TECHNICAL APPENDICES FOR

# Echo Park Lake REHABILITATION PROJECT











## DRAFT ENVIRONMENTAL IMPACT REPORT APPENDIX A

NOTICE OF PREPARATION, INITIAL STUDY & RESPONSES TO IS/NOP

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LOS ANGELES, CA 90015-2213 http://eng.lacity.org

ORIGINAL FILED

SEP 1 0 2009

September 10, 2009

NOTICE OF PREPARATION

LOS ANGELES, COUNTY CLERK

To:

Responsible Agencies, Trustee Agencies, Stakeholders and Interested Parties

From:

City of Los Angeles Department of Public Works

Bureau of Engineering, Environmental Management Group

1149 South Broadway, Suite 600 Los Angeles, CA 90015-2213

Subject:

Notice of Preparation of a Draft Environmental Impact Report for the

Echo Park Lake Rehabilitation Project

The City of Los Angeles (City) Department of Public Works, Bureau of Engineering (BOE) is the Lead Agency under the California Environmental Quality Act (CEQA) and will prepare an Environmental Impact Report (EIR) for the proposed project. The State of California has identified Echo Park Lake (Lake) as an impaired water body with the following types of water quality issues: algae, ammonia, eutrophic conditions, copper, lead, odor, polychlorinated byphenyls (PCBs), trash, and pH. As a result, the City is proposing to implement in-lake improvements; vegetation, habitat and park improvements; and parkland structural best management practices at the Lake. The proposed project would be consistent with the Regional Water Quality Control Board's intent to restore the existing and potential beneficial water quality uses in the Lake.

The City requests your agency's views on the scope and content of the environmental information relevant to your agency's statutory responsibilities in connection with the proposed project, in accordance with California Code of Regulations, Title 14, Section 15082(b). Your agency may need to use the EIR when considering any permit or other approval that your agency must issue for the proposed project. In addition, the City requests comments from other interested parties, stakeholders, and the general public on the scope of the environmental issues related to the proposed project.

The project site is located at 751 Echo Park Avenue within the Echo Park/Silver Lake community of the City of Los Angeles and is bound by Park Avenue on the north, Echo Park Avenue on the east, Bellevue Avenue on the south, and Glendale Boulevard on the west. The project site is also located within the Los Angeles River Watershed. US Highway 101 (US 101, Hollywood Freeway) travels in an east-west direction in this area of Los Angeles, and is located approximately 0.05 mile (250 feet) south of the project site. State Route 110 (SR 110, Pasadena Freeway) travels in a north-south direction and is located approximately 0.8 mile east of the project site. Figure 1 and Figure 2 attached show the regional location and the project location, respectively.

As a covered entity under Title II of the Americans with Disabilities Act, the City of Los Angeles does not discriminate on the basis of disability and, upon request, will provide reasonable accommodation to ensure equal access to its programs, services, and activities. Sign language interpreters, assistive listening devices, or other auxiliary aids and/or services may be provided upon request.



The project site includes a 24-acre portion of Echo Park Lake (Park), an open-space recreational facility. The Lake occupies 13 acres and is surrounded by 11 acres of open recreational space. A 2-acre portion of the Park is located on the south side of Bellevue Avenue and a 5-acre portion of the Park is located further south on the south side of US 101. These 7 acres are not part of the project site. In 2006, the City designated the Park as Historic-Cultural Monument (HCM) No. 836. Features contributing to this designation were the Spanish Colonial Revival-style architecture in the Park, English-style landscaping, and defining characteristics including the Lake itself, the footbridge, perimeter paths, boathouse, recreation building, lotus beds and the Park's unusual trees.

Figure 3 attached illustrates an overview of the proposed project site plan. The proposed project would include the following improvements at the Lake:

- Install a new Lake liner
- Construct wetland areas within the Lake to help achieve water quality objectives in the Lake
- Construct a new Lake outlet
- Construct a partition berm in the Lake to comply with California Division of Safety of Dams (DSOD) requirements
- Construct a recirculation pump and piping system to circulate the Lake water
- Modify existing storm drains inletting to the Lake to divert low flow urban runoff into the Lake.
- Place aquatic emergent plants at various points along the Lake edge
- Various improvements to the Lake's edge and areas adjacent to the Lake's edge
- Replace a majority of the existing asphalt pathway around the Lake perimeter with pervious materials
- Construct hydrodynamic separators in the existing storm drain systems to remove trash and debris
- Construct rain gardens and grassy swales around the Lake
- Upgrade the irrigation system to improve efficiency

An analysis of potential environmental effects is provided in the Initial Study Checklist prepared for the proposed project. Potential impacts associated with the proposed project may include:

- Aesthetics
- Air Quality
- Biological Resources
- Cultural Resources
- Hazards and Hazardous Materials
- Hydrology and Water Quality
- Noise
- Recreation
- Transportation/Traffic

The Initial Study Checklist is available for review at the following locations:

- Echo Park Branch Library, 1410 West Temple Street, Tel: (213) 250-7808
- Edendale Branch Library, 2011 West Sunset Boulevard, Tel: (213) 207-3000
- Office of Council President Eric Garcetti, Council District 13, Hollywood District Office, 5500 Hollywood Boulevard, Tel: (323) 957-4500
- Office of Council President Eric Garcetti, Council District 13, Glassell Park Office, 3750 Verdugo Road, Tel: (323) 478-1296

A copy of the Initial Study Checklist may also be obtained by contacting Ms. Maria Martin of the Bureau of Engineering at (213) 485-5753 and can also be accessed online at: http://eng.lacity.org/techdocs/emg/Environmental Review Documents.htm

A scoping meeting will be held to obtain input on the scope of the contents of the EIR, as well as to present information on the proposed project design. This meeting will be held at the following date, time and location:

#### Wednesday, September 23, 2009

6:30 p.m. Logan Street Elementary School - Auditorium 1711 Montana Street Los Angeles, CA 90026

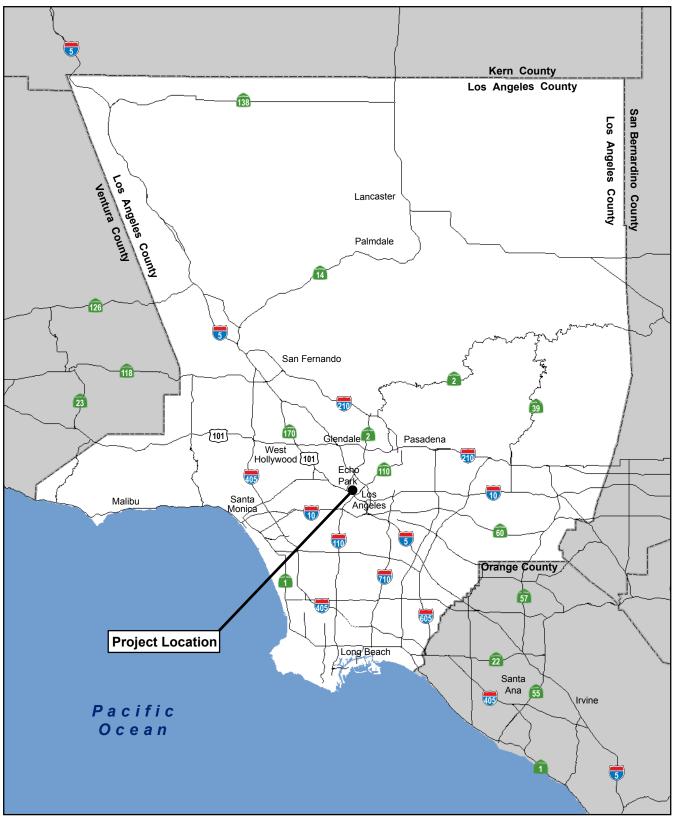
Si usted necesitará un traductor para esta reunión, comuníquese con Olga Morales al (213) 485-5933 antes de las 5:00 p.m. el 18 de septiembre.

Comments will be accepted from September 10, 2009 through October 9, 2009. Please send your comments by mail to:

Ms. Maria Martin, Environmental Supervisor City of Los Angeles Department of Public Works Bureau of Engineering, EMG 1149 S. Broadway, Suite 600, Mail Stop 939 Los Angeles, CA 90015-2213

Comments may also be submitted by e-mail to Maria.Martin@lacity.org (please include "Echo Park Comments" in the subject line) or by fax to (213) 847-0656.

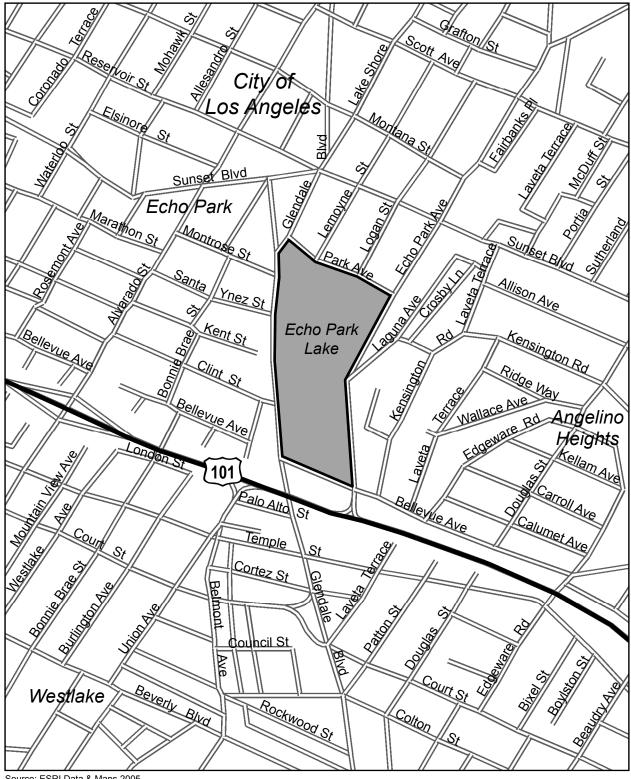
Si usted necesita más información en español acerca de este Aviso de Preparación, llame a Olga Morales al (213) 485-5933.



