002848436	0.001708802	0.468114101	4.58999E-05	4.22279E-05
San Diego	2022	Construction and Mining - Rough Ter	Aggregate	175	Diesel	0.00103364	0.00123012	0.012321	0.00917593	2.1656224	0.000612534	0.000563531	70261.23434	26958.12555	98.38644817	3379566.841	0.000223271	0.000265711	0.002661403	0.001982038	0.467783133	0.00013231	0.000121725
San Diego	2022	Construction and Mining - Rough Ter	Aggregate	25	Diesel	8.5733E-07	1.0203E-06	8.81E-06	1.0987E-05	0.0012939	6.14786E-07	5.65603E-07	41.97975159	72.59673554	0.235374278	1814.918389	0.000344838	0.000410386	0.003543511	0.004419241	0.520442299	0.00024728	0.000227498
San Diego	2022	Construction and Mining - Rough Ter	Aggregate	300	Diesel	3.5072E-05	4.1738E-05	0.000297	0.00047148	0.1589445	1.08613E-05	9.99243E-06	5156.777916	1179.428076	4.707485558	247986.7852	0.00010324	0.000122864	0.000874853	0.001387886	0.467885637	3.19726E-05	2.94148E-05
San Diego	2022	Construction and Mining - Rough Ter	Aggregate	50	Diesel	0.00016829	0.00020028	0.000914	0.00085557	0.1246295	5.03155E-05	4.62903E-05	4043.467481	3663.715254	13.41633384	175005.852	0.000701979	0.000835414	0.003812685	0.003568823	0.519865751	0.00020988	0.00019309
San Diego	2022	Construction and Mining - Rough Ter	Aggregate	600	Diesel	7.7444E-06	9.2164E-06	0.000106	6.6456E-05	0.0590931	1.00596E-06	9.2548E-07	1917.210462	240.9136113	0.941497112	92800.81036	6.09196E-05	7.24994E-05	0.000833424	0.00052276	0.464844659	7.91316E-06	7.28011E-06
San Diego	2022	Construction and Mining - Rough Ter	Aggregate	75	Diesel	1.1495E-05	1.368E-05	3.85E-05	9.4744E-05	0.0034357	6.46193E-06	5.94498E-06	111.4680437	80.79747789	0.353061417	5360.126193	0.001565561	0.001863147	0.005246965	0.012903294	0.467913083	0.000880056	0.000809651
San Diego	2022	Construction and Mining - Rough Ter	Aggregate	750	Diesel	2.1029E-06	2.5026E-06	1.88E-05	2.5794E-05	0.0101682	1.82679E-07	1.68065E-07	329.8968087	25.40885744	0.117687139	15880.5359	9.66669E-05	0.000115042	0.000863125	0.001185708	0.467415149	8.39742E-06	7.72563E-06
San Diego	2022	Construction and Mining - Rubber Ti	Aggregate	100	Diesel	0.00045585	0.0005425	0.002775	0.0038154	0.3502638	0.000291648	0.000268316	11363.92263	6529.69828	7.567891187	551911.7524	0.000602937	0.000717545	0.003670409	0.00504653	0.463285225	0.000385755	0.000354895
San Diego	2022	Construction and Mining - Rubber Ti	Aggregate	175	Diesel	0.0006012	0.00071548	0.003554	0.00547039	0.4932187	0.000349271	0.000321329	16001.93731	5489.628201	6.985745711	782398.1389	0.00056094	0.000667565	0.003316355	0.005104032	0.460187247	0.00032588	0.00029981
San Diego	2022	Construction and Mining - Rubber Ti	Aggregate	25	Diesel	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Construction and Mining - Rubber Ti	Aggregate	300	Diesel	0.00053781	0.00064004	0.003047	0.00594041	0.5332775	0.000271896	0.000250145	17301.60235	3812.481947	5.433357776	843434.2961	0.00046548	0.00055396	0.002637461	0.005141476	0.461556523	0.000235329	0.000216502
San Diego	2022	Construction and Mining - Rubber Ti	Aggregate	50	Diesel	0.00023632	0.00028124	0.001172	0.00085358	0.1098155	6.94794E-05	6.39211E-05	3562.841357	3779.120791	3.977994086	156753.2133	0.001100538	0.001309732	0.005458634	0.003975123	0.511410754	0.000323566	0.000297681
San Diego	2022	Construction and Mining - Rubber Ti	Aggregate	600	Diesel	0.00491227	0.005846	0.039005	0.05076444	5.5487608	0.00227733	0.002095143	180023.433	23687.52956	32.60014665	8742865.325	0.000410158	0.000488122	0.00325678	0.004238661	0.463302959	0.000190149	0.000174937
San Diego	2022	Construction and Mining - Rubber Ti	Aggregate	75	Diesel	0.00018542	0.00022066	0.000937	0.00149665	0.1104005	0.00011251	0.000103509	3581.821587	2544.979664	3.39584861	174162.6017	0.000777179	0.000924908	0.003928841	0.006273198	0.462741947	0.000471582	0.000433856
San Diego	2022	Construction and Mining - Rubber Ti	Aggregate	750	Diesel	7.5249E-05	8.9553E-05	0.000327	0.00108668	0.1586424	3.04766E-05	2.80385E-05	5146.977899	387.0337508	0.388096984	251747.0564	0.000218203	0.00025968	0.000948509	0.003151085	0.460021072	8.8374E-05	8.13041E-05
San Diego	2022	Construction and Mining - Rubber Ti	Aggregate	100	Diesel	0.00705712	0.00839856	0.061591	0.0604285	8.3716808	0.004273797	0.003931893	271609.9629	170449.5007	185.975609	14651182.3	0.000351623	0.000418461	0.00306877	0.00301087	0.417121761	0.000212943	0.000195908
San Diego	2022	Construction and Mining - Rubber Ti	Aggregate	175	Diesel	0.01111854	0.01323198	0.12445	0.09493079	19.851466	0.0051205	0.00471086	644058.9592	229952.5276	243.9223321	34502182.58	0.000235247	0.000279963	0.002633114	0.002008553	0.420018945	0.00010834	9.96728E-05
San Diego	2022	Construction and Mining - Rubber Ti	Aggregate	25	Diesel	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Construction and Mining - Rubber Ti	Aggregate	300	Diesel	0.01230494	0.01464389	0.067495	0.12671744	28.777631	0.004272952	0.003931116	933658.5383	239776.1444	224.9101437	50039882.29	0.000179509	0.00021363	0.000984644	0.0018486	0.419818543	6.23354E-05	5.73485E-05
San Diego	2022	Construction and Mining - Rubber Ti	Aggregate	50	Diesel	0.00069065	0.00082193	0.003636	0.00278236	0.3439806	0.00020763	0.00019102	11160.07157	12862.1036	14.96704194	534646.8563	0.000943002	0.00112225	0.004964156	0.003798996	0.469666718	0.000283496	0.000260816
San Diego	2022	Construction and Mining - Rubber Ti	Aggregate	600	Diesel	0.01726203	0.02054324	0.098754	0.16079261	37.083871	0.006036895	0.005553943	1203145.341	195917.7089	201.2460369	64615332.86	0.00019502	0.00023209	0.001115681	0.001816575	0.418959779	6.82026E-05	6.27464E-05
San Diego	2022	Construction and Mining - Rubber Ti	Aggregate	750	Diesel	0.00121302	0.00144359	0.010075	0.00886812	3.6069441	0.000313204	0.000288148	117023.3281	9756.266818	9.708351528	6304197.228	0.000140463	0.000167162	0.001166605	0.001026892	0.417669225	3.62678E-05	3.33663E-05
San Diego	2022	Construction and Mining - Rubber Ti	Aggregate	9999	Diesel	0.00099197	0.00118052	0.005555	0.01837185	2.5742546	0.000385699	0.000354844	83518.85509	4650.610793	3.944017808	4455418.959	0.000162529	0.000193423	0.000910172	0.003010144	0.42177983	6.31951E-05	5.81395E-05
San Diego	2022	Construction and Mining - Scrapers	Aggregate	100	Diesel	0.00028856	0.00034341	0.002093	0.00301127	0.2782774	0.000223828	0.000205922	9028.404091	3991.281624	6.599359581	359946.1388	0.000585218	0.000696458	0.004244378	0.006107092	0.564369185	0.000453942	0.000417626
San Diego	2022	Construction and Mining - Scrapers	Aggregate	175	Diesel	0.0028007	0.00333307	0.024088	0.02749477	3.7542022	0.001467078	0.001349711	121800.9574	29073.65905	65.09368314	4852971.098	0.000421291	0.000501371	0.003623326	0.004135855	0.564719547	0.000220683	0.000203028
San Diego	2022	Construction and Mining - Scrapers	Aggregate	25	Diesel	1.9786E-07	2.3547E-07	4.61E-06	4.227E-06	0.0008791	1.47364E-08	1.35575E-08	28.5204933	41.12014952	0.099990297	1028.003738	0.000140506	0.000167214	0.003271566	0.003001676	0.624240817	1.04645E-05	9.62736E-06
San Diego	2022	Construction and Mining - Scrapers	Aggregate	300	Diesel	0.00284521	0.00338603	0.014801	0.03054421	4.4247758	0.001331707	0.00122517	143556.9791	25826.88057	63.59382869	5768411.022	0.000360065	0.000428507	0.001873112	0.003865409	0.559961201	0.000168529	0.000155047
San Diego	2022	Construction and Mining - Scrapers	Aggregate	50	Diesel	4.071E-05	4.8448E-05	0.000115	8.1404E-05	0.0069967	1.13413E-05	1.0434E-05	227.0012527	214.8527812	0.59994178	8321.233368	0.003571385	0.004250243	0.010063572	0.00714134	0.613804934	0.000994938	0.000915343
San Diego	2022	Construction and Mining - Scrapers	Aggregate	600	Diesel	0.02536417	0.03018545	0.187974	0.2747953	54.831886	0.010484118	0.009645388	1778960.15	168543.7257	350.9659413	71191267.31	0.000260086	0.000309524	0.001927501	0.002817769	0.562249812	0.000107505	9.89045E-05
San Diego	2022	Construction and Mining - Scrapers	Aggregate	75	Diesel	0.00011852	0.00014105	0.000513	0.00091012	0.0617442	7.86626E-05	7.23696E-05	2003.223597	1183.11808	2.69973801	80218.04434	0.001078532	0.001283542	0.00466421	0.008282242	0.561884667	0.000715845	0.000658578
San Diego	2022	Construction and Mining - Scrapers	Aggregate	750	Diesel	0.00109424	0.00130224	0.010155	0.01502409	0.8424763	0.000608332	0.000559665	27333.21512	1752.63215	4.799534241	1090660.033	0.000732396	0.000871611	0.006796853	0.010055918	0.563885782	0.000407168	0.000374595
San Diego	2022	Construction and Mining - Scrapers	Aggregate	9999	Diesel	0.0012011	0.00142941	0.012062	0.01646862	1.2670861	0.00061304	0.000563997	41109.21334	1031.887308	2.599747714	1648095.593	0.00053201	0.000633135	0.005342489	0.007294535	0.561237384	0.000271537	0.000249814
San Diego	2022	Construction and Mining - Skid Steer	Aggregate	100	Diesel	5.822E-05	6.9286E-05	0.000932	0.00085728	0.1427875	5.60464E-05	5.15627E-05	4632.581703	3244.875888	10.01396294	245096.4756	0.000173403	0.000206364	0.002775184	0.00255334	0.425280867	0.00016693	0.000153575
San Diego	2022	Construction and Mining - Skid Steer	Aggregate	175	Diesel	1.9894E-05	2.3676E-05	0.000365	0.00020057	0.0671401	9.0934E-06	8.36593E-06	2178.285394	752.6366678	2.787391747	114577.0216	0.000126751	0.000150844	0.002324503	0.001277896	0.427766799	5.79364E-05	5.33015E-05
San Diego	2022	Construction and Mining - Skid Steer	Aggregate	25	Diesel	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Construction and Mining - Skid Steer	Aggregate	300	Diesel	1.2261E-05	1.4592E-05	0.000116	0.00014676	0.0623936	4.20653E-06	3.87001E-06	2024.291952	517.953658	1.755024434	106229.6772	8.42585E-05	0.000100275	0.00079721	0.001008489	0.428762812	2.89069E-05	2.65943E-05
San Diego	2022	Construction and Mining - Skid Steer	Aggregate	50	Diesel	0.00115776	0.00137783	0.011598	0.01088945	1.8710453	0.000326717	0.00030058	60704.0046	65562.29571	208.2284872	2856841.748	0.00029584	0.000352073	0.002963652	0.002782548	0.478102464	8.34851E-05	7.68063E-05
San Diego	2022	Construction and Mining - Skid Steer	Aggregate	600	Diesel	5.4518E-06	6.4881E-06	3.39E-05	7.0913E-05	0.0180382	3.0709E-06	2.82523E-06	585.2291084	64.86213841	0.206473463	30666.81904	0.000129777	0.000154445	0.000806213	0.001688033	0.429385142	7.31004E-05	6.72523E-05
San Diego	2022	Construction and Mining - Skid Steer	Aggregate	75	Diesel	0.00302974	0.00360564	0.060603	0.04033463	9.8003413	0.001474747	0.001356767	317961.2814	236408.5786	661.9539216	16681372.26	0.000132586	0.000157788	0.00265207	0.0017651	0.428876537	6.4537E-05	5.9374E-05
San Diego	2022	Construction and Mining - Skid Steer	Aggregate	9999	Diesel	1.4659E-05	1.7445E-05	8.09E-05	0.00021592	0.0244172	7.19146E-06	6.61615E-06	792.1883026	41.62969974	0.206473463	41629.69974	0.000257051	0.000305912	0.001418235	0.003786365	0.428168753	0.000126106	0.000116018
San Diego	2022	Construction and Mining - Surfacing	Aggregate	100	Diesel	4.177E-05	4.971E-05	0.000668	0.00050303	0.1072867	2.37578E-05	2.18572E-05	3480.798855	2495.707701	8.991077381	222429.3851	0.000137088	0.000163146	0.002190883	0.001650915	0.352108565	7.79717E-05	7.17339E-05
San Diego	2022	Construction and Mining - Surfacing	Aggregate	175	Diesel	5.4024E-05	6.4293E-05	0.00052	0.00056095	0.088069	3.04551E-05	2.80187E-05	2857.300313	1326.543481	5.338452195	183121.2197	0.000215362	0.000256299	0.002071572	0.002236181	0.351080768	0.000121407	0.000111695
San Diego	2022	Construction and Mining - Surfacing	Aggregate	25	Diesel	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Construction and Mining - Surfacing	Aggregate	300	Diesel	7.0351E-05	8.3724E-05	0.000452	0.00098439	0.1785814	3.24673E-05	2.98699E-05	5793.877027	1636.701522	6.64965098	371121.7064	0.000138381	0.000164685	0.000888695	0.001936313	0.351271358	6.38634E-05	5.87543E-05
San Diego	2022	Construction and Mining - Surfacing	Aggregate	50	Diesel	1.2379E-05	1.4732E-05	0.000109	0.00011317	0.0173418	4.46845E-06	4.11097E-06	562.6371052	890.7815972	3.652625186	32226.0089	0.000280413	0.000333715	0.002472519	0.002563602	0.392836353	0.000101222	9.31238E-05
San Diego	2022	Construction and Mining - Surfacing	Aggregate	600	Diesel	0.00013385	0.0001593	0.00126	0.00148526	0.6262373	5.58401E-05	5.13729E-05	20317.57888	3162.349562	11.05153261	1303145.666	7.49827E-05	8.92357E-05	0.000705882	0.00083202	0.350807455	3.12807E-05	2.87782E-05
San Diego	2022	Construction and Mining - Surfacing	Aggregate	75	Diesel	1.1184E-05	1.331E-05	7.5E-05	0.00012961	0.0104568	7.95593E-06	7.31946E-06	339.2591029	326.0992443	1.311198785	21657.97546	0.000376968	0.000448624	0.002529615	0.004368532	0.352454837	0.000268161	0.000246708
San Diego	2022	Construction and Mining - Surfacing	Aggregate	750	Diesel	5.8994E-05	7.0208E-05	0.000469	0.00069245	0.2424855	2.78493E-05	2.56213E-05	7867.176265	789.6779929	2.716054626	504518.8611	8.53603E-05	0.000101586	0.00067859	0.00100192	0.350857931	4.02957E-05	3.70721E-05
San Diego	2022	Construction and Mining - Surfacing	Aggregate	9999	Diesel	2.841E-05	3.381E-05	0.000218	0.00064417	0.1034794	1.25161E-05	1.15148E-05	3357.274594	248.9609388	0.936570561	215248.1827	9.63501E-05	0.000114665	0.000740703	0.002184676	0.350943493	4.24476E-05	3.90518E-05
San Diego	2022	Construction and Mining - Tractors/L	Aggregate	100	Diesel	0.027474	0.03269633	0.390113	0.28332152	59.016931	0.014887841	0.013696814	1914739.316	1203674.54	1922.371008	100104539.9	0.000200351	0.000238434	0.002844852	0.002066087	0.430373681	0.000108568	9.98823E-05
San Diego	2022	Construction and Mining - Tractors/L	Aggregate	175	Diesel	0.00393483	0.00468277	0.060604	0.03449404	10.297894	0.00175485	0.001614462	334103.8341	122883.5582	221.359011	17623051.51	0.000162992	0.000193975	0.002510383	0.001428847	0.426569866	7.26912E-05	6.68759E-05
San Diego	2022	Construction and Mining - Tractors/L	Aggregate	25	Diesel	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Construction and Mining - Tractors/L	Aggregate	300	Diesel	0.0023563	0.0028042	0.015199	0.02467224	6.4919653	0.000867858	0.000798429	210624.6637	52981.36021	94.02680927	11070018.57	0.000155384	0.00018492	0.001002262	0.001626983	0.428105393	5.72299E-05	5.26515E-05
San Diego	2022	Construction and Mining - Tractors/L	Aggregate	50	Diesel	0.0044173	0.00525695	0.030562	0.02587936	3.6951842	0.00139811	0.001286262	119886.1817	150662.1183	291.4221843	5703885.394	0.000565339	0.0006728	0.003911465	0.003312117	0.472920523	0.000178934	0.00016462
San Diego	2022	Construction and Mining - Tractors/L	Aggregate	600	Diesel	0.00264614	0.00314913	0.019746	0.02400484	8.4742945	0.000881758	0.000811217	274939.1529	42876.09022	79.10030715	14535121.83	0.000132898	0.000158159	0.000991702	0.0012056	0.425605996	4.42847E-05	4.07419E-05
San Diego	2022	Construction and Mining - Tractors/L	Aggregate	75	Diesel	0.00164049	0.00195232	0.005472	0.0128691	0.5441668	0.001041854	0.000958506	17654.89275	12918.70131	56.35516107	926833.3031	0.001292094	0.001537698	0.004309874	0.010136063	0.428601095	0.000820594	0.000754946
San Diego	2022	Construction and Mining - Tractors/L	Aggregate	750	Diesel	7.6375E-05	9.0893E-05	0.000758	0.00068997	0.1603744	2.63161E-05	2.42108E-05	5203.172105	433.7010811	0.913867477	281607.5792	0.000197985	0.000235618	0.001963826	0.001788577	0.415732211	6.82182E-05	6.27607E-05
San Diego	2022	Construction and Mining - Tractors/L	Aggregate	9999	Diesel	0.00089703	0.00106754	0.005585	0.01741367	2.8938028	0.000330154	0.000303742	93886.24576	2661.711342	4.264714891	4926169.429	0.000132929	0.000158196	0.000827697	0.002580501	0.428827326	4.89249E-05	4.50109E-05
San Diego	2022	Construction and Mining - Trenchers	Aggregate	100	Diesel	0.00081472	0.00096959	0.006054	0.00767917	0.863684	0.000547808	0.000503984	28021.27567	12866.21204	38.98417229	1076798.975	0.000552329	0.000657317	0.004104215	0.005205978	0.585521831	0.000371378	0.000341668
San Diego	2022	Construction and Mining - Trenchers	Aggregate	175	Diesel	0.00014758	0.00017563	0.001274	0.00154086	0.201894	7.84997E-05	7.22197E-05	6550.228467	1794.968071	6.081096513	252396.5449	0.000426837	0.000507972	0.003686166	0.004456591	0.583932794	0.000227043	0.000208879
San Diego	2022	Construction and Mining - Trenchers	Aggregate	25	Diesel	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Construction and Mining - Trenchers	Aggregate	300	Diesel	0.00026261	0.00031252	0.001324	0.00299877	0.4359723	0.000125716	0.000115659	14144.64184	2410.988211	7.818552659	542240.3166	0.000353538	0.00042074	0.001782538	0.00403714	0.586934953	0.000169248	0.000155708
San Diego	2022	Construction and Mining - Trenchers	Aggregate	50	Diesel	0.00160534	0.00191048	0.010042	0.00948698	1.3101535	0.000612052	0.000563088	42506.48659	36813.09567	95.56008806	1467519.458	0.000798555	0.000950347	0.004995121	0.004719186	0.651720174	0.000304458	0.000280101
San Diego	2022	Construction and Mining - Trenchers	Aggregate	600	Diesel	0.00024569	0.00029239	0.002286	0.00251877	0.6615139	0.000104762	9.63809E-05	21462.08936	2161.156443	5.863914494	821654.6188	0.000218283	0.000259775	0.002031252	0.002237803	0.587722776	9.30758E-05	8.56298E-05
San Diego	2022	Construction and Mining - Trenchers	Aggregate	75	Diesel	0.00012933	0.00015392	0.00065	0.001079	0.0782155	7.40495E-05	6.81255E-05	2537.6146	1382.509962	5.10377743	97512.3606	0.000968215	0.001152255	0.004864506	0.008077632	0.585538988	0.000554351	0.000510003
San Diego	2022	Construction and Mining - Trenchers	Aggregate	750	Diesel	2.0909E-05	2.4883E-05	0.000376	0.00010418	0.2124924	3.53461E-06	3.25185E-06	6894.081807	409.6050151	0.868728073	265104.6274	5.75748E-05	6.85188E-05	0.001036105	0.000286885	0.585125395	9.73302E-06	8.95438E-06
San Diego	2022	Construction and Mining - Trenchers	Aggregate	9999	Diesel	3.7831E-05	4.5023E-05	0.000454	0.00043252	0.0170969	2.00969E-05	1.84891E-05	554.6896833	24.8095103	0.108591009	21336.17886	0.001294374	0.001540412	0.015544388	0.014798189	0.584956092	0.000687598	0.00063259
San Diego	2022	Industrial - Aerial Lifts	Aggregate	100	Diesel	0.00020208	0.0002405	0.006376	0.00314332	1.0668916	6.12743E-05	5.63724E-05	34614.12405	27645.14238	91.46141263	2171052.679	6.79492E-05	8.08652E-05	0.002143846	0.001056917	0.358734221	2.0603E-05	1.89548E-05
San Diego	2022	Industrial - Aerial Lifts	Aggregate	175	Diesel	3.8499E-05	4.5818E-05	0.001201	0.00030247	0.2223126	1.14334E-05	1.05187E-05	7212.688203	3469.200117	11.4810518	452603.4417	6.20954E-05	7.38987E-05	0.001936548	0.000487845	0.358566019	1.84408E-05	1.69655E-05
San Diego	2022	Industrial - Aerial Lifts	Aggregate	25	Diesel	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Industrial - Aerial Lifts	Aggregate	300	Diesel	1.8725E-06	2.2284E-06	2.41E-05	1.7113E-05	0.0132849	2.28607E-07	2.10319E-07	431.0142652	117.5950086	0.387001746	27046.85199	5.05391E-05	6.01458E-05	0.000649677	0.000461875	0.358562398	6.17016E-06	5.67655E-06
San Diego	2022	Industrial - Aerial Lifts	Aggregate	50	Diesel	0.00057463	0.00068385	0.011047	0.01031743	2.084699	8.6154E-05	7.92617E-05	67635.76267	82725.73078	273.3522332	3816047.074	0.000109925	0.000130819	0.002113262	0.001973697	0.398797559	1.6481E-05	1.51626E-05
San Diego	2022	Industrial - Aerial Lifts	Aggregate	600	Diesel	1.0688E-06	1.2719E-06	1.7E-05	4.6746E-06	0.0094342	1.61333E-07	1.48426E-07	306.0825941	39.19833621	0.129000582	19207.18474	4.06207E-05	4.8342E-05	0.000644454	0.000177664	0.358562398	6.13171E-06	5.64117E-06
San Diego	2022	Industrial - Aerial Lifts	Aggregate	75	Diesel	0.00051917	0.00061785	0.015501	0.00806084	2.5706615	0.000146662	0.000134929	83402.28187	72348.48703	239.6830813	5231657.972	7.2442E-05	8.6212E-05	0.002162928	0.00112477	0.358697552	2.04645E-05	1.88273E-05
San Diego	2022	Industrial - Forklifts	Aggregate	100	Diesel	0.01119435	0.0133222	0.116442	0.10453528	16.772042	0.006879358	0.00632901	544150.4215	635834.7227	834.1525827	52419731.09	0.000155893	0.000185526	0.001621584	0.001455764	0.233568356	9.58023E-05	8.81381E-05
San Diego	2022	Industrial - Forklifts	Aggregate	175	Diesel	0.00276888	0.00329519	0.032366	0.02518242	5.3414936	0.001346732	0.001238993	173298.8772	118054.6742	157.5097909	16680145.6	0.000121179	0.000144213	0.001416495	0.001102099	0.233768363	5.89392E-05	5.4224E-05
San Diego	2022	Industrial - Forklifts	Aggregate	25	Diesel	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