Source: California Geospatial Information Library (2003-5)



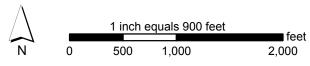
Figure 1 Regional Location Map

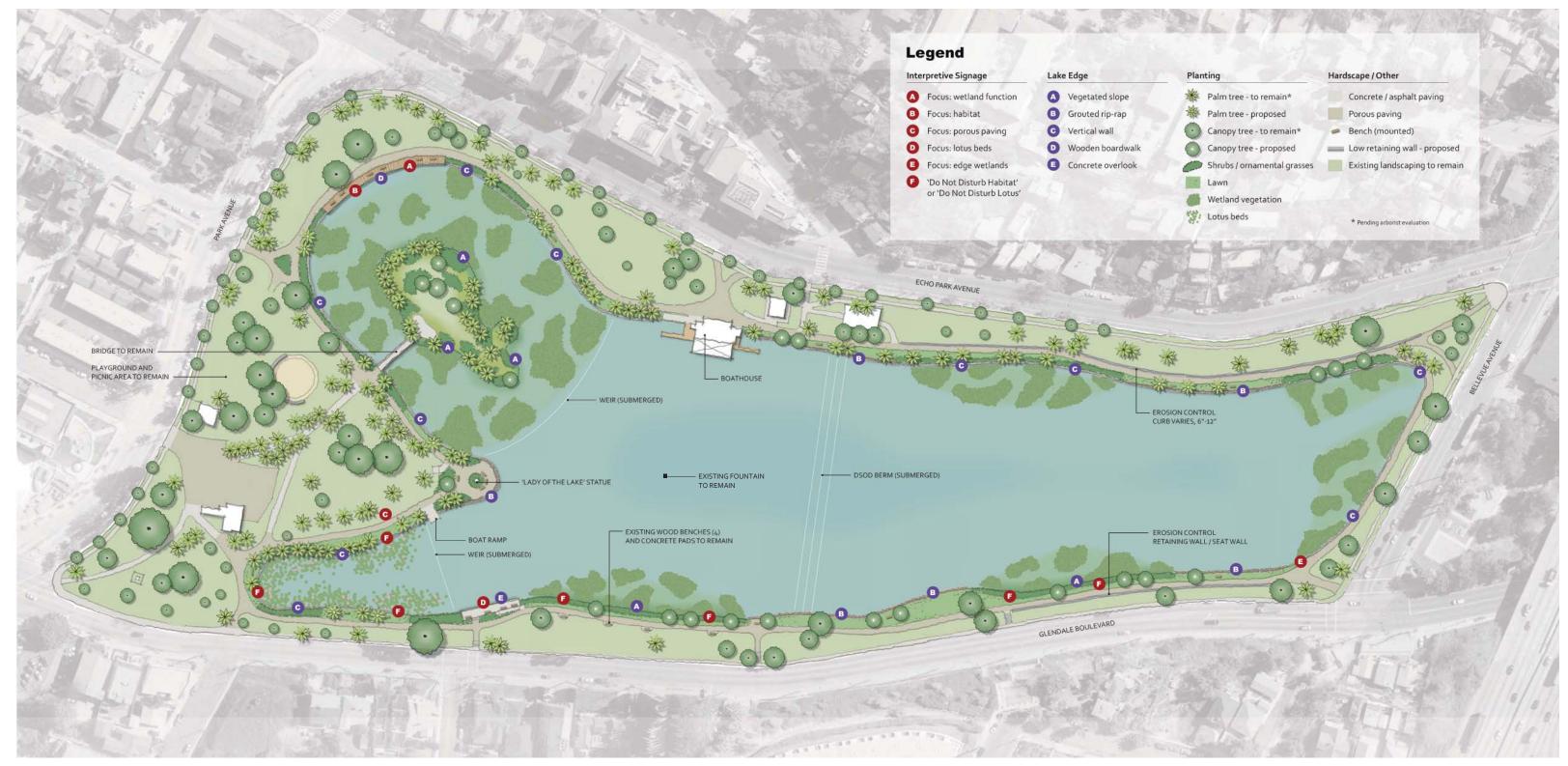


Source: ESRI Data & Maps 2005

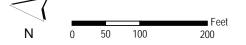


**Project Site** 





Source: EDAW AECOM August 2009





# CITY OF LOS ANGELES CALIFORNIA ENVIRONMENTAL QUALITY ACT INITIAL STUDY

Council District: 13 Date: September 10, 2009

Lead City Agency: Department of Public Works, Bureau of Engineering

Project Title: Echo Park Lake Rehabilitation Project

#### I. INTRODUCTION

#### A. Purpose of an Initial Study

The California Environmental Quality Act (CEQA) was enacted in 1970 for the purpose of providing decision-makers and the public with information regarding environmental effects of proposed projects; identifying means of avoiding environmental damage; and disclosing to the public the reasons behind a project's approval even if it leads to significant environmental impacts. The Bureau of Engineering Environmental Management Group (EMG) has determined that the proposed project is subject to CEQA and that no exemptions apply. Therefore, the preparation of an Initial Study is required.

An Initial Study is a preliminary analysis conducted by the lead agency, in consultation with other agencies (responsible or trustee agencies, as applicable), to determine whether there is substantial evidence that a project may have a significant effect on the environment. If the Initial Study concludes that the project, with mitigation, may have a significant effect on the environment, an Environmental Impact Report (EIR) should be prepared; otherwise the lead agency may adopt a Negative Declaration (ND) or Mitigated Negative Declaration (MND).

The Initial Study contained herein has been prepared in accordance with CEQA (Public Resources Code §21000 et seq.), the State CEQA Guidelines (Title 14, California Code of Regulations, §15000 et seq.), and the City of Los Angeles CEQA Guidelines (1981, amended July 31, 2002). The City of Los Angeles Department of Public Works, Bureau of Engineering is the lead agency under CEQA.

#### **B.** Document Format

This Initial Study is organized into seven sections as follows:

<u>Section I, Introduction:</u> provides an overview of the project and the CEQA environmental documentation process.

<u>Section II, Project Description</u>: provides a description of the project location, project background, and project components.

<u>Section III, Existing Environment</u>: provides a description of the existing environmental setting with focus on features of the environment which could potentially affect the proposed project or be affected by the proposed project.

<u>Section IV, Environmental Effects/Initial Study Checklist</u>: presents the City's Checklist for all impact areas and mandatory findings of significance.

#### INITIAL STUDY PUBLIC WORKS – BUREAU OF ENGINEERING

<u>Section V, Preparation and Consultation:</u> provides a list of key personnel involved in the preparation of this report and key personnel consulted.

<u>Section VI, Determination – Recommended Environmental Documentation:</u> provides the recommended environmental documentation for the proposed project; and,

Section VII, References: provides a list of reference materials used during the preparation of this report.

#### C. CEQA Process

To begin the CEQA process, the lead agency identifies a proposed project. The lead agency then prepares an Initial Study to identify the preliminary environmental impacts of the proposed project. If the Initial Study determines that a proposed project would have significant environmental impacts that would require further study and/or the implementation of mitigation measures, the lead agency may decide to prepare either an MND or EIR. If it is foreseen that no feasible mitigation measures may exist to reduce certain significant impacts identified in the Initial Study, the lead agency must prepare an EIR. A Notice of Preparation is prepared to notify public agencies and the general public that the lead agency is starting the preparation of an EIR for the proposed project. The Notice of Preparation and Initial Study are circulated for a 30-day review and comment period. During this review period, the lead agency requests comments from agencies, interested parties, stakeholders, and the general public on the scope of the environmental issues presented in the Initial Study and to be evaluated in the EIR.

After the close of the 30-day review and comment period, the lead agency continues the preparation of the Draft EIR and associated technical studies (if any). Once the Draft EIR is complete, a Notice of Availability is prepared to inform the public agencies and the general public of the document and the locations where the document can be reviewed. The Draft EIR and Notice of Availability are circulated for a 45-day review and comment period. The purpose of this review and comment period is to provide public agencies and the general public an opportunity to review the Draft EIR and comment on the adequacy of the analysis and the findings of the lead agency regarding potential environmental impacts of the proposed project. After the close of the 45-day review and comment period, responses to all comments received on the Draft EIR are prepared. The lead agency prepares a Final EIR, which incorporates the Draft EIR or a revision to the Draft EIR, Draft EIR comments and list of commentors, and response to comments discussion. In addition, the lead agency must prepare the findings of fact for each significant effect identified, a statement of overriding considerations if there are significant impacts that cannot be mitigated, and a mitigation monitoring and reporting program to ensure that all proposed mitigation measures are implemented.