San Diego	2022	Industrial - Forklifts	Aggregate	300	Diesel	0.00051843	0.00061697	0.002879	0.00506137	1.164402	0.000197394	0.000181603	37777.74004	17281.10831	23.03999601	3629060.182	0.000104284	0.000124107	0.000579108	0.001018116	0.234224126	3.97066E-05	3.65301E-05
San Diego	2022	Industrial - Forklifts	Aggregate	50	Diesel	0.00205111	0.00244099	0.012661	0.01029338	1.4030862	0.000643942	0.000592426	45521.58513	92789.20331	126.719978	3934138.309	0.000380594	0.000452939	0.002349397	0.00190999	0.260349996	0.000119487	0.000109928
San Diego	2022	Industrial - Forklifts	Aggregate	600	Diesel	0.00012843	0.00015284	0.000685	0.00111787	0.292945	4.16767E-05	3.83426E-05	9504.278754	2572.127578	3.560726656	908643.3469	0.000103179	0.000122792	0.000550401	0.000898092	0.235350724	3.34829E-05	3.08042E-05
San Diego	2022	Industrial - Forklifts	Aggregate	75	Diesel	0.00038739	0.00046102	0.00129	0.00303632	0.127438	0.0002457	0.000226044	4134.584854	5480.42625	11.41527075	401491.9595	0.000704351	0.000838236	0.002345422	0.005520686	0.231710055	0.000446737	0.000410998
San Diego	2022	Industrial - Forklifts	Aggregate	9999	Diesel	4.0876E-06	4.8645E-06	4.44E-05	0.00010463	0.0232665	9.3207E-07	8.57504E-07	754.8560747	82.54735019	0.104727255	72641.66817	4.10773E-05	4.88854E-05	0.000446287	0.001051478	0.233812739	9.36668E-06	8.61734E-06
San Diego	2022	Industrial - Misc - Aerial Lifts	Aggregate	100	Gasoline	0.0008056	0.00096381	0.048359	0.00215707	1.76509	0.000123066	9.29834E-05	69777.05	24484.2	67.79	1640441.4	0.000358492	0.000428896	0.021519651	0.000959902	0.78546888	5.47648E-05	4.13778E-05
San Diego	2022	Industrial - Misc - Aerial Lifts	Aggregate	15	Gasoline	6.8326E-07	7.4444E-07	1.88E-05	5.1241E-07	7.873E-10	2.55076E-07	1.92724E-07	1.188571092	0	0.011635136	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Industrial - Misc - Aerial Lifts	Aggregate	15	Diesel	9.3782E-07	1.1209E-06	4.92E-06	5.873E-06	1.418E-08	2.06542E-07	1.56054E-07	0.366205886	0	0.170658796	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Industrial - Misc - Aerial Lifts	Aggregate	15	Electric	1.0034E-08	1.0975E-07	3.93E-06	1.0734E-07	3.609E-10	1.00177E-08	7.56895E-09	0.211317374	0	0.005333709	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Industrial - Misc - Aerial Lifts	Aggregate	2	Gasoline	0	0	0	0	0	0	0	0	0	0.003922564	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Industrial - Misc - Aerial Lifts	Aggregate	25	Gasoline	3.6166E-05	3.9405E-05	0.000941	2.3749E-05	3.717E-08	1.20433E-05	9.09938E-06	59.81282568	0	0.375868788	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Industrial - Misc - Aerial Lifts	Aggregate	25	Diesel	1.7489E-06	2.0902E-06	5.96E-06	1.11E-05	2.534E-08	3.98464E-07	3.01062E-07	0.519284894	0	0.240780684	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Industrial - Misc - Aerial Lifts	Aggregate	25	Electric	8.5764E-07	9.3805E-06	0.000241	6.6254E-06	2.12E-08	6.49311E-07	4.9059E-07	13.2410897	0	0.214394128	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Industrial - Misc - Aerial Lifts	Aggregate	25	Nat Gas	0	0.00026791	0.071861	0.00197725	0.4232821	0	0	28287.5	23944	63.79	451651	0	0.000433024	0.116148515	0.003195818	0.684147517	0	0
San Diego	2022	Industrial - Misc - Aerial Lifts	Aggregate	5	Gasoline	0	0	0	0	0	0	0	0	0	0.003922564	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Industrial - Misc - Aerial Lifts	Aggregate	50	Gasoline	0.00102273	0.00122358	0.09112	0.00164274	0.8792506	6.06147E-05	4.57978E-05	38846.95	24484.2	67.79	807978.6	0.000924022	0.00110549	0.082325891	0.001484201	0.794393448	5.47648E-05	4.13778E-05
San Diego	2022	Industrial - Misc - Forklifts	Aggregate	100	Gasoline	0.05434688	0.06502004	5.588098	0.28919439	70.188164	0.004893687	0.003697453	2996131.7	1428938.5	793.16	100025695	0.00039663	0.000474524	0.040782639	0.002110577	0.51224198	3.57147E-05	2.69845E-05
San Diego	2022	Industrial - Misc - Forklifts	Aggregate	100	Nat Gas	0	0.01061107	5.038088	0.50434457	112.13375	0	0	6236506.8	2620718.25	1454.71	183450277.5	0	4.22244E-05	0.020047962	0.002006928	0.44621159	0	0
San Diego	2022	Industrial - Misc - Forklifts	Aggregate	175	Gasoline	0.00283482	0.00339155	0.217156	0.01796604	5.2035157	0.000373037	0.00028185	210199.85	52224.2	28.99	7624733.2	0.000271409	0.00032471	0.02079076	0.001720088	0.498190081	3.57149E-05	2.69846E-05
San Diego	2022	Industrial - Misc - Forklifts	Aggregate	175	Nat Gas	0	0.00048746	0.295378	0.02518822	8.5587958	0	0	468130.75	95903.75	53.24	14001947.5	0	2.54138E-05	0.015399735	0.001313203	0.446217993	0	0
San Diego	2022	Industrial - Misc - Forklifts	Aggregate	25	Gasoline	2.4003E-07	2.6153E-07	1.96E-05	1.3511E-07	5.615E-09	5.02456E-10	3.79634E-10	1.177440142	0	0.002996674	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Industrial - Misc - Forklifts	Aggregate	25	Electric	1.6079E-07	1.7587E-06	2.55E-05	7.1323E-07	1.976E-09	7.88121E-08	5.95469E-08	1.482017296	0	0.007594682	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Industrial - Misc - Forklifts	Aggregate	25	Nat Gas	0	1.3129E-05	0.002068	5.7745E-05	0.0107623	0	0	751.9	762.85	0.61	17545.55	0	0.00054624	0.0860291	0.002402526	0.447777046	0	0
San Diego	2022	Industrial - Misc - Forklifts	Aggregate	50	Gasoline	0.02573731	0.03079185	3.288793	0.06367134	11.847727	0.000816772	0.000617117	648010.05	407186.7	226.03	16694654.7	0.001125404	0.001346422	0.143807635	0.002784129	0.518060481	3.57146E-05	2.69844E-05
San Diego	2022	Industrial - Misc - Forklifts	Aggregate	50	Nat Gas	0	0.00178809	0.298862	0.07820589	18.713439	0	0	996720.1	746709.7	414.48	30615097.7	0	4.2636E-05	0.007126198	0.001864776	0.44621157	0	0
San Diego	2022	Industrial - Misc - Other General Indu	Aggregate	100	Gasoline	0.00024829	0.00029705	0.019549	0.00157539	0.5065084	3.5315E-05	2.66824E-05	20367	5077.15	7.12	401094.85	0.000451895	0.000540642	0.035579958	0.00286724	0.921854599	6.42739E-05	4.85625E-05
San Diego	2022	Industrial - Misc - Other General Indu	Aggregate	15	Gasoline	7.6522E-06	8.3374E-06	0.000443	3.9755E-06	1.841E-07	3.90382E-08	2.94955E-08	26.94026342	0	0.39563007	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Industrial - Misc - Other General Indu	Aggregate	15	Diesel	5.2865E-07	6.3183E-07	3.11E-06	3.716E-06	8.97E-09	1.30684E-07	9.87393E-08	0.223757261	0	0.040905504	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Industrial - Misc - Other General Indu	Aggregate	175	Gasoline	3.4813E-05	4.165E-05	0.003678	0.00031808	0.1049992	7.52732E-06	5.68731E-06	4190.2	492.75	0.69	85738.5	0.000296404	0.000354615	0.031312169	0.002708181	0.893990772	6.40896E-05	4.84233E-05
San Diego	2022	Industrial - Misc - Other General Indu	Aggregate	2	Gasoline	0	0	0	0	0	0	0	0	0	0.00034201	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Industrial - Misc - Other General Indu	Aggregate	25	Gasoline	6.7571E-06	7.3621E-06	0.000583	3.8035E-06	1.673E-07	1.49715E-08	1.13118E-08	35.0329304	0	0.132667542	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Industrial - Misc - Other General Indu	Aggregate	25	Diesel	1.5384E-06	1.8387E-06	5.25E-06	9.7217E-06	2.244E-08	3.26928E-07	2.47013E-07	0.457134737	0	0.042638252	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Industrial - Misc - Other General Indu	Aggregate	5	Gasoline	0	0	0	0	0	0	0	0	0	0.00034201	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Industrial - Misc - Other General Indu	Aggregate	50	Gasoline	0.00080235	0.00095992	0.083423	0.00190052	0.5919581	4.08091E-05	3.08335E-05	27484.5	15446.8	21.64	463404	0.001263938	0.001512162	0.131416174	0.00299389	0.9325112	6.42865E-05	4.8572E-05
San Diego	2022	Industrial - Misc - Other Material Hai	Aggregate	100	Gasoline	0.00059557	0.00071254	0.030439	0.00281663	0.7002506	4.88232E-05	3.68886E-05	28389.7	10446.3	27.08	564100.2	0.000770731	0.000922094	0.039391369	0.003644995	0.906191718	6.31819E-05	4.77374E-05
San Diego	2022	Industrial - Misc - Other Material Hai	Aggregate	50	Gasoline	2.2132E-05	2.6478E-05	0.001821	4.7079E-05	0.0121517	8.37727E-07	6.32949E-07	547.5	226.3	0.6	9278.3	0.001741298	0.002083271	0.143284253	0.003704107	0.956073806	6.59109E-05	4.97993E-05
San Diego	2022	Industrial - Misc - Sweepers/Scrubbe	Aggregate	100	Gasoline	0.00130115	0.00155669	0.089145	0.00882192	3.0690128	0.000213979	0.000161673	121599.75	27174.25	52.64	1847849	0.000514025	0.000614975	0.03521715	0.003485134	1.212425559	8.45332E-05	6.38695E-05
San Diego	2022	Industrial - Misc - Sweepers/Scrubbe	Aggregate	15	Gasoline	3.0828E-06	3.3588E-06	0.000186	1.5611E-06	8.112E-08	8.16606E-09	6.16992E-09	11.29551028	0	0.175299952	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Industrial - Misc - Sweepers/Scrubbe	Aggregate	15	Diesel	2.1767E-07	2.6015E-07	1.28E-06	1.5301E-06	3.693E-09	5.3809E-08	4.06557E-08	0.092131515	0	0.019780969	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Industrial - Misc - Sweepers/Scrubbe	Aggregate	175	Gasoline	1.0067E-05	1.2044E-05	0.001198	0.00010478	0.0357279	2.56131E-06	1.93521E-06	1430.8	160.6	0.29	22484	0.000326851	0.000391041	0.038896465	0.003402081	1.159995656	8.31593E-05	6.28315E-05
San Diego	2022	Industrial - Misc - Sweepers/Scrubbe	Aggregate	2	Gasoline	0	0	0	0	0	0	0	0	0	0.000235532	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Industrial - Misc - Sweepers/Scrubbe	Aggregate	25	Gasoline	6.7813E-06	7.3885E-06	0.000633	3.8171E-06	1.818E-07	1.62668E-08	1.22905E-08	37.99169012	0	0.174598892	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Industrial - Misc - Sweepers/Scrubbe	Aggregate	25	Diesel	3.0899E-07	3.6929E-07	1.05E-06	1.9526E-06	4.507E-09	6.56621E-08	4.96114E-08	0.091813443	0	0.014692903	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Industrial - Misc - Sweepers/Scrubbe	Aggregate	5	Gasoline	0	0	0	0	0	0	0	0	0	0.000235532	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Industrial - Misc - Sweepers/Scrubbe	Aggregate	50	Gasoline	0.00222881	0.00266653	0.208832	0.0051676	1.913389	0.000131907	9.96633E-05	85169.1	32554.35	63.04	1139402.25	0.00142797	0.001708409	0.133795759	0.003310816	1.225883132	8.45113E-05	6.3853E-05
San Diego	2022	Industrial - Other General Industrial I	Aggregate	100	Diesel	0.00061571	0.00073275	0.003369	0.00485583	0.4247659	0.000418917	0.000385404	13781.06203	9767.500073	12.87328202	775814.3719	0.000579351	0.000689476	0.003170185	0.004569079	0.399682092	0.000394179	0.000362644
San Diego	2022	Industrial - Other General Industrial I	Aggregate	175	Diesel	0.00055981	0.00066623	0.007024	0.00490471	1.1360188	0.000260068	0.000239263	36856.87888	14030.6514	16.85566423	2083200.57	0.000196171	0.00023346	0.002461446	0.001718721	0.398086356	9.11337E-05	8.3843E-05
San Diego	2022	Industrial - Other General Industrial I	Aggregate	25	Diesel	2.2161E-06	2.6374E-06	6.09E-06	4.1933E-06	0.0003204	5.76499E-07	5.30379E-07	10.39621547	21.1591787	0.09261354	528.9794676	0.003058321	0.003639654	0.008404033	0.00578685	0.442207679	0.000795578	0.000731932
San Diego	2022	Industrial - Other General Industrial I	Aggregate	300	Diesel	0.00047168	0.00056133	0.002835	0.00507282	1.1463678	0.000164103	0.000150975	37192.64193	9777.86807	12.1323737	2099819.103	0.000163977	0.000195147	0.00098561	0.001763559	0.398533625	5.70503E-05	5.24863E-05
San Diego	2022	Industrial - Other General Industrial I	Aggregate	50	Diesel	0.00359592	0.00427944	0.026017	0.02151242	3.0171283	0.001218147	0.001120695	97887.40431	141468.9993	168.9270965	4969831.486	0.000528191	0.000628591	0.00382157	0.003159879	0.443174714	0.000178929	0.000164615
San Diego	2022	Industrial - Other General Industrial I	Aggregate	600	Diesel	0.00107537	0.00127978	0.007508	0.00782962	3.6047269	0.000271976	0.000250218	116951.3954	17409.56064	20.37497874	6613442.435	0.000118701	0.000141264	0.000828784	0.000864244	0.397894241	3.00211E-05	2.76194E-05
San Diego	2022	Industrial - Other General Industrial I	Aggregate	75	Diesel	0.00091584	0.00108992	0.013527	0.00967416	2.0046085	0.000481513	0.000442992	65037.31465	51485.35999	60.75448206	3677986.607	0.000181774	0.000216326	0.002684715	0.001920109	0.397870996	9.55698E-05	8.79242E-05
San Diego	2022	Industrial - Other General Industrial I	Aggregate	750	Diesel	0.00018592	0.00022126	0.002042	0.00140578	0.5949404	7.27485E-05	6.69286E-05	19302.18699	1722.991922	2.037497874	1089118.153	0.000124615	0.000148302	0.001368969	0.000942251	0.398768959	4.87609E-05	4.486E-05
San Diego	2022	Industrial - Other General Industrial I	Aggregate	9999	Diesel	5.4147E-05	6.444E-05	0.000394	0.00126443	0.205619	2.09062E-05	1.92337E-05	6671.08335	324.1586177	0.370454159	377239.5914	0.000104781	0.000124698	0.000762586	0.00244682	0.397895406	4.04558E-05	3.72194E-05
San Diego	2022	Industrial - Other Material Handling	Aggregate	100	Diesel	0.0005981	0.00071179	0.010188	0.00673841	1.5408961	0.000251697	0.000231561	49992.67782	26259.56841	33.71232757	2443080.68	0.000178715	0.000212685	0.003044347	0.002013457	0.460424488	7.52078E-05	6.91911E-05
San Diego	2022	Industrial - Other Material Handling	Aggregate	175	Diesel	0.00057079	0.00067929	0.006692	0.00463911	1.0765182	0.000300167	0.000276154	34926.44608	12343.02813	16.90900443	1705977.841	0.000244247	0.000290674	0.002863722	0.001985107	0.460649744	0.000128444	0.000118168
San Diego	2022	Industrial - Other Material Handling	Aggregate	25	Diesel	4.3167E-06	5.1372E-06	2.99E-05	2.1148E-05	0.0034209	8.34149E-07	7.67417E-07	110.9867923	195.3308769	0.317043833	4883.271923	0.000645302	0.000767963	0.004473002	0.003161364	0.511387625	0.000124697	0.000114721
San Diego	2022	Industrial - Other Material Handling	Aggregate	300	Diesel	0.00081947	0.00097523	0.003868	0.00786178	1.7103877	0.000312818	0.000287792	55491.64508	11550.71877	15.32378526	2713446.241	0.000220462	0.000262368	0.001040522	0.002115059	0.460146583	8.41575E-05	7.74249E-05
San Diego	2022	Industrial - Other Material Handling	Aggregate	50	Diesel	0.00026148	0.00031118	0.001412	0.00116413	0.1376907	9.19337E-05	8.4579E-05	4467.224547	5451.6389	7.186326881	195340.9976	0.000977149	0.001162888	0.005274882	0.004350411	0.514557847	0.000343561	0.000316076
San Diego	2022	Industrial - Other Material Handling	Aggregate	600	Diesel	0.00089016	0.00105937	0.00612	0.00837097	2.3516492	0.000306643	0.000282112	76296.66923	10255.83683	13.42152226	3727341.821	0.000174339	0.000207478	0.001198602	0.001639454	0.460570567	6.00561E-05	5.52516E-05
San Diego	2022	Industrial - Other Material Handling	Aggregate	75	Diesel	2.9067E-05	3.4592E-05	0.000231	0.00025878	0.030031	2.04135E-05	1.87805E-05	974.3235428	671.5857035	1.056812777	47858.14733	0.000443372	0.000527649	0.003529161	0.003947276	0.458075577	0.000311376	0.000286466
San Diego	2022	Industrial - Other Material Handling	Aggregate	750	Diesel	5.8827E-05	7.0009E-05	0.000211	0.00050201	0.1008536	2.54082E-05	2.33756E-05	3272.08247	256.7792183	0.317043833	160059.0461	0.000268298	0.000319296	0.000962215	0.002289591	0.459974589	0.000115882	0.000106612
San Diego	2022	Industrial - Other Material Handling	Aggregate	9999	Diesel	2.5871E-05	3.0789E-05	0.000306	0.00072546	0.1630376	6.29966E-06	5.79569E-06	5289.575031	256.7792183	0.317043833	258747.859	7.29891E-05	8.68631E-05	0.000864006	0.002046727	0.459974589	1.77731E-05	1.63512E-05
San Diego	2022	Lawn and Garden - Misc - Chainsaws	Aggregate	2	Gasoline	0.00241578	0.00221724	0.006177	6.917E-05	0.0327887	2.60523E-05	1.9684E-05	1870.677713	0	433.0590797	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Lawn and Garden - Misc - Chainsaws	Aggregate	2	Electric	0	0	0	0	0	0	0	0	0	260.7985612	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Lawn and Garden - Misc - Chainsaws	Aggregate	5	Gasoline	0.00194792	0.00178783	0.005728	6.2131E-05	0.0303981	2.41529E-05	1.82488E-05	1699.876382	0	308.1168961	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Lawn and Garden - Misc - Chainsaws	Aggregate	5	Electric	0	0	0	0	0	0	0	0	0	185.5553825	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Lawn and Garden - Misc - Chainsaws	Aggregate	2	Gasoline	0.00203626	0.00186891	0.003326	6.5382E-05	0.0176554	1.40282E-05	1.05991E-05	1094.263375	0	233.1856584	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Lawn and Garden - Misc - Chainsaws	Aggregate	2	Electric	0	0	0	0	0	0	0	0	0	140.4299945	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Lawn and Garden - Misc - Chainsaws	Aggregate	5	Gasoline	0.0018881	0.00173293	0.003084	6.0615E-05	0.0163682	1.30054E-05	9.8263E-06	1014.564756	0	165.9090979	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Lawn and Garden - Misc - Chainsaws	Aggregate	5	Electric	0	0	0	0	0	0	0	0	0	99.91443673	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Lawn and Garden - Misc - Chippers/S	Aggregate	15	Gasoline	2.3424E-06	2.1499E-06	0.000119	9.1777E-07	0.0002796	6.83012E-09	5.16053E-09	17.6766699	0	1.877094489	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Lawn and Garden - Misc - Chippers/S	Aggregate	15	Electric	0	0	0	0	0	0	0	0	0	0.693643	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Lawn and Garden - Misc - Chippers/S	Aggregate	2	Gasoline	7.4631E-07	6.8498E-07	8.67E-06	7.8346E-08	2.172E-05	4.52774E-10	3.42096E-10	1.406419549	0	0.649349131	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Lawn and Garden - Misc - Chippers/S	Aggregate	2	Electric	0	0	0	0	0	0	0	0	0	0.239954079	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Lawn and Garden - Misc - Chippers/S	Aggregate	25	Diesel	9.7111E-08	8.1253E-08	2.77E-07	5.1346E-07	6.735E-05	1.7267E-08	1.30461E-08	2.207171911	0	0.005259691	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Lawn and Garden - Misc - Chippers/S	Aggregate	5	Gasoline	2.7704E-06	2.5427E-06	0.000119	9.5451E-07	0.0002955	6.54765E-09	4.94711E-09	18.30392656	0	2.984851415	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Lawn and Garden - Misc - Chippers/S	Aggregate	5	Electric	0	0	0	0	0	0	0	0	0	1.102992578	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Lawn and Garden - Misc - Lawn Mow	Aggregate	15	Gasoline	5.571E-06	5.1131E-06	0.000305	2.2945E-06	0.0006995	1.02782E-07	7.76577E-08	44.64856825	0	6.521823155	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Lawn and Garden - Misc - Lawn Mow	Aggregate	15	Electric	0	0	0	0	0	0	0	0	0	2.519133448	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Lawn and Garden - Misc - Lawn Mow	Aggregate	2	Gasoline	3.2267E-07	2.9615E-07	6.57E-06	1.4362E-07	1.902E-05	1.51915E-08	1.1478E-08	1.132332695	0	0.43413803	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Lawn and Garden - Misc - Lawn Mow	Aggregate	2	Electric	0	0	0	0	0	0	0	0	0	0.16769109	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Lawn and Garden - Misc - Lawn Mow	Aggregate	25	Gasoline	4.5979E-06	4.22E-06	0.000257	1.4743E-06	0.0005892	8.65808E-08	6.54167E-08	37.59947181	0	1.7755755	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Lawn and Garden - Misc - Lawn Mow	Aggregate	25	Electric	0	0	0	0	0	0	0	0	0	0.685837613	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Lawn and Garden - Misc - Lawn Mow	Aggregate	5	Gasoline	0.00117436	0.00107785	0.048126	0.00064394	0.1428708	1.888E-05	1.42649E-05	8288.359496	0	1783.057866	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Lawn and Garden - Misc - Lawn Mow	Aggregate	5	Electric	0	0	0	0	0	0	0	0	0	688.7277685	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Lawn and Garden - Misc - Leaf Blowe	Aggregate	15	Gasoline	2.6282E-05	2.4122E-05	0.001689	1.8248E-05	0.0046273	7.27221E-08	5.49457E-08	274.6684037	0	14.89662742	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Lawn and Garden - Misc - Leaf Blowe	Aggregate	2	Gasoline	0.0030711	0.0028187	0.016955	0.00011878	0.0736632	3.98102E-05	3.00788E-05	4104.385256	0	494.1809165	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Lawn and Garden - Misc - Leaf Blowe	Aggregate	2	Electric	0	0	0	0	0	0	0	0	0	1137.86001	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Lawn and Garden - Misc - Leaf Blowe	Aggregate	25	Gasoline	5.6274E-07	5.1649E-07	3.68E-05	5.7557E-07	0.0001493	1.80673E-09	1.36508E-09	7.789180789	0	0.150210889	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Lawn and Garden - Misc - Leaf Blowe	Aggregate	5	Gasoline	0.00423541	0.00388732	0.01431	9.4079E-05	0.0936161	5.92075E-05	4.47345E-05	4831.251574	0	239.925399	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Lawn and Garden - Misc - Leaf Blowe	Aggregate	5	Electric	0	0	0	0	0	0	0	0	0	612.325408	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Lawn and Garden - Misc - Other	Aggregate	15	Gasoline	1.3333E-05	1.2237E-05	0.000663	4.6535E-06	0.0018242	4.5677E-08	3.45115E-08	108.4581809	0	13.59371855	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Lawn and Garden - Misc - Other	Aggregate	15	Diesel	3.641E-08	3.0465E-08	1.79E-07	2.1414E-07	2.938E-05	7.53091E-09	5.69002E-09	0.965012766	0	0.004057868	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Lawn and Garden - Misc - Other	Aggregate	25	Gasoline	2.4241E-06	2.2249E-06	0.000193	1.5297E-06	0.0004328	1.08364E-08	8.18749E-09	27.7393823	0	1.172260967	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

San Diego	2022	Lawn and Garden - Misc - Other	Aggregate	25	Diesel	6.2954E-09	5.2674E-09	1.8E-08	3.3286E-08	4.366E-06	1.11937E-09	8.45745E-10	0.143084699	0	0.00045236	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Lawn and Garden - Misc - Other	Aggregate	5	Gasoline	6.8831E-06	6.3174E-06	0.000298	2.4619E-06	0.0007201	1.66088E-08	1.25489E-08	45.11470211	0	11.06884877	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Lawn and Garden - Misc - Rear Engin	Aggregate	15	Gasoline	6.5089E-05	5.974E-05	0.002762	4.3449E-05	0.0083967	3.71721E-07	2.80856E-07	482.7326033	0	13.16058778	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Lawn and Garden - Misc - Rear Engin	Aggregate	15	Diesel	9.3466E-06	7.8203E-06	4.6E-05	5.4971E-05	0.0075409	1.9327E-06	1.46026E-06	247.7217252	0	8.771755059	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Lawn and Garden - Misc - Rear Engin	Aggregate	15	Electric	0	0	0	0	0	0	0	0	0	0.742406345	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Lawn and Garden - Misc - Rear Engin	Aggregate	25	Gasoline	0.00207057	0.0019004	0.098173	0.00096889	0.2178009	1.03927E-05	7.85223E-06	14122.34777	0	153.3910413	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Lawn and Garden - Misc - Rear Engin	Aggregate	25	Diesel	2.8212E-05	2.3606E-05	8.06E-05	0.00014917	0.0195673	5.01503E-06	3.78914E-06	641.2225715	0	17.87746365	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Lawn and Garden - Misc - Rear Engin	Aggregate	25	Electric	0	0	0	0	0	0	0	0	0	8.480091508	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Lawn and Garden - Misc - Rear Engin	Aggregate	5	Gasoline	6.2673E-06	5.7522E-06	0.000199	2.4764E-06	0.0004964	2.19072E-08	1.65521E-08	30.93552642	0	2.142161134	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Lawn and Garden - Misc - Rear Engin	Aggregate	5	Electric	0	0	0	0	0	0	0	0	0	0.120842173	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Lawn and Garden - Misc - Snowblow	Aggregate	15	Gasoline	6.3029E-07	5.7849E-07	4.03E-05	2.9307E-07	7.559E-05	2.22614E-09	1.68197E-09	5.25411063	0	1.334914659	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Lawn and Garden - Misc - Snowblow	Aggregate	15	Electric	0	0	0	0	0	0	0	0	0	0.122776647	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Lawn and Garden - Misc - Snowblow	Aggregate	25	Gasoline	2.0491E-09	1.8807E-09	1.72E-07	1.3469E-09	3.236E-07	9.531E-12	7.20121E-12	0.022418217	0	0.002749567	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Lawn and Garden - Misc - Snowblow	Aggregate	25	Electric	0	0	0	0	0	0	0	0	0	0.000252887	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Lawn and Garden - Misc - Snowblow	Aggregate	5	Gasoline	2.7529E-07	2.5267E-07	1.28E-05	1.1319E-07	3.11E-05	7.83339E-10	5.91856E-10	1.941424469	0	1.003591863	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Lawn and Garden - Misc - Snowblow	Aggregate	5	Electric	0	0	0	0	0	0	0	0	0	0.092303761	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Lawn and Garden - Misc - Tillers	Aggregate	15	Gasoline	9.9176E-06	9.1026E-06	0.000554	5.6599E-06	0.0014918	3.72987E-08	2.81813E-08	89.27757198	0	15.13011975	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Lawn and Garden - Misc - Tillers	Aggregate	2	Gasoline	4.1402E-05	3.7999E-05	0.000111	6.7728E-07	0.0006576	6.90122E-08	5.21425E-08	35.94914353	0	20.47386235	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Lawn and Garden - Misc - Tillers	Aggregate	2	Electric	0	0	0	0	0	0	0	0	0	6.255191566	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Lawn and Garden - Misc - Tillers	Aggregate	5	Gasoline	6.1476E-06	5.6424E-06	0.000268	1.9011E-06	0.0006803	1.42711E-08	1.07826E-08	41.79604864	0	10.17034885	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Lawn and Garden - Misc - Trimmers/	Aggregate	15	Gasoline	5.868E-07	5.3858E-07	2.91E-05	2.1031E-07	7.974E-05	1.28244E-09	9.68955E-10	4.748768213	0	0.587113639	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Lawn and Garden - Misc - Trimmers/	Aggregate	2	Gasoline	0.00448038	0.00411217	0.02234	0.00023878	0.1202175	3.57033E-05	2.69758E-05	6323.085247	0	1312.86997	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Lawn and Garden - Misc - Trimmers/	Aggregate	2	Electric	0	0	0	0	0	0	0	0	0	1928.1523	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Lawn and Garden - Misc - Trimmers/	Aggregate	25	Gasoline	6.5424E-07	6.0047E-07	2.95E-05	2.5446E-07	0.0001229	1.46261E-09	1.10508E-09	6.389767278	0	0.270258655	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Lawn and Garden - Misc - Trimmers/	Aggregate	5	Gasoline	0.00016414	0.00015065	0.002599	1.6585E-05	0.0092874	1.83125E-06	1.38361E-06	518.1446498	0	42.33275732	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Lawn and Garden - Misc - Trimmers/	Aggregate	5	Electric	0	0	0	0	0	0	0	0	0	31.08840669	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Lawn and Garden - Misc - Wood Split	Aggregate	15	Gasoline	0.00022176	0.00020354	0.008809	9.6706E-05	0.0232979	1.13415E-06	8.56907E-07	1411.505949	0	49.07644896	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Lawn and Garden - Misc - Wood Split	Aggregate	2	Gasoline	3.7561E-06	3.4474E-06	8.63E-05	1.7627E-06	0.0002141	1.00287E-08	7.57723E-09	13.48409825	0	1.314404631	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Lawn and Garden - Misc - Wood Split	Aggregate	25	Gasoline	1.3183E-07	1.21E-07	6E-06	5.0715E-08	1.512E-05	7.15837E-10	5.40854E-10	0.931509285	0	0.010686216	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Lawn and Garden - Misc - Wood Split	Aggregate	5	Gasoline	1.5235E-05	1.3983E-05	0.000481	4.3698E-06	0.0012322	5.7726E-08	4.36152E-08	75.93239175	0	4.728650796	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Light Commercial - Misc - Air Compre	Aggregate	100	Gasoline	0.00628309	0.00751702	0.284516	0.01697951	5.7018364	0.000397546	0.000300368	233654.75	62181.4	128.67	4352698	0.00105375	0.001260696	0.047716708	0.00284767	0.956266797	6.66732E-05	5.03753E-05
San Diego	2022	Light Commercial - Misc - Air Compre	Aggregate	15	Gasoline	0.00121198	0.0013205	0.074837	0.00075364	0.1573037	2.77736E-06	3.67593E-06	10409.46222	0	99.7496798	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Light Commercial - Misc - Air Compre	Aggregate	15	Diesel	2.6993E-07	3.2261E-07	1.35E-06	1.6854E-06	0.0002191	5.22524E-08	6.91576E-08	7.202533229	0	0.027214355	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Light Commercial - Misc - Air Compre	Aggregate	15	Electric	0	0	0	0	0	0	0	0	0	1206.977808	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Light Commercial - Misc - Air Compre	Aggregate	175	Gasoline	0.00055187	0.00066025	0.026022	0.00238207	0.714117	5.11946E-05	3.86803E-05	28648.85	4179.25	8.66	560019.5	0.000719378	0.000860656	0.033920508	0.003105091	0.930870123	6.67335E-05	5.04208E-05
San Diego	2022	Light Commercial - Misc - Air Compre	Aggregate	25	Gasoline	1.8036E-05	1.9651E-05	0.002349	2.4967E-05	0.0038278	6.64014E-08	8.78844E-08	282.7592463	0	1.032401706	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Light Commercial - Misc - Air Compre	Aggregate	25	Diesel	1.1367E-06	1.3586E-06	3.74E-06	6.8975E-06	0.0008783	2.01756E-07	2.6703E-07	28.79861643	0	0.054556669	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Light Commercial - Misc - Air Compre	Aggregate	25	Electric	0	0	0	0	0	0	0	0	0	6.394780832	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Light Commercial - Misc - Air Compre	Aggregate	5	Gasoline	0.00025675	0.00027974	0.009832	7.9234E-05	0.0250905	3.88663E-07	5.14408E-07	1545.138666	0	37.59663259	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Light Commercial - Misc - Air Compre	Aggregate	5	Electric	0	0	0	0	0	0	0	0	0	454.921773	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Light Commercial - Misc - Air Compre	Aggregate	50	Gasoline	0.00192945	0.00230837	0.148109	0.0027886	0.8891842	6.12996E-05	4.63152E-05	42763.4	19162.5	39.66	670687.5	0.002100078	0.002512511	0.161207046	0.003035209	0.967819588	6.67206E-05	5.04111E-05
San Diego	2022	Light Commercial - Misc - Air Compre	Aggregate	50	Diesel	0.00263822	0.00319225	0.019379	0.01603954	2.2230124	0.000724548	0.000666584	74492.85	72934.3	89.56	2698569.1	0.000713676	0.000863548	0.005242163	0.004338917	0.601355376	0.000196	0.00018032
San Diego	2022	Light Commercial - Misc - Gas Compr	Aggregate	100	Nat Gas	0	0.00072116	0.374585	0.02841542	8.9635274	0	0	495983.9	51231.4	6.02	4508363.2	0	0.000116771	0.060653291	0.004601062	1.451385949	0	0
San Diego	2022	Light Commercial - Misc - Gas Compr	Aggregate	175	Nat Gas	0	0.00020113	0.076201	0.00760384	2.332787	0	0	127374.05	8263.6	0.98	1206485.6	0	0.000121695	0.046106558	0.0046008	1.411483494	0	0
San Diego	2022	Light Commercial - Misc - Gas Compr	Aggregate	300	Nat Gas	0	0.00015473	0.087684	0.00735585	2.4042378	0	0	131921.95	6610.15	0.78	1388131.5	0	8.13707E-05	0.046111651	0.003868343	1.264356867	0	0
San Diego	2022	Light Commercial - Misc - Gas Compr	Aggregate	50	Nat Gas	0	0.00013225	0.023424	0.00480213	1.59508	0	0	84753	24790.8	2.92	793305.6	0	0.000121695	0.02155466	0.004418918	1.467792992	0	0
San Diego	2022	Light Commercial - Misc - Gas Compr	Aggregate	600	Nat Gas	0	0.00021791	0.123488	0.01035948	3.385968	0	0	185788.65	5785.25	0.69	1955414.5	0	8.13514E-05	0.04610073	0.003867427	1.264057641	0	0
San Diego	2022	Light Commercial - Misc - Generator	Aggregate	100	Gasoline	0.00222421	0.00266102	0.092704	0.01333146	3.8230577	0.000266553	0.000201395	150482.2	28959.1	252.13	2403605.3	0.000675516	0.000808181	0.028155059	0.004048905	1.161102505	8.09548E-05	6.11659E-05
San Diego	2022	Light Commercial - Misc - Generator	Aggregate	100	Nat Gas	0	1.1412E-05	0.007773	0.00084954	0.2478729	0	0	13494.05	2160.8	18.79	179346.4	0	4.6449E-05	0.031637291	0.003457915	1.008926022	0	0
San Diego	2022	Light Commercial - Misc - Generator	Aggregate	15	Gasoline	0.00109115	0.00118886	0.058235	0.00058068	0.1569509	2.65403E-06	3.51268E-06	9407.690434	0	221.3792655	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Light Commercial - Misc - Generator	Aggregate	15	Diesel	1.4086E-05	1.6835E-05	7.92E-05	9.8791E-05	0.0127881	3.04891E-06	4.03533E-06	420.2538514	0	2.710594945	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Light Commercial - Misc - Generator	Aggregate	175	Gasoline	0.00022041	0.00026369	0.019909	0.00233284	0.6179693	4.43018E-05	3.34725E-05	24586.4	2744.8	23.81	400740.8	0.000401496	0.000480346	0.036267151	0.004249565	1.125709142	8.07013E-05	6.09744E-05
San Diego	2022	Light Commercial - Misc - Generator	Aggregate	175	Nat Gas	0	1.2761E-05	0.009319	0.0011747	0.3614653	0	0	19498.3	1773.9	15.53	258989.4	0	3.59697E-05	0.026266916	0.003311066	1.018843483	0	0
San Diego	2022	Light Commercial - Misc - Generator	Aggregate	2	Gasoline	0.00327051	0.00356336	0.054331	0.00095588	0.1265436	6.12641E-06	8.10849E-06	8325.560854	0	534.4656581	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Light Commercial - Misc - Generator	Aggregate	2	Electric	0	0	0	0	0	0	0	0	0	168.4459718	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Light Commercial - Misc - Generator	Aggregate	25	Gasoline	3.8778E-05	4.225E-05	0.00342	2.237E-05	0.0056479	9.52104E-08	1.26014E-07	416.0871094	0	4.24507231	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Light Commercial - Misc - Generator	Aggregate	25	Diesel	2.009E-05	2.4011E-05	6.9E-05	0.00012709	0.0161549	3.7609E-06	4.97767E-06	529.5962573	0	1.982452273	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Light Commercial - Misc - Generator	Aggregate	5	Gasoline	0.00031587	0.00034415	0.013744	7.5073E-05	0.0313248	9.58492E-07	1.26859E-06	2014.57696	0	122.3790063	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Light Commercial - Misc - Generator	Aggregate	50	Gasoline	0.00980136	0.01172625	0.665516	0.02177992	7.7185109	0.000532107	0.000402037	333168.35	149945.65	1305.49	4798260.8	0.001491164	0.001784013	0.101250629	0.003313564	1.174282346	8.0954E-05	6.11652E-05
San Diego	2022	Light Commercial - Misc - Generator	Aggregate	50	Diesel	0.00502414	0.0060792	0.041751	0.04117534	6.1527688	0.001573814	0.001447908	205213.95	146803	434.89	4844499	0.000757069	0.000916053	0.006291371	0.006204563	0.927138442	0.000237152	0.00021818
San Diego	2022	Light Commercial - Misc - Pressure W	Aggregate	15	Gasoline	0.00040527	0.00044155	0.028901	0.00020867	0.0599832	8.16158E-07	1.08021E-06	3983.370632	0	135.672451	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Light Commercial - Misc - Pressure W	Aggregate	15	Diesel	1.3378E-07	1.5988E-07	7.53E-07	9.3862E-07	0.0001217	2.89284E-08	3.82876E-08	3.998980915	0	0.125492173	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Light Commercial - Misc - Pressure W	Aggregate	15	Electric	0	0	0	0	0	0	0	0	0	254.1267434	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Light Commercial - Misc - Pressure W	Aggregate	2	Gasoline	2.3565E-07	2.5675E-07	4.82E-06	8.0778E-08	1.158E-05	1.76939E-10	2.34184E-10	0.744956654	0	0.099126839	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Light Commercial - Misc - Pressure W	Aggregate	2	Electric	0	0	0	0	0	0	0	0	0	0.185673514	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Light Commercial - Misc - Pressure W	Aggregate	25	Gasoline	6.3781E-06	6.9493E-06	0.000507	3.1672E-06	0.0010523	1.43177E-08	1.89499E-08	69.79300032	0	0.900178743	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Light Commercial - Misc - Pressure W	Aggregate	25	Diesel	5.051E-08	6.0367E-08	1.73E-07	3.203E-07	4.084E-05	9.40896E-09	1.2453E-08	1.338829831	0	0.028818416	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Light Commercial - Misc - Pressure W	Aggregate	25	Electric	0	0	0	0	0	0	0	0	0	1.686116014	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Light Commercial - Misc - Pressure W	Aggregate	5	Gasoline	0.00075213	0.00081948	0.036788	0.00030804	0.0883822	1.3507E-06	1.78768E-06	5549.515778	0	354.539085	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Light Commercial - Misc - Pressure W	Aggregate	5	Electric	0	0	0	0	0	0	0	0	0	664.0836989	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Light Commercial - Misc - Pressure W	Aggregate	50	Gasoline	8.7962E-05	0.00010524	0.006237	0.00015857	0.0781495	5.38756E-06	4.0706E-06	3343.4	1335.9	11.67	38741.1	0.001657481	0.001982992	0.117524499	0.002987896	1.472573932	0.000101518	7.67024E-05
San Diego	2022	Light Commercial - Misc - Pressure W	Aggregate	50	Diesel	1.719E-05	2.08E-05	0.000171	0.00019015	0.0295641	6.19577E-06	5.70011E-06	985.5	1503.8	10.45	57144.4	0.0002196	0.000265717	0.002187272	0.002429155	0.377671352	7.91488E-05	7.28169E-05
San Diego	2022	Light Commercial - Misc - Pumps	Aggregate	100	Gasoline	0.00248937	0.00297825	0.121172	0.00739883	4.3811353	0.000305463	0.000230795	173331.2	29181.75	132.21	2713902.75	0.000669603	0.000801106	0.032593473	0.001990176	1.178461093	8.21651E-05	6.20803E-05
San Diego	2022	Light Commercial - Misc - Pumps	Aggregate	15	Gasoline	0.00013343	0.00014538	0.007734	7.8323E-05	0.018783	3.86104E-07	5.1102E-07	1171.054573	0	31.10728071	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Light Commercial - Misc - Pumps	Aggregate	15	Diesel	1.0368E-05	1.2392E-05	5.16E-05	6.4602E-05	0.0083285	2.0302E-06	2.68703E-06	273.8450867	0	2.035820794	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Light Commercial - Misc - Pumps	Aggregate	175	Gasoline	8.4893E-05	0.00010156	0.006585	0.00037182	0.1988973	1.42588E-05	1.07733E-05	7924.15	872.35	3.98	125618.4	0.000493332	0.000590217	0.038267397	0.00216075	1.15584209	8.28616E-05	6.26065E-05
San Diego	2022	Light Commercial - Misc - Pumps	Aggregate	2	Gasoline	6.0901E-05	6.6354E-05	0.000539	3.4013E-06	0.0016303	2.18268E-08	2.88884E-08	100.2615017	0	11.2754829	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Light Commercial - Misc - Pumps	Aggregate	2	Electric	0	0	0	0	0	0	0	0	0	901.6246392	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Light Commercial - Misc - Pumps	Aggregate	25	Gasoline	1.0075E-06	1.0977E-06	6.39E-05	7.1471E-07	0.0001547	3.67722E-09	4.86691E-09	9.642735856	0	0.103587348	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Light Commercial - Misc - Pumps	Aggregate	25	Diesel	8.4995E-06	1.0158E-05	2.79E-05	5.1364E-05	0.0065295	1.51099E-06	1.99983E-06	214.1008491	0	0.608033959	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Light Commercial - Misc - Pumps	Aggregate	5	Gasoline	0.00010178	0.0001109	0.003942	3.5519E-05	0.0101686	1.90702E-07	2.52401E-07	623.4539441	0	34.15274875	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Light Commercial - Misc - Pumps	Aggregate	50	Gasoline	0.00150935	0.00180577	0.11762	0.002538	1.1652872	8.03338E-05	6.06967E-05	51319	23035.15	104.31	714089.65	0.001542983	0.001846008	0.12024023	0.002594544	1.191250492	8.21237E-05	6.2049E-05
San Diego	2022	Light Commercial - Misc - Pumps	Aggregate	50	Diesel	0.00322508	0.00390235	0.025641	0.02441472	3.6011293	0.000977073	0.000898907	120212.75	76639.05	190.4	2835644.85	0.000830256	0.00100461	0.006600964	0.006285252	0.927064038	0.000251535	0.000231412
San Diego	2022	Light Commercial - Misc - Welders	Aggregate	100	Gasoline	0.00281487	0.00336768	0.112685	0.00898807	3.6704043	0.000255909	0.000193354	146003.65	43953.3	211.57	3076731	0.000667869	0.000799032	0.02673607	0.002132554	0.870857774	6.07183E-05	4.5876E-05
San Diego	2022	Light Commercial - Misc - Welders	Aggregate	15	Gasoline	0.00069877	0.00076134	0.036428	0.00030204	0.069672	2.02902E-06	2.68547E-06	4823.711835	0	101.8985033	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Light Commercial - Misc - Welders	Aggregate	15	Diesel	6.2526E-06	7.4729E-06	3.11E-05	3.8959E-05	0.0050229	1.2242E-06	1.62026E-06	165.1556924	0	0.92032022	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Light Commercial - Misc - Welders	Aggregate	15	Electric	0	0	0	0	0	0	0	0	0	430.2937046	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Light Commercial - Misc - Welders	Aggregate	175	Gasoline	0.00023637	0.0002828	0.0152	0.00125703	0.4569927	3.27615E-05	2.47531E-05	18228.1	3029.5	14.59	393835	0.000438137	0.000524182	0.028173766	0.002329986	0.847067157	6.07257E-05	4.58816E-05
San Diego	2022	Light Commercial - Misc - Welders	Aggregate	25	Diesel	1.0462E-05	1.2503E-05	3.43E-05	6.3223E-05	0.0080371	1.85983E-06	2.46154E-06	263.5338732	0	0.80993205	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Light Commercial - Misc - Welders	Aggregate	50	Gasoline	0.00364176	0.00435697	0.246894	0.0062031	2.3381016	0.000161187	0.000121785	103729.35	43062.7	207.3	1937821.5	0.001371895	0.001641321	0.093007669	0.002336782	0.880790184	6.07209E-05	4.5878E-05
San Diego	2022	Light Commercial - Misc - Welders	Aggregate	50	Diesel	0.0112979	0.01367045	0.083475	0.072177	10.216615	0.003197257	0.002941477	341994.05	287568.9	447.76	13228169.4	0.000623477	0.000754408	0.004606592	0.003983107	0.563806598	0.000176441	0.000162326
San Diego	2022	Locomotive - Line Haul	Aggregate		Diesel	0	0	0	0.001	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Locomotive - Passenger	Aggregate		Diesel	0.00000991	0.0000118	0.121663	0.52513875	53.548541	0.009713972	0.008936854	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Locomotive - Short Line	Aggregate		Diesel	9.44E-08	1.12E-07	0.005524	0.04527485	2.654459	0.000762673	0.000701659	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Locomotive - Switcher	Aggregate		Diesel	5.95E-07	7.08E-07	0.010676	0.06237333	3.9171138	0.001337108	0.00123014	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

San Diego	2022	Military Tactical Support - Misc - A/C	Aggregate	100	Diesel	0.00090998	0.00110107	0.012494	0.01015305	2.1308705	0.000509307	0.000468562	70817.3	20491.1	68.15	2069601.1	0.000320971	0.000388375	0.004406775	0.003581234	0.751611245	0.000179645	0.000165274
San Diego	2022	Military Tactical Support - Misc - A/C	Aggregate	300	Diesel	0.00045817	0.00055439	0.003255	0.00503451	1.8320201	0.000149715	0.000137737	60465.9	8541	28.5	1776528	0.000188269	0.000227806	0.001337362	0.002068749	0.752802476	6.15198E-05	5.65982E-05
San Diego	2022	Military Tactical Support - Misc - A/C	Aggregate	600	Diesel	0.00026386	0.00031927	0.001913	0.00277457	1.096877	8.69065E-05	7.99539E-05	36189.75	3390.85	11.24	1068117.75	0.000180333	0.000218203	0.001307184	0.001896264	0.749655397	5.93958E-05	5.46441E-05
San Diego	2022	Military Tactical Support - Misc - Airc	Aggregate	100	Diesel	0.00016655	0.00020152	0.002287	0.00185825	0.3900007	9.32155E-05	8.57582E-05	12950.2	5573.55	18.53	379001.4	0.00032079	0.000388156	0.004404281	0.003579208	0.75118595	0.000179544	0.00016518
San Diego	2022	Military Tactical Support - Misc - Airc	Aggregate	175	Diesel	0.00036886	0.00044632	0.005869	0.00377788	1.1470609	0.000166138	0.000152847	38058.55	7960.65	26.46	1114491	0.000241608	0.000292345	0.003844259	0.002474539	0.751333536	0.000108822	0.000100116
San Diego	2022	Military Tactical Support - Misc - Car	Aggregate	100	Diesel	8.5023E-05	0.00010288	0.001167	0.00094865	0.199097	4.75869E-05	4.37799E-05	6617.45	2394.4	7.92	193946.4	0.000320021	0.000387226	0.004393731	0.003570634	0.749386511	0.000179114	0.000164784
San Diego	2022	Military Tactical Support - Misc - Car	Aggregate	175	Diesel	3.0234E-05	3.6583E-05	0.000481	0.00030965	0.094018	1.36174E-05	1.2528E-05	3131.7	598.6	1.99	91585.8	0.000240982	0.000291588	0.003834297	0.002468127	0.749386499	0.00010854	9.98567E-05
San Diego	2022	Military Tactical Support - Misc - Car	Aggregate	300	Diesel	0.00010092	0.00012211	0.000717	0.0011089	0.4035197	3.2976E-05	3.0338E-05	13315.2	1992.9	6.63	392601.3	0.000187644	0.000227049	0.001332919	0.002061876	0.750301513	6.13154E-05	5.64102E-05
San Diego	2022	Military Tactical Support - Misc - Con	Aggregate	100	Diesel	4.1987E-05	5.0804E-05	0.000576	0.00046847	0.0983195	2.34997E-05	2.16197E-05	3277.7	1193.55	3.97	95484	0.000321	0.00038841	0.004407167	0.003581553	0.751678181	0.000179661	0.000165288
San Diego	2022	Military Tactical Support - Misc - Con	Aggregate	50	Diesel	2.5451E-05	3.0796E-05	0.000218	0.00022105	0.0327732	8.36405E-06	7.69493E-06	1091.35	799.35	2.63	31974	0.000581076	0.000703103	0.00497114	0.005046699	0.748245884	0.00019096	0.000175683
San Diego	2022	Military Tactical Support - Misc - Con	Aggregate	100	Diesel	0.00093779	0.00113473	0.012875	0.01046341	2.196007	0.000524876	0.000482886	72989.05	30039.5	99.92	2132804.5	0.00032098	0.000388386	0.004406899	0.003581335	0.751632483	0.00017965	0.000165278
San Diego	2022	Military Tactical Support - Misc - Con	Aggregate	175	Diesel	4.4E-05	5.324E-05	0.0007	0.00045065	0.136828	1.98179E-05	1.82325E-05	4533.3	799.35	2.63	133491.45	0.000240615	0.000291144	0.003828461	0.00246437	0.748245858	0.000108375	9.97047E-05
San Diego	2022	Military Tactical Support - Misc - Con	Aggregate	300	Diesel	9.1389E-05	0.00011058	0.000649	0.0010042	0.3654208	2.98626E-05	2.74736E-05	12063.25	1584.1	5.3	353254.3	0.000188854	0.000228514	0.001341518	0.002075179	0.755142096	6.1711E-05	5.67741E-05
San Diego	2022	Military Tactical Support - Misc - Con	Aggregate	50	Diesel	3.1178E-05	3.7725E-05	0.000267	0.00027078	0.0401471	1.0246E-05	9.42629E-06	1339.55	799.35	2.63	39168.15	0.000581076	0.000703102	0.004971141	0.005046699	0.748245829	0.00019096	0.000175683
San Diego	2022	Military Tactical Support - Misc - Con	Aggregate	600	Diesel	0.00051461	0.00062268	0.00373	0.00541131	2.1392686	0.000169496	0.000155936	70594.65	5573.55	18.53	2078934.15	0.000180701	0.000218648	0.001309853	0.001900136	0.751185921	5.95171E-05	5.47557E-05
San Diego	2022	Military Tactical Support - Misc - Cra	Aggregate	100	Diesel	6.6071E-05	7.9945E-05	0.001931	0.00098746	0.3441183	1.47232E-05	1.35454E-05	11413.55	3186.45	10.61	334577.25	0.000144157	0.000174429	0.004212213	0.002154495	0.750817211	3.2124E-05	2.95541E-05
San Diego	2022	Military Tactical Support - Misc - Cra	Aggregate	175	Diesel	1.3118E-05	1.5873E-05	0.00043	0.00010436	0.0866441	2.83082E-06	2.60436E-06	2876.2	598.6	1.99	84402.6	0.00011346	0.000137286	0.003720452	0.000902571	0.749386481	2.44838E-05	2.25251E-05
San Diego	2022	Military Tactical Support - Misc - Cra	Aggregate	300	Diesel	1.1995E-05	1.4514E-05	0.000148	7.0473E-05	0.0876682	2.10022E-06	1.9322E-06	2890.8	397.85	1.32	85139.9	0.000102845	0.000124443	0.001271521	0.000604246	0.75167816	1.80076E-05	1.6567E-05
San Diego	2022	Military Tactical Support - Misc - Dei	Aggregate	100	Diesel	3.8488E-05	4.657E-05	0.000528	0.00042943	0.0901262	2.15414E-05	1.98181E-05	2993	799.35	2.63	87928.5	0.000319534	0.000386636	0.004387043	0.003565199	0.748245893	0.000178841	0.000164534
San Diego	2022	Military Tactical Support - Misc - Ger	Aggregate	100	Diesel	0.00487886	0.00590343	0.066984	0.05443588	11.424726	0.002730665	0.002512212	379778.85	133663	444.75	11094029	0.000321035	0.000388452	0.004407649	0.003581944	0.751760263	0.000179681	0.000165306
San Diego	2022	Military Tactical Support - Misc - Ger	Aggregate	175	Diesel	0.00523831	0.00633835	0.083348	0.05365061	16.2897	0.002359372	0.002170622	540583.25	107612.95	358.05	15819103.65	0.000241731	0.000292494	0.003846218	0.0024758	0.751716481	0.000108877	0.000100167
San Diego	2022	Military Tactical Support - Misc - Ger	Aggregate	300	Diesel	0.00163357	0.00197662	0.011604	0.01795007	6.5318972	0.000533793	0.00049109	215554.4	28440.8	94.64	6342298.4	0.000188024	0.000227509	0.001335621	0.002066057	0.751822869	6.14397E-05	5.65246E-05
San Diego	2022	Military Tactical Support - Misc - Ger	Aggregate	50	Diesel	0.00016321	0.00019748	0.001396	0.00141745	0.2101579	5.36345E-05	4.93437E-05	7004.35	5372.8	17.87	204166.4	0.000583544	0.000706088	0.004992248	0.005068127	0.751422867	0.000191771	0.000176429
San Diego	2022	Military Tactical Support - Misc - Ger	Aggregate	600	Diesel	0.00099453	0.00120339	0.007209	0.01045786	4.1343353	0.000327567	0.000301361	136418.75	11537.65	38.38	4015102.2	0.00018082	0.000218792	0.001310711	0.001901381	0.751678189	5.95561E-05	5.47916E-05
San Diego	2022	Military Tactical Support - Misc - Ger	Aggregate	750	Diesel	5.3176E-05	6.4343E-05	0.000381	0.00056379	0.2187327	1.75072E-05	1.61066E-05	7219.7	397.85	1.32	212849.75	0.000182376	0.000220675	0.001308092	0.00193359	0.750176341	6.00436E-05	5.52401E-05
San Diego	2022	Military Tactical Support - Misc - Hyc	Aggregate	100	Diesel	0.00055676	0.00067368	0.007644	0.00621207	1.3037577	0.000311616	0.000286687	43332.8	13326.15	44.37	1265984.25	0.000321044	0.000388463	0.00440777	0.003582043	0.751781154	0.000179686	0.000165311
San Diego	2022	Military Tactical Support - Misc - Lift	Aggregate	100	Diesel	1.662E-05	2.011E-05	0.000228	0.00018543	0.0389181	9.30196E-06	8.55781E-06	1295.75	397.85	1.32	37795.75	0.000321	0.00038841	0.004407167	0.003581553	0.751678195	0.000179661	0.000165288
San Diego	2022	Military Tactical Support - Misc - Ligh	Aggregate	50	Diesel	3.9767E-05	4.8119E-05	0.00034	0.00034538	0.0512081	1.30688E-05	1.20233E-05	1715.5	992.8	3.31	49640	0.000584815	0.000707626	0.005003124	0.005079168	0.753059962	0.000192189	0.000176814
San Diego	2022	Military Tactical Support - Misc - Oth	Aggregate	100	Diesel	0.00011057	0.00013378	0.001518	0.00123363	0.258908	6.18825E-05	5.69319E-05	8606.7	3182.8	10.58	251441.2	0.000321	0.00038841	0.004407167	0.003581553	0.751678178	0.000179661	0.000165288
San Diego	2022	Military Tactical Support - Misc - Oth	Aggregate	175	Diesel	0.00015598	0.00018873	0.002482	0.0015975	0.4850429	7.02528E-05	6.46326E-05	16092.85	3182.8	10.58	471054.4	0.000241719	0.000292479	0.003846023	0.002475674	0.751678187	0.000108872	0.000100162
San Diego	2022	Military Tactical Support - Misc - Oth	Aggregate	300	Diesel	6.7005E-05	8.1076E-05	0.000476	0.00073626	0.2679206	2.18948E-05	2.01432E-05	8847.6	1193.55	3.97	260193.9	0.000187988	0.000227466	0.001335364	0.00206566	0.751678124	6.14279E-05	5.65137E-05
San Diego	2022	Military Tactical Support - Misc - Oth	Aggregate	50	Diesel	7.9535E-06	9.6237E-06	6.8E-05	6.9077E-05	0.0102416	2.61377E-06	2.40467E-06	343.1	189.8	0.67	9490	0.000611806	0.000740286	0.005234038	0.005313591	0.787816565	0.000201059	0.000184974
San Diego	2022	Military Tactical Support - Misc - Oth	Aggregate	600	Diesel	2.6608E-05	3.2195E-05	0.000193	0.00027979	0.1106094	8.76368E-06	8.06258E-06	3657.3	397.85	1.32	107419.5	0.00018082	0.000218792	0.001310711	0.00190138	0.751678201	5.95561E-05	5.47916E-05
San Diego	2022	Military Tactical Support - Misc - Oth	Aggregate	750	Diesel	3.1173E-05	3.7719E-05	0.000224	0.0003305	0.128225	1.0263E-05	9.442E-06	4223.05	189.8	0.67	118814.8	0.000191527	0.000231747	0.001373726	0.002030608	0.787816572	6.30563E-05	5.80118E-05
San Diego	2022	Military Tactical Support - Misc - Pre	Aggregate	175	Diesel	3.0036E-05	3.6343E-05	0.000478	0.00030763	0.0934035	1.35284E-05	1.24461E-05	3098.85	598.6	1.99	90987.2	0.000240982	0.000291588	0.003834297	0.002468127	0.749386509	0.00010854	9.98567E-05
San Diego	2022	Military Tactical Support - Misc - Pun	Aggregate	100	Diesel	0.00039363	0.00047629	0.005404	0.00439188	0.9217454	0.00022031	0.000202685	30641.75	8949.8	29.79	894980	0.000321065	0.000388489	0.004408066	0.003582283	0.751831474	0.000179698	0.000165322
San Diego	2022	Military Tactical Support - Misc - Pun	Aggregate	50	Diesel	0.00035982	0.00043538	0.003078	0.00312503	0.4633307	0.000118247	0.000108787	15446.8	11537.65	38.38	449968.35	0.000583742	0.000706328	0.004993944	0.005069849	0.751678233	0.000191836	0.000176489
San Diego	2022	Military Tactical Support - Misc - Star	Aggregate	100	Diesel	8.7472E-06	1.0584E-05	0.00012	9.7597E-05	0.0204832	4.89577E-06	4.50411E-06	675.25	189.8	0.67	18980	0.000336433	0.000407083	0.00461905	0.003753743	0.787816545	0.000188299	0.000173235
San Diego	2022	Military Tactical Support - Misc - Star	Aggregate	600	Diesel	1.3944E-05	1.6873E-05	0.000101	0.00014663	0.0579675	4.59282E-06	4.22539E-06	1912.6	189.8	0.67	53713.4	0.000189513	0.000229311	0.001373726	0.001992793	0.787816603	6.24193E-05	5.74258E-05
San Diego	2022	Military Tactical Support - Misc - Tes	Aggregate	100	Diesel	0.00026557	0.00032134	0.003646	0.00296305	0.6218709	0.000148636	0.000136745	20669.95	6577.3	21.86	605111.6	0.000320376	0.000387655	0.004398607	0.003574597	0.750218206	0.000179312	0.000164967
San Diego	2022	Military Tactical Support - Misc - Tes	Aggregate	175	Diesel	1.8707E-05	2.2635E-05	0.000298	0.00019159	0.0581724	8.42559E-06	7.75154E-06	1930.85	397.85	1.32	56494.7	0.000241719	0.000292479	0.003846022	0.002475674	0.751678173	0.000108872	0.000100162
San Diego	2022	Military Tactical Support - Misc - Tes	Aggregate	300	Diesel	0.00031284	0.00037854	0.002222	0.00343758	1.2509109	0.000102226	9.40476E-05	41288.8	6168.5	20.51	1215194.5	0.000187933	0.000227398	0.001334969	0.002065049	0.751455809	6.14097E-05	5.6497E-05
San Diego	2022	Military Tactical Support - Misc - Tes	Aggregate	600	Diesel	0.00020281	0.0002454	0.00147	0.00213261	0.8430897	6.67987E-05	6.14548E-05	27813	2394.4	7.92	821279.2	0.000180268	0.000218125	0.001306715	0.001895584	0.749386463	5.93745E-05	5.46245E-05
San Diego	2022	Military Tactical Support - Misc - We	Aggregate	100	Diesel	0.00031455	0.00038061	0.004319	0.0035096	0.736577	0.000176052	0.000161968	24487.85	11537.65	38.38	715334.3	0.000321	0.00038841	0.004407167	0.003581553	0.751678191	0.000179661	0.000165288
San Diego	2022	Military Tactical Support - Misc - We	Aggregate	50	Diesel	0.00011692	0.00014147	0.001	0.00101543	0.1505517	3.84224E-05	3.53486E-05	5018.75	4179.25	13.88	146273.75	0.000583487	0.000706019	0.004991763	0.005067635	0.751349915	0.000191752	0.000176412
San Diego	2022	Ocean Going Vessels - Vessels (Other	Aggregate		Diesel	0.3972033	0.47435116	0.613854	7.52017198	391.32261	0.104070541	0.095744897	12371608.76	0	0	266074085.8	0.001089766	0.001301428	0.001684169	0.020632319	1.073631451	0.000285528	0.000262685
San Diego	2022	Oil Drilling - Drill Rig (Mobile)	Aggregate	100	Diesel	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Oil Drilling - Drill Rig (Mobile)	Aggregate	175	Diesel	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Oil Drilling - Drill Rig (Mobile)	Aggregate	25	Diesel	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Oil Drilling - Drill Rig (Mobile)	Aggregate	300	Diesel	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Oil Drilling - Drill Rig (Mobile)	Aggregate	50	Diesel	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Oil Drilling - Drill Rig (Mobile)	Aggregate	600	Diesel	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Oil Drilling - Drill Rig (Mobile)	Aggregate	75	Diesel	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Oil Drilling - Drill Rig (Mobile)	Aggregate	750	Diesel	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Oil Drilling - Drill Rig (Mobile)	Aggregate	9999	Diesel	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Oil Drilling - Workover Rig (Mobile)	Aggregate	175	Diesel	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Oil Drilling - Workover Rig (Mobile)	Aggregate	25	Diesel	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Oil Drilling - Workover Rig (Mobile)	Aggregate	300	Diesel	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Oil Drilling - Workover Rig (Mobile)	Aggregate	600	Diesel	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Oil Drilling - Workover Rig (Mobile)	Aggregate	75	Diesel	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Oil Drilling - Workover Rig (Mobile)	Aggregate	750	Diesel	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Pleasure Craft - Personal Water Craft	Aggregate	120	Gasoline	0.00271225	0.00295511	0.007821	0.00014417	0.0241855	0.000140881	0.000106444	1709.906413	0	8.496660726	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Pleasure Craft - Personal Water Craft	Aggregate	120	Diesel	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Pleasure Craft - Personal Water Craft	Aggregate	15	Gasoline	1.3565E-08	1.478E-08	3.36E-07	6.5261E-09	8.258E-07	6.64098E-11	5.01763E-11	0.052268849	0	0.002310568	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Pleasure Craft - Personal Water Craft	Aggregate	15	Diesel	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Pleasure Craft - Personal Water Craft	Aggregate	175	Gasoline	0.00083399	0.00090867	0.00726	0.00045834	0.0385049	8.34045E-05	6.30167E-05	1969.093983	0	8.168651902	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Pleasure Craft - Personal Water Craft	Aggregate	175	Diesel	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Pleasure Craft - Personal Water Craft	Aggregate	25	Gasoline	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Pleasure Craft - Personal Water Craft	Aggregate	25	Diesel	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Pleasure Craft - Personal Water Craft	Aggregate	250	Gasoline	0.00070991	0.00077348	0.009133	0.00022924	0.047155	4.70691E-06	3.55633E-06	2385.543021	0	7.966965313	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Pleasure Craft - Personal Water Craft	Aggregate	250	Diesel	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Pleasure Craft - Personal Water Craft	Aggregate	50	Gasoline	0.00128108	0.0013958	0.002727	1.1624E-05	0.0064622	6.30897E-05	4.76678E-05	565.9169263	0	5.274154546	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Pleasure Craft - Personal Water Craft	Aggregate	50	Diesel	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Pleasure Craft - Personal Water Craft	Aggregate	500	Gasoline	4.2742E-05	4.6569E-05	0.000547	1.2393E-05	0.00282	2.9431E-07	2.22368E-07	142.7275943	0	0.336343813	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Pleasure Craft - Personal Water Craft	Aggregate	500	Diesel	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Pleasure Craft - Personal Water Craft	Aggregate	750	Gasoline	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Pleasure Craft - Personal Water Craft	Aggregate	750	Diesel	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Pleasure Craft - Sailboat Auxiliary Inb	Aggregate	120	Gasoline	4.079E-06	4.4442E-06	7.75E-05	3.067E-06	0.0003793	1.30595E-06	9.86716E-07	19.2121575	0	0.080317799	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Pleasure Craft - Sailboat Auxiliary Inb	Aggregate	120	Diesel	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Pleasure Craft - Sailboat Auxiliary Inb	Aggregate	15	Gasoline	4.1023E-07	4.4696E-07	7.95E-06	2.8297E-07	4.129E-05	8.15741E-08	6.16337E-08	2.058688927	0	0.076788275	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Pleasure Craft - Sailboat Auxiliary Inb	Aggregate	15	Diesel	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Pleasure Craft - Sailboat Auxiliary Inb	Aggregate	175	Gasoline	4.5848E-06	4.9953E-06	3.2E-05	3.2125E-06	0.0003955	3.97925E-08	3.00654E-08	17.21939005	0	0.051810103	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Pleasure Craft - Sailboat Auxiliary Inb	Aggregate	175	Diesel	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Pleasure Craft - Sailboat Auxiliary Inb	Aggregate	25	Gasoline	7.6997E-07	8.3891E-07	1.45E-05	5.9966E-07	7.832E-05	2.86992E-07	2.16838E-07	3.869962418	0	0.087648349	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Pleasure Craft - Sailboat Auxiliary Inb	Aggregate	25	Diesel	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Pleasure Craft - Sailboat Auxiliary Inb	Aggregate	250	Gasoline	7.7446E-06	8.438E-06	5.41E-05	5.4264E-06	0.0006734	6.7217E-08	5.07861E-08	29.28259721	0	0.051810103	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Pleasure Craft - Sailboat Auxiliary Inb	Aggregate	250	Diesel	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Pleasure Craft - Sailboat Auxiliary Inb	Aggregate	50	Gasoline	2.5627E-06	2.7922E-06	4.6E-05	2.3583E-06	0.0002554	1.66295E-06	1.25644E-06	12.55367189	0	0.156609819	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Pleasure Craft - Sailboat Auxiliary Inb	Aggregate	50	Diesel	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Pleasure Craft - Sailboat Auxiliary Inb	Aggregate	500	Gasoline	9.2543E-06	1.0083E-05	0.0001	1.0581E-05	0.0010305	1.07547E-07	8.12579E-08	45.51363504	0	0.051810103	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Pleasure Craft - Sailboat Auxiliary Inb	Aggregate	500	Diesel	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Pleasure Craft - Sailboat Auxiliary Inb	Aggregate	750	Gasoline	3.8779E-05	4.2251E-05	0.000174	1.8144E-05	0.0019322	2.01651E-07	1.52359E-07	87.2772893	0	0.051810103	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Pleasure Craft - Sailboat Auxiliary Inb	Aggregate	750	Diesel	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Pleasure Craft - Vessels W/Inboard E	Aggregate	120	Gasoline	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Pleasure Craft - Vessels W/Inboard E	Aggregate	120	Diesel	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