The Board of Public Works considers the Final EIR, together with any comments received during the public review process, and makes a recommendation to the City Council on whether or not to certify the Final EIR and approve the project. One or more Council committees may then review the proposal and documents and make its own recommendation to the full City Council. The City Council is the decision-making body and also considers the Final EIR, together with any comments received during the review and comment process, in the final decision to certify the Final EIR and approve or disapprove the project. During the project approval process, persons and/or agencies may address either the Board of Public Works or the City Council regarding the project. Public notification of agenda items for the Board of Public Works, Council committees and City Council is posted 72 hours prior to the public meeting. The Council agenda can be obtained by visiting the Council and Public Services Division of the Office of the City Clerk at City Hall, 200 North Spring Street, Suite 395; by calling 213/978-1047, 213/978-1048 or 213/978-1055 (hearing impaired); or via the internet at http://www.lacity.org/CLK/index.htm.

If the project is approved, the City would file a Notice of Determination with the Los Angeles County Clerk within 5 days. The Notice of Determination would be posted by the Los Angeles County Clerk within 24 hours of receipt. This begins a 30-day statute of limitations on legal challenges to the approval under CEQA.

## INITIAL STUDY PUBLIC WORKS – BUREAU OF ENGINEERING

As a covered entity under Title II of the Americans with Disabilities Act, the City of Los Angeles does not discriminate on the basis of disability and, upon request, would provide reasonable accommodation to ensure equal access to its programs, services, and activities.

#### II. PROJECT DESCRIPTION

#### A. Location

The project site is located at 751 Echo Park Avenue within the Echo Park/Silver Lake community of the City of Los Angeles and is bound by Park Avenue on the north, Echo Park Avenue on the east, Bellevue Avenue on the south, and Glendale Boulevard on the west. The project site is also located within the Los Angeles River Watershed. US Highway 101 (US 101, Hollywood Freeway) travels in an east-west direction in this area of Los Angeles, and is located approximately 0.05 mile (250 feet) south of the project site. State Route 110 (SR 110, Pasadena Freeway) travels in a north-south direction and is located approximately 0.8 mile east of the project site. The project site includes a 24-acre portion of Echo Park Lake (Park), an open-space recreational facility. The Lake occupies 13 acres and is surrounded by 11 acres of open recreational space. A 2-acre portion of the Park is located on the south side of Bellevue Avenue and a 5-acre portion of the Park is located further south on the south side of US 101. These 7 acres are not part of the project site. Figure 1 and Figure 2 show the regional location and the project site location, respectively.

#### B. Background

The City of Los Angeles is implementing a Clean Water Bond Program approved by voters in November 2004 as Proposition O (Prop O). Prop O authorized the City to issue a series of general obligation bonds for up to \$500 million for projects to protect public health by cleaning up pollution in the City's watercourses, beaches, and ocean. The measure also funds improvements to protect water quality, provide flood protection, and increase water conservation, habitat protection, and open space.

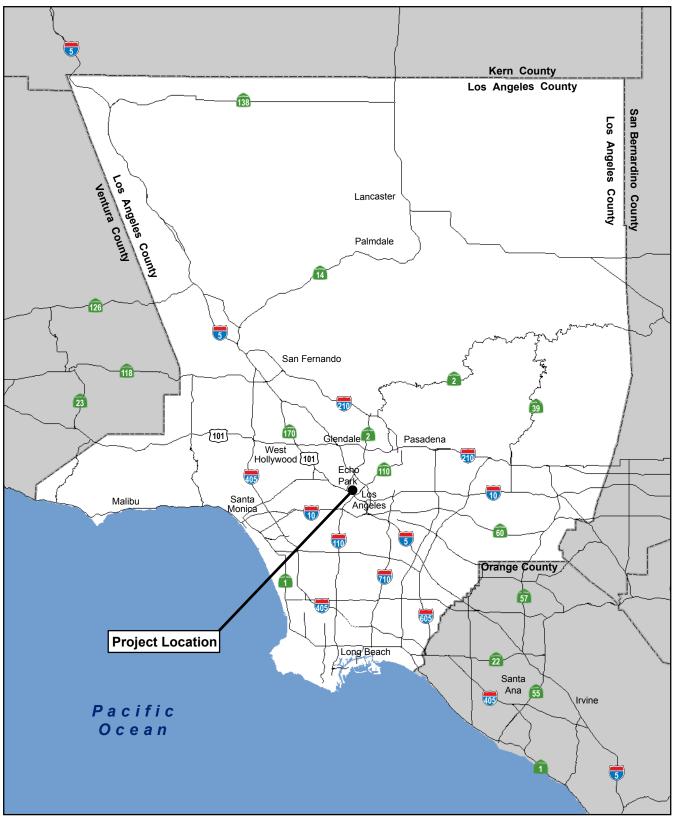
A component of the Prop O Program is the Echo Park Lake Rehabilitation Project (proposed project). A Pre-Design Report was prepared to identify and describe the proposed project, describe the extensive investigations undertaken at the project site, discuss preliminary budget and schedule information, and present recommendations for proposed project implementation. The project description and analysis presented in this Initial Study is based on the information presented in the Pre-Design Report.

In 2006, the City designated the Park as Historic-Cultural Monument (HCM) No. 836. Features contributing to this designation were the Spanish Colonial Revival-style architecture in the Park, English-style landscaping, and defining characteristics including the Lake itself, the footbridge, perimeter paths, boathouse, recreation building, lotus beds, and the Park's unusual trees.

#### C. Project Objectives

The main objectives of the proposed project are to:

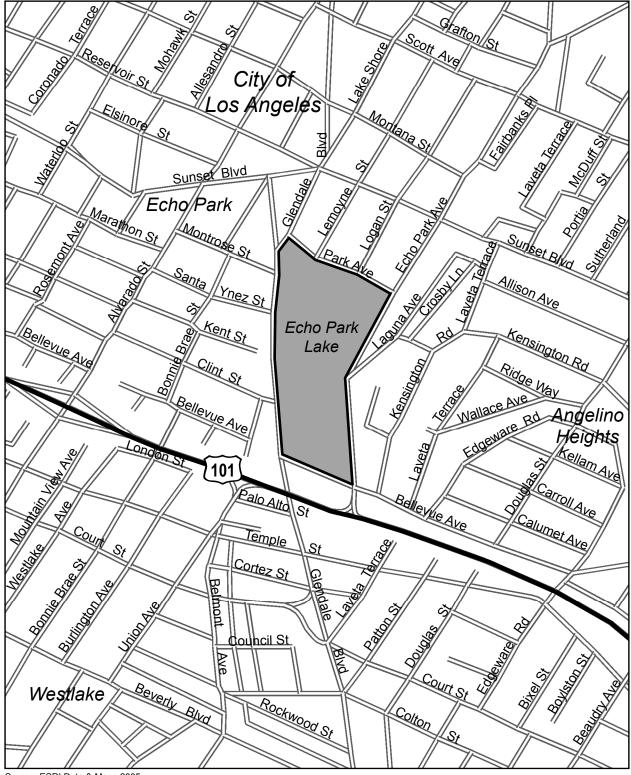
- Improve the water quality in the Lake and contribute to water quality improvement in the Los Angeles River Watershed.
- Reduce the use of municipal water required to maintain the water level of the Lake.
- Comply with the Regional Water Quality Control Board's intent to restore the existing and potential beneficial water quality uses in the Lake. The existing beneficial uses include non-contact water recreation (REC-2) and wildlife habitat (WILD). The potential beneficial uses include municipal and domestic water supply (MUN), warm freshwater habitat (WARM), and wetland habitat (WET).
- Assist the City in meeting the current and future total maximum daily load (TMDL) requirements.
- Implement multi-purpose solutions at the Lake, consistent with the Prop O objectives of water supply, water quality, flood reduction, storm water use, and recreation.



Source: California Geospatial Information Library (2003-5)



Figure 1 Regional Location Map



Source: ESRI Data & Maps 2005



**Project Site** 

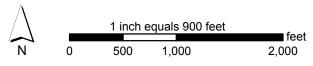


Figure 2 Project Location

#### D. Project Description

#### **Project Overview and Background**

Echo Park Lake (Park) has been a part of the City's history for more than 150 years. Historical records indicate that Echo Park Lake (Lake) was originally built as a water supply reservoir in the 1860s. Over time, the use of the Lake was transformed to that of a detention basin in the storm drainage system, providing hydraulic relief during storm events. The State of California has identified the Lake as an impaired water body with the following types of water quality issues: algae, ammonia, eutrophic conditions, copper, lead, odor, polychlorinated byphenyls (PCBs), trash, and pH. As a result, the City is proposing to implement in-lake improvements; vegetation, habitat and park improvements; and parkland structural best management practices at the Lake. The proposed project would be consistent with the Regional Water Quality Control Board's intent to restore the existing and potential beneficial water quality uses in the Lake.