San Diego	2022	Pleasure Craft - Vessels W/Inboard E	Aggregate	15	Gasoline	5.5309E-06	6.0262E-06	6.84E-05	2.5722E-06	0.0005122	4.11871E-08	3.11192E-08	23.82435213	0	1.910675484	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Pleasure Craft - Vessels W/Inboard E	Aggregate	15	Diesel	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Pleasure Craft - Vessels W/Inboard E	Aggregate	175	Gasoline	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Pleasure Craft - Vessels W/Inboard E	Aggregate	175	Diesel	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Pleasure Craft - Vessels W/Inboard E	Aggregate	25	Gasoline	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Pleasure Craft - Vessels W/Inboard E	Aggregate	25	Diesel	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Pleasure Craft - Vessels W/Inboard E	Aggregate	250	Gasoline	7.6401E-05	8.3242E-05	0.000645	6.6171E-05	0.007193	7.17994E-07	5.42484E-07	315.9165845	0	1.49884884	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Pleasure Craft - Vessels W/Inboard E	Aggregate	250	Diesel	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Pleasure Craft - Vessels W/Inboard E	Aggregate	50	Gasoline	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Pleasure Craft - Vessels W/Inboard E	Aggregate	50	Diesel	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Pleasure Craft - Vessels W/Inboard E	Aggregate	500	Gasoline	0.00064132	0.00069875	0.006665	0.0002523	0.0689717	7.19824E-06	5.43867E-06	3045.771028	0	10.01780611	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Pleasure Craft - Vessels W/Inboard E	Aggregate	500	Diesel	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Pleasure Craft - Vessels W/Inboard E	Aggregate	750	Gasoline	1.4109E-06	1.5372E-06	2.32E-05	4.7919E-07	0.0003601	3.7577E-08	2.83915E-08	14.97064004	0	0.03137757	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Pleasure Craft - Vessels W/Inboard E	Aggregate	750	Diesel	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Pleasure Craft - Vessels W/Inboard J	Aggregate	120	Gasoline	0.00019152	0.00020867	0.000491	5.1087E-06	0.0014359	9.40098E-06	7.10297E-06	107.000257	0	0.966552381	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Pleasure Craft - Vessels W/Inboard J	Aggregate	120	Diesel	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Pleasure Craft - Vessels W/Inboard J	Aggregate	15	Gasoline	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Pleasure Craft - Vessels W/Inboard J	Aggregate	15	Diesel	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Pleasure Craft - Vessels W/Inboard J	Aggregate	175	Gasoline	2.8312E-05	3.0847E-05	0.000256	1.0768E-05	0.0013097	6.56407E-07	4.95952E-07	67.51706331	0	0.530645332	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Pleasure Craft - Vessels W/Inboard J	Aggregate	175	Diesel	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Pleasure Craft - Vessels W/Inboard J	Aggregate	25	Gasoline	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Pleasure Craft - Vessels W/Inboard J	Aggregate	25	Diesel	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Pleasure Craft - Vessels W/Inboard J	Aggregate	250	Gasoline	7.1864E-05	7.8299E-05	0.000678	3.2425E-05	0.0043001	9.66623E-06	7.30337E-06	209.3909669	0	1.381445293	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Pleasure Craft - Vessels W/Inboard J	Aggregate	250	Diesel	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Pleasure Craft - Vessels W/Inboard J	Aggregate	50	Gasoline	0.00022852	0.00024898	0.0005	3.1627E-06	0.0012851	1.11741E-05	8.44264E-06	106.6767397	0	1.975314608	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Pleasure Craft - Vessels W/Inboard J	Aggregate	50	Diesel	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Pleasure Craft - Vessels W/Inboard J	Aggregate	500	Gasoline	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Pleasure Craft - Vessels W/Inboard J	Aggregate	500	Diesel	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Pleasure Craft - Vessels W/Inboard J	Aggregate	750	Gasoline	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Pleasure Craft - Vessels W/Inboard J	Aggregate	750	Diesel	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Pleasure Craft - Vessels W/Outboard	Aggregate	120	Gasoline	0.0027422	0.00298775	0.008294	0.00030217	0.0402031	0.00020406	0.000154178	2338.922361	0	13.6256454	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Pleasure Craft - Vessels W/Outboard	Aggregate	120	Diesel	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Pleasure Craft - Vessels W/Outboard	Aggregate	15	Gasoline	0.00041463	0.00045176	0.001319	3.4065E-05	0.0045448	2.27485E-05	1.71878E-05	300.2540882	0	15.7361365	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Pleasure Craft - Vessels W/Outboard	Aggregate	15	Diesel	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Pleasure Craft - Vessels W/Outboard	Aggregate	175	Gasoline	0.00123124	0.00134149	0.004816	0.00016772	0.0221606	0.000117641	8.88841E-05	1267.440202	0	4.026629196	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Pleasure Craft - Vessels W/Outboard	Aggregate	175	Diesel	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Pleasure Craft - Vessels W/Outboard	Aggregate	25	Gasoline	0.00051855	0.00056498	0.0012	3.9381E-05	0.0046941	3.14011E-05	2.37254E-05	312.212659	0	6.764212585	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Pleasure Craft - Vessels W/Outboard	Aggregate	25	Diesel	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Pleasure Craft - Vessels W/Outboard	Aggregate	250	Gasoline	0.00113831	0.00124024	0.005104	0.00032689	0.0303947	0.000221253	0.000167168	1579.469705	0	3.852211333	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Pleasure Craft - Vessels W/Outboard	Aggregate	250	Diesel	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Pleasure Craft - Vessels W/Outboard	Aggregate	50	Gasoline	0.00121076	0.00131917	0.003027	0.00011548	0.0130842	8.15739E-05	6.16336E-05	821.4476103	0	9.59831472	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Pleasure Craft - Vessels W/Outboard	Aggregate	50	Diesel	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Pleasure Craft - Vessels W/Outboard	Aggregate	500	Gasoline	0.00032323	0.00035217	0.004202	0.00016092	0.0175858	4.65818E-05	3.51952E-05	943.811044	0	1.879769863	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Pleasure Craft - Vessels W/Outboard	Aggregate	500	Diesel	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Pleasure Craft - Vessels W/Outboard	Aggregate	750	Gasoline	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Pleasure Craft - Vessels W/Outboard	Aggregate	750	Diesel	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Pleasure Craft - Vessels W/Sterndriv	Aggregate	120	Gasoline	1.8409E-08	2.0058E-08	1.55E-07	9.0146E-09	2.99E-06	2.7321E-10	2.06425E-10	0.122949257	0	0.001703142	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Pleasure Craft - Vessels W/Sterndriv	Aggregate	120	Diesel	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Pleasure Craft - Vessels W/Sterndriv	Aggregate	15	Gasoline	1.3574E-05	1.4789E-05	0.000222	1.426E-05	0.0017125	2.37668E-07	1.79572E-07	78.63457277	0	8.16639042	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Pleasure Craft - Vessels W/Sterndriv	Aggregate	15	Diesel	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Pleasure Craft - Vessels W/Sterndriv	Aggregate	175	Gasoline	0.0001041	0.00011342	0.001147	0.00030626	0.0200122	2.01327E-06	1.52114E-06	827.0732289	0	7.250372549	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Pleasure Craft - Vessels W/Sterndriv	Aggregate	175	Diesel	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Pleasure Craft - Vessels W/Sterndriv	Aggregate	25	Gasoline	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Pleasure Craft - Vessels W/Sterndriv	Aggregate	25	Diesel	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Pleasure Craft - Vessels W/Sterndriv	Aggregate	250	Gasoline	0.00043196	0.00047064	0.004389	0.00037604	0.0428782	4.28001E-06	3.23379E-06	1912.137168	0	12.33087167	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Pleasure Craft - Vessels W/Sterndriv	Aggregate	250	Diesel	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Pleasure Craft - Vessels W/Sterndriv	Aggregate	50	Gasoline	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Pleasure Craft - Vessels W/Sterndriv	Aggregate	50	Diesel	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Pleasure Craft - Vessels W/Sterndriv	Aggregate	500	Gasoline	0.00049826	0.00054287	0.003212	0.00020166	0.0620005	6.47068E-06	4.88897E-06	2564.925146	0	12.58695596	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Pleasure Craft - Vessels W/Sterndriv	Aggregate	500	Diesel	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Pleasure Craft - Vessels W/Sterndriv	Aggregate	750	Gasoline	3.1832E-05	3.4683E-05	5.87E-05	9.6739E-06	0.0016501	1.7221E-07	1.30114E-07	69.08813969	0	0.183573203	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Pleasure Craft - Vessels W/Sterndriv	Aggregate	750	Diesel	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Portable Equipment - Non-Rental Co	Aggregate	100	Diesel	0.00020681	0.00024612	0.004223	0.00261397	0.624992	0.000171142	0.00015745	20277.17754	15412.53639	38.30483734	1310022.789	0.000115242	0.000137148	0.002352995	0.001456617	0.348271933	9.53674E-05	8.7738E-05
San Diego	2022	Portable Equipment - Non-Rental Co	Aggregate	175	Diesel	0.00040547	0.00048254	0.008728	0.0062266	1.5512824	0.00025968	0.000238906	50329.64753	21017.09507	52.2338691	3251585.932	9.10302E-05	0.000108333	0.001959407	0.001397907	0.348271933	5.82997E-05	5.36357E-05
San Diego	2022	Portable Equipment - Non-Rental Co	Aggregate	300	Diesel	0.00020797	0.0002475	0.001249	0.00301328	0.6256847	9.20672E-05	8.47019E-05	20299.64947	4670.465572	11.60752647	1311474.606	0.000115762	0.000137767	0.000695246	0.001677266	0.348271933	5.1247E-05	4.71472E-05
San Diego	2022	Portable Equipment - Non-Rental Co	Aggregate	50	Diesel	1.5619E-05	1.8588E-05	0.000229	0.00022194	0.0305441	9.19061E-06	8.45536E-06	990.9695459	1401.139671	3.48225794	57588.7373	0.000197984	0.000235617	0.002906995	0.002813366	0.387179697	0.000116501	0.000107181
San Diego	2022	Portable Equipment - Non-Rental Co	Aggregate	600	Diesel	0.00054628	0.00065011	0.004055	0.00634539	2.1109353	0.000204688	0.000188313	68486.97238	8873.884586	22.05430029	4424653.992	9.01273E-05	0.000107259	0.000669093	0.001046891	0.348271933	3.37704E-05	3.10688E-05
San Diego	2022	Portable Equipment - Non-Rental Co	Aggregate	75	Diesel	0.00017682	0.00021043	0.003005	0.0023253	0.4546026	5.72735E-05	5.26916E-05	14749.08111	14478.44327	35.98333205	952875.8297	0.000135463	0.000161212	0.002301795	0.00178142	0.348271933	4.38773E-05	4.03671E-05
San Diego	2022	Portable Equipment - Non-Rental Co	Aggregate	750	Diesel	9.7253E-05	0.00011574	0.000576	0.0007848	0.2909087	3.27835E-05	3.01608E-05	9438.213409	934.0931143	2.321505293	609763.1008	0.000116429	0.000138561	0.00068939	0.000939548	0.348271933	3.9248E-05	3.61081E-05
San Diego	2022	Portable Equipment - Non-Rental Ge	Aggregate	100	Diesel	0.00157706	0.00187684	0.023899	0.01384006	3.1250068	0.001070854	0.000985185	101387.4029	67002.09366	49.91236381	6550211.837	0.000175759	0.000209167	0.002663426	0.00154243	0.348271933	0.000119343	0.000109796
San Diego	2022	Portable Equipment - Non-Rental Ge	Aggregate	175	Diesel	0.00399517	0.00475459	0.059962	0.03025916	9.1370052	0.001648988	0.001517069	296440.0724	129329.6226	96.34246967	19151740.89	0.000152283	0.000181229	0.002285567	0.001153377	0.348271933	6.28539E-05	5.78256E-05
San Diego	2022	Portable Equipment - Non-Rental Ge	Aggregate	300	Diesel	0.00269672	0.00320932	0.012454	0.02258674	5.1639254	0.000928267	0.000854005	167537.8726	43629.27029	32.50107411	10823914.26	0.000181875	0.000216447	0.000839908	0.001523323	0.348271933	6.26053E-05	5.75969E-05
San Diego	2022	Portable Equipment - Non-Rental Ge	Aggregate	50	Diesel	8.9929E-05	0.00010702	0.001074	0.00095629	0.104472	4.53512E-05	4.17231E-05	3389.478788	4674.564674	3.48225794	196974.5734	0.000333282	0.000396633	0.003978569	0.003544058	0.387179697	0.000168075	0.000154629
San Diego	2022	Portable Equipment - Non-Rental Ge	Aggregate	600	Diesel	0.00469066	0.00558227	0.027065	0.02576015	12.933692	0.001164296	0.001071152	419619.3943	62327.52899	46.43010587	27109836.57	0.000126308	0.000150317	0.000728801	0.000693656	0.348271933	3.13516E-05	2.88434E-05
San Diego	2022	Portable Equipment - Non-Rental Ge	Aggregate	75	Diesel	0.0012751	0.00151748	0.01506	0.01140618	2.0250537	0.000305511	0.00028107	65700.6365	63885.71721	47.59085851	4244640.601	0.000219294	0.000260978	0.002590118	0.001961653	0.348271933	5.25422E-05	4.83389E-05
San Diego	2022	Portable Equipment - Non-Rental Ge	Aggregate	750	Diesel	0.00304282	0.00362121	0.013992	0.02421323	6.5727589	0.00097364	0.000895749	213245.9229	20256.44692	15.08978441	13776918.32	0.000161231	0.000191878	0.000741413	0.001282991	0.348271933	5.15904E-05	4.74632E-05
San Diego	2022	Portable Equipment - Non-Rental Ge	Aggregate	9999	Diesel	0.01195757	0.0142305	0.066923	0.14955428	30.770186	0.003875952	0.003565876	998304.8028	40512.89384	30.17956881	64496256.41	0.000135342	0.000161068	0.000757465	0.001692728	0.348271933	4.38699E-05	4.03603E-05
San Diego	2022	Portable Equipment - Non-Rental Ot	Aggregate	100	Diesel	0.00061343	0.00073003	0.015422	0.00951314	2.4131834	0.000616838	0.000567491	78293.07707	57118.41585	182.2381655	5058184.995	8.85301E-05	0.000105358	0.00222573	0.001372941	0.348271933	8.90224E-05	8.19006E-05
San Diego	2022	Portable Equipment - Non-Rental Ot	Aggregate	175	Diesel	0.001418	0.00168753	0.031675	0.01923578	5.6405329	0.000747194	0.000687419	183000.8776	84768.09486	270.4553667	11822913.7	8.75534E-05	0.000104196	0.001955765	0.001187704	0.348271933	4.61352E-05	4.24443E-05
San Diego	2022	Portable Equipment - Non-Rental Ot	Aggregate	300	Diesel	0.00052388	0.00062346	0.004362	0.00580522	2.2689463	0.000201791	0.000185648	73613.46403	20009.63613	63.84139557	4755854.963	8.0413E-05	9.56981E-05	0.00066948	0.000891072	0.348271933	3.09739E-05	2.8496E-05
San Diego	2022	Portable Equipment - Non-Rental Ot	Aggregate	50	Diesel	4.9051E-05	5.8375E-05	0.000257	0.00021189	0.0297909	1.03155E-05	9.49028E-06	966.5313423	1091.434698	3.48225794	56168.54705	0.000637498	0.000758675	0.003339461	0.002753805	0.387179697	0.000134067	0.000123341
San Diego	2022	Portable Equipment - Non-Rental Ot	Aggregate	600	Diesel	0.00048894	0.00058188	0.004124	0.00537624	2.1993456	0.000215168	0.000197955	71355.34651	10186.72385	32.50107411	4609967.529	7.74247E-05	9.21417E-05	0.000653078	0.000851342	0.348271933	3.40725E-05	3.13467E-05
San Diego	2022	Portable Equipment - Non-Rental Ot	Aggregate	75	Diesel	0.0002243	0.00026694	0.004108	0.00340753	0.6449304	7.53233E-05	6.92974E-05	20924.05533	20009.63613	63.84139557	1351814.83	0.000121125	0.000144149	0.002218452	0.001840119	0.348271933	4.06757E-05	3.74216E-05
San Diego	2022	Portable Equipment - Non-Rental Ot	Aggregate	750	Diesel	0.00030663	0.00036492	0.002486	0.0039223	1.3180967	0.000151586	0.000139459	42764.1945	4001.927225	12.76827911	2762813.968	8.10194E-05	9.64198E-05	0.000656829	0.001036362	0.348271933	4.00524E-05	3.68482E-05
San Diego	2022	Portable Equipment - Non-Rental Ot	Aggregate	9999	Diesel	0.00057982	0.00069003	0.004797	0.00961024	2.4755902	0.000160472	0.000147634	80317.79743	2546.680962	8.125268527	5188993.625	8.157E-05	9.70751E-05	0.000674834	0.001351991	0.348271933	2.25756E-05	2.07695E-05
San Diego	2022	Portable Equipment - Non-Rental Pu	Aggregate	100	Diesel	0.0002017	0.00024003	0.00453	0.00292947	0.7079482	0.000192262	0.000176881	22968.59842	16406.5194	52.2338691	1483904.123	9.92231E-05	0.000118084	0.00222868	0.00144114	0.348271933	9.45826E-05	8.7016E-05
San Diego	2022	Portable Equipment - Non-Rental Pu	Aggregate	175	Diesel	0.0002396	0.00028515	0.006059	0.00323159	1.0958057	0.000132878	0.000122248	35552.20937	16771.10872	53.39462175	2296878.073	7.61509E-05	9.06259E-05	0.001925714	0.001027072	0.348271933	4.22316E-05	3.88531E-05
San Diego	2022	Portable Equipment - Non-Rental Pu	Aggregate	300	Diesel	0.00023868	0.00028405	0.002094	0.00279658	1.0927418	9.39839E-05	8.64652E-05	35452.80352	9479.322322	30.17956881	2290455.881	7.60704E-05	9.05301E-05	0.000667464	0.000891308	0.348271933	2.9954E-05	2.75577E-05
San Diego	2022	Portable Equipment - Non-Rental Pu	Aggregate	600	Diesel	0.00030237	0.00035984	0.002713	0.00365229	1.4782563	0.000155044	0.00014264	47960.39823	6198.018441	19.73279499	3098518.742	7.12365E-05	8.47773E-05	0.000639287	0.000860467	0.348271933	3.65277E-05	3.36055E-05
San Diego	2022	Portable Equipment - Non-Rental Pu	Aggregate	75	Diesel	9.7741E-05	0.00011632	0.002116	0.00165971	0.3393754	2.98329E-05	2.74463E-05	11010.65958	10208.50096	32.50107411	711352.2057	0.000100303	0.000119369	0.002171035	0.001703222	0.348271933	3.0615E-05	2.81658E-05
San Diego	2022	Portable Equipment - Non-Rental Pu	Aggregate	750	Diesel	3.8634E-05	4.5978E-05	0.000249	0.00069196	0.1351734	2.57503E-05	2.36903E-05	4385.552142	364.5893201	1.160752647	283331.9991	9.95409E-05	0.000118462	0.000641973	0.001782815	0.348271933	6.63452E-05	6.10376E-05
San Diego	2022	Portable Equipment - Non-Rental Pu	Aggregate	9999	Diesel	7.7584E-05	9.2332E-05	0.000716	0.00206781	0.3918226	5.21184E-05	4.7949E-05	12712.25381	729.1786401	2.321505293	821285.0214	6.8961E-05	8.20693E-05	0.000636046	0.001837975	0.348271933	4.63255E-05	4.26195E-05
San Diego	2022	Portable Equipment - Rental Compre	Aggregate	100	Diesel	3.68E-05	4.3796E-05	0.000979	0.00049702	0.1482449	3.4342E-05	3.15947E-05	4809.642461	3672.052574	6.96451588	310730.6832	8.64552E-05	0.000102889	0.002300012	0.001167654	0.348271933	8.06798E-05	7.42254E-05
San Diego	2022	Portable Equipment - Rental Compre	Aggregate	175	Diesel	0.00025284	0.0003009	0.006957	0.00279435	1.2334581	8.46774E-05	7.79032E-05	40018.18839	19584.28039	37.14408469	2585406.113	7.13902E-05	8.49602E-05	0.001964207	0.000788997	0.348271933	2.3909E-05	2.19963E-05
San Diego	2022	Portable Equipment - Rental Compre	Aggregate	300	Diesel	0.00020615	0.00024533	0.002072	0.00136547	1.0731115	5.50361E-05	5.06332E-05	34815.92206	7956.11391	15.08978441	2249309.66	6.69037E-05	7.9621E-05	0.000672363	0.000443156	0.348271933	1.78616E-05	1.64327E-05

San Diego	2022	Portable Equipment - Rental Compre	Aggregate	50	Diesel	1.4217E-05	1.6919E-05	0.000224	0.00015686	0.0322886	3.622088E-06	3.33231E-06	1047.567569	1224.017525	2.321505293	60877.84814	0.000170477	0.000202882	0.002689137	0.001880953	0.387179697	4.34332E-05	3.99585E-05
San Diego	2022	Portable Equipment - Rental Compre	Aggregate	600	Diesel	0.00059912	0.000713	0.00577	0.00279688	3.0181451	0.000139631	0.000128461	97920.39427	12240.17525	23.21505293	6326223.052	6.91339E-05	8.22751E-05	0.000665865	0.000322739	0.348271933	1.61124E-05	1.48234E-05
San Diego	2022	Portable Equipment - Rental Compre	Aggregate	75	Diesel	0.00012532	0.00014915	0.001751	0.00154997	0.2638154	3.98137E-05	3.66286E-05	8559.200461	7956.11391	15.08978441	552973.7872	0.000165445	0.000196893	0.002312094	0.002046173	0.348271933	5.25594E-05	4.83547E-05
San Diego	2022	Portable Equipment - Rental Compre	Aggregate	750	Diesel	4.8404E-05	5.7605E-05	0.000419	0.00069318	0.2256953	4.17965E-05	3.84528E-05	7322.435257	612.0087623	1.160752647	473071.6116	7.46931E-05	8.88909E-05	0.00064616	0.001069657	0.348271933	6.44965E-05	5.93368E-05
San Diego	2022	Portable Equipment - Rental General	Aggregate	100	Diesel	0.00155648	0.00185234	0.03104	0.01651424	4.2957555	0.001215036	0.001117833	139371.0571	91788.57615	63.84139557	9004175.287	0.000126189	0.000150176	0.00251649	0.001338867	0.348271933	9.85072E-05	9.06267E-05
San Diego	2022	Portable Equipment - Rental General	Aggregate	175	Diesel	0.00269255	0.00320436	0.051335	0.01818567	7.9216141	0.00074354	0.000684057	257008.045	113484.0578	78.93117997	16604204.17	0.000118377	0.000140879	0.00225694	0.000799529	0.348271933	3.26896E-05	3.00744E-05
San Diego	2022	Portable Equipment - Rental General	Aggregate	300	Diesel	0.00175342	0.00208672	0.011477	0.00762591	5.2007764	0.000341154	0.000313861	168733.4634	43390.96327	30.17956881	10901156.33	0.000117418	0.000139738	0.00076857	0.000510672	0.348271933	2.28455E-05	2.10179E-05
San Diego	2022	Portable Equipment - Rental General	Aggregate	50	Diesel	5.5264E-05	6.5769E-05	0.00066	0.00038974	0.0642013	1.1761E-05	1.08201E-05	2082.941895	3337.766405	2.321505293	121047.1039	0.000333282	0.000396633	0.003978569	0.002350431	0.387179697	7.09271E-05	6.52529E-05
San Diego	2022	Portable Equipment - Rental General	Aggregate	600	Diesel	0.00531933	0.00633045	0.037213	0.02729767	18.292642	0.00121832	0.001120855	593484.6263	85113.04334	59.19838498	38342534.79	0.000101274	0.000120525	0.000708489	0.000519718	0.348271933	2.31955E-05	2.13399E-05
San Diego	2022	Portable Equipment - Rental General	Aggregate	75	Diesel	0.00152883	0.00181943	0.019788	0.01455233	2.7315626	0.000367595	0.000338188	88622.54082	85113.04334	59.19838498	5725528.015	0.000194924	0.000231976	0.002522933	0.001855409	0.348271933	4.68681E-05	4.31186E-05
San Diego	2022	Portable Equipment - Rental General	Aggregate	750	Diesel	0.00066659	0.0007933	0.003331	0.00493467	1.545218	0.000182112	0.000167543	50132.89609	5006.649608	3.48225794	3238874.652	0.000150241	0.0001788	0.000750863	0.00111221	0.348271933	4.10456E-05	3.7762E-05
San Diego	2022	Portable Equipment - Rental General	Aggregate	9999	Diesel	0.01674135	0.01992358	0.099592	0.20172523	47.488435	0.004716379	0.004339068	1540709.965	58410.91209	40.62634263	99538762.8	0.000122778	0.000146116	0.000730389	0.001479418	0.348271933	3.45891E-05	3.1822E-05
San Diego	2022	Portable Equipment - Rental Other	Aggregate	100	Diesel	0.00031693	0.00037717	0.00642	0.00270315	0.843374	0.000208037	0.000191394	27362.34095	20207.13469	16.25053705	1767765.268	0.000130875	0.000155752	0.002651267	0.001116269	0.348271933	8.59092E-05	7.90364E-05
San Diego	2022	Portable Equipment - Rental Other	Aggregate	175	Diesel	0.00079984	0.00095188	0.012604	0.00577908	1.9164997	0.000246238	0.000226539	62178.72063	30310.70204	24.37580558	4017104.493	0.00014535	0.000172979	0.002290379	0.001050192	0.348271933	4.4747E-05	4.11672E-05
San Diego	2022	Portable Equipment - Rental Other	Aggregate	300	Diesel	0.00071134	0.00084655	0.004427	0.0027211	1.9664457	0.000127754	0.000117534	63799.16383	17320.40117	13.92903176	4121794.484	0.000125983	0.00014993	0.000784022	0.000481926	0.348271933	2.26263E-05	2.08162E-05
San Diego	2022	Portable Equipment - Rental Other	Aggregate	600	Diesel	0.00050424	0.00060009	0.003297	0.00155265	1.5818614	8.65094E-05	7.95886E-05	51321.75116	7216.833819	5.803763233	3315681.557	0.000111017	0.00013212	0.000725855	0.00034184	0.348271933	1.90464E-05	1.75227E-05
San Diego	2022	Portable Equipment - Rental Other	Aggregate	75	Diesel	0.00016915	0.0002013	0.002213	0.00167541	0.3068112	6.1982E-05	5.70234E-05	9954.151105	8660.200583	6.96451588	643095.656	0.000192004	0.0002285	0.002512071	0.001901817	0.348271933	7.03579E-05	6.47292E-05
San Diego	2022	Portable Equipment - Rental Other	Aggregate	750	Diesel	0.00031315	0.00037267	0.001023	0.00255771	0.4744871	0.000108409	9.97363E-05	15394.21043	1443.366764	1.160752647	994554.9099	0.000229849	0.00027354	0.000750863	0.001877349	0.348271933	7.95718E-05	7.32061E-05
San Diego	2022	Portable Equipment - Rental Other	Aggregate	9999	Diesel	0.00123276	0.00146708	0.016171	0.04757281	8.7583891	0.00099172	0.000912382	284156.2903	15877.0344	12.76827911	18358137.62	4.90198E-05	5.83376E-05	0.000643037	0.001891703	0.348271933	3.94351E-05	3.62803E-05
San Diego	2022	Portable Equipment - Rental Pump	Aggregate	100	Diesel	0.00034189	0.00040688	0.008412	0.00373638	1.1683663	0.000287236	0.000264257	37906.35854	28150.14028	29.01881617	2448969.707	0.000101912	0.000121284	0.002507567	0.001113758	0.348271933	8.56206E-05	7.8771E-05
San Diego	2022	Portable Equipment - Rental Pump	Aggregate	175	Diesel	0.00022375	0.00026628	0.005262	0.00196144	0.8894947	6.88568E-05	6.33482E-05	28858.67601	13512.06733	13.92903176	1864437.157	8.76081E-05	0.000104261	0.002060164	0.000767981	0.348271933	2.69601E-05	2.48033E-05
San Diego	2022	Portable Equipment - Rental Pump	Aggregate	300	Diesel	0.00016967	0.00020192	0.000869	0.00133417	0.3785084	4.86821E-05	4.47875E-05	12280.28767	3378.016833	3.48225794	793377.5134	0.000156115	0.00018579	0.000799144	0.00122759	0.348271933	4.47932E-05	4.12097E-05
San Diego	2022	Portable Equipment - Rental Pump	Aggregate	600	Diesel	9.7352E-05	0.00011586	0.000372	0.00093165	0.1809047	4.45332E-05	4.09706E-05	5869.255134	1126.005611	1.160752647	379187.7822	0.000187419	0.000223044	0.000715406	0.001793591	0.348271933	8.57339E-05	7.88752E-05
San Diego	2022	Portable Equipment - Rental Pump	Aggregate	75	Diesel	0.00012254	0.00014583	0.001982	0.00153073	0.2955705	3.92948E-05	3.61512E-05	9589.459927	9008.044889	9.286021173	619534.4995	0.000144389	0.000171834	0.002334989	0.001803665	0.348271933	4.63012E-05	4.25971E-05
San Diego	2022	Recreational - All Terrain Vehicles (A	Aggregate	120	Gasoline	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Recreational - All Terrain Vehicles (A	Aggregate	15	Gasoline	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Recreational - All Terrain Vehicles (A	Aggregate	25	Gasoline	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Recreational - All Terrain Vehicles (A	Aggregate	5	Gasoline	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Recreational - All Terrain Vehicles (A	Aggregate	50	Gasoline	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Recreational - Golf Carts	Aggregate	120	Gasoline	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Recreational - Golf Carts	Aggregate	15	Gasoline	3.0722E-05	3.3473E-05	0.000744	2.4221E-05	0.0116136	2.60534E-06	1.96847E-06	480.7429241	0	13.27387991	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Recreational - Golf Carts	Aggregate	25	Gasoline	9.1028E-06	9.9179E-06	0.000221	7.1766E-06	0.0034411	7.71947E-07	5.83251E-07	142.4423479	0	2.212313318	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Recreational - Golf Carts	Aggregate	5	Gasoline	6.8861E-07	7.5028E-07	1.73E-05	5.605E-07	0.0001229	5.98938E-08	4.52532E-08	5.685125688	0	0.31604476	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Recreational - Golf Carts	Aggregate	50	Gasoline	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Recreational - Minibikes	Aggregate	120	Gasoline	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Recreational - Minibikes	Aggregate	15	Gasoline	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Recreational - Minibikes	Aggregate	25	Gasoline	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Recreational - Minibikes	Aggregate	5	Gasoline	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Recreational - Minibikes	Aggregate	50	Gasoline	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Recreational - Off-Road Motorcycles	Aggregate	120	Gasoline	0.05710354	0.0622168	0.241445	0.00159708	1.9850987	0.000775318	0.000585796	95548.784	0	3248.253763	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Recreational - Off-Road Motorcycles	Aggregate	15	Gasoline	0.0068342	0.00744616	0.055076	0.00070637	0.4551625	0.00015254	0.000115252	21085.18474	0	1070.903231	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Recreational - Off-Road Motorcycles	Aggregate	25	Gasoline	0.01729393	0.01884249	0.045792	0.00022575	0.2045335	0.000196287	0.000148306	12540.88411	0	536.6572386	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Recreational - Off-Road Motorcycles	Aggregate	5	Gasoline	0.01880968	0.02049396	0.126464	0.00055215	0.6964325	0.00050121	0.000378692	35811.15366	0	1712.750582	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Recreational - Off-Road Motorcycles	Aggregate	50	Gasoline	0.09334585	0.10170437	0.301997	0.00234246	2.2508627	0.001120155	0.000846339	113679.9582	0	3946.082531	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Recreational - Snowmobiles Active	Aggregate	120	Gasoline	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Recreational - Snowmobiles Active	Aggregate	15	Gasoline	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Recreational - Snowmobiles Active	Aggregate	25	Gasoline	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Recreational - Snowmobiles Active	Aggregate	5	Gasoline	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Recreational - Snowmobiles Active	Aggregate	50	Gasoline	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Transportation Refridgeration Unit -	Aggregate	25	Diesel	0.00396257	0.0005585	0.000431	0.0070588	1.0877954	0.000359254	0.000330651	36596.6	77747.04	99.49242	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Transportation Refridgeration Unit -	Aggregate	50	Diesel	0.0091959	0.0012973	0.001001	0.0102466	1.47701	0.00035996	0.00033141	49920.4	89837.56	114.95	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Transportation Refridgeration Unit -	Aggregate	25	Diesel	0.0835581	0.0131936	0.010181	0.0834313	16.48953	0.00520366	0.00478308	538273.1	820354.81	458.15	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Transportation Refridgeration Unit -	Aggregate	50	Diesel	0.2384883	0.04259528	0.032866	0.2080944	40.25444	0.006261558	0.005762173	1309331.12	1695674.82	947.16	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Transportation Refridgeration Unit -	Aggregate	23	Diesel	0.035407	0.0049936	0.003853	0.043944	6.92	0.00227227	0.00209056	227787.66	411170.85	302.24	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Transportation Refridgeration Unit -	Aggregate	25	Diesel	0.00360665	0.00050879	0.000393	0.00668046	1.0300717	0.000348023	0.000320222	34730.76	73783.23	594.97	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Transportation Refridgeration Unit -	Aggregate	50	Diesel	0.0077174	0.00108612	0.00084	0.0071994	0.96651	0.000283776	0.000261016	33636.78	60535.15	488.1	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Transportation Refridgeration Unit -	Aggregate	25	Diesel	0.08102976	0.01569888	0.012087	0.08571268	19.110746	0.006201145	0.005703809	621558.89	947286.39	3482.56	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Transportation Refridgeration Unit -	Aggregate	50	Diesel	0.09296	0.013433	0.010367	0.078004	11.91	0.0026786	0.0024668	389027.93	504588.98	1855.02	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Transportation Refridgeration Unit -	Aggregate	25	Diesel	0.0044337	0.00062445	0.000483	0.00591558	0.9252203	0.000308711	0.000284141	30759.46	46878.99	143.42351	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
San Diego	2022	Transportation Refridgeration Unit -	Aggregate	50	Diesel	0.00152374	0.00021487	0.000166	0.00170918	0.2242804	5.91493E-05	5.44025E-05	8343.55	10469.26	31.69554	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

Memo

1230 Columbia St., Ste 440
San Diego, Ca 92101
619.219.8000

Date: March 21, 2022

To: David Sibbet, Deputy Fire Marshal
Chief Alex Elward, San Diego County Fire
Chief Ryan Silva, San Diego County Fire
Captain Michael Neal, San Diego County Fire

From: Jazmin Amini, Environmental Planner
Charlie Richmond, Senior Environmental Director

Subject: County of San Diego Roadside Vegetation Management Project CEQA Exemption Support Memorandum

BACKGROUND

Fire hazards represent a high-level threat to individuals, property, and wildlife located in the unincorporated areas of San Diego County (County). Nearly 80 percent of the County's unincorporated communities are located within very high or high fire severity zones and the County manages nearly 2,000 miles of public roads that serve many of these zones. These public roads are critical during emergencies, such as wildfires, allowing residents the ability to evacuate and first responders the ability to reach the front lines of an incident. The County has increasingly grown concerned about preventing worst-case scenarios such as entrapments, a potentially life-threatening situation in which wildfire overtakes a road. Therefore, fire safety, including the ability to evacuate, is of the utmost importance to residents living in the County's rural areas.

On March 16, 2021, the San Diego County Board of Supervisors (Board) directed the San Diego County Fire Protection District (SDCFPD) to pursue a vegetation maintenance program to reduce fire risks along approximately 266 lane miles of rights-of-ways (ROW) and private land situated adjacent to existing roadways throughout unincorporated areas of the County (project). In response, on October 5, 2021, SDCFPD presented a recommendation to the Board for SDCFPD to expand beyond the existing practice by County of San Diego's Department of Public Works (DPW), which currently manages vegetation along certain County-maintained roads in the unincorporated areas, up to 10 feet from the edge of the pavement within the public right-of-way, consistent with County Defensible Space Ordinance (Section 68.404(c)).

In response to the Board's July 13, 2021 direction and consistent with the County Consolidated Fire Code (Section 4907.2.1), which provides fire districts with the authority to clear combustible vegetation within twenty feet on both sides of the roadway, SDCFPD is proposing to conduct fuel reduction treatments within a 20-foot-wide buffer on each side of certain high-risk County-maintained roads totaling approximately 266 lane miles, reducing fire risks and improving evacuation performance in the event of a wildfire.

PROJECT LOCATION

The project encompasses 29 road segments that total approximately 266 lane miles of County-maintained roadways throughout the inland areas of north and east San Diego County. The project area would include up to 20 feet on each side of the roadway. Rural residential communities within the project area include Potrero, Barrett Junction, Pine Valley, Descanso, Julian, Wynola, Jamul, Crest, Harbison Canyon, Palomar Mountain, Rincon, Valley Center, Pauma Valley, Escondido, San Marcos, Bonsall, and Rainbow. As shown in Figure 1, the project areas are located east of Interstate 15 (I-15), with three exceptions: Deer Springs Road, Camino del Rey, and portions of Old Highway 395.

PROJECT PURPOSE AND NEED

Every year there are major fires throughout California that result in devastating losses to life, property, and wildlife. Of the top 20 largest fires in the recorded history of the State, eight have occurred in the past 2 years (CALFIRE 2022a).[1] Two of the largest fires in the State's history, the Cedar Fire and the Witch Fire, occurred in San Diego County. The Cedar Fire occurred between October 2003 and the beginning of December 2003 and burned 273,246 acres, destroyed 2,820 buildings, killed 15 people, and resulted in $1.3 billion dollars in fire-related damage. The Witch Fire occurred between October 2007 to early November 2007 and burned 247,800 acres, destroyed 1,265 residential buildings, killed 2 people, and totaled over $1.3 billion in fire-related damage. The passing of time since these two large fires has resulted in much of the vegetation growing back, presenting additional challenge for minimizing the risk of, and damage from wildfire.

Aside from the increasing number of larger, more devastating fires, San Diego County experiences multiple wildfires every year that result in the destruction of property and wildlife and put human lives at risk. In 2021 alone, San Diego County experienced 10 large fires in the unincorporated area (Table 1). Another recent major fire in San Diego County was the September 2020 Valley Fire that burned 16,390 acres around Japatul Road and Carveacre Road southeast of Alpine, which resulted in the destruction of 61 structures, damage to an additional 11 structures, and three injuries.

Table 1 Recorded Fires in Unincorporated San Diego County in 2021

Fire	Month of Occurrence	Acres Burned	General Location
Paso Fire	April	28	Near Highway 79 and Lookout Road, North of Cuyamaca Rancho State Park
Southern Fire	May	5,366	14000 Blk Great Southern Overland, Agua Caliente in San Diego County
Clevenger Fire	June	53	Along San Pasqual Valley Road
Sierra Fire	June	1,000	Around Camp Pendleton
Mesa Fire	June	350	Near Highway 76
Overland Fire	July	515	Near Canebrake Canyon Road east of Mount Laguna
Ysabel Fire	July	173	Along Highway 79
Road Fire	July	86	Japatul Valley Road and I-8
Chaparral Fire	August	1,427	San Diego and Riverside County
Aruba Fire	September	54	Southeast Rainbow
Total Acres		9,052	

Source: CALFIRE 2022b (https://www.fire.ca.gov/incidents/2021/)

[1] Dixie and Monument Fires (July 2021), the Caldor Fire (August 2021), the River Complex Fire (July 2021), the August Complex and SCU August Complex Fires (August 2020), the Creek Fire (September 2020), and North Complex Fire (August 2020).

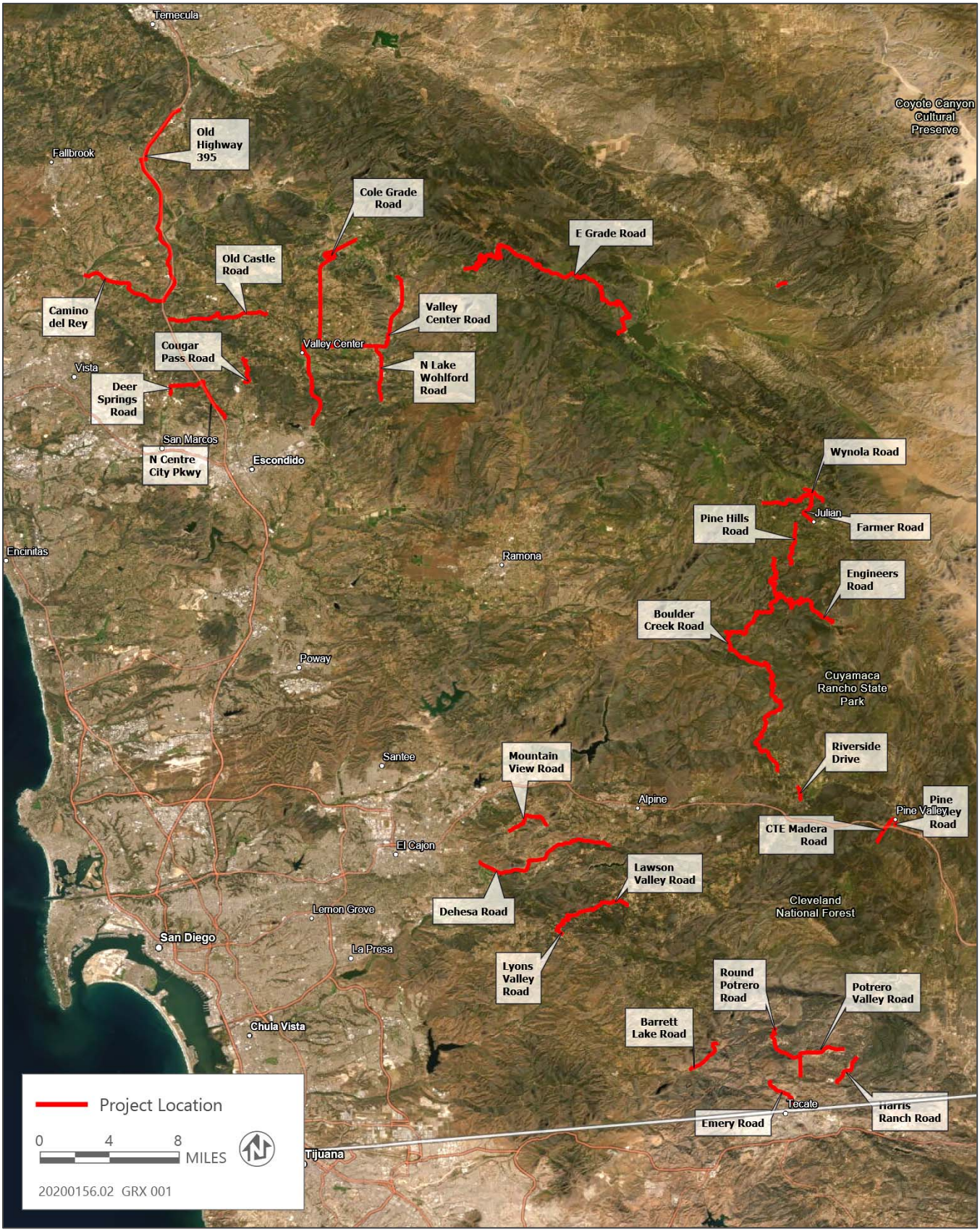

Figure 1 Regional Location

As a result of the increasing frequency of wildfires, implementing strategies to reduce their risk and threat in the unincorporated County is of the utmost importance with any delay having the potential to result in emergency conditions that may have tragic consequences.

As indicated previously, San Diego County manages nearly 2,000 miles of public roads that serve many of areas designated by the state of California as High or Very High Fire Hazard Severity Zones. These roads are critical during emergencies, such as wildfires, allowing residents the ability to evacuate and first responders the ability to reach the front lines of an incident. The County has increasingly grown concerned about preventing worst-case scenarios such as entrapments, a potentially life-threatening situation in which wildfire overtakes a road.

PROJECT OBJECTIVES

The project is proposed to increase the safety of emergency access and evacuation routes. Objectives for the proposed project are to:

1. Maintain safe evacuation routes along public and private roadways within the unincorporated County by reducing barriers to evacuation and flammable vegetation along emergency evacuation routes for the community and allow for first responders to reach the front lines of an incident;
2. Reduce the risk of lateral wildfire spread to natural resources and/or structures;
3. Reduce fuel within areas at high risk of wildfire ignition; and
4. Establish fuel breaks along roadways;

PROJECT DESCRIPTION

The project proposes to increase roadside vegetation management by adding 266 lane miles of high priority roads for wildfire safety. SDCFPD's work may include work along roads maintained by DPW, either within the ROW or beyond the ROW up to 20 feet from the edge of the pavement. Permission to perform work on private property would be obtained prior to any work being conducted on private land. Vegetation management may also occur along other high priority roads not maintained by DPW. No ground disturbance is proposed; however, vegetation would be trimmed back to a height of no more than six inches and, in certain cases, be removed entirely. Specific areas may require up to two treatments (cutting, trimming, or pruning) each year. In addition to the fuel reduction treatments, SDCFPD is proposing to apply PHOS-CHEK® FORTIFY®, a long-term and weather-resistant fire retardant from the United States Forest Service's qualified product list, on select stretches of roads following fuel reduction activities. Application of PHOS-CHEK® FORTIFY® aims to further reduce roadside starts and enhance the protection of evacuation corridors, reducing fire risks and improving evacuation performance in the event of a wildfire. PHOS-CHEK® FORTIFY® is comprised of the already widely used ammonium polyphosphate and an environmentally benign cellulose-based viscoelastic carrier fluid that contains solely nontoxic starting materials widely used in food, drug, cosmetic, and agricultural formulations (Yu et al. 2019). Finally, the project and its proponents will comply with the Reasonable and Prudent Measures and the Terms and Conditions identified in the Biological Opinion issued by the United States Fish and Wildlife Service (USFWS).

CONSTRUCTION AND MAINTENANCE SCHEDULE

Project activities are anticipated to begin in 2022 and would require up to five months to complete. Maintenance would occur on an annual basis as needed. Construction activities would primarily include trimming back target vegetation and chipping from mechanical treatment activities. Topsoil disturbance would be minimal, and grubbing would be avoided to ensure roots remain intact. Masticator chippings would be left in place and away from roadway ROW. Construction personnel associated with the project would apply PHOS-CHEK® FORTIFY® fire retardant along the roadside in areas not identified as sensitive habitat.

Equipment would primarily include masticators and water tenders. Additionally, leaf blowers and chain saws may be used on a very limited basis if the masticator would cause damage to improvements. Onsite construction equipment with its associated horsepower (hp) would include:

- John Deer 6110M Tractor (122 hp)
- New Holland TV6070 Tractor (155 hp)
- Water Tender (240 hp)
- Leaf Blower (10 hp)
- Chain Saw (10 hp)

Up to two crews would be working simultaneously throughout the project area. Each crew would typically consist of one masticator operator, one water tender operator, and 2 to 4 traffic management and roadway safety personnel. Construction would take place up to eight hours per day on weekdays between the hours of 7:00 a.m. and 7:00 p.m. to comply with County construction noise regulations (County of San Diego Municipal Code Sections 36.408-36.409). It is estimated that each crew could complete up to two miles of work per day.

DOCUMENTS INCORPORATED BY REFERENCE

A Memorandum of Understanding (MOU; 1997) between the United States Fish and Wildlife Service (USFWS), California Department of Fish and Wildlife (CDFW), California Department of Forestry, San Diego County Fire Chief's Association, and the Fire District's Association of San Diego County was entered into in 1997 and remains in effect. The 1997 MOU was entered into to allow the abatement of flammable vegetation within the respective jurisdictions in order to protect life, property, and the environment from the threat of fire in accordance with State Law, County and District ordinances and Cities municipal codes and to establish a cooperative mechanism whereby USFWS and CDFW may assess, minimize, and help account for the potential adverse impacts to special-status species that would result from the abatement activities.

The 1997 MOU authorizes the take of species listed as threatened or endangered, or candidate species for management purposes necessitated by or incidental to fire protection measures described within the 1997 MOU. Applicable provisions within the 1997 MOU include but is not limited to "Any measures as deemed necessary by the Fire Chief and in accordance with the Guideline section of this MOU."

"Section II. Guideline" of the 1997 MOU indicates under subsection d. that "Property owners, their lessees, fire districts, the County of San Diego, Caltrans, and cities shall be permitted to clear up to 30' along each side of the established regularly traveled roadways. The required width will be at the discretion of the fire chief."

Furthermore, "Section VI. Special Terms and Conditions" specifies that it is understood by the parties that the Department authorizes the take of species listed as threatened species or endangered species, or candidate species (Under Chapter 1.5 of Division 3 of the Fish and Game Code) which may be impacted by the fire protection activities established by the guidelines set forth in Section I of the MOU.

Finally, "Section VII. Findings" states that pursuant to Fish and Game Code 2081, the Department finds that implementation of the fire control, abatement, and protection measures contemplated by this MOU is not likely to result in jeopardy to the continued existence of the identified State listed or candidate species, if the terms and conditions of the MOU are fully implemented and adhered to. The Department finds, further, that by preventing or limiting the spread of fire to the identified species' habitat, this MOU will serve to protect the identified species from further degradation.

APPLICABLE CEQA EXEMPTION

California Environmental Quality Act review is required for projects that are discretionary and that have the potential to have an impact on the environment. However, the CEQA statutes and implementing guidelines contain a list of exempt actions that have been deemed to not have a significant effect on the environment. CEQA exemptions are

addressed in Article 18 (Statutory Exemptions) and Article 19 (Categorical Exemptions) of the CEQA Guidelines. All projects that meet one or more of the descriptions of the statutory exemptions are exempt from CEQA. Projects meeting the descriptions of the categorical exemptions are generally exempt from the provisions of CEQA, unless exceptional circumstances occur.

Based on the project purpose and project description described above and in combination with the Memorandum of Understanding (MOU; 1997) with the wildlife agencies, the project qualifies as categorically exempt from the provisions of CEQA pursuant to CEQA Guidelines Section 15304. The categorical exemption is described as follows:

> *CEQA Guidelines Section 15304: Minor Alterations to Land*
> Class 4 consists of minor public or private alterations in the condition of land, water, and/or vegetation which do not involve removal of healthy, mature, scenic trees except for forestry or agricultural purposes. Examples include, but are not limited to:
>
> (i) Fuel management activities within 30 feet of structures to reduce the volume of flammable vegetation, provided that the activities will not result in the taking of endangered, rare, or threatened plant or animal species or significant erosion and sedimentation of surface waters. This exemption shall apply to fuel management activities within 100 feet of a structure if the public agency having fire protection responsibility for the area has determined that 100 feet of fuel clearance is required due to extra hazardous fire conditions.

Why CEQA Guidelines Section 15304 "Minor Alterations to Land" Exemption Applies to the Proposed Project

The Class 4 exemption applies to the proposed project because the project is a fuel management activity within 30 feet of structures (e.g., County roadways) proposed to reduce the volume of flammable vegetation. The project is being proposed to avoid sensitive habitat to the extent feasible and would avoid riparian habitat entirely. Moreover, as indicated in the analysis in this document under Biological Resources, the proposed project would not result in unauthorized take and CDFW found that "implementation of the fire control, abatement, and protection measures contemplated by [the] MOU is not likely to result in jeopardy to the continued existence of the identified State listed or candidate species, if the terms and conditions of the MOU are fully implemented and adhered to." CDFW made the finding "that by preventing or limiting the spread of fire to the identified species' habitat, this MOU will serve to protect the identified species from further degradation." As such, the project would not result in an adverse and significant impact to endangered, rare, or threatened plant or animal species. Additionally, as analyzed under Hydrology and Water Quality below, the project would not result in significant erosion and sedimentation of surface waters because vegetation management activities would leave vegetation roots intact to ensure soil erosion does not occur and to minimize any changes to site drainage. Finally, no healthy, mature, scenic trees would be removed as the project is designed to avoid riparian habitat, including oak trees, and would not remove any trees that are protected by County ordinance.

Exceptions to the Use of a Categorical Exemption

Categorical exemptions are subject to exceptions defined in CEQA Guidelines Section 15300.2; if any of these exceptions occur, a categorical exemption cannot be used. The exceptions include:

a) Location. Classes 3, 4, 5, 6, and 11 are qualified by consideration of where the project is to be located – a project that is ordinarily insignificant in its impact on the environment may in a particularly sensitive environment be significant. Therefore, these classes are considered to apply in all instances, except where the project may impact on an environmental resource of hazardous or critical concern where designated, precisely mapped, and officially adopted pursuant to law by federal, state, or local agencies.

b) Cumulative Impact. All exemptions for these classes are inapplicable when the cumulative impact of successive projects of the same type in the same place, over time is significant.

c) Significant Effect. A categorical exemption shall not be used for an activity where there is a reasonable possibility that the activity will have a significant effect on the environment due to unusual circumstances.

d) Scenic Highways. A categorical exemption shall not be used for a project which may result in damage to scenic resources, including but not limited to, trees, historic buildings, rock outcroppings, or similar resources, within a highway officially designated as a state scenic highway. This does not apply to improvements which are required as mitigation by an adopted negative declaration or certified EIR.

e) Hazardous Waste Sites. A categorical exemption shall not be used for a project located on a site which is included on any list compiled pursuant to Section 65962.5 of the Government Code.

f) Historical Resources. A categorical exemption shall not be used for a project which may cause a substantial adverse change in the significance of a historical resource.

Table 2 provides a brief discussion of why each exception does not apply to the project.

Table 2 Exceptions to the Use of a Categorical Exemption (CEQA Guidelines Section 15300.2)

Exception	Applicability
(a) Location. Classes 3, 4, 5, 6, and 11 are qualified by consideration of where the project is to be located – a project that is ordinarily insignificant in its impact on the environment may in a particularly sensitive environment be significant. Therefore, these classes are considered to apply in all instances, except where the project may impact on an environmental resource of hazardous or critical concern where designated, precisely mapped, and officially adopted pursuant to law by federal, state, or local agencies.	The project would be located within a 20-foot buffer of approximately 266 lane miles of roadway in the unincorporated County. Any identified riparian areas would be avoided as required by the MOU with the Wildlife Agencies. As documented in the impact analysis, the proposed project would not impact an environmental resource of hazardous or critical concern where designated, precisely mapped, and officially adopted pursuant to law by federal, state, or local agencies
(b) Cumulative Impact. All exemptions for these classes are inapplicable when the cumulative impact of successive projects of the same type in the same place, over time is significant.	The project would result in a benefit related to wildfire prevention and would reduce potential wildfire hazard related impacts. In addition, as expressed in the MOU findings by CDFW, the impact on wildlife habitat and special status species would be a net benefit. Therefore, the project would not contribute to any cumulative environmental impact in relation to other projects in the region.
(c) Significant Effect. A categorical exemption shall not be used for an activity where there is a reasonable possibility that the activity will have a significant effect on the environment due to unusual circumstances.	The project would not have a significant effect on the environment due to unusual circumstances. As documented in the impact analyses below, the project would not result in any significant effects on the environment.
(d) Scenic Highways. A categorical exemption shall not be used for a project which may result in damage to scenic resources, including but not limited to, trees, historic buildings, rock outcroppings, or similar resources, within a highway officially designated as a state scenic highway. This does not apply to improvements which are required as mitigation by an adopted negative declaration or certified EIR.	Two highways in the unincorporated County have been designated as a State Scenic Highway: State Route (SR) 78 through the Anza-Borrego Desert State Park and SR-125 between Interstate 8 (I-8) and SR-94. Eligible scenic highways include portions of Interstate 5, Interstate 15, SR-94, I-8, SR-79, SR-78, and SR-76 within the unincorporated County. The project would be located along 266 lane miles of roadway within the unincorporated County. The project would not obscure scenic resources along the project site or create a barrier to any views from the roadway. Further, the project would not result in damage to any scenic resources, including trees, historic buildings, or rock outcroppings.
(e) Hazardous Waste Sites. A categorical exemption shall not be used for a project located on a site which is included on any list compiled pursuant to Section 65962.5 of the Government Code.	The project is located adjacent to the existing County roadway where there are no structures with potential to have stored or disposed of hazardous waste onsite. Therefore, there is no potential that the project site would have been exposed to hazardous waste or materials. Moreover, the proposed project would not disturb underlying soils even if unknown soil contamination was present.

Exception	Applicability
(f) Historical Resources. A categorical exemption shall not be used for a project which may cause a substantial adverse change in the significance of a historical resource.	The project would trim vegetation within a 20-foot buffer of the roadway edge to the root while minimizing disturbing the topsoil. Thus, the project would not cause a substantial adverse change in the significance of historical or archaeological resources or substantially disturb human remains.

ENVIRONMENTAL ANALYSIS

The following discussion evaluates the potential environmental impacts associated with the construction and operation of the project.

Aesthetics

Setting

The project site consists of approximately 266 lane miles of roadways in the unincorporated County. There is a wide range of aesthetic conditions, ranging from developed areas with residential uses, private driveways, and fencing to areas that are located on remote public lands such as National Forests overseen by the U.S. Forest Service.

Impact Analysis

The project consists of trimming back vegetation within a 20-foot buffer from the pavement on each side of the roadway. The vegetation would be cut down to the root, and disturbance to topsoil would be avoided to the maximum extent feasible. Masticator chippings would be left in place out of roadway ROW. Additionally, as further detailed in the Biological Resources section, riparian zones and vernal pool depressions identified in the biological survey would be avoided. The project does not involve the construction of any structures and the application of PHOS-CHEK® FORTIFY® is an uncolored precision applied product that would not be visible to area residents or road users. For these reasons, the project would not have a substantial adverse effect on scenic vistas, damage scenic resources, degrade existing visual character, or create a new source of substantial light or glare. Therefore, the project would have a **less-than-significant** impact on aesthetics.

Agricultural and Forestry Resources

Setting

The unincorporated County is made up of approximately 407,600 acres of farmland with only six percent of the region's soils considered prime agricultural land (County of San Diego 2011a:2.2-2). Approximately 31 percent of the unincorporated County is zoned A70 limited agriculture or A72 general agriculture, and approximately 80,504 acres are in Williamson Act Contract (County of San Diego 2011a:2.2-8). The project site is located along approximately 266 lane miles of unincorporated County roadway characterized as rural land in some areas and developed residential in other areas.

Impact Analysis

The project would clear vegetation within a 20-foot buffer on either side of approximately 266 lane miles of roadway ROW by cutting down the vegetation to the root. The project would not convert farmland to non-agricultural use, nor would it conflict with existing zoning for agricultural use or a Williamson Act contract. Furthermore, the project would not conflict or result in the loss of forest land or timberland production. Therefore, the project would have a **less-than-significant** impact on agricultural and forest resources.

Air Quality

Setting

The unincorporated County is located in the San Diego Air Basin encompassing approximately 4,260 square miles (County of San Diego 2011a:2.3-1). Sensitive receptors are defined by air quality regulators such as schools, hospitals, resident care facilities, daycare centers, or other facilities that may house individuals with health conditions that would be adversely impacted by changes in air quality. The County also considers residences sensitive receptors.

Impact Analysis

Construction equipment would consist of a masticator, water tender, chain saw, and leaf blower. There would be up to two crews working simultaneously in different areas of the project site. Based on modeling conducted to estimate the emissions generated by the project, the project would not exceed any County of San Diego air quality thresholds during construction or operations (i.e., vegetation trimming maintenance). See Appendix B for detailed modeling outputs. Therefore, the project would have a **less-than-significant** impact on air quality.

Biological Resources

Setting

The project site encompasses approximately 266 lane miles of unincorporated County roadway. The biological report identified 35 vegetation communities/land cover types, 12 special-status plant species, and 13 special-status wildlife species potentially located in the vicinity of the project. Except for a single observance of California Gnatcatcher, no special status species were observed during the surveys (See Appendix A for further detail).

As discussed under "Documents Incorporated By Reference" above, the MOU authorizes the take of species listed as threatened or endangered, or candidate species for management purposes necessitated by or incidental to fire protection measured described within the MOU. CDFW, pursuant to Fish and Game Code 2081, made findings that implementation of the fire control, abatement, and protection measures contemplated by the MOU would not likely to result in jeopardy to the continued existence of the identified State listed or candidate species, if the terms and conditions of the MOU are fully implemented and adhered to. CDFW determined that by preventing or limiting the spread of fire to the identified species' habitat, the MOU serves to protect the identified species from further degradation.