#### **Project Elements**

An overview of the proposed project is shown in Figure 3. The proposed project includes the following key components:

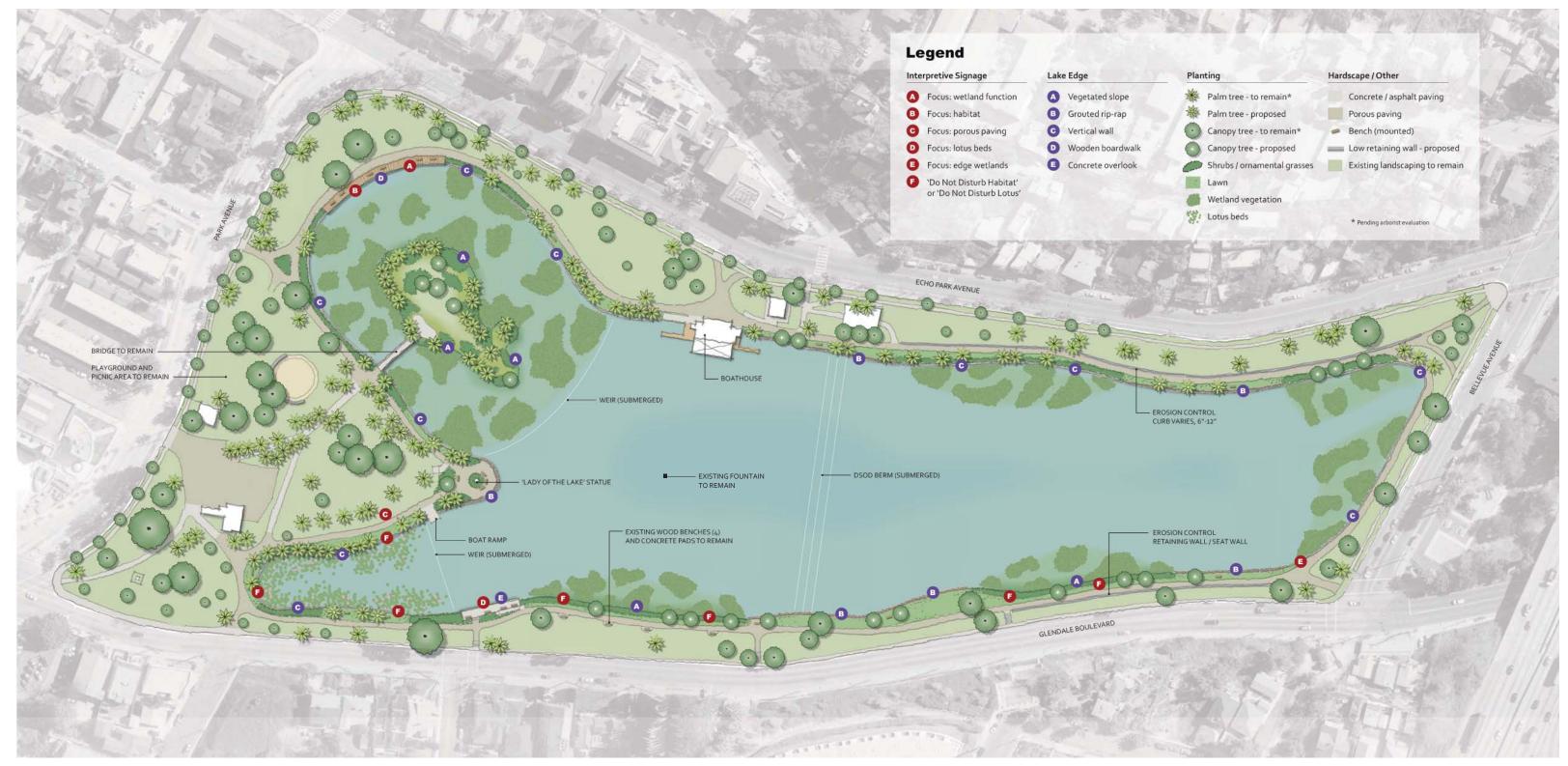
- Install a new Lake liner
- Construct wetland areas within the Lake to help achieve water quality objectives in the Lake
- Construct a new Lake outlet
- Construct a partition berm in the Lake to comply with California Division of Safety of Dams (DSOD) requirements
- Construct a recirculation pump and piping system to circulate the Lake water
- Modify existing storm drains inletting to the Lake to divert low flow urban runoff into the Lake
- Place aquatic emergent plants at various points along the Lake edge
- Various improvements to the Lake's edge and areas adjacent to the Lake's edge
- Replace a majority of the existing asphalt pathway around the Lake perimeter with pervious materials
- Construct hydrodynamic separators in the existing storm drain systems to remove trash and debris
- Construct rain gardens and grassy swales around the Lake
- Upgrade the irrigation system to improve efficiency

#### **Preliminary Construction Schedule and Scenario**

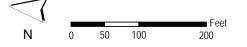
The estimated duration of the construction of the proposed project is January 2011 through February 2013. It is anticipated that the Park would be closed to the public during the construction phase due to the construction activities.

The activities would include draining the Lake to remove the sediment accumulated within the Lake. The removed sediment would require drying, handling and hauling from the project site. The Lake bed would be lined, requiring an area for stockpiling materials. It is anticipated that the majority of staging and storage for the Lake bed improvements would occur within the Lake bed itself. It is anticipated that the Lake bed improvements would occur concurrently along with the improvements to the adjacent Park. This would ultimately depend on the amount of available staging space within or near the Park.

Construction staging and laydown areas may be located adjacent to the north end of the Lake, which is a relatively flat area that currently includes City of Los Angeles Department of Recreation and Parks maintenance yard and is accessible to Park Avenue. Another potential staging and laydown area exists within the maintenance yard parking lot of the Park in addition to potential off-site locations to be determined prior to construction. Temporary site offices during the construction phase may be located on-site.



Source: EDAW AECOM August 2009



### INITIAL STUDY PUBLIC WORKS – BUREAU OF ENGINEERING

#### **Operation and Maintenance**

The Department of Recreation and Parks (RAP) operates and maintains the Park. However, it is currently anticipated that the proposed project would be jointly maintained by RAP and the Department of Public Works Bureau of Sanitation (BOS).

#### **Project Actions and Approvals**

The proposed project and environmental documentation, including this Initial Study, would require approval by the following City of Los Angeles decision-making bodies: Board of Public Works and the City Council. Additional anticipated approvals or permits for the proposed project include, but are not limited to the following:

- United States Army Corps of Engineers (USACE) Preliminary Jurisdictional (JD) Form and Nationwide Permit
- Los Angeles Regional Water Quality Control Board (RWQCB) permits including Section 401 Water Quality Certification Permit and Waste Discharge Requirement
- California Department of Fish and Game (CDFG) permits including CDFG Code Section 1600 Lake or Streambed Alteration Permit
- California Division of Safety of Dams (DSOD) approvals
- City of Los Angeles Department of Recreation and Parks, project and design review
- City of Los Angeles permits for disposal of materials and haul routes
- City of Los Angeles Cultural Affairs Commission approval

The analysis in this document assumes that, unless otherwise stated, the project would be designed, constructed and operated following all applicable laws, regulations, ordinances and formally adopted City standards (e.g., Los Angeles Municipal Code and Bureau of Engineering Standard Plans). Construction will follow the uniform practices established by the Southern California Chapter of the American Public Works Association (e.g., Standard Specifications for Public Works Construction and the Work Area Traffic Control Handbook) as specifically adapted by the City of Los Angeles (e.g., The City of Los Angeles Department of Public Works Additions and Amendments to the Standard Specifications For Public Works Construction [also known as "The Brown Book," formerly Standard Plan S-610]).

#### III. EXISTING ENVIRONMENT

The project site includes a 24-acre portion of Echo Park Lake (Park), an open-space recreational facility 0.8 mile northwest of Downtown Los Angeles. The Lake occupies 13 acres and is surrounded by 11 acres of open recreational space. A 2-acre portion of the Park is located on the south side of Bellevue Avenue and a 5-acre portion of the Park is located further south on the south side of US 101. These 7 acres are not part of the project site. Key features and activities in the Park include a footbridge, boathouse, the lotus bed, man-made island, paddle boating, catch-and-release fishing, a fountain, model boating, jogging, and strolls around the perimeter pathways. The Park contains numerous palm trees, other trees, shrubs and open grassy areas. The Park is operated and maintained by the City of Los Angeles Department of Recreation and Parks (RAP).

The project site is located within the Silver Lake-Echo Park-Elysian Valley Community Plan Area in the central area of the City of Los Angeles. The City of Los Angeles General Plan designates the project site as an open space land use.<sup>1</sup> The project site is zoned Open Space (OS-1XL), which allows for the development of parks, recreational facilities, natural resource preserves for the managed production of resources, marine and ecological preserves, public water supply reservoirs, water conservation areas and sanitary landfill sites that have received certificates of closure in compliance with federal and state regulations.<sup>2</sup> The project site is located within Height District No. 1, which is designated as being a Very Limited (VL) Height District. Height District 1-VL allows for the development of structures that are three stories or 45 feet in height.

The project site is located within the recently adopted Echo Park Community Design Overlay District. The district is bounded by Sunset Boulevard on the north, Bonnie Brae Street on the west, Echo Park Avenue on the east, and US 101 on the south. The purpose of this district is to preserve the original development pattern, neighborhood character and architectural resources in the Echo Park community.