Impact Analysis

Uncontrolled wildfires pose a serious threat to human lives and property but are generally part of the natural disturbance cycle of adjacent wildlands. The project's overarching objective is to protect lives, property, and the natural environment from the increasing threat of wildfire while minimizing the potential of disturbance to special-status species and habitats. Properly maintained combustible vegetation is known to reduce the incidences of non-natural fires spreading from developed areas to natural land and lowers the potential impacts of unseasonable and frequent wildfires to special-status species and their habitats. Simple vegetation maintenance practices performed at least annually may greatly reduce the risk that catastrophic wildfires pose on humans and special-status species alike. Moreover, the project is being planned to limit impacts to sensitive habitats and avoid riparian areas entirely since they are naturally more resistant to fires. The vegetation maintenance activities associated with the project are consistent with the MOU, which finds that "implementation of the fire control, abatement, and protection measures contemplated by [the] MOU is not likely to result in jeopardy to the continued existence of the identified State listed or candidate species, if the terms and conditions of the MOU are fully implemented and adhered to." Moreover, Wildlife agencies determined that by preventing or limiting the spread of fire to the identified species' habitat, activities such as those proposed by the project will serve to protect the identified species from further degradation. Finally, SDCFPD is proposing to apply PHOS-CHEK FORTIFY, a long-term and weather-resistant fire retardant from the United States Forest Service's qualified product list, on select stretches of roads following fuel reduction activities. PHOS-CHEK FORTIFY is comprised of the already widely used ammonium polyphosphate and an environmentally benign cellulose-based viscoelastic carrier fluid that contains solely nontoxic starting materials widely used in food,

drug, cosmetic, and agricultural formulations (Yu et al. 2019). As such, impacts on biological resources from the project would be a **less-than-significant**.

Cultural Resources

Setting

As of 2011, the County of San Diego had more than 27,000 recorded cultural resource sites (County of San Diego 2011a:2.5-1); however, the location of cultural and archeological resources is not always known. The State has established several programs and policies to protect these resources. Additionally, the County has implemented regulatory protections to safeguard the presence of cultural resources that are previously known or discovered during construction activities.

Impact Analysis

The project involves trimming back vegetation to the root within a 20-foot buffer on either side of the roadway. The project would not disturb any structures including those of historical significance. Additionally, the project is designed to avoid disturbance of topsoil including grubbing where buried artifacts may occur within the County; thus, the project would not cause a substantial adverse change in the significance of historical or archaeological resources or substantially disturb human remains. Therefore, the project would have a **less-than-significant** impact on cultural resources.

Energy

Setting

San Diego Gas & Electric (SDG&E) provides electric and natural gas service to San Diego County. The County's 2015-2020 Strategic Energy Plan provided long- and short-term goals to reduce utility usage and costs and minimize impacts on the environment. The County has enacted policies, established programs, and implemented projects to achieve the goals set forth in the 2015-2022 Strategic Energy Plan. Additionally, the County's Zero Net Energy Portfolio Plan utilizes six phased strategies to cut its energy footprint in half by 2030 to meet State efficiency goals.

Impact Analysis

The project involves up to two sets of construction equipment each consisting of a masticator, water tender, chain saw, and leaf blower. Energy use would be minimal and short-term only taking place during the initial vegetation trimming and annually as needed. The project would not result in a wasteful, inefficient, or unnecessary consumption of energy resources nor would it conflict with a state or local renewable energy or energy efficiency plan, such as the County's 2015-2020 Strategic Energy Plan or County's Zero Net Energy Portfolio Plan. Therefore, the project would have a **less-than-significant** impact on energy.

Geology, Soils, and Seismicity

Setting

San Diego County contains active faults, steep topography, and other geological characteristics that pose public safety concerns. Major active faults and fault zones present within San Diego County include San Jacinto Fault Zone, including Coyote Creek Fault; Elsinore Fault Zone and Earthquake Valley Fault; and the Rose Canyon Fault Zone, including a series of unnamed faults trending from downtown San Diego across San Diego Bay to the City of Coronado. The San Andreas Fault Zone is not located within San Diego County (County of San Diego 2011:2.6-7). Although liquefaction is not known to have occurred historically in San Diego County, portions of the unincorporated County would be susceptible to liquefaction from ground shaking during larger seismic events (County of San Diego 2011a:2.6-11).

Landslides can be caused by ground shaking from an earthquake or water from rainfall, septic systems, landscaping, or other origins that infiltrate slopes with unstable material. The Multi-Jurisdictional Hazard Mitigation Plan estimated high and moderate risk of landslide assessments for urban and rural areas of the unincorporated County (County of

San Diego 2011a:2.6-12). The San Diego region has been divided into 34 soil associations containing variable susceptibility to erosive forces, depending on their individual characteristics (County of San Diego 2011a:2.6-14).

Impact Analysis

The trimming of vegetation within the project site would keep the roots intact having a minimal effect on erosion and the loss of topsoil. Additionally, the project would not involve the construction of buildings or facilities that would relocate residents, visitors, or employees on site; thus, risks associated with ground shaking are not applicable to the project. For these reasons, the project would not cause potential substantial adverse effects involving fault rupture or seismic ground shaking. Additionally, the project would not result in erosion or sediment runoff. Therefore, the project would have a **less-than-significant** impact on geology, soils, and seismicity.

Greenhouse Gas Emissions

Setting

According to a 2012 greenhouse gas inventory conducted by the San Diego Association of Governments (SANDAG), a total of 34.67 MMTCO2e were generated by activities in the unincorporated County. The largest contributor of greenhouse gas emissions was on-road transportation, which includes emissions from gasoline and diesel fuel use from vehicles operating on roadways. The second largest contributor was electricity consumption, which accounts for electricity generated from non-renewable sources and consumed at buildings and developments. Wildfires also contribute to greenhouse gas emissions.

Impact Analysis

A common screening threshold applied to projects is the California Air Pollution Control Officers Association's (CAPCOA's) threshold of 900 metric tons CO2e per year (equivalent to 50 houses or 30,000 square feet of commercial space, i.e., 90% of all projects are this size or greater). Projects less than this would not be significant.

Emissions from the project would be short-term, and project construction is expected to take up to five months to complete. Additionally, vegetation maintenance would occur on an annual basis. Emissions generated by the project would be minimal as construction equipment is limited to up to two masticators, water tenders, chain saws, and leaf blowers. Modeling conducted to estimate emissions from construction and operations of the project resulted in 75 metric tons CO2e per year (see Appendix B); thus, the project would not exceed CAPCOA's 900 metric ton threshold for greenhouse gas emissions for construction and operations. Therefore, the project would have a and **less-than-significant** impact on greenhouse gas emissions.

Hazards and Hazardous Materials

Setting

Historic land uses in the County that have the potential to result in hazardous material site contamination include burnsites, landfills, formerly used defense sites, agriculture, and petroleum storage. The following County-owned airports are located in the unincorporated County: Agua Caliente Airstrip, Borrego Valley Airport, Fallbrook Community Airpark, Jacumba Airport, Ocotillo Airstrip, and Ramona Airport. Most of the County is in the High and Very High Fire Hazard Severity Zone (FHSZ), except for the Desert and eastern Mountain Empire Sub-Regions which are in the Moderate FHSZ (County of San Diego 2011a:2.7-15).

Impact Analysis

The project is located adjacent to the existing roadway where there are no structures with potential to have stored hazardous waste onsite. Therefore, there is no potential that the project site would have been exposed to hazardous waste or materials. The project would trim back vegetation along approximately 266 lane miles of roadway within a 20-foot buffer from the pavement. The project would not involve the transport, use, or disposal of hazardous materials. Additionally, the project would trim the vegetation to the root; thus, the project would not create a hazard to the public or environment which could result from topsoil disturbance. Finally, a water tender would be present at each project site

in the event a fire is ignited from construction activities. Once vegetation trimming is completed, the project would further reduce fire risk by apply PHOS-CHEK FORTIFY. Application of PHOS-CHEK FORTIFY aims to further reduce roadside starts and enhance the protection of evacuation corridors, reducing fire risks and improving evacuation performance in the event of a wildfire. PHOS-CHEK FORTIFY consists of the already widely used ammonium polyphosphate and an environmentally benign cellulose-based viscoelastic carrier fluid that contains solely nontoxic starting materials widely used in food, drug, cosmetic, and agricultural formulations (Yu et al. 2019). Therefore, the project would have a **less-than-significant** impact on hazards and hazardous materials.

Hydrology and Water Quality

Setting

The County has three general categories of aquifers that include fractured rock aquifers, alluvial and sedimentary aquifers, and desert basin aquifers. The coastal zone of San Diego County is mostly supplied with imported water from member agencies of the San Diego County Water Authority (SDCWA). Approximately 65 percent of the County is dependent on groundwater resources, which provides the only source of water for approximately 41,000 residents (County of San Diego 2011a:2.8-2).

Impact Analysis

The project would comply with the regulations of the regional water quality control board and all other applicable State, federal, and local water and wastewater regulations. The project involves the trimming of vegetation along the roadway to the root. No grubbing would occur, and topsoil disturbance would be avoided to the greatest extent possible to avoid any additional erosion and minimize any changes to existing onsite drainage. Organic debris created from trimming vegetation would be left in place away from roadway ROW. The project would not alter local drainage patterns, exacerbate erosion, affect storm water discharges and/or alter the potential for flooding within or adjacent to the project site. PHOS-CHEK FORTIFY would be applied to a percentage of high-risk areas and is a hydrogel-based platform and polymer technology that provides it with weathering resistance and enhances adherence to vegetation, and requires a significant rain event to dislodge. PHOS-CHEK FORTIFY, itself, consists of widely used ammonium polyphosphate and an environmentally benign cellulose-based viscoelastic carrier fluid that contains solely nontoxic starting materials widely used in food, drug, cosmetic, and agricultural formulations (Yu et al. 2019). As such, the fire retardant would be resistant to runoff and would generally be considered non-toxic in the environment. Therefore, the project would have a **less-than-significant** impact on hydrology and water quality.

Land Use and Planning

Setting

The unincorporated County is broadly made up of villages, semi-rural, and rural regional land use categories. Privately owned land has been designated almost entirely to residential land uses across all three categories with only approximately 6 percent designated for specific plan area, commercial, or industrial development (County of San Diego 2011b:3-9). As discussed in the Aesthetics Setting Section, there are a variety of uses across the project site, ranging from developed areas with residential uses and areas that are located on rural public lands.

Impact Analysis

The project involves the trimming of vegetation within a 20-foot buffer along approximately 266 lane miles of roadways within the unincorporated County. The project does not include the demolition or construction of any structures and would not result in any changes to the roadway network including the subdivision of any property. Additionally, existing land uses along the project site would remain as is, and the project would not result in physical changes to the environment that could physically divide an established community. Therefore, the project would have a **less-than-significant** impact on land use and planning.

Mineral Resources

Setting

The three general categories of mineral resources valuable to San Diego County include: construction materials, industrial and chemical mineral materials, and metallic and rare materials (County of San Diego 2011a:2.10-3).

Areas known as Mineral Resource Zones (MRZs) are classified on the basis of geologic factors, without regard to existing land use and land ownership. MRZ-2 classification is recognized in land use planning because the likelihood for occurrence of significant mineral deposits is high, and the classification may be a factor in the discovery and development of mineral deposits that would tend to be economically beneficial to society. Within the unincorporated County, urban development has encroached upon many existing and potential future mining sites reducing access to many of the locally important mineral deposits (County of San Diego 2011b:5-20).

Impact Analysis

The project would trim vegetation to the root avoiding disturbance of topsoil to the greatest extent possible within a 20-foot buffer of the roadway edge. While portions of the project site are located adjacent to developed uses and adjacent to the roadway which are incompatible with mineral extraction, the project would not affect the potential for mineral resource recovery where feasible. Additionally, the project would not result in the availability or loss of locally important mineral resources. Therefore, the project would have a **less-than-significant** impact on mineral resources.

Noise

Setting

The predominant noise source influencing noise levels on and near the project site includes vehicle traffic on the surrounding roadway network. Noise-sensitive land uses are generally considered to include those uses where noise exposure could result in health-related risks to individuals, as well as places where quiet is an essential element of their intended purpose. Residential dwellings are of primary concern because of the potential for increased and prolonged exposure of individuals to both interior and exterior noise levels. Additional land uses such as schools, transient lodging, historic sites, cemeteries, and places of worship are also generally considered sensitive to increases in noise levels.

Impact Analysis

Project construction would take place between the hours of 7:00 am and 7:00 pm to comply with Sections 36.408-36.409 of the County of San Diego Municipal Code which limits the hours construction activity. Additionally, noise associated with project construction would be linear in nature. Elevated noise levels would only occur temporarily (generally less than 1 hour) in the location where construction occurs before moving along the roadway. Each masticator would emit a noise level of approximately 85 dB at a distance of 50 feet with the majority of sensitive receptors located farther from the noise source. Chain saws also produce a noise level of approximately 85 dB at a distance of 50 feet; however, this equipment would only be used on an as-needed basis. The project would have no effect on long term operational noise other than intermittent, short-term noise associated with annual vegetation trimming maintenance similar to that of the initial construction phase. Therefore, the project would have a **less-than-significant** impact on noise.

Population and Housing

Setting

In 2020, the unincorporated County was estimated to contain a population of 505,675 (SANDAG 2021). Census data from 2010 estimated total employment at 385,988 (SANDAG 2016).

Impact Analysis

The project would trim vegetation along each side of approximately 266 lane miles of unincorporated County roadway for the purpose of reducing wildfire risk and enhancing evacuation efficiency in case of emergency. The

project does not involve any changes to the environment that would increase the number of residents or employees. Project construction would involve up to two crews working simultaneously. Each crew would consist of one masticator operator, one water tender operator, and 2-4 traffic management and roadway safety personnel. Construction workers are anticipated to commute from within the San Diego region and would not require temporary housing. The project would not induce population growth in the area, nor would it displace existing people or housing. Therefore, the project would have a **less-than-significant** impact on population and housing.

Public Services

Setting

Within the unincorporated County's emergency services system, fire and emergency medical services are provided by Fire Protection Districts, County Service Areas, and CAL FIRE. The San Diego County Sheriff's Department is the chief law enforcement agency in San Diego County. Additionally, public schools and educational facilities are mandated by the State Department of Education and administered by the San Diego County Board of Education and the San Diego County Office of Education. Finally, the San Diego County Library system serves several communities within the unincorporated County (County of San Diego 2011a:2.13).

Impact Analysis

The project would not require additional fire, police, school, or other public services beyond what is already provided in the area. Construction activities would be located outside of roadway ROW and maintain emergency vehicular access at all times. Therefore, project construction would not substantially impair implementation of or physically interfere with an existing emergency response or emergency preparedness plan or emergency evacuation plan, or require the preparation of a new emergency response or preparedness plan. Furthermore, an overall goal of the project is to increase evacuation and first responder access in the event of a wildfire, benefiting public services. Therefore, the project would have **no impact** on public services.

Recreation

Setting

The County of San Diego Department of Parks and Recreation maintains and enhances the quality of life for residents and visitors through a comprehensive program of acquisition, development and maintenance of recreation facilities including local and regional parks, fishing lakes, community centers, special use facilities, and preserves. Additionally, a system of regional and community trails further enhances and augments public recreational opportunities and experiences throughout the San Diego region (County of San Diego 2011a:2.14-1).

Impact Analysis

The project involves the trimming of vegetation along approximately 266 lane miles of roadways in the unincorporated County for fuel break and evacuation purposes. The project does not involve the construction or development of facilities that would increase the use of existing parks or recreational facilities or require the construction or expansion of recreational facilities. Therefore, the project would have **no impact** on recreation.

Transportation

Setting

The county contains a mix of roadway types that vary in ROW, number of travel lanes, median type, design speed, and bicycle and pedestrian infrastructure (County of San Diego 2018). Bus and rail service is provided by the Metropolitan Transit Authority (MTS) and North County Transit District (NCTD). Each transit operator provides paratransit services to Americans with Disability Act (ADA) certified passengers. As of 2018, the unincorporated County's existing bicycle facilities consisted of 1 mile of Class I Bike Path, 145 miles of Class II Bike Lanes, and 9 miles of Class III Bike Routes (County of San Diego 2018b:3-3). Pedestrian facilities in the unincorporated County consist of

sidewalks, pathways, and trails. Several areas in the unincorporated County are characterized as rural and no not have bicycle and/or pedestrian facilities present.

Impact Analysis

The project would not involve the reconfiguration of the roadway network, and construction would not impede with any vehicle, transit, bicycle, or pedestrian facilities or plans. Construction would remain away from roadway ROW to ensure hazards related to transportation safety are minimized and personnel would coordinate and control traffic when activities would potentially intrude into the roadway. Trips associated with construction personnel are temporary, intermittent, and redistributed throughout the region. Additionally, each crew would consist of a small number of construction personnel (i.e., up to 12 construction workers in total). Thus, vehicle miles traveled would not substantially increase as a result of the project. The existing emergency access network would remain as is and likely improve due to the increased evacuation access provided by the project. Therefore, the project would have a **less-than-significant** impact on transportation.

Tribal Cultural Resources

Setting

Assembly Bill (AB) 52 establishes a formal consultation process for California Indian tribes as part of CEQA and equates significant impacts on tribal cultural resource with significant environmental impacts. Tribal cultural resources include site features, places, cultural landscapes, sacred places, or objects which are of cultural value to a tribe. The San Diego region is generally composed of the following four distinct cultural groups: Kumeyaay/Diegueno, Luiseño, Cahuilla, and Cupeño.

Impact Analysis

The project would cut vegetation along the roadway to the root and would not involve grubbing which would disturb the topsoil or deeper soils that may have the potential to contain buried tribal cultural resources. Moreover, no structures would be removed or modified, including any potential prehistory structures or artifacts. For this reason, the project would not cause a substantial adverse change in the significance of a tribal cultural resource. Therefore, the project would have a **less-than-significant** impact on tribal cultural resources.

Utilities and Service Systems

Setting

The following four entities provide water supply for the County: Metropolitan Water District, SDCWA, and SDCWA Member Water Districts; Groundwater Dependent Water Districts; Groundwater Dependent Users; and Borrego Valley Aquifer. Additionally, there are 25 wastewater districts that serve the County which can be distinguished in the following three categories: the City of San Diego Metropolitan Wastewater Department (SDMWD); wastewater districts served by SDMWD; and wastewater districts unaffiliated with SDMWD. As of 2011, there were seven active landfills, nine transfer stations, construction demolition and inert processing facilities, ten biomass processing facilities, and various recycling programs that served the unincorporated County's solid waste disposal service needs.

Impact Analysis

The project would involve the trimming of vegetation to the root avoiding topsoil to the greatest extent feasible. The project would not require the relocation of construction of water, electric, gas, or telecommunication facilities. Additionally, the project would not require any utility or service systems. No solid waste would need to be disposed of as organic debris created from trimming vegetation would be left in place away from roadway ROW. Therefore, the project would have a **no impact** on utilities and service systems.

Wildfire

Setting

The California Department of Forestry and Fire Prevention (CALFIRE) identified San Diego County among the top five counties in the State for both number of acres burned and dollar value of fire damage (CAL FIRE 2016). The majority of the County is designated as a Very High and High FHSZ, except for the Desert and eastern Mountain Empire subregions, which are in the Moderate FHSZ. There are also areas of Moderate FHSZ and un-zoned areas in the more densely populated communities around the County (County of San Diego 2020:2.7-3 and 2.7-4).

Impact Analysis

The purpose of the project is to mitigate fire hazard and remove obstacles for evacuations related to wildfires in the unincorporated County. The project involves the management of vegetation along approximately 266 lane miles of roadway by trimming vegetation within a 20-foot buffer of each side of the roadway edge. The vegetation maintenance would provide a fuel break reducing the severity of wildfires and increase emergency access by essentially widening the usable area for evacuation situations to help avoid worst case scenarios such as entrapments. For these reasons, the project would assist in the implementation of County emergency response plans while reducing the risk of wildfires. Therefore, the project would have a **no impact** on wildfire.

CONCLUSION

Based on the analysis presented above, the proposed project would not result in any potentially significant environmental effects and the project qualifies for a Class 4 Categorical Exemption pursuant to CEQA requirements. Moreover, as indicated in Table 2, no exceptions to the categorical exemption would occur.

LIST OF ABBREVIATIONS

AB	Assembly Bill
ADA	Americans with Disability Act
BO	biological opinion
CAPCOA	California Air Pollution Control Officers Association
CDFW	California Department of Fish and Wildlife
CDF	California Department of Forestry
CAL FIRE	California Department of Forestry and Fire Prevention
CEQA	California Environmental Quality Act
Districts	Fire District's Association of San Diego County
Fire Chiefs	San Diego County Fire Chief's Association
FHSZ	Fire Hazard Severity Zone
hp	horsepower
MOU	Memorandum of Understanding
MRZs	Mineral Resource Zones
MTS	Metropolitan Transit Authority

NCTD	North County Transit District
ROW	right-of-way
SDCFPD	San Diego County Fire Protection District
SDCWA	San Diego County Water Authority
SDMWD	San Diego Metropolitan Wastewater Department
SDG&E	San Diego Gas & Electric
SR	State Route
TCRs	Tribal Cultural Resources
USDA	United States Department of Agriculture
USFWS	United States Fish and Wildlife Service

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COUNTY OF SAN DIEGO ROADSIDE VEGETATION MANAGEMENT PROJECT

BIOLOGICAL RESOURCES CONSTRAINTS LETTER REPORT

SAN DIEGO COUNTY, CALIFORNIA

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March 21, 2022

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1.0 INTRODUCTION AND BACKGROUND

Fire hazards represent a high-level threat to individuals, property, and wildlife located in the unincorporated areas of San Diego County (County). Nearly 80 percent of the County's unincorporated communities are located within very high or high fire severity zones. San Diego County manages nearly 2,000 miles of public roads that serve many of these State designated very high or high fire severity zones. These roads are critical during emergencies, such as wildfires, allowing residents the ability to evacuate and first responders the ability to reach the front lines of an incident. The County has increasingly grown concerned about preventing worst-case scenarios such as entrapments, a potentially life-threatening situation in which wildfire overtakes a road. Therefore, fire safety, including the ability to evacuate, is of the utmost importance to residents living in the County's rural areas.

On March 16, 2021, the San Diego County Board of Supervisors (Board) directed the San Diego County Fire Protection District (SDCFPD) to pursue a vegetation maintenance program to reduce fire risks along approximately 266 miles of rights-of-ways (ROW) and private land situated adjacent to existing roadways throughout unincorporated areas of the County (project). In response, on October 5, 2021, SDCFPD presented a recommendation to the Board for SDCFPD to expand beyond the existing practice by County of San Diego's Department of Public Works (DPW), which currently manages vegetation along certain County-maintained roads in the unincorporated areas, up to 10 feet from the edge of the pavement within the public right-of-way, consistent with County Defensible Space Ordinance (Section 68.404(c)). This allows for motorists to safely pull off the side of the road in an emergency.

In response to the Board's July 13, 2021 direction and consistent with the County Consolidated Fire Code (Section 4907.2.1), which provides fire districts with the authority to clear combustible vegetation within 20 feet on both sides of the roadway, SDCFPD is proposing to conduct fuel reduction treatments within a 20-foot-wide buffer on each side of certain high-risk County-maintained roads totaling approximately 266 miles. In addition to the fuel reduction treatments, SDCFPD is proposing to apply PHOS-CHEK® FORTIFY®, a long-term and weather-resistant fire retardant from the United States Forest Service's qualified product list, on select stretches of roads following fuel reduction activities. Application of PHOS-CHEK® FORTIFY® aims to further reduce roadside starts and enhance the protection of evacuation corridors in the event of a wildfire. PHOS-CHEK® FORTIFY® is comprised of the already widely used ammonium polyphosphate and an environmentally benign cellulose-based viscoelastic carrier fluid that contains solely nontoxic starting materials widely used in food, drug, cosmetic, and agricultural formulations (Yu et al. 2019).

1.1 Purpose of this Constraints Study

Blackhawk Environmental, Inc. (Blackhawk), under Ascent Environmental (Ascent), was contracted to evaluate the existing biological resources by conducting a literature review for special-status species and other sensitive biological resources occurrences, performing windshield surveys to map vegetation communities and document special-status species and other sensitive biological resources occurrences, and prepare a biological resources constraints letter report to document the results and provide guidance and recommendations for implementation of vegetation management practices associated with the project.

The information and results presented herein document the investigation, best professional judgement, and conclusions of Blackhawk. It is correct and complete to the best of our knowledge.

1.2 Location

The project encompasses 29 road segments that total approximately 266 miles of County-maintained roadways throughout the inland areas of north and east San Diego County. Rural residential communities within the project area include Potrero, Barrett Junction, Pine Valley, Descanso, Julian, Wynola, Jamul, Crest, Harbison Canyon, Palomar Mountain, Rincon, Valley Center, Pauma Valley, Escondido, San Marcos, Bonsall, and Rainbow. As shown in Figure 1, the project areas are located east of Interstate 15 (I-15), with three exceptions: Deer Springs Road, Camino del Rey, and portions of Old Highway 395.

1.3 Project Description

The project proposes to increase roadside vegetation management by adding approximately 266 lane-miles of high priority roads for wildfire safety. SDCFPD's work may include work along roads maintained by DPW, either within the ROW or beyond the ROW up to 20 feet from the edge of the pavement. Vegetation management may also occur along other high priority roads not maintained by DPW. No ground disturbance is proposed; however, vegetation would be trimmed back to a height of no more than six inches and in certain cases where needed, be removed entirely. Vegetation management will not include removal of root structure as to prevent erosion. Specific areas may require up to two treatments (cutting, trimming, or pruning) each year. Following fuel reduction treatments, SDCFPD may apply PHOS-CHEK® FORTIFY® on select stretches of project roads to further reduce roadside starts and enhance the protection of evacuation corridors.

The project and its proponents will comply with the Reasonable and Prudent Measures and the Terms and Conditions identified in the Biological Opinion issued by the United States Fish and Wildlife Service (USFWS).

2.0 REGULATORY SETTING

2.1 1997 Memorandum of Understanding

A Memorandum of Understanding (MOU; 1997) between the United States Fish and Wildlife Service (USFWS), California Department of Fish and Wildlife (CDFW), California Department of Forestry (CDF), San Diego County Fire Chief's Association (Fire Chiefs), and the Fire District's Association of San Diego County (Districts) was entered into in 1997 and remains in effect. The 1997 MOU was entered into to allow the abatement of flammable vegetation within the respective jurisdictions in order to protect life, property, and the environment from the threat of fire in accordance with State Law, County and District ordinances and Cities municipal codes and to establish a cooperative mechanism whereby USFWS and CDFW may assess, minimize, and help account for the potential adverse impacts to special-status species that would result from the abatement activities. A copy of the MOU can be found in Attachment C.

The 1997 MOU authorizes the take of species listed as threatened or endangered, or candidate species for management purposes necessitated by or incidental to fire protection measures described within the 1997 MOU. Applicable provisions within the 1997 MOU include but is not limited to "Any measures as deemed necessary by the Fire Chief and in accordance with the Guideline section of this MOU."

"Section II. Guideline" of the 1997 MOU indicates under subsection d. that "Property owners, their lessees, fire districts, the County of San Diego, Caltrans, and cities shall be permitted to clear up to 30' along each side of the established regularly traveled roadways. The required width will be at the discretion of the fire chief."

Moreover, "Section II. Guideline" indicates that fire districts and cities shall continue to avoid vegetation removal in recognizable riparian (stream side) zones and vernal pool depressions, as these are naturally somewhat resistant to fire and are subject to separate federal and state regulations. If such removal is deemed necessary by the local fire chief, USFWS and CDFW must be notified in writing and consulted at least ten (10) days prior to anticipated vegetation abatement. If the USFWS and CDFW fail to respond within the ten-day period, the party may complete the abatement and not be in violation of the 1997 MOU.

"Section IV. Biological Surveys" states that property owners, their lessees, CDF, fire districts and cities shall not be required to perform biological surveys as a condition precedent to performance of the fire protection activities established by the guidelines set forth in Section I of the MOU.

Furthermore, "Section VI. Special Terms and Conditions" specifies that it is understood by the parties that the Department authorizes the take of species listed as threatened species or endangered species, or candidate species (Under Chapter 1.5 of Division 3 of the Fish and Game Code) which may be impacted by the fire protection activities established by the guidelines set forth in Section I of the MOU.

Finally, "Section VII. Findings" states that pursuant to Fish and Game Code 2081, the Department finds that implementation of the fire control, abatement, and protection measures contemplated by this MOU is not likely to result in jeopardy to the continued existence of the identified State listed or candidate species, if the terms and conditions of the MOU are fully implemented and adhered to. The Department finds, further, that by preventing or limiting the spread of fire to the identified species' habitat, this MOU will serve to protect the identified species from further degradation.

2.2 Local Ordinances and Codes

The County Defensible Space Ordinance (Section 68.404(c)) requires property owners to clear ten feet of combustible vegetation along the sides of roadways and driveways, while allowing the Fire Warden, as necessary, to require additional vegetation management in accordance with the County's Consolidated Fire Code (CFC). Additionally, the CFC (Section 4907.2.1) provides fire districts the option to clear combustible vegetation within 20 feet on both sides of roadways.

2.3 California Environmental Quality Act

California Environmental Quality Act review is required for projects that are discretionary and have the potential to have an impact on the environment. However, the CEQA statutes and implementing guidelines contain a list of exempt actions that have been deemed to not have a significant effect on the environment. Regulatory exemptions are addressed in Article 18 (Statutory Exemptions) and Article 19 (Categorical Exemptions) of the CEQA Guidelines. All projects that meet the descriptions of the statutory exemptions are exempt from CEQA. Projects meeting the descriptions of the categorical exemptions are generally exempt from the provisions of CEQA, unless exceptional circumstances occur.

3.0 METHODS

3.1 Database and Literature Review

Prior to conducting the windshield surveys to map the vegetation communities, Blackhawk conducted a database records search centered on each of the 29 road segments. A five-mile radius surrounding each road segment was reviewed for sensitive biological and aquatic resources. The California Department of Fish and Wildlife (CDFW) California Natural Diversity Database (CNDDB) (CDFW 2022) was reviewed for sensitive plant and wildlife species records in the quadrangles containing and surrounding the project sites. CNDDB contains records of reported occurrences of federal- and State-listed species, proposed endangered or threatened species, and/or otherwise sensitive species or communities that may occur within or in the vicinity of a project area. For the purposes of this project, only species identified during the literature review that were designated as federal- and State-listed, or proposed endangered or threatened, were deemed special-status (target) species.

Utilizing the background data described above, a field survey was conducted to assess the 29 road segments for existing conditions and their capacity to potentially harbor sensitive biological resources (special-status species, sensitive habitat types, etc.) identified in the literature review.

3.2 Field Survey

A windshield survey of approximately 266 lane-miles along the 29 road segments was performed by Blackhawk survey teams between December 8, 2021, and January 13, 2022. Methods included driving the road segments and where appropriate/feasible pausing at select vantage points that provided full visual coverage of the surrounding area to document existing vegetation communities, incidental special-status species observation, and Riparian Zones and vernal pool depressions. Vegetation communities along both sides of the roadways were mapped out to 20 feet from the edge of the pavement (Survey Area). Vegetation communities/land cover types were described according to dominant plant(s) species as detailed in the 2008 Draft Vegetation Communities of San Diego County (Oberbauer et al 2008) and annotated on high-resolution aerial imagery of the Survey Area using the ESRI-based ArcGIS Online applications Collector and Field Maps. Binoculars were used as needed and plant species observed were identified to species level when feasible according to the nomenclature in The Jepson Manual: Vascular Plants of California Edition 2 (Baldwin et al. 2012). Ancillary data, including survey conditions, vegetation community descriptions, special-status species observations and/or their potential to occur, Riparian Zones and vernal pool depression observations, and other noteworthy remarks from each segment were recorded in a customized Wildnote data form on the surveyors' smart phone. Following the field surveys, analysis of the field data was performed by the biologists and GIS specialists to define, designate, and edit all vegetation maps and summary reports for each road segment, which are included in Attachment A of this report.

Representative photos of vegetation communities documented across the project are included in Attachment B.

4.0 RESULTS

This section is divided into sub-sections that describe the 35 vegetation communities/land cover types recorded throughout the project area, literature review results for special-status species, and high priority road segment details that describe the physical location/characteristics, environmental setting,

vegetation communities/land cover types, potential for and observation of special-status species, and observation of resource protection ordinance areas.

4.1 Vegetation Communities/Land Use Cover Types

Field survey efforts identified 35 different vegetation communities/land cover types within the Survey Area along the project's 29 road segments. These vegetation communities/land cover types are further discussed below. Additionally, results for each road segment are detailed in Section 4.3, with comprehensive survey data and associated vegetation maps found in Attachment A.

Agriculture

Agriculture consists of a variety of land use and dominant plant species, dependent on the type of agricultural use. These areas included actively grazed pastureland, plowed/tilled fields, vineyards and orchards, dairies, nurseries, and chicken ranches. Dependent on crop use, rotation and tilling regimes, this community may or may not be irrigated and/or artificially seeded with highly variable vegetative cover ranging from 0 – 100%. Vegetative cover in agricultural areas may also have significant seasonal variation as a result of frequent land use changes. This vegetation community was most frequently encountered in the Julian and Fallbrook regions of San Diego County.

Big Sagebrush Scrub

Big sagebrush scrub occurs at higher elevations [approximately 4,000 – 9,000 feet above mean sea level (amsl)] in the interior cismontane zones of San Diego County. This scrub community was structurally homogeneous with an average shrub density of 50 – 80% and an average shrub height of three to five feet. This community was heavily dominated by big sagebrush (*Artemisia tridentata*), with lesser dominant species that included California buckwheat (*Eriogonum fasciculatum*) and deerweed (*Acmispon glaber*). This vegetation community was only documented along Corte Madera Road near Pine Valley.

Black Oak Woodland

Black oak woodland is an open to dense, moderately tall woodland community restricted to montane regions of San Diego County (approximately 3000 – 7,000 feet amsl) such as Palomar Mountain and Julian. The canopy coverages ranged between 20-80%, and the average canopy height was 20 – 40 feet. This vegetation community was heavily dominated by mature California black oak (*Quercus kelloggii*) with less dominant native conifer and oak species intermixed and a generally sparse shrub-covered understory.

Chamise Chaparral

Chamise chaparral generally occurs along the foothill, cismontane and western transmontane regions of San Diego County, such as Potrero and Lake Henshaw. This brushland community was structurally homogenous and heavily dominated by chamise (*Adenostoma fasciculatum*) with other shrub species contributing minimal vegetation cover, such as scrub oak (*Quercus berberidifolia*), California buckwheat, cupleaf ceanothus (*Ceanothus perplexens*) and chaparral yucca (*Hesperoyucca*

whipplei). The average shrub height was between three and six feet, and the average shrub cover was 60 - 100%.

Coast Live Oak Woodland

Coast live oak woodland is an open to dense, moderately tall (40 – 60 feet) woodland community found throughout the majority of San Diego County. This vegetation community was heavily dominated by mature coast live oak (*Quercus agrifolia*) with a wide variety of understory species such as California buckwheat, toyon (*Heteromeles arbutifolia*), scrub oak, Ramona lilac (*Ceanothus tomentosus*), Mexican manzanita (*Arctostaphylos pungens*), young coast live oak and numerous species of non-native grasses. Sub-dominant understory species within this vegetation community were highly variable dependent on ecological factors such as elevation, slope aspect and direction, and rain fall. The canopy coverages generally ranged between 20-80%.

Coastal Sage - Chaparral Mix

Coastal sage – chaparral mix consists of a mixture of evergreen, woody chaparral shrub species and drought-deciduous, fleshy, sage scrub shrub species occurring throughout the coastal, foothill and lower cismontane regions of San Diego County. This vegetation community was co-dominated by several chaparral and coastal sage scrub species including California sagebrush (*Artemisia californica*), chamise, mission manzanita (*Xylococcus bicolor*), laurel sumac (*Malosma laurina*), California buckwheat, mountain mahogany (*Cercocarpus betuloides*), black sage (*Salvia mellifera*) and various Ceanothus species. Shrub height was variable, ranging between three and seven feet, with shrub cover varying from 40 – 90%.

Coulter Pine Forest

Coulter pine forest is a generally open, tall woodland community from 60 to 100 feet tall that is restricted to high elevation regions of San Diego County (4,000 – 6,500 feet amsl). This vegetation community consisted of a near-monoculture of Coulter pines (*Pinus coulteri*), with minimal understory development and sparsely scattered coast live oak trees. This vegetation community was only documented in one location along East Grade Road in the Palomar Mountain Region.

Diegan Coastal Sage Scrub

Diegan coastal sage scrub consists of a low-growing mixture of drought-deciduous, fleshy, sage scrub shrub species. This community occurs widely throughout the coastal, foothill and lower cismontane regions of San Diego County. This vegetation community was generally dominated by California sagebrush and California buckwheat with regionally variable, co-dominant black sage, deerweed, laurel sumac and white sage (*Salvia apiana*). In portions of the County, this community was heavily dominated by broom baccharis (*Baccharis sarothroides*). Shrub height was variable, averaging between two and five feet, with shrub cover varying widely from 30 – 80%. Non-native annual plant species were common within the shrub gaps of this community, typically dominating the gaps between the shrubs. This community was generally more common on western County Road sections.

Disturbed Habitat

Disturbed habitat occurs throughout San Diego County primarily as a result of anthropogenic disturbance. This community type includes areas that have been altered to such a large extent that the areas no longer support substantive native vegetation, yet generally retain their native soil substrates. Vegetation, when present, was dominated by non-native, ornamental and/or ruderal exotic plant species that specialize and thrive in disturbed soils. Areas classified as disturbed habitat included parking lots, trails, road shoulders, areas repeatedly cleared for fuel management, construction sites and graded areas. Commonly encountered plant species that were observed within this community included shortpod mustard (*Hirschfeldia incana*), red brome (*Bromus madritensis*), Russian tumbleweed (*Salsola tragus*), tocalote (*Centaurea melitensis*), African fountain grass (*Pennisetum setaceum*), wild oat (*Avena barbata*) and various ornamental species. In some areas, minimal native species were observed and generally restricted to sparse regrowth of species tolerant of repeated disturbance including telegraph weed (*Heterotheca grandiflora*), dove weed (*Croton setiger*), California buckwheat and deerweed.

Disturbed Wetland

Disturbed wetland occurs in low-lying watersheds across San Diego County primarily as a result of anthropogenic disturbance to areas permanently or periodically inundated by water. These areas were often unvegetated but occasionally contained scattered native or non-native vegetation typical of wet soils. Dominant plant species observed in this vegetation community included curly dock (*Rumex crispus*), wild radish (*Raphanus sativus*) and non-native grasses. This community was restricted to anthropogenically altered swales, riprap, lined channels and culverts with generally low-growing vegetation along the hydrological gradients. Though this community is heavily disturbed by human disturbance, it was classified as a Riparian Zone.

Engelmann Oak Woodland

Engelmann oak woodland is an open to moderately dense woodland community that is restricted to cismontane elevations below 4,000 feet amsl in San Diego County that receive relatively higher annual rainfall totals, such as Boulder Creek and Lawson Valley. This vegetation community was heavily dominated by Engelmann oak (*Quercus engelmannii*) with a variable co-dominance of coast live oak and scrub oak. The understory generally contained a few scattered shrub species among a dominance of non-native, annual grass species. The average canopy height was 30 – 60 feet, and the canopy coverage generally ranged between 20-80%.

Eucalyptus Woodland

Eucalyptus woodlands are widespread across the foothills and lower cismontane regions of San Diego County. Most eucalyptus woodlands are generally associated with sites historically planted with eucalyptus species used for shade trees, lumber and/or ornamental purposes, or are stands that have invaded areas that were formerly native vegetation communities. This community ranged from single-species thickets, with little or no shrubby understory, to tall, closed-canopy, woodlands with a heavily developed herbaceous and shrubby understory. This vegetation community was most commonly dominated by blue gum (*Eucalyptus globulus*) and red gum (*E. camaldulensis*), which are the most dominant eucalyptus tree species within San Diego County.

Flat-topped Buckwheat Scrub

Flat-topped buckwheat scrub is a structurally homogeneous, low-growing shrubland community commonly found in disturbed areas in the coastal and foothill areas of San Diego County. This community features a near monoculture of California buckwheat with other plant species contributing some additional vegetation coverage, such as deerweed, common sand aster (*Corethrogyne filaginifolia*) and non-native grasses.

Jeffrey Pine Forest

Jeffrey pine forest generally occurs at high elevations in San Diego County (6,500 – 9,000 feet amsl). This community is typically 70 – 100 feet tall, and is characterized as an open forest dominated by Jeffrey pine (*Pinus jeffreyi*) with a sparse shrubby understory. This vegetation community was only documented in one location along Pine Valley Road and is considered an outlier community within the region.

Mixed Oak Woodland

Mixed oak woodland is an open to closed canopy woodland community, which is moderately tall (30 – 60 feet), and is restricted to the montane regions of San Diego County, such as Palomar Mountain and Julian. This vegetation community was co-dominated by several oak species including canyon oak (*Quercus chrysolepis*), Engelmann oak, coast live oak and/or California black oak. The understory was variably covered by various shrub species that primarily included Mexican manzanita and scrub oak.

Mixed Oak/Coniferous/Bigcone/Coulter Forest

Mixed oak/coniferous/bigcone/Coulter forest is known to occur at higher elevations in the montane regions of San Diego County, primarily on Palomar Mountain. This community is a moderately dense, tall (50 – 100 feet) forest co-dominated by oak and conifer species. This community contained a variety of co-dominant conifer species including white fir (*Abies concolor*), bigcone spruce (*Pseudotsuga macrocarpa*), incense cedar (*Calocedrus decurrens*) and Coulter pine, as well as black oak, coast live oak, Engelmann oak and canyon oak. Generally, this community had a poorly developed shrub understory.

Montane Buckwheat Scrub

Montane buckwheat scrub is restricted to higher-elevation, montane regions of San Diego County, such as Palomar Mountain. This community often occurs in sandy soils in and around mountain meadows and is a low-growing shrubland community type, visually similar to flat-topped buckwheat scrub. The primary difference is that it occurs only at high elevations and is dominated by the interior variety of California buckwheat, as well as Wright's buckwheat (*E. wrightii*), which does not occur at lower elevations.

Montane Chaparral

Montane chaparral consists of a mixture of dense, nearly impenetrable, woody chaparral shrub species that are restricted to higher-elevation, cismontane and transmontane regions of San Diego County. This vegetation community had variable shrub species dominance, dependent on specific location, slope aspect and elevation, of primarily *Ceanothus* and *Arctostaphylos* species. The most common dominant species encountered within this community included Palmer lilac (*C. palmeri*), big berry manzanita (*A. glauca*), Mexican manzanita, chaparral whitethorn (*C. leucodermis*) and scrub oak, occasionally with scattered Engelmann oak and canyon oak. Shrub height was variable, ranging between six and twelve feet, with shrub cover greater than 80%.

Montane Meadow

Montane meadow consists of a mixture of low-growing sedge species (e.g., *Carex, Cyperus, Juncus, Scirpus, Eleocharis, etc.*) and other bulbiferous or perennial herb species associated with open valleys that are seasonally or permanently saturated with water. This community is restricted to montane regions of San Diego County, such as Descanso, Julian and Palomar Mountain. Dominant species encountered in this community included deergrass (*Muhlenbergia rigens*), Mexican rush (*Juncus mexicanus*) and clustered field sedge (*Carex praegracilis*). Non-native cover within this community was generally low. This community was classified as a Riparian Zone.

Mulefat Scrub

Mulefat scrub occurs in riparian areas throughout most of San Diego County but is absent from higher-elevation areas. This community is generally restricted to intermittent stream channels and along the margins of lakes and large rivers that encounter frequent flood disturbance. Mulefat scrub was heavily dominated by mulefat (*Baccharis salicifolia*) with less dominant arroyo willow (*Salix lasiolepis*) and understories dominated by Douglas mugwort (*Artemisia douglasiana*) and western ragweed (*Ambrosia psilostachya*). This vegetation community was classified as a Riparian Zone.

Non-native Grassland

Non-native grassland occurs throughout most of San Diego County, typically below elevations below 4,000 feet. Non-native grassland was observed within areas previously disturbed by fire or anthropogenically altered and included grazed, mowed and dry-farmed lands. Non-native grassland was comprised by dense to sparse cover of non-native annual grasses dominated by numerous species including red brome, ripgut brome (*Bromus diandrus*), red-stem filaree (*Erodium cicutarium*), shortpod mustard, African fountain grass, cheatgrass (*Bromus tectorum*) and wild oat. Some non-native grasslands included very isolated native species, tolerant of disturbance, such as telegraph weed, deerweed, California buckwheat and doveweed.

Non-Native Riparian

Non-native riparian communities are comprised of densely vegetated thickets dominated by at least 50% non-native, invasive species occurring most commonly along disturbed river and creek areas throughout San Diego County. This vegetation community was dominated by invasive riparian species such as giant reed (*Arundo donax*), castor bean (*Ricinus communis*), eucalyptus (*Eucalyptus* spp.), salt

cedar (*Tamarix ramosissima*), and sparse native species that included arroyo willow and western ragweed. This community was classified as a Riparian Zone.

Non-Vegetated Floodplain or Channel

Non-vegetated floodplain or channel communities occur on sandy, gravelly or rocky fringes of waterways or flood channels that occur throughout San Diego County. These communities generally remain unvegetated on a relatively permanent basis, though may contain some weedy species, with usually less than 10% cover. Where this community was observed, if vegetation was present, dominant species included various, low-growing, non-native grasses such as red brome. This community was classified as a Riparian Zone.

Northern Mixed Chaparral

Northern mixed chaparral consists of a mixture of dense, nearly impenetrable, woody chaparral shrub species that is restricted to the eastern cismontane and transmontane regions of San Diego County, such as Lake Henshaw, below 5,000 feet in elevation. This vegetation community exhibits variable shrub cover percentages dependent on specific location, slope aspect and elevation, and is primarily dominated by Ceanothus and Arctostaphylos species. The most common dominant species encountered within this community included scrub oak, chamise, hoary leaf ceanothus (*Ceanothus crassifolius*), cupleaf ceanothus, chaparral whitethorn and various manzanita species with scattered canyon and coast live oak trees. Shrub density in this community was heavily dependent on slope aspect, with the densest stands occurring on north-facing slopes and lower density stands occurring on south-facing slopes.

Scrub Oak Chaparral

Scrub oak chaparral is generally concentrated in foothill, cismontane, and transmontane regions of San Diego County. This community is structurally similar to northern mixed chaparral and forms dense brushlands that are nearly impenetrable. This community was heavily dominated by scrub oak species with other shrub species contributing less than 25% cover, including mountain mahogany, chamise, laurel sumac, California buckwheat and various manzanita species.

Southern Arroyo Willow Riparian Forest

Southern arroyo willow riparian forest is a winter-deciduous riparian forest community that is restricted to perennially wet riparian zones along creeks, streams, rivers and lakes within San Diego County. This community consisted of young and mature riparian tree species, heavily dominated by arroyo willow, with closed, or nearly closed canopies from 30 to 60 feet tall and a moderately thick understory. Other sub-dominant tree and shrub species within this community included Goodding's black willow (*Salix gooddingii*), red willow (*Salix laevigata*) and mulefat. Tree canopy coverage was generally between 60 and 100%. The herbaceous understory layer was often dominated by a mixture of native and non-native species, such as poison hemlock (*Conium maculatum*) and western ragweed. This community was classified as a Riparian Zone.

Southern Coast Live Oak Riparian Forest

Dense riparian forests dominated by evergreen species with a closed or nearly closed canopies (40 – 60 feet tall) that occur along floodplains and drainages along streams. Where identified, this community was dominated by coast live oak with sub-dominant western sycamore (*Platanus racemosa*), arroyo willow, black willow, red willow, and understory species such as Southern California wild grape (*Vitis girdiana*), poison oak (*Toxicodendron diversilobum*), and California wild rose (*Rosa californica*). Tree canopy coverage was generally between 60 and 100%. This community was classified as a Riparian Zone.

Southern Cottonwood-Willow Riparian Forest

Southern cottonwood-willow riparian forest is a tall, open, broadleaved winter-deciduous riparian forest community that occurs along perennially wet stream courses throughout San Diego County. This community was most often dominated by Fremont cottonwood (*Populus fremontii*), western sycamore, red willow, arroyo willow and/or Goodding's black willow, with understories dominated by native species such as wild grape (*Vitis girdiniana*) and mulefat. Tree canopy coverage was generally between 60 and 100%, and average heights typically exceeded 40 feet. This community was classified as a Riparian Zone.

Southern Mixed Chaparral

Southern mixed chaparral is visually and structurally similar to northern mixed chaparral, though with lower overall vegetation density and average height. This dense, woody brushland community occurs throughout the coastal foothills and cismontane regions of San Diego County. This vegetation community had variably dominant shrub species, dependent on specific location, slope aspect and elevation. The most frequently encountered dominant shrub species within this community included Ramona lilac, cup-leaf ceanothus (*Ceanothus perplexans*), laurel sumac, mountain mahogany, chamise, scrub oak, mission manzanita and sugarbush (*Rhus ovata*).

Southern Riparian Forest

Southern riparian forest is a medium to tall broadleaved riparian forest community with a closed or nearly closed canopy that may have a sparse or dense understory. This community cannot be further differentiated into southern coast live oak riparian forest, arroyo willow forest, or southern cottonwood-willow riparian forest due to a lack of characteristic dominant tree species. This community is restricted to streams, rivers and lake edges and occurs within the foothills and cismontane regions of San Diego County. This community was most often dominated by Fremont cottonwood, western sycamore, coast live oak, arroyo willow and/or mulefat. This community was classified as a Riparian Zone.

Southern Riparian Scrub

Southern riparian scrub consists of relatively low-growing riparian thickets dominated by small trees or shrubs that generally lack mature riparian trees and cannot be further differentiated into mulefat scrub or southern willow scrub due to a lack of characteristic dominant species. This community occurs primarily along major river systems where flood scouring occurs. Commonly encountered dominant

species in this community included immature Fremont cottonwood, western sycamore, coast live oak, arroyo willow and/or mulefat. This community was classified as a Riparian Zone.

Southern Riparian Woodland

Southern riparian woodland is a moderate-density riparian woodland community dominated by small trees and shrubs, with occasional scattered, taller riparian trees. This community is similar to other riparian forest communities, though it is generally less dense, lacking a closed canopy, and is not dominated by tall trees. This community occurs along major river systems and smaller tributaries and is found throughout San Diego County. Dominant species encountered in this community included Fremont cottonwood, western sycamore, mulefat and Goodding's black willow, with understory plant species such as poison oak. This community was classified as a Riparian Zone.

Southern Willow Scrub

Southern willow scrub consists of moderately tall, dense, broad-leafed, winter-deciduous riparian thickets that occur along frequently scoured river and stream systems of San Diego County without mature riparian trees. This community typically had a dense canopy and mid-story, precluding understory development. Dominant species encountered included arroyo willow, red willow, mulefat and black elderberry (*Sambucus nigra*), occasionally with dominant non-native understory species such as castor bean and poison hemlock. This community was classified as a Riparian Zone.

Urban/Developed

Urban/developed communities occur throughout San Diego County as a result of anthropogenic disturbances. This community includes areas that have been developed through construction activities or were otherwise physically altered to an extent that native vegetation is no longer present. Examples include buildings, paved roads, parking lots, permanent structures, landscaped areas, and areas where natural vegetation communities are no longer evident. This community included areas that were unvegetated or vegetated with ornamental plantings and occasionally contained relict natives retained for ornamental purposes, such as native coast live oak and pine trees.

Wildflower Field

Wildflower fields are generally restricted to elevations between 4,000 – 5,000 feet within San Diego County and consists of a variety of mostly low-growing, native herb species with dominant species varying considerably by region. This community was only identified in one location along Engineers Road and was dominated California wild rose, golden yarrow (*Eriophyllum confertiflorum*) and snowberry (*Symphoricarpos albus*).

4.2 Special-Status Species

A total of 12 special-status plant species and 13 special-status wildlife species occurrences requiring analysis for this project were found within five miles of project areas through the CNDDB review. These include the following:

Plants

- Cuyamaca lake downingia (*Downingia concolor* var. *brevior*; SE)
- Del Mar manzanita (*Arctostaphylos glandulosa* ssp. *crassifolia*; FE)
- Dehesa nolina (*Nolina interrata*; FE)
- Encinitas baccharis (*Baccharis vanessae*; FE, SE)
- Nevin's barberry (*Berberis nevinii*; FE, SE)
- Parish's meadowfoam (*Limnanthes alba* ssp. *parishii*; SE)
- San Bernardino bluegrass (*Poa atropurpurea*; FE)
- San Diego ambrosia (*Ambrosia pumila*; FE)
- San Diego button celery (*Eryngium aristulatum* var. *parishii*; FE, SE)
- San Diego thorn mint (*Acanthomintha ilicifolia*; FE, SE)
- spreading navarretia (*Navarretia fossalis*; FT)
- thread-leaved brodiaea (*Brodiaea filifolia*; FE, SE)

Wildlife

- arroyo toad (*Anaxyrus californicus*; FE)
- California black rail (*Laterallus jamaicensis coturniculus*; ST)
- coastal California gnatcatcher (*Polioptila californica californica*; FT)
- Hermes copper butterfly (*Lycaena hermes*; FT)
- Laguna Mountains skipper (*Pyrgus ruralis lagunae*; FE)
- least Bell's vireo (*Vireo bellii pusillus*; FE, SE)
- Quino checkerspot butterfly (*Euphydras editha quino*; FE)
- San Diego fairy shrimp (*Branchinecta sandiegonensis*; FE)
- Southwestern willow flycatcher (*Empidonax traillii extimus*; FE, SE)
- Stephens' kangaroo rat (*Dipodomys stephensi*; FE, ST)
- Swainson's hawk (*Buteo swainsoni*; ST)
- tricolored blackbird (*Agelaius tricolor*; ST)
- western yellow-billed cuckoo (*Coccyzus americanus occidentalis*; FT, SE)

The results of the literature review were utilized during the field surveys conducted for this project to ascertain presence/absence and potentials for occurrence of each of these species. Although numerous special-status species were identified as having potential to occur, only one: coastal California gnatcatcher was observed during the surveys. Results for each road segment are detailed in Section 4.3, with comprehensive survey data and associated maps found in Attachment A.

4.3 High Priority County Roads

Old Castle Road – Lilac Road to Old Highway 395

This 5.47-mile stretch of east-west running road is situated in north-central San Diego County, immediately east of Interstate 15, in the unincorporated community of Valley Center. Nine distinct vegetation communities were mapped within the Survey Area along this route including Agriculture,

Coast Live Oak Woodland, Eucalyptus Woodland, Coastal Sage-Chaparral Mix, Diegan Coastal Sage Scrub, Disturbed Habitat, Southern Coast Live Oak Riparian Forest, Southern Cottonwood-Willow Riparian Forest, Southern Mixed Chaparral, and Urban/Developed. Riparian zones consisting of Southern Coast Live Oak Riparian Forest and Southern Cottonwood-Willow Riparian Forest were mapped for avoidance. The literature review for this road segment yielded two special-status species with potential to occur including least Bell's vireo and coastal California gnatcatcher. Field surveys determined that both species have potential to occur in respective areas of the Coastal Sage-Chaparral Mix, Diegan Coastal Sage Scrub, Southern Coast Live Oak Riparian Forest, and Southern Cottonwood-Willow Riparian Forest habitats mapped within the Survey Area. No special-status species were observed or detected during the survey.

Cole Grade Road – Valley Center Road to Highway 76

This 7.8-mile stretch of north-south running road is situated in north-central San Diego County, immediately northeast of Highway 76, in the unincorporated community of Valley Center. Twelve distinct vegetation communities were mapped within the Survey Area along this route including Agriculture, Chamise Chaparral, Coast Live Oak Woodland, Coastal Sage-Chaparral Mix, Disturbed Habitat, Diegan Coastal Sage Scrub, Eucalyptus Woodland, Flat-topped Buckwheat Scrub, Mulefat Scrub, Southern Coast Live Oak Riparian Forest, Southern Mixed Chaparral, and Urban Developed. Riparian zones consisting of Mule Fat Scrub and Southern Coast Live Oak Riparian Forest habitats were mapped for avoidance. The literature review for this road segment yielded four special-status species with potential to occur including arroyo toad, Swainson's hawk, coastal California gnatcatcher, and least Bell's vireo. Field surveys determined that only coastal California gnatcatcher has potential to occur in the Diegan Coastal Sage Scrub and Flat-topped Buckwheat Scrub habitats of the Survey Area. No special-status species were observed or detected during the survey.

Engineers Road – Boulder Creek Road to Highway 79

This 5.8-mile stretch of east-west running road is situated in north-east San Diego County, immediately north-northwest of Highway 79, in the unincorporated community of Julian. Ten distinct vegetation communities were mapped within the Survey Area along this route including Black Oak Woodland, Coast Live Oak Woodland, Disturbed Habitat, Montane Buckwheat Scrub, Mixed Oak/Coniferous/Bigcone/Coulter Forest, Montane Chaparral, Non-Native Grassland, Southern Coast Live Oak Riparian Forest, Urban/Developed, and Wildflower Field. Southern Coast Live Oak Riparian Forest was the only riparian zone mapped for avoidance. The literature review for this road segment yielded four special-status species with potential to occur including arroyo toad, Cuyamaca Lake downingia, Parish's meadowfoam, and San Bernardino blue grass. None of these species have potential to occur within the Survey Area. No special-status species were observed or detected during the survey.

Boulder Creek Road – Oak Grove Drive to Engineers Road

This 18-mile stretch of north-south running road is situated in east San Diego County, approximately two miles north of Interstate 8, in the unincorporated community of Julian. Eighteen distinct vegetation communities were mapped within the Survey Area along this route including Agriculture, Chamise Chaparral, Coast Live Oak Woodland, Diegan Coastal Sage Scrub, Disturbed Habitat, Engelmann Oak Woodland, Mixed Oak Woodland, Mixed Oak/Coniferous/Bigcone/Coulter Forest, Montane Buckwheat Scrub, Montane Chaparral, Mulefat Scrub, Non-Native Grassland, Non-Vegetated

Floodplain or Channel, Scrub Oak Chaparral, Southern Coast Live Oak Riparian Forest, Southern Mixed Chaparral, Southern Riparian Forest, and Urban/Developed. Riparian zones consisting of Non-Vegetated Floodplain or Channel, Southern Coast Live Oak Riparian Forest, and Southern Riparian Forest habitats were mapped for avoidance. The literature review for this road segment yielded five special-status species with potential to occur including arroyo toad, Cuyamaca Lake downingia, Parish's meadowfoam, least Bell's vireo, and San Bernardino blue grass. Field surveys determined that only least Bell's vireo has potential to occur in the riparian habitats within the Survey Area. No special-status species were observed or detected during the survey.

Boulder Creek Road – Engineers Road to Eagle Peak Road

This 3.2-mile stretch of north-south running road is situated in north-northeast San Diego County, approximately two miles south of Highway 78, in the unincorporated community of Julian. Thirteen distinct vegetation communities were mapped within the Survey Area along this route including Chamise Chaparral, Coast Live Oak Woodland, Disturbed Habitat, Engelmann Oak Woodland, Mixed Oak/Coniferous/Bigcone/Coulter Forest, Mixed Oak Woodland, Montane Buckwheat Scrub, Montane Chaparral, Native Grassland, Scrub Oak Chaparral, Southern Riparian Woodland, Southern Coast Live Oak Riparian Forest, and Urban/Developed. Riparian zones consisting of Southern Coast Live Oak Riparian Forest and Southern Riparian Woodland habitats were mapped for avoidance. The literature review for this road segment yielded five special-status species with potential to occur including arroyo toad, Cuyamaca Lake downingia, San Diego button-celery, Parish's meadowfoam, and San Bernardino blue grass. Field surveys determined that none of these species had potential to occur within the Survey Area. No special-status species were observed or detected during the survey.

Barrett Lake Road – Highway 94 to End of County Maintained Road

This 2.4-mile stretch of north-south running road is situated in south-southeast San Diego County, immediately north-northeast of Highway 94, in the unincorporated community of Dulzura. Seven distinct vegetation communities were mapped within the Survey Area along this route including Agriculture, Disturbed Habitat, Coast Live Oak Woodland, Diegan Coastal Sage Scrub, Southern Coast Live Oak Riparian Forest, Southern Cottonwood-Willow Riparian Forest, and Urban/Developed. Riparian zones consisting of Southern Coast Live Oak Riparian Forest and Southern Cottonwood-Willow Riparian Forest were mapped for avoidance. The literature review for this road segment yielded six special-status species with potential to occur including Quino checkerspot butterfly, arroyo toad, least Bell's vireo, tricolored blackbird, San Diego fairy shrimp, and San Diego thorn-mint. Field Surveys determined that of these species, only arroyo toad, Quino checkerspot butterfly, and least Bell's vireo have potential to occur in respective areas of the Diegan Coastal Sage Scrub and riparian habitats mapped within the Survey Area. No special-status species were observed or detected during the survey.

Old Highway 395 – Camino Del Rey to Riverside County Line

This 12.8-mile stretch of north-south running road is situated in north San Diego County, paralleling Interstate 15, in the unincorporated community of Pala Mesa. Fourteen distinct vegetation communities were mapped within the Survey Area along this route including Coastal Sage-Chaparral Mix, Coast Live Oak Woodland, Diegan Coastal Sage Scrub, Disturbed Habitat, Eucalyptus Woodland, Mulefat Scrub, Non-Native Riparian, Scrub Oak Chaparral, Southern Arroyo Willow Riparian Forest, Southern Coast Live Oak Riparian Forest, Southern Cottonwood-Willow Riparian Forest, Southern Mixed Chaparral, Southern Willow Scrub, and Urban/Developed. Riparian zones consisting of Non-Native

Riparian, Mulefat Scrub, Southern Arroyo Willow Riparian Forest, Southern Willow Scrub, Southern Cottonwood-Willow Riparian Forest, and Southern Coast Live Oak Riparian Forest were mapped for avoidance. The literature review for this road segment yielded nine special-status species with potential to occur including tricolored blackbird, San Diego ambrosia, arroyo toad, Swainson's hawk, western yellow-billed cuckoo, Stephens' kangaroo rat, least Bell's vireo, coastal California gnatcatcher, and southwestern willow flycatcher. Field surveys determined that of these species, only coastal California gnatcatcher, least Bell's vireo, western yellow-billed cuckoo, and southwestern willow flycatcher have potential to occur in respective areas of the Coastal Sage-Chaparral Mix, Diegan Coastal Sage Scrub, and riparian habitats mapped within the Survey Area. No special-status species were observed or detected during the survey.