The project site is surrounded by commercial, public facility and multi-family residential uses. Sunset Boulevard is located approximately 0.1 mile north of the project site. Additional recreational facilities associated with the Park, including a playground, swimming pool, and childcare center, are located south of the project site, on the south side of Bellevue Avenue. The US 101 is located directly south of these recreational uses. One- to four-story multi-family residential buildings are located west of the project site, on the west side of Glendale Boulevard. One- to two-story multi-family residential buildings and a large two- to five-story church are located north of the project site, on the north side of Park Avenue. The church includes Angelus Temple, which is a designated National Historic Landmark (No. 92001875).<sup>3</sup> One- to four-story multi-family residential buildings and a large two- to four-story church are located east of the project site, on the east side of Echo Park Avenue.

Glendale Boulevard, which is aligned north-south adjacent to the west side of the project site, is designated by the City as a Major Highway-Class II.<sup>4</sup>

As previously mentioned, the project site is located within the Los Angeles River Watershed. This watershed is approximately 834 square miles in area and extends from the eastern portions of Santa Monica Mountains, and Simi Hills, and Santa Susana Mountains to the San Gabriel Mountains in the west. The Los Angeles River Watershed encompasses and is shaped by the path of the Los Angeles River, which flows from its headwaters in the mountains eastward to the northern corner of Griffith Park where

<sup>&</sup>lt;sup>1</sup> Source: City of Los Angeles, Zone Information and Map Access System (ZIMAS) at http://zimas.lacity.org/

<sup>&</sup>lt;sup>2</sup> Source: City of Los Angeles, Zone Information and Map Access System (ZIMAS) at http://zimas.lacity.org/ and City of Los Angeles Municipal Code, Chapter I (Planning and Zoning Code) at

http://www.amlegal.com/nxt/gateway.dll?f=templates&fn=default.htm&vid=amlegal:lapz\_ca

<sup>&</sup>lt;sup>3</sup> Source: National Park Service, National Historic Landmark Program – Angelus Temple at http://tps.cr.nps.gov/nhl/detail.cfm?ResourceId=2136&ResourceType=Building

<sup>&</sup>lt;sup>4</sup> Source: City of Los Angeles Transportation Element, Highways and Freeways, Metro Subarea, Map A5

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the channel turns southward through the Glendale Narrows before it flows across the coastal plain toward Long Beach.<sup>5</sup>

According to the Federal Emergency Management Agency (FEMA), the Lake is designated as a Special Flood Hazard Area which is subject to inundation by a 100-year flood (one percent annual chance flood). The 100-year flood is a flood that has a one percent chance of being equaled or exceeded in any given year. The Park and other areas surrounding the Lake are not designated as being within this flood zone.<sup>6</sup>

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<sup>&</sup>lt;sup>5</sup> Source: City of Los Angeles, Department of Public Works, Watershed Management – Los Angeles River Watershed at http://ladpw.org/wmd/watershed/LA/ <sup>6</sup> Source: FEMA, Flood Insurance Rate Map No. 06037C1610F, September 26, 2008 at

Source: FEMA, Flood Insurance Rate Map No. 06037C1610F, September 26, 2008 at
 http://msc.fema.gov/webapp/wcs/stores/servlet/FemaWelcomeView?storeId=10001&catalogId=10001&langId=-1

#### IV. ENVIRONMENTAL EFFECTS/INITIAL STUDY CHECKLIST

This section documents the screening process used to identify and focus upon environmental impacts that could result from the proposed project. The Initial Study Checklist below follows closely the form prepared by the Governor's Office of Planning and Research and was used in conjunction with the City's *CEQA Thresholds Guide* and other sources to screen and focus upon potential environmental impacts resulting from this project. In addition, the amendments proposed in April 2009 to the CEQA Guidelines, as they apply to the Initial Study Checklist, have been inserted into this document. Impacts are separated into the following categories:

- <u>No Impact.</u> This category applies when a project would not create an impact in the specific environmental issue area. A "No Impact" finding does not require an explanation when the finding is adequately supported by the cited information sources (e.g., exposure to a tsunami is clearly not a risk for projects not near the coast). A finding of "No Impact" is explained where the finding is based on project-specific factors, as well as general standards (e.g., the project will not expose sensitive receptors to pollutants, based on a project-specific screening analysis).
- <u>Less Than Significant Impact.</u> This category is identified when the project would result in impacts below the threshold of significance, and would therefore be less than significant impacts.
- <u>Potentially Significant Unless Mitigation Incorporated.</u> This category is identified when the project would have a substantial adverse impact on the environment but could be reduced to a less than significant level with incorporation of mitigation measure(s).
- <u>Potentially Significant Impact.</u> This category is applicable if there is substantial evidence that a
  significant adverse effect might occur, and no feasible mitigation measures are foreseen to reduce
  impacts to a less than significant level. If there are one or more "Potentially Significant Impact"
  entries when the determination is made, an EIR is required.

Sources of information that adequately support these findings are referenced following each question. All sources so referenced are available for review at the offices of the Bureau of Engineering, 1149 South Broadway, Suite 600, Los Angeles, California 90015. Please call Maria Martin at (213) 485-5753 for an appointment.

Issues	Potentially Significant Impact	Potentially Signif. Unless Mitigation Incorporated	Less Than Significant Impact	No Impact
1. AESTHETICS – Would the project:				
a) Have a substantial adverse effect on a scenic vista?			$\boxtimes$	
<ul> <li>Reference: L.A. CEQA Thresholds Guide (Sections A.1 and A.2), and Silve Elysian Valley Community Plan</li> <li>Comment: A scenic vista generally provides focal views of objects, setting interest; or panoramic views of large geographic areas of scenic quality vantage point. A significant impact may occur if the proposed project in visual elements within a field of view containing a scenic vista or substate a scenic vista.</li> </ul>	s, or feat , primari troduced	tures of volumes of vo	visual a given patible	
The Park is located within a dense urban setting approximately 0.1 mile Boulevard commercial corridor. No scenic views of the Santa Monica No topographic features are currently available in the project area due to the development along Sunset Boulevard. Views of the historic Angelus Tenorth of the project site are available from the project site. Views of the Angeles skyline are available from the project site viewing south and so proposed project would consist of the rehabilitation of the Lake and worstructures that would substantially impact views of Angelus Temple. The project would result in less than significant impacts related to scenic visuanalysis of this issue is required.	Mountain ne existir emple loc Downto outheast. uld not conerefore,	s or other orange cated dir wn Los Howeve construct the prop	er ectly er, the any	
<ul> <li>b) Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?</li> <li>Reference: California Scenic Highway Mapping System, L.A. CEQA Thres A.1 and A.2) and Silver Lake-Echo Park-Elysian Valley Community Pla Comment: A significant impact may occur where scenic resources within a would be damaged or removed as a result of the proposed project.</li> <li>The nearest designated state scenic highway to the project site is Rout</li> </ul>	an a state so e 2, whic	cenic hiç	ghway	
approximately ten miles north of the project site. No scenic state highways the project site or vicinity. In addition, the proposed project would not descenic resources or scenic resources located on a state scenic highways proposed project would result in no impact related to scenic resources, this issue is required.	amage o	or remov fore, the	e any	
<ul> <li>c) Substantially degrade the existing visual character or quality of the site and its surroundings?</li> <li>Reference: L.A. CEQA Thresholds Guide (Sections A.1 and A.2)</li> <li>Comment: A significant impact may occur if the proposed project introduc elements to the project site or visual elements that would be incompatible the area surrounding the project site.</li> </ul>				
The proposed project would consist of the rehabilitation of the project sintroduce new land uses or structures to the project site. The proposed introduce visual elements to the project site that would be incompatible the project area. However, because the project site is a City-designate	project with the	would no	ot er of	

Issues	Potentially Significant Impact	Potentially Signif. Unless Mitigation Incorporated	Less Than Significant Impact	No Impact
some character-defining features are proposed that may alter the visu project site, this issue will require further analysis.	al charac	ter of the	)	
d) Create a new source of substantial light or glare that would adversely affect day or nighttime views in the area? Reference: L.A. CEQA Thresholds Guide (Section A.4) Comment: A significant impact would occur if the proposed project cause in ambient illumination levels beyond the property line or caused new light-sensitive land uses such as residential, some commercial and insequire minimum illumination for proper function, and natural areas.	ighting to	spill-ove	er onto	
The proposed project may replace several of the existing light poles at the Lake edge. However, these new sources or light would have simil existing lighting and would not be a source of glare. In addition, the new operated in compliance with applicable Municipal Code lighting require be located directly adjacent to any light- sensitive land uses. Construct potentially be used as necessary on a temporary basis and would be a Code and Standard Specifications designed to minimize impacts (e.g. and directed toward the construction, away from residences). Therefore would result in less than significant impacts related to light and glare. this issue is required.	ar lighting will lighting will light in the contraction lighting overned it would be re, the pr	g levels a g would nd would ng may by Muni- be shield oposed	as the be not not cipal led project	
2. AGRICULTURE AND FOREST RESOURCES – Would the project: <ul> <li>a) Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?</li> <li>Reference: California Department of Conservation - Division of Land Resof Los Angeles General Plan Conservation Element, Zone Information (ZIMAS)</li> <li>Comment: A significant impact may occur if the proposed project were conversion of state-designated agricultural land from agricultural use to</li> </ul>	& Map A o result ii	ccess S n the	ystem	
No prime or unique farmland, or farmland of statewide importance, existance. Angeles. The project site is not located on or near any property zone for agricultural uses. Therefore, the proposed project would result in reconversion of agricultural lands. No further analysis of this issue is reconversion.	or other	wise inte	nded	
<ul> <li>b) Conflict with existing zoning for agricultural use, or a Williamson Act contract?</li> <li>Reference: California Department of Conservation - Division of Land Res Los Angeles General Plan Conservation Element, Zone Information &amp; (ZIMAS)</li> <li>Comment: A significant impact may occur if the proposed project were to of land zoned for agricultural use, or indicated under a Williamson Act agricultural use to a non-agricultural use.</li> </ul>	Map Acc	ess Syst	tem	
No land on or near the project site is zoned for or contains agricultural Angeles does not participate in the Williamson Act. Therefore, there a				