Camino Del Rey – Olive Hill Road to Old Highway 395

This 4.9-mile stretch of east-west running road is situated in north San Diego County, west of Interstate 15, in the unincorporated community of Bonsall. Eleven distinct vegetation communities were mapped within the Survey Area along this route including Coast Live Oak Woodland, Coastal Sage-Chaparral Mix, Diegan Coastal Sage Scrub, Disturbed Habitat, Eucalyptus Woodland, Non-Native Riparian, Southern Arroyo Willow Riparian Forest, Southern Coast Live Oak Riparian Forest, Southern Cottonwood-Willow Riparian Forest, Southern Willow Scrub, and Urban/Developed. Riparian zones consisting of Southern Arroyo Willow Riparian Forest, Southern Coast Live Oak Riparian Forest, Southern Cottonwood-Willow Riparian Forest, Non-Native Riparian, and Southern Willow Scrub were mapped for avoidance. The literature review for this road segment yielded nine special-status species with potential to occur including San Diego thorn-mint, San Diego ambrosia, arroyo toad, Swainson's hawk, western yellow-billed cuckoo, Stephens' kangaroo rat, least Bell's vireo, coastal California gnatcatcher, and southwestern willow flycatcher. Of these species, only least Bell's vireo, coastal California gnatcatcher, and southwestern willow flycatcher have potential to occur in respective areas of the Coastal Sage-Chaparral Mix, Diegan Coastal Sage Scrub, Southern Arroyo Willow Riparian Forest, Southern Coast Live Oak Riparian Forest, Southern Cottonwood-Willow Riparian Forest, and Southern Willow Scrub habitats mapped within the Survey Area. A coastal California gnatcatcher was observed within Diegan Coastal Sage Scrub at the west end of the Survey Area near the intersection of Camino del Rey and Interstate 15.

Harris Ranch Road – Highway 94 to End of Road

This 2.1-mile stretch of north-south running road is situated in south-southeast San Diego County, immediately north of Highway 94, in the unincorporated community of Potrero. Eight distinct vegetation communities were mapped within the Survey Area along this route including Coastal Sage-Chaparral Mix, Diegan Coastal Sage Scrub, Chamise Chaparral, Disturbed Habitat, Flat-Topped Buckwheat Scrub, Non-Native Grassland, Scrub Oak Chaparral, and Southern Mixed Chaparral. No riparian zones were mapped in this segment. The literature review for this road segment yielded five special-status species with potential to occur including Quino checkerspot butterfly, arroyo toad, least Bell's vireo, tricolored blackbird, and San Diego thorn-mint. Of these species, only Quino checkerspot butterfly has potential to occur in the Coastal Sage-Chaparral Mix and Flat-Topped Buckwheat Scrub habitats mapped within the Survey Area. Suitable habitat for one additional special-status species, Hermes copper butterfly, was identified during the field survey. No special-status species were observed or detected during the survey.

Corte Madera Road – Old Highway 80 to End of County Maintained Road

This 0.8-mile stretch of north-south running road is situated in east San Diego County, immediately west-southwest of Old Highway 80, in the unincorporated community of Pine Valley. Seven distinct vegetation communities were mapped within the Survey Area along this route including Big Sagebrush Scrub, Coast Live Oak Woodland, Disturbed Habitat, Jefferey Pine Forest, Mixed Oak/Coniferous/Bigcone/Coulter Forest, Southern Mixed Chaparral, and Urban/Developed. No riparian zones were mapped in this segment. The literature review for this road segment yielded five special-status species with potential to occur including arroyo toad, Parish's meadowfoam, Hermes copper butterfly, San Bernardino blue grass, and least Bell's vireo. None of these species have potential to occur within the Survey Area. No special-status species were observed or detected during the survey.

Cougar Pass Road – North Broadway to End of County Maintained Road

This 2-mile stretch of north-south running road is situated in north-central San Diego County, approximately two miles northeast of Interstate 15, in the community of Escondido. Ten distinct vegetation communities were mapped within the Survey Area along this route including Coast Live Oak Woodland, Coastal Sage-Chaparral Mix, Diegan Coastal Sage Scrub, Disturbed Habitat, Non-Vegetated Floodplain or Channel, Scrub Oak Chaparral, Southern Coast Live Oak Riparian Forest, Southern Mixed Chaparral, Southern Riparian Scrub, and Urban/Developed. Riparian zones consisting of Southern Coast Live Oak Riparian Forest, Non-Vegetated Floodplain or Channel, and Southern Riparian Scrub were mapped for avoidance. The literature review for this road segment yielded six special-status species with potential to occur including San Diego button-celery, spreading navarretia, San Diego thorn-mint, tricolored blackbird, coastal California gnatcatcher, and least Bell's vireo. Field surveys determined that of these species, only coastal California gnatcatcher and least Bell's vireo have potential to occur in respective areas of Coastal Sage-Chaparral Mix, Diegan Coastal Sage Scrub, Southern Riparian Scrub, and Southern Coast Live Oak Riparian Forest habitats mapped within the Survey Area. No special-status species were observed or detected during the survey.

Deer Springs Road – Champagne Boulevard/Old Highway 395 to San Marcos City Limit

This 2.2-mile stretch of east-west running road is situated in north-central San Diego County, immediately west of Interstate 15, in the community of San Marcos. Eleven distinct vegetation communities were mapped within the Survey Area along this route including Agriculture, Coast Live Oak Woodland, Coastal Sage-Chaparral Mix, Disturbed Habitat, Coastal Sage-Chaparral Mix, Non-Native Riparian, Non-Vegetated Floodplain or Channel, Scrub Oak Chaparral, Southern Coast Live Oak Riparian Forest, Southern Mixed Chaparral, Disturbed Wetland, and Urban/Developed. Riparian zones consisting of Disturbed Wetland, Southern Coast Live Oak Riparian Forest, Non-Native Riparian, and Non-Vegetated Floodplain or Channel were mapped for avoidance. The literature review for this road segment yielded nine special-status species with potential to occur including San Diego thorn-mint, tricolored blackbird, Del Mar manzanita, San Diego fairy shrimp, thread-leaved brodiaea, San Diego button celery, spreading navarretia, coastal California gnatcatcher, and least Bell's vireo. Field surveys determined that none of these species have potential to occur within the Survey Area. No special-status species were observed or detected during the survey.

Dehesa Road – Harbison Canyon Road to Japatul Road

This 4.8-mile stretch of east-west running road is situated in east San Diego County, approximately two miles south of Interstate 8, in the unincorporated community of Alpine. Nine distinct vegetation communities were mapped within the Survey Area along this route including Coast Live Oak Woodland, Coastal Sage-Chaparral Mix, Diegan Coastal Sage Scrub, Diegan Coastal Sage Scrub (*Baccharis* dominated), Disturbed Habitat, Mulefat Scrub, Non-Native Riparian, Southern Coast Live Oak Riparian Forest, and Urban/Developed. Riparian zones consisting of Mulefat Scrub, Non-Native Riparian, and Southern Coast Live Oak Riparian Forest were mapped for avoidance. The literature review for this road segment yielded nine special-status species with potential to occur including Swainson's hawk, Quino checkerspot butterfly, Hermes copper butterfly, coastal California gnatcatcher, least Bell's vireo, arroyo toad, Dehesa nolina, San Diego thorn-mint, and Encinitas baccharis. Field surveys determined that of these species, only Quino checkerspot butterfly, coastal California gnatcatcher, least Bell's vireo, Dehesa nolina, and San Diego thorn-mint have potential to occur within respective areas of the Coastal Sage-Chaparral Mix, Diegan Coastal Sage Scrub, Mulefat Scrub, and Southern Coast Live Oak Riparian Forest habitats mapped within the Survey Area. No special-status species were observed or detected during the survey.

Dehesa Road – Willow Glenn Road to Harbison Canyon Road

This 3.2-mile stretch of east-west running road is situated in east San Diego County, approximately two miles southeast of Interstate 8, in the community of El Cajon. Five distinct vegetation communities were mapped within the Survey Area along this route including Diegan Coastal Sage Scrub, Disturbed Habitat, Diegan Coastal Sage Scrub (*Baccharis* dominated), Eucalyptus Woodland, and Urban/Developed. No riparian zones were mapped in this segment. The literature review for this road segment yielded nine special-status species with the potential to occur including arroyo toad, coastal California gnatcatcher, Swainson's hawk, least Bell's vireo, Quino checkerspot butterfly, Hermes copper butterfly, San Diego thorn-mint, Encinitas Baccharis, and Dehesa nolina. Of these species, only coastal California gnatcatcher, Dehesa nolina, and San Diego thorn-mint have potential to occur within the Diegan Coastal Sage Scrub habitat mapped within the Survey Area. No special-status species were observed or detected during the survey.

East Grade Road/County Route S7 – South Grade Road to Highway 76

This 11.3-mile stretch of east-west running road is situated in north-central San Diego County, immediately north-northwest of Highway 76, on Palomar Mountain. Fourteen distinct vegetation communities were mapped within the Survey Area along this route including Coast Live Oak Woodland, Coulter Pine Forest, Disturbed Habitat, Flat-Topped Buckwheat Scrub, Mixed Oak/Coniferous/Bigcone/Coulter Forest, Mixed Oak Woodland, Montane Buckwheat Scrub, Montane Chaparral, Non-Native Grassland, Non-Vegetated Floodplain or Channel, Northern Mixed Chaparral, Southern Coast Live Oak Riparian Forest, Southern Riparian Scrub, and Urban/Developed. Riparian zones consisting of Southern Coast Live Oak Riparian Forest, Non-Vegetated Floodplain or Channel, and Southern Riparian Scrub were mapped for avoidance. The literature review for this road segment yielded seven special-status species with potential to occur including least Bell's vireo, southwestern willow flycatcher, arroyo toad, Laguna Mountains skipper, Stephen's kangaroo rat, Nevin's barberry, and San Bernardino blue grass. Field surveys determined that of these species, least Bell's vireo, southwestern willow flycatcher, Laguna Mountains skipper, and Nevin's barberry have potential to occur within respective areas of the Coulter Pine Forest, Mixed Oak/Coniferous/Bigcone/Coulter

Forest, Montane Chapparal, Northern Mixed Chaparral, Southern Coast Live Oak Riparian, and Southern Riparian Scrub habitats mapped within the Survey Area. No special-status species were observed or detected during the survey.

Emery Road – Humphries/Thing Road to Highway 94

This 2-mile stretch of north-south running road is situated in south-central San Diego County, immediately south of Highway 94, in the unincorporated community of Tecate. Ten distinct vegetation communities were mapped within the Survey Area along this route including Chamise Chaparral, Coastal Sage-Chaparral Mix, Diegan Coastal Sage Scrub, Disturbed Habitat, Eucalyptus Woodland, Flat-Topped Buckwheat Scrub, Non-Native Riparian, Southern Coast Live Oak Riparian Forest, Southern Mixed Chaparral, and Urban/Developed. Southern Coast Live Oak Riparian Forest was the only riparian zone mapped in this segment. The literature review for this road segment yielded five special-status species with potential to occur including arroyo toad, Quino checkerspot butterfly, least Bell's vireo, tricolored blackbird, and San Diego thorn-mint. Field surveys determined that of these species, only Quino checkerspot butterfly, least Bell's vireo, and San Diego thorn-mint have potential to occur within respective areas of the Coastal Sage-Chaparral Mix, Diegan Coastal Sage Scrub, Flat-Topped Buckwheat Scrub, and Southern Coast Live Oak Riparian Forest habitats mapped within the Survey Area. The field survey identified potential for one additional special-status species, Hermes copper butterfly, to occur within the Southern Mixed Chapparal habitat mapped within the Survey Area. No special-status species were observed or detected during the survey.

Farmer Road – Main Street to End of County Maintained Road

This 2.7-mile stretch of north-south running road is situated in northeast San Diego County, approximately one quarter mile northwest of Highway 78/Highway 79, in the unincorporated community of Julian. Seven distinct vegetation communities were mapped within the Survey Area along this route including Agriculture, Disturbed Wetland, Mixed Oak/Coniferous/Bigcone/Coulter Forest, Montane Buckwheat Scrub, Montane Meadow, Non-Native Grassland, and Urban/Developed. Riparian zones consisting of Disturbed Wetland and Montane Meadow were mapped for avoidance. The literature review for this road segment yielded two special-status species with potential to occur including arroyo toad and Parish's meadowfoam. Field surveys determined that of these species, only Parish's meadowfoam has potential to occur within the Montane Meadow habitat mapped within the Survey Area. No special-status species were observed or detected during the survey.

Lawson Valley Road – Lyons Valley Road to Rudnick Road

This 5.2-mile stretch of east-west running road is situated in east San Diego County, approximately three miles northeast of Highway 94, in the unincorporated community of Jamul. Eleven distinct vegetation communities were mapped within the Survey Area along this route including Coast Live Oak Woodland, Coastal Sage-Chaparral Mix, Diegan Coastal Sage Scrub, Disturbed Habitat, Eucalyptus Woodland, Engelmann Oak Woodland, Flat-Topped Buckwheat Scrub, Scrub Oak Chaparral, Southern Coast Live Oak Riparian Forest, Southern Mixed Chaparral, and Urban/Developed. Southern Coast Live Oak Riparian Forest was the only riparian zone mapped in this segment. The literature review for this road segment yielded eight special-status species with potential to occur including arroyo toad, Quino checkerspot butterfly, Hermes copper butterfly, Swainson's hawk, coastal California gnatcatcher, least Bell's vireo, Dehesa nolina, and San Diego thorn-mint. Of these species, only Quino checkerspot butterfly, Hermes copper butterfly, coastal California gnatcatcher, least Bell's vireo, Dehesa nolina,

and San Diego thorn-mint have potential to occur within respective areas of the Coastal Sage-Chaparral, Diegan Coastal Sage Scrub, Flat-Topped Buckwheat Scrub, Southern Coast Live Oak Riparian Forest, and Southern Mixed Chaparral habitats mapped within the Survey Area. No special-status species were observed or detected during the survey.

Mountain View Road – Frances Drive to La Cresta Road/La Cresta Boulevard

This 2.8-mile stretch of east-west running road is situated in east San Diego County, approximately two miles south of Interstate 8, in the community of El Cajon. Six distinct vegetation communities were mapped within the Survey Area along this route including Coast Live Oak Woodland, Coastal Sage-Chaparral Mix, Diegan Coastal Sage Scrub, Disturbed Habitat, Southern Mixed Chaparral, and Urban/Developed. No riparian zones were mapped in this segment. The literature review for this road segment yielded 10 special-status species with potential to occur including Quino checkerspot butterfly, coastal California gnatcatcher, San Diego thorn-mint, tricolored blackbird, San Diego ambroisa, arroyo toad, Encinitas baccharis, Hermes copper butterfly, Dehesa nolina, and least Bell's vireo. Of these species, only coastal California gnatcatcher and Quino checkerspot butterfly have potential to occur within respective areas of the Coastal Sage-Chaparral Mix, Diegan Coastal Sage Scrub, and Southern Mixed Chaparral habitats mapped within the Survey Area. No special-status species were observed or detected during the survey.

North Centre City Parkway – Nutmeg Street to Mountain Meadow

This 2.5-mile stretch of north-south running road is situated in north-central San Diego County, immediately east of Interstate 15, in the community of Escondido. Six distinct vegetation communities were mapped within the Survey Area along this route including Coast Live Oak Woodland, Coastal Sage-Chaparral Mix, Diegan Coastal Sage Scrub, Disturbed Habitat, Southern Mixed Chaparral, and Urban/Developed. No riparian zones were mapped in this segment. The literature review for this road segment yielded 11 special-status species with potential to occur including tricolored blackbird, Swainson's hawk, western yellow-billed cuckoo, California black rail, coastal California gnatcatcher, least Bell's vireo, San Diego thorn-mint, Del Mar manzanita, thread-leaved brodiaea, San Diego button-celery, and spreading navarretia. None of these species have potential to occur within the Survey Area. No special-status species were observed or detected during the survey.

North Lake Wohlford Road – Valley Center Road to Lake Wohlford Road/Guejito Road

This 3.3-mile stretch of north-south running road is situated in east San Diego County, approximately four miles southwest of Highway 76, in the unincorporated community of Valley Center. Nine distinct vegetation communities were mapped within the Survey Area along this route including Chamise Chaparral, Coast Live Oak Woodland, Coastal Sage-Chaparral Mix, Diegan Coastal Sage Scrub, Disturbed Habitat, Mulefat Scrub, Southern Coast Live Oak Riparian Forest, Southern Mixed Chaparral, and Urban/Developed. Riparian zones consisting of Mulefat Scrub and Southern Coast Live Oak Riparian Forest were mapped for avoidance. The literature review for this road segment yielded five special-status species with the potential to occur including arroyo toad, Swainson's hawk, Stephens' kangaroo rat, coastal California gnatcatcher, and least Bell's vireo. None of these species have potential to occur within the Survey Area. No special-status species were observed or detected during the survey.

Pine Hills Road – Highway 78/Highway 79 to End of County Maintained Road

This 2.9-mile stretch of north-south running road is situated in northeast San Diego County, immediately south of Highway 78/79, in the unincorporated community of Julian. Eleven distinct vegetation communities were mapped within the Survey Area along this route including Agriculture, Coast Live Oak Woodland, Disturbed Habitat, Disturbed Wetland, Mixed Oak/Coniferous/Bigcone/Coulter Forest, Mixed Oak Woodland, Montane Buckwheat Scrub, Montane Meadow, Non-Native Grassland, Southern Coast Live Oak Riparian Forest, and Urban/Developed. Riparian zones consisting of Disturbed Wetland, Montane Meadow, and Southern Coast Live Oak Riparian Forest were mapped for avoidance. The literature review for this road segment yielded five special-status species with potential to occur including arroyo toad, Cuyamaca Lake downingia, San Diego button celery, Parish's meadowfoam, and San Diego blue grass. Of these species, Cuyamaca Lake downingia, San Diego button celery, Parish's meadowfoam, and San Bernardino blue grass have potential to occur within the Montane Meadow habitat mapped within the Survey Area. No special-status species were observed or detected during the survey.

Pine Valley Road - Old Highway 80 to Interstate 8 West-Bound Ramp/End of County Maintained Road

This 0.26-mile stretch of north-south running road is situated in east San Diego County, immediately north of Interstate 8, in the unincorporated community of Pine Valley. Five distinct vegetation communities were mapped within the Survey Area along this route including Coast Live Oak Woodland, Disturbed Habitat, Mixed Oak/Coniferous/Bigcone/Coulter Forest, Southern Mixed Chaparral, and Urban/Developed. No riparian zones were mapped in this segment. The literature review for this road segment yielded five special-status species with potential to occur including arroyo toad, Hermes copper butterfly, least Bell's vireo, Parish's meadowfoam, and San Bernardino blue grass. None of these species have potential to occur within the Survey Area. No special-status species were observed or detected during the survey.

Potrero Valley Road – Highway 94 to End of County Maintained Road

This 3.8-mile stretch of north-south and east-west running road is situated in south-central San Diego County, immediately north of Highway 94, in the unincorporated community of Potrero. Twelve distinct vegetation communities were mapped within the Survey Area along this route including Chamise Chaparral, Coast Live Oak Woodland, Disturbed Habitat, Eucalyptus Woodland, Flat-Topped Buckwheat Scrub, Mixed Oak Woodland, Mulefat Scrub, Non-Native Grassland, Southern Mixed Chaparral, Southern Riparian Forest, Southern Riparian Woodland, and Urban/Developed. Riparian zones consisting of Mulefat Scrub, Southern Riparian Woodland, and Southern Riparian Forest were mapped for avoidance. The literature review for this road segment yielded five special-status species with potential to occur including tricolored blackbird, arroyo toad, Quino checkerspot butterfly, least Bell's vireo, and San Diego thorn-mint. Of these species, only arroyo toad, Quino checkerspot butterfly, and least Bell's vireo have potential to occur in respective areas of the Flat-Topped Buckwheat Scrub, Mulefat Scrub, Southern Riparian Forest and Southern Riparian Woodland habitats mapped within the Survey Area. No special-status species were observed or detected during the survey.

Riverside Drive - Old Highway 80 to Viejas Grade Road

This 0.85-mile stretch of north-south running road is situated in east San Diego County, immediately north of Highway 80, in the unincorporated community of Descanso. Seven distinct vegetation

communities were mapped within the Survey Area along this route including Coast Live Oak Woodland, Montane Meadow, Non-Native Grassland, Southern Coast Live Oak Riparian Forest, Southern Riparian Forest, Southern Riparian Scrub, and Urban/Developed. Riparian zones consisting of Montane Meadow, Southern Coast Live Oak Riparian Forest, Southern Riparian Forest, and Southern Riparian Scrub were mapped for avoidance. The literature review for this road segment yielded five special-status species with potential to occur including tricolored blackbird, arroyo toad, Hermes copper butterfly, least Bell's vireo, and San Diego thorn-mint. Of these species, arroyo toad and least Bell's vireo have potential to occur in the Southern Coast Live Oak Riparian Forest, Southern Riparian Forest, and Southern Riparian Scrub habitats mapped within the Survey Area. No special-status species were observed or detected during the survey.

Round Potrero Road – Potrero Valley Road to End of County Maintained Road

This 2.8-mile stretch of north-south running road is situated in south-central San Diego County, approximately one mile north of Highway 94, in the unincorporated community of Potrero. Eight distinct vegetation communities were mapped within the Survey Area along this route including Agriculture, Chamise Chaparral, Disturbed Habitat, Flat-Topped Buckwheat Scrub, Non-Native Grassland, Scrub Oak Chapparal, Southern Mixed Chaparral, and Urban/Developed. No riparian zones were mapped in this segment. The literature review for this road segment yielded five special-status species with potential to occur including tricolored blackbird, arroyo toad, Quino checkerspot butterfly, least Bell's vireo, and San Diego thorn-mint. Of these species, only Quino checkerspot butterfly has potential to occur in the Chamise Chaparral, Flat-Topped Buckwheat Scrub, Scrub Oak Chaparral, and Southern Mixed Chaparral habitats mapped within the Survey Area. No special-status species were observed or detected during the survey.

South Grade Road – Highway 76 to East Grade Road

This 6.6-mile stretch of north-south running road is situated in northeast San Diego County, immediately north-northeast of Highway 76, on Palomar Mountain. Ten distinct vegetation communities were mapped within the Survey Area along this route including Diegan Coastal Sage Scrub, Chamise Chaparral, Coast Live Oak Woodland, Disturbed Habitat, Flat-Topped Buckwheat Scrub, Mixed Oak/Coniferous/Bigcone/Coulter Forest, Mixed Oak Woodland, Montane Chaparral, Southern Mixed Chaparral, and Urban/Developed. No riparian zones were mapped in this segment. The literature review for this road segment yielded seven special-status species with potential to occur including least Bell's vireo, southwestern willow flycatcher, arroyo toad, Laguna Mountains skipper, Stephens' kangaroo rat, Nevin's barberry, and San Bernardino blue grass. Of these species, only Laguna Mountains skipper and Nevin's barberry have potential to occur within respective areas of the Coulter Pine Forest, Mixed Oak/Coniferous/Bigcone/Coulter Forest, Montane Chaparral, Southern Mixed Chaparral, Montane Buckwheat Scrub, and Southern Coast Live Oak Riparian Forest habitats mapped within the Survey Area. No special-status species were observed or detected during the survey.

Valley Center Road – Escondido City Limit to Highway 76

This 13.74-mile stretch of north-south and west-east running road is situated in north-central San Diego County, approximately four miles east of Interstate 15, in the unincorporated community of Valley Center. Eleven distinct vegetation communities were mapped within the Survey Area along this route including Coast Live Oak Woodland, Coastal Sage-Chaparral Mix, Diegan Coastal Sage Scrub, Disturbed Habitat, Mulefat Scrub, Non-Native Riparian, Southern Coast Live Oak Riparian Forest,

Southern Cottonwood-Willow Riparian Forest, Southern Mixed Chaparral, Southern Willow Scrub, and Urban/Developed. Riparian zones consisting of Mulefat Scrub, Southern Coast Live Oak Riparian Forest, Southern Willow Scrub, and Southern Cottonwood-Willow Riparian Forest were mapped for avoidance. The literature review for this road segment yielded three special-status species with potential to occur including arroyo toad, least Bell's vireo, and coastal California gnatcatcher. All of these species have potential to occur in respective areas of the Coastal Sage-Chaparral Mix, Diegan Coastal Sage Scrub, Mulefat Scrub, Southern Coast Live Oak Riparian Forest, Southern Cottonwood-Willow Riparian Forest, and Southern Willow Scrub habitats mapped within the Survey Area. No special-status species were observed or detected during the survey.

Wynola Road – Highway 79 to Highway 78

This 4.1-mile stretch of west-east running road is situated in north-east San Diego County, immediately east of Highway 79, in the unincorporated community of Julian. Twelve distinct vegetation communities were mapped within the Survey Area along this route including Agriculture, Coast Live Oak Woodland, Diegan Coastal Sage Scrub, Disturbed Habitat, Disturbed Wetland, Mixed Oak/Coniferous/Bigcone/Coulter Forest, Mixed Oak Woodland, Non-Vegetated Floodplain or Channel, Non-Native Grassland, Southern Coast Live Oak Riparian Forest, Southern Riparian Woodland, and Urban/Developed. Riparian zones consisting of Disturbed Wetland, Southern Riparian Woodland, Non-Vegetated Floodplain or Channel, and Southern Coast Live Oak Riparian Forest were mapped for avoidance. The literature review for this road segment yielded four special-status species with potential to occur including tricolored blackbird, arroyo toad, Parish's meadowfoam, and least Bell's vireo. None of these species have potential to occur within the Survey Area. No special-status species were observed or detected during the survey.

5.0 PROJECT FINDINGS

As stated above in Section 2.1, the MOU between USFWS, CDFW, CDF, County Fire Chiefs, and the County Fire Districts authorizes the take of species listed as threatened or endangered, or candidate species for management purposes necessitated by or incidental to fire protection measures. The MOU indicates property owners, their lessees, fire districts, the County of San Diego, Caltrans, and cities shall be permitted to clear up to 30 feet along each side of the established regularly traveled roadways.

Maintaining vegetation within a 20-foot buffer along approximately 266 miles of rural San Diego County roadways would result in impacts to vegetation communities and land cover types. These impacts would be considered temporary because if left alone, the vegetation communities can return to pre-impact condition, thus providing habitat and functions and values effectively equal to the functions and values that existed before the area was impacted. Project plans do not call for ground disturbance, but instead aim to trim scrub, brush, and grass community vegetation to a height of no more than six inches and in certain cases where needed, remove it entirely. Leaving plant roots intact reduces risk of erosion. Trees would be limbed up to eliminate, or reduce, ladder fuels but will not be cut down. Project plans call for continued maintenance of combustible vegetation and the application of PHOS-CHEK® FORTIFY® along select areas of roadways following fuel reduction treatments.

The MOU with the Wildlife Agencies requires avoidance of Riparian Zone vegetation and vernal pools since they are already somewhat resistant to fire. No vernal pools were observed during any of the

field surveys; however, twelve different Riparian Zone vegetation communities were recorded during the field surveys including Southern Riparian Woodland, Southern Riparian Forest, Montane Meadow, Southern Riparian Scrub, Southern Coast Live Oak Riparian Forest, Disturbed Wetland, Mulefat Scub, Non-Native Riparian, Southern Willow Scrub, Non-Vegetated Floodplain or Channel, Southern Arroyo Willow Riparian Forest, and Southern Cottonwood-Willow Riparian Forest. These Riparian Zone vegetation communities and 50-foot buffer areas would be avoided by the project, as described in the project description, and are depicted in the attached project maps.

Special-Status Plants

Twelve special-status plant species were identified during the literature review as having potential to occur within the project Survey Areas. No special-status plant species were observed or detected during the field surveys; however, it was determined that only seven of these species have potential to occur based on the presence of suitable habitat within the Survey Area including Parish's meadowfoam, Cuyamaca Lake downingia, San Diego button celery, San Bernardino blue grass, Dehesa nolina, San Diego thorn-mint, and Nevin's barberry. Four of these species (Parish's meadowfoam, Cuyamaca Lake downingia, San Diego button celery, and San Diego thorn-mint) are typically restricted to vernal pools and/or wet meadow habitats, areas considered to be Riparian Zones or Vernal Pool Depressions by the project and will be avoided during vegetation maintenance. The remaining three species (San Bernardino blue grass, Dehesa nolina, and Nevin's barberry) are associated with upland vegetation communities that would be subject to vegetation maintenance activities. Impacts to these species as a result of activities within the scope of the project, should they occur, are authorized by the MOU and are therefore considered less-than-significant.

Special-Status Wildlife

Thirteen special-status wildlife species were identified during the literature review as having potential to occur within the project Survey Areas. Field surveys confirmed that only eight of these species have potential to occur based on suitable habitat availability within the Survey Area including arroyo toad, least Bell's vireo, coastal California gnatcatcher, Laguna Mountains skipper, Quino checkerspot butterfly, Hermes copper butterfly, southwestern willow flycatcher, and western yellow-billed cuckoo. Only one, coastal California gnatcatcher, was incidentally observed during the field surveys. Four of these species (arroyo toad, least Bell's vireo, southwestern willow flycatcher, and western yellow-billed cuckoo) are restricted to riparian habitats and the immediate surrounding areas, areas considered to be Riparian Zones or Vernal Pool Depressions by the project and will be avoided during vegetation maintenance. The remaining four species (coastal California gnatcatcher, Laguna Mountains skipper, Quino checkerspot butterfly, and Hermes copper butterfly) are associated with upland vegetation communities that would be subject to vegetation maintenance activities. Impacts to these species as a result of activities within the scope of the project, should they occur, are authorized by the MOU and are therefore considered less-than-significant.

6.0 SUMMARY

As stated in the MOU, uncontrolled wildfires pose a serious threat to human lives and property but are generally part of the natural disturbance cycle of adjacent wildlands. The project objectives are clear in that they aim to protect lives, property, and the natural environment from the increasing threat of fire while minimizing the potential of disturbance to special-status species and habitats. Properly

maintained combustible vegetation is known to reduces the incidences of non-natural fires spreading from developed areas to natural land and lowers the potential impacts of unseasonable and frequent wildfires to special-status species and their habitats. Simple vegetation maintenance practices performed at least annually may greatly reduce the risk that catastrophic wildfires pose on humans and special-status species alike. Furthermore, application of PHOS-CHEK® FORTIFY® provides a proactive and preventive wildfire management solution rather than relying on reactive suppression methods following wildfire ignition. Despite the presence, or potential presence, of special-status species within areas that would be subject to vegetation maintenance, less-than-significant impacts would occur from vegetation maintenance consistent with the MOU, which "finds that implementation of the fire control, abatement, and protection measures contemplated by [the] MOU is not likely to result in jeopardy to the continued existence of the identified State listed or candidate species, if the terms and conditions of the MOU are fully implemented and adhered to. The Department finds, further, that by preventing or limiting the spread of fire to the identified species' habitat, this MOU will serve to protect the identified species from further degradation." Therefore, consistent with the MOU, the proposed project shall comply with the Reasonable and Prudent Measures and the Terms and Conditions identified in the Biological Opinion issued by the Service for this action and no impacts not already contemplated by the MOU would occur.

7.0 SURVEYOR CERTIFICATION

This report was prepared for SDCFPD. All data, statements, analyses, findings, and attachments within this report are accurate and truthful in terms of describing the existing conditions and the project as proposed to Blackhawk Environmental and are based on best available knowledge at the time of the report. Any use which a third party makes of this report, or any reliance on or decisions made based on it, are the responsibilities of such third parties. Blackhawk Environmental accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this report.

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