Issues	Potentially Significant Impact	Potentially Signif. Unless Mitigation Incorporated	Less Than Significant Impact	No Impact
properties in the City of Los Angeles. The proposed project would resu to the conversion of agricultural lands. No further analysis of this issue			elated	
c) Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220(g)) or timberland (as defined by Public Resources Code section 4526)? Reference: California Department of Conservation - Division of Land Reso Los Angeles General Plan Conservation Element, Zone Information & I (ZIMAS)				
Comment: A significant impact may occur if a project results in a conflict w causes rezoning of forest land or timberland.	vith existi	ing zonir	ng, or	
No land on or near the project site is zoned for or contains forest or time. Therefore, the proposed project would result in no impacts related to coor timberland zoning. No further analysis of this issue is required.			t land	
<ul> <li>d) Result in the loss of forest land or conversion of forest land to non-forest use?</li> <li>Reference: California Department of Conservation - Division of Land Reso Los Angeles General Plan Conservation Element, Zone Information &amp; I (ZIMAS)</li> <li>Comment: A significant impact may occur if a project results in the convertion.</li> </ul>	Мар Асс	ess Syst	tem	
another non-forest land use.  No land on or near the project site contains or is zoned for forest land uproposed project would not convert forest land to a non-forest land use would result in no impacts related to the conversion of forest land. No fissue is required.	. The pr	oposed	project	
<ul> <li>e) Involve other changes in the existing environment which, due to their location or nature, could result in conversion of farmland, to non-agricultural use or conversion of forest land to non-forest use?     Reference: California Department of Conservation - Division of Land Reso Los Angeles General Plan Conservation Element, Zone Information &amp; I (ZIMAS)</li> <li>Comment: A significant impact may occur if a project results in the conver another non-agricultural use or forest land to a non-forest land use.</li> </ul>	Мар Асс	ess Syst	tem	
See Comments for 2 (a) and 2 (d) above. As described, no impacts to would occur.	farm land	d or fore:	st uses	
3. AIR QUALITY – Would the project:				
a) Conflict with or obstruct implementation of the applicable air quality plan?	$\bowtie$			
Reference: L.A. CEQA Thresholds Guide (Sections B1 and B2); City of Lo Plan Air Quality Element, Silver Lake-Echo Park-Elysian Valley Communit Management Plan	y Plan; a	and <i>Air</i> G		
Comment: The project site is located within the South Coast Air Basin whi jurisdiction of the South Coast Air Quality Management District (SCAQN)			MD is	

Issues	Potentially Significant Impact	Potentially Signif. Unless Mitigation Incorporated	Less Than Significant Impact	No Impact
the air pollution control district responsible for the Air Quality Management which is a comprehensive air pollution control program for attaining state air quality standards. As part of its General Plan, the City adopted an A contains policies and goals for attaining state and federal air quality state simultaneously facilitating local economic growth and includes impleme local programs contained in the AQMP. A significant impact would occur not consistent with the AQMP or the City's General Plan.	e and fe ir Quality ndards, v ntation s	deral am y Eleme while trategies	nbient nt that s for	
The Silver Lake-Echo Park-Elysian Valley Community Plan recognizes availability of adequate public facilities. The proposed project would se intended land uses and would not include regional employment or popuration objectives of the proposed project are to meet regulatory requirem water quality. Existing uses on and surrounding the project site would reproduce the proposed project may potentially result in a violation of air during the construction phase due to the number of construction truck to item 3(b) below. Therefore, the proposed project may result in potential related to conflicts with air quality plans. This issue will require further a	rve existilation grands and the character of the character of quality strips, as dilly signifi	ing and owth. The improvement of	he e ds d in	
<ul> <li>b) Violate any air quality standard or contribute substantially to an existing or projected air quality violation?</li> <li>Reference: L.A. CEQA Thresholds Guide (Sections B1 and B2) and SCAQMD Thresholds</li> <li>Comment: A significant impact may occur if the proposed project violated a quality standard. The SCAQMD has set thresholds of significance for r (ROG), nitrogen oxides (NOx), carbon monoxide (CO), sulfur dioxide (Smatter (PM10) emissions resulting from construction and operation in the Basin.</li> </ul>	eactive $60_2$ ), and	organic ( particul	gases ate	
The construction of the proposed project would involve the removal of s materials from the Lake bed. It is anticipated that approximately 50,000 sediment would be exported from the project site. As a result, a large r truck trips would be required to properly remove the sediment from the an increase in diesel emissions. The daily construction emissions of the may potentially exceed SCAQMD significance thresholds. The propose alter the operations of the Park and would not result in an increase in troperational phase. As such, no change in emissions is anticipated as a and maintenance.	O cubic y number o project s e propos ed projec affic trips	ards of of heavy- site, resu sed proje of would of during	-duty Ilting in ect not the	
Contractors would be required to follow all applicable SCAQMD rules are including AQMD Rule 403 (Fugitive Dust) and 431 (Diesel Equipment), impacts. Contractors, for example, would water dusty areas and minimize from unpaved dirt areas to paved roads.	to minim	ize air q		
Due to the large number of heavy-duty truck trips anticipated to be requ construction phase of the proposed project, impacts related to the poter quality standard may be potentially significant. This issue will require fu	ntial viola	ition of a	ın air	
<ul> <li>c) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is in non-attainment under an applicable federal or state ambient air quality standard (including releasing</li> </ul>				

Issues	Potentially Significant Impact	Potentially Signif. Unless Mitigation Incorporated	Less Than Significant Impact	No Impact
emissions that exceed quantitative thresholds for ozone precursors)?  Reference: L.A. CEQA Thresholds Guide (Sections B1 and B2), 2006  Maps from http://www.arb.ca.gov/desig/adm/adm.htm#state	State Ar	ea Desi	gnation	

Comment: A significant impact would occur if the proposed project resulted in a cumulatively considerable net increase of a criteria pollutant for which the South Coast Air Basin exceeds federal and state ambient air quality standards and has been designated as an area of non-attainment by the U.S. Environmental Protection Agency (USEPA) and/or California Air Resources Board. The South Coast Air Basin is a non-attainment area for ozone, fine particulate matter (PM10), and carbon monoxide (federal only).

As indicated in item 3(b) above, construction emissions of the proposed project may

	potentially exceed the SCAQMD's thresholds of significance for criteria pollutants. Although the construction of the proposed project would be considered temporary in duration (approximately 25 months), the proposed project may result in potentially significant impacts related to a net increase of criteria pollutants. This issue will require further analysis.	
d)	Expose sensitive receptors to substantial pollutant concentrations?	
	Reference: <i>L.A. CEQA Thresholds Guide</i> (Sections B1, B2, and B3)  Comment: A significant impact would occur if construction or operation of the proposed project generated pollutant concentrations to a degree that would significantly affect sensitive receptors.	
	As discussed above, the proposed project may potentially result in substantial pollutant concentrations during the construction phase. The project site is surrounded by sensitive receptors including multi-family residential uses and churches, which would include children and elderly persons who may be particularly susceptible to the effects of a temporary increase in air quality pollutant concentrations. The heavy-duty construction trucks required to haul dirt during the construction of the proposed project are major emitters of the toxic air contaminant Diesel Particulate Matter (DPM). An analysis will be prepared to determine the potential significance of DPM exposure. Therefore, the proposed project may result in potentially significant impacts related to the exposure of sensitive receptors to substantial pollutant concentrations. This issue will require further analysis.	
e)	Create objectionable odors affecting a substantial number of people?	
	Reference: L.A. CEQA Thresholds Guide (Sections B1 and B2) Comment: A significant impact would occur if the project created objectionable odors during construction or operation that would affect a substantial number of people.	
	During construction, sources of odor are diesel emissions from construction equipment and volatile organic compounds from sealant applications or paving activities. However, these odors would be temporary and localized. Nonetheless, applicable best management practices such as those in SCAQMD Rule 431 (Diesel Equipment) would, in addition to minimizing air quality impacts, also help minimize potential construction odors.	

The construction of the proposed project would also involve the removal of sediment and other materials from the Lake bed. Once these materials are removed, they would be

FUBLIC WORKS - BUREAU OF ENGINEERING				
Issues	Potentially Significant Impact	Potentially Signif. Unless Mitigation Incorporated	Less Than Significant Impact	No Impact
required to be piled in the staging areas established on the project s period of approximately one to two months. During the drying activit be emitted from the sediment piles due to decomposition of organic impacting the sensitive receptors in the project area.  The Lake has an aeration and circulation system that would assist in potential for excessive amounts of organic material in the sediment. anticipated to be created by the proposed project during the operation proposed project may result in potentially significant impacts related objectionable odors during the construction phase. This issue will re-	ies, varionaterials materials minimiz Odors a mal phas to creati	ous odor s tempo  zing the are not se. The ing	rs may orarily	
<ul> <li>4. BIOLOGICAL RESOURCES – Would the project: <ul> <li>a) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?</li> <li>Reference: City of Los Angeles General Plan, City of Los Angeles General Element; L.A. CEQA Thresholds Guide (Section C); and Echo Park Lak Wildlife Relocation Plan</li> </ul> </li> <li>Comment: A significant impact may occur if the proposed project would rer for any species identified or designated as a candidate, sensitive, or species local or regional plans, policies, or regulation, or by the state or federal recited.</li> </ul>	e Rehab move or ecial stat	oilitation modify h tus spec	Project nabitat ies in	
The project site consists of a 24-acre park, which includes a 13-acre lake project site includes areas of grass, shrubs and trees. As such, the project of provide habitat for sensitive species. The proposed project would include and habitat improvements including reconditioning the existing lotus become wetland areas, improving lake edge treatments, and possibly creating so habitat for fish and birds. In addition, selected trees that currently exist would require removal and/or replacement. A tree replacement plan has the proposed project.	ect site de in-lakeds, creat tructures on the p	may pote e vegeta ing new s to impre roject sit	entially ation ove	
A wildlife impact and relocation study has been completed for the propospecies of fish, turtles and amphibians would be relocated during the coaccordance with the California Department of Fish and Game (CDFG). would be organized to avoid other species including the great blue hero local resident birds, including ducks, coots, and songbirds; and various bats. If these species or sensitive species are encountered during the mitigation measure would be required to be implemented to ensure that actions are taken in compliance with applicable local, state, or federal rerequirements. Therefore, the proposed project may result in potentially related to sensitive species. This issue will require further analysis.	nstruction Construction; other mamma constructions the apprending of the apprending	on phase ction ac migrator ls, including phase ropriate as and	e in tivities ry and ding se,	
b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by the California Department of Fish and Game or US Fish and Wildlife Service? Reference: City of Los Angeles General Plan Conservation Element, L.A.	☐ CEQA T	∑ Threshold	☐ ds	

FUBLIC WORKS - BUREAU OF ENGINEERING				
Issues	Potentially Significant Impact	Potentially Signif. Unless Mitigation Incorporated	Less Than Significant Impact	No Impact
Guide (Section C); and Echo Park Lake Rehabilitation Project Permittir Comment: A significant impact may occur if riparian habitat or any other sen were to be adversely modified.				
See comment for 4 (a). On-going coordination with the U.S. Army Corp (USACE) will determine if these agencies possess jurisdiction within the presence of the water body, wetlands and riparian resources on-site. On known to have jurisdiction over portions of the project site. Riparian are waters of the U.S., waters of the state, and special-status species and reconsidered sensitive biological resources that fall under the jurisdiction agencies. Coordination, the approval of various permits, and implement measure would reduce any effects on riparian habitats, if they are enconstruction phase. Therefore, the proposed project may result in pote impacts related to effects on riparian habitats. This issue will require further than the proposed project may result in pote impacts related to effects on riparian habitats. This issue will require further than the proposed project may result in pote impacts.	e project DFG is c eas, wetlanatural co of these tation of untered c ntially sig	site due currently ands, otlommunit regulato mitigation during the gnificant	her ties are ory on	
c) Have a substantial adverse effect on federally protected wetlands as defined by Section 404 of the Clean Water Act (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?  Reference: City of Los Angeles General Plan Conservation Element, L.A. Guide (Section C), and Echo Park Lake Rehabilitation Project Permitting Formatting Comment: A significant impact may occur if federally protected wetlands, a 404 of the Clean Water Act, would be modified or removed.	Requiren	nents		
The Lake is currently designated by the U.S. Fish and Wildlife Service as In addition, a portion of the Lake is also identified as a freshwater emery Lake discharges to a storm drain, which is a tributary to Los Angeles Ri Clean Water Act requires a permit from USACE for the discharge of dresinto navigable waters, or waters of the United States. USACE regulation waters of the U.S. to include waters that may be used in interstate comes sloughs that could affect interstate commerce, tributaries to waters of the seas. Approximately 10,000 cubic yards of fill is anticipated to be requiliner and an amount of fill that is to be determined would be required for wetlands; therefore, a permit would be required for the discharge of this the U.S. However, the Lake may or may not be considered within USA on the outcome of jurisdictional determinations of the Los Angeles Rive undertaken.	gent wet ver. Sec dged or ns broad merce, w e U.S., a red to re the cons materia CE juriso	land. The tion 404 fill mate ally define the terminate and territipair the structed linto walliction be	ne 4 of the rial e , and torial Lake	
The proposed project would include construction of treatment wetlands, wildlife value, as well as the removal of the existing wetland islands in the measures may be required to reduce potential effects on any protected the Lake. Therefore, the proposed project may result in potentially sign to effects on wetlands. This issue will require further analysis.	ne Lake. wetland	Mitigati areas w	ion rithin	
d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites? Reference: L.A. CEQA Thresholds Guide (Section C) and Echo Park Lake	 Rehabil		 Project	

Permitting Requirements

Comment: A significant impact may occur if the proposed project interfered or removed access to

Issues	Potentially Significant Impact	Potentially Signif. Unless Mitigation Incorporated	Less Than Significant Impact	No Impact
a migratory wildlife corridor or impeded the use of native wildlife nursery. The project site includes a lake, areas of grass, shrubs and trees. As si may potentially provide habitat for native resident or migratory fish or wi removals are anticipated with the proposed project, which may potential suitable for wildlife movement or migration. The CDFG maintains jurisd state protected species. All birds and active bird nests are protected un Migratory Bird Treaty Act of 1918 and the California Fish and Game Co-European starlings, English house sparrows, and rock doves). Coordin going related to the native fish and wildlife inhabiting the lake, as well as surrounding the lake. Mitigation measures may be required to reduce p effects on any wildlife movement or migration. Therefore, the proposed potentially significant impacts on wildlife movement or migration. This is analysis.	uch, the Idlife specially impact iction ovoider the fide (excestion with sensiting otential approject of the Idea (excestion with sense in the Idea (excestion) with the Idea (excestion) approject of the Idea (excestion) approved the I	ecies. Ti thabitat er native federal pt for h CDFG birds adverse may resu	ree : e and is on- ult in	
e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?  Reference: L.A. CEQA Thresholds Guide (Section C)  Comment: A significant impact may occur if the proposed project would commend was inconsistent with local regulations pertaining to biological resources		impact t	hat	
The proposed project would require the removal and replacement of tre within the project site, particularly those trees located directly adjacent t not anticipated that any protected trees, such as oak trees, would be ret the proposed project. However, mitigation measures may be required to proposed project removes and replaces the trees in compliance with the ordinance and other applicable City policies. Therefore, the proposed protentially significant impacts related to tree preservation. This issue wanalysis.	o the Lal moved a o ensure e City's to roject m	ke edge. s a result that the ree prote ay result	. It is It of ection t in	
f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan? Reference: City of Los Angeles General Plan, City of Los Angeles Genera Element, and L.A. CEQA Thresholds Guide (Section C) Comment: A significant impact may occur if the proposed project would be adopted habitat conservation plans of the cited type.				
The project site is not currently located in an adopted Habitat Concommunity Conservation Plan area, or any other local, regional, or state plan area. Therefore, the proposed project would result in no impacts re habitat conservation plans. No further analysis of this issue is required.	habitat o	conserva	ation	
CULTURAL RESOURCES – Would the project:  a) Cause a substantial adverse change in the significance of a historical resource as defined in California Code of Regulations Section 15064.5?  Reference: Echo Park Cultural Resources and Landscape Treatment Plan Thresholds Guide (Section D.3), City of Los Angeles Cultural Heritage Cultural Monuments (HCM) Report by Planning Community", Silver La Valley Community Plan  Comment: A significant impact may result if the proposed project caused a	Commis ke-Echo	sion "His <i>Park-El</i>	lysian	

5.

Issues	Potentially Significant Impact	Potentially Signif. Unless Mitigation Incorporated	Less Than Significant Impact	No Impact
change to the significance of a historical resource. In 2006, the City designated the Park as HCM No. 836. Features contr designation were the Spanish Colonial Revival-style architecture in the landscaping, and defining characteristics including the Lake itself, the for paths, boathouse, recreation building, lotus beds, and the Park's unusured or potentially historic properties are located within or adjacent to the properties. The boathouse located determined to be eligible for listing in the National Register of Historic Pacereation Center building located on the south side of Bellevue Avenuto be a contributor to a National Register of Historic Places district. Conferct some of the character-defining features or alter views of the Lake measures may be required to ensure that no historical resources are active proposed project. As such, the proposed project may result in pote impacts related to historical resources. Further analysis of this issue is	Park, En potbridge al trees. If you have a laces. The was all astructions; therefool to be a laced and the sign of the sinterest of the sign of the sign of the sign of the sign of the si	glish-sty e, perime Eight hi , includin project si he Echo lso deter n activitie re, mitiga impacted gnificant	ter storic g te was Park mined es may ation	
<ul> <li>b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to California Code of Regulations Section 15064.5?</li> <li>Reference: Echo Park Cultural Resources and Landscape Treatment Plan Thresholds Guide (Section D.3), City of Los Angeles Cultural Heritage Cultural Monuments (HCM) Report by Planning Community", Silver La Valley Community Plan</li> <li>Comment: A significant impact may occur if the proposed project were to adverse change in the significance of an archaeological resource which Guidelines section cited above.</li> </ul>	Commis ake-Echo cause a	sion "His <i>Park-El</i> substant	<i>ysian</i> ial	
The cultural resources report prepared for the proposed project found the archaeological resource was previously recorded approximately 0.5 mile. However, no archaeological resources were previously recorded within During the cultural resources survey of the project site, no cultural mater during the survey. The survey conducted did not reveal any surface evarchaeological resources within the project site. However, unknown are may be discovered during the construction phase. Mitigation measures ensure that no archaeological resources are adversely impacted by the Therefore, the proposed project may result in potentially significant imparesources. Further analysis of this issue is required.	e from the the projection of the projection of the propose the front the propose the front the propose	ne project ect site it re identif f gical resc pe require ed projec	self. ied ources ed to t.	
c) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?  Reference: Echo Park Cultural Resources and Landscape Treatment Plan Thresholds Guide (Section D.1)  Comment: A significant impact may occur if grading or excavation activities proposed project would disturb unique paleontological resources or unit	s associ que geol	ated with ogic feat		
The cultural resources report prepared for the proposed project did not paleontological resources within the project site. However, should bedrimportant paleontological deposits be encountered during construction, standard Department of Public Works construction practices, construction temporarily diverted from the vicinity of the find until a qualified resource evaluate the find and make recommendations, as needed, to protect the	ock or a in accor on would e special	ny poten dance w d be ist could	ith	

Issues	Potentially Significant Impact	Potentially Signif. Unless Mitigation Incorporated	Less Than Significant Impact	No Impact
impact. Therefore, the proposed project would result in less than signifi paleontological resources. No further analysis of this issue is required.	cant imp	acts on		
<ul> <li>d) Disturb any human remains, including those interred outside of formal cemeteries?</li> <li>Reference: Standard Specification for Public Works Construction, L.A. CE (Section D.2)</li> <li>Comment: A significant impact may occur if grading or excavation activities proposed project would disturb interred human remains.</li> </ul>				
No known burial sites are located within the project site and none are a The Native American Heritage Commission (NAHC) conducted a check File for the project site. The results indicated no sacred lands had beer documented for the project site. However, the absence of specific site is Sacred Lands File does not preclude the possibility of cultural resource area. Should human remains be encountered during construction, per construction practice, work would be temporarily diverted from the vicin coroner is notified in accordance with the Health and Safety Code Secti remains were determined to be of Native American descent, the corone to notify the Native American Heritage Commission (NAHC). The NAH person(s) thought to be the Most Likely Descendent, who would then he appropriate course of action. Therefore, the proposed project would resignificant impacts to the disturbance of human remains. No further an required.	of its San previous of previous within standard ity of the fon 7050 or would C would elp determent in less than the sult in less tha	acred Lausly on in the the Projet public version in the	ect works iil the e hours the	
<ul> <li>6. GEOLOGY AND SOILS – Would the project:</li> <li>a) Expose people or structures to potential substantial adverse effects, including the risk of loss, injury, or death involving:</li> <li>i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault?</li> <li>Reference: California Department of Conservation Publication 42; L.A. Guide (Section E.1), City of Los Angeles General Plan Safety Eleme Comment: A significant impact may occur if the proposed project were designated Alquist-Priolo Zone or other designated fault zone and a practices were not followed.</li> </ul>	ent located	within a	state-	
The project site is not located within a State of California Earthquake known as an Alquist-Priolo Special Study Zone). As is most of south project site is located in a seismically active area. However, no active cross the project site. The closest active fault is the Hollywood Fault approximately 2.6 miles north and northwest of the project site. The an earthquake along this fault is 5.8 through 6.5. Applicable building would be implemented. As part of building code (applicable California Seismic Design Criteria) and BOE Standard Project Specifications, of are prescribed that enable safe and efficient project implementation is seismic movement. In accordance with standard practices, site-specifications that focus on these potential hazards are perproject design studies and applicable recommendations incorporated	ern Cali e faults; , which i probable code re a Buildin onstruct within and ific geote erformed	fornia, the are known is located in magnit quiremed ion mea eas subjectnical as part	vn to d ude of nts sures ect to and of	

Issues	Potentially Significant Impact	Potentially Signif. Unless Mitigation Incorporated	Less Than Significant Impact	No Impact
proposed project would result in less than significant impacts related further analysis of this issue is required.	to fault i	upture.	No	
ii) Strong seismic ground shaking?				
Reference: L.A. CEQA Thresholds Guide (Section E.1) Comment: A significant impact may occur if the proposed project design building code requirements intended to protect people from hazards seismic ground shaking.				
See comment 6(a)(i).				
iii) Seismic-related ground failure, including liquefaction?				
Reference: California Department of Conservation Seismic Hazards Ma Quadrangle; L.A. CEQA Thresholds Guide (Section E.1), City of Los Safety Element Comment: A significant impact may occur if the proposed project would identified as having a high risk of liquefaction and appropriate design within such designated areas were not incorporated into the project.	s <i>Angele</i>	s <i>Gener</i> ated in a	n area	
The entire project site is located in an area mapped as potentially liquefiable. Applicable building code requirements would be implemented. As part of building code (applicable California Building Code Seismic Design Criteria) and BOE Standard Project Specifications, construction measures are prescribed that enable safe and efficient project implementation within areas subject to seismic movement. In accordance with standard practices, site-specific geotechnical and geological investigations that focus on these potential hazards are performed as part of project design studies and applicable recommendations incorporated. Additionally, no habitable structures would be constructed as part of this project. Therefore, the proposed project would result in less than significant impacts related to liquefaction. No further analysis of this issue is required.				
iv) Landslides?				
Reference: City of Los Angeles General Plan (Landslide Inventory and City of Los Angeles Map); L.A. CEQA Thresholds Guide (Section E. Comment: A significant impact may occur if the proposed project would identified as having a high risk of landslides.	1);			
The project site is generally designated as being in a hillside area. Handslide areas are identified on the project site. Additionally, the hill site are highly developed with structures and landslides are not cons hazard at the project site. Therefore, the proposed project would resignificant impacts related to landslides. No further analysis of this is	sides ne idered to ult in les	ar the po be a po s than	roject	
b) Result in substantial soil erosion or the loss of topsoil?			$\boxtimes$	
Reference: City of Los Angeles General Plan Safety Element; L.A. CEQA	 Thresho	lds Guid	le 🗀	
(Section E.2) Comment: A significant impact may occur if the proposed project were to e the erosion effects of wind or water for a prolonged period of time.	xpose la	rge area	as to	

Issues	Potentially Significant Impact	Potentially Signif. Unless Mitigation Incorporated	Less Than Significant Impact	No Impact
The project site is not located in a high wind area. Construction of the presult in ground surface disruption activities, such as site excavation, se drying. These activities could result in the potential for erosion to occur However, soil exposure would be temporary and short-term in nature ar Department of Building and Safety erosion control techniques would lim Therefore, the proposed project would result in less than significant impor loss of topsoil. No further analysis of this issue is required.	ediment r at the pr nd applic lit potent	emoval roject sit able ial erosid	and e. on.	
c) Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse? Reference: L.A. CEQA Thresholds Guide (Section C1), City of Los Angele (Landslide Inventory and Hillside Areas in the City of Los Angeles Map) Comment: A significant impact may occur if the proposed project were bui without proper site preparation or design features to provide adequate for buildings, thus posing a hazard to life and property.	) It in an u	nstable		
In accordance with standard practice, a geotechnical evaluation will be prescribe methods, techniques, and specifications for: site preparation, undocumented fill and/or alluvial soils, fill placement on sloping ground, placement and compactions, temporary excavations, permanent slopes expansive soils, and treatment of corrosive soils. Design and construction project would conform to recommendations in the geotechnical evaluation (a) (iii).	treatmer fill chara , treatme ion of the	nt of acteristic ent of e propos	s, fill ed	
d) Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial risks to life or property? Reference: Uniform Building Code Comment: Bentonite would be added to the Lake bed during construction, affect the expansiveness of the Lake bed soil. However, the proposed property construct any buildings on this soil. The proposed project would construct any buildings on this soil. The proposed project would construct any buildings on this soil. This would not result in a or property. Compliance with approved best management practices wo related to expansive soils. Therefore, the proposed project would result impacts related to expansive soils. No further analysis of this issue is re-	oroject w ruct a be substant uld preve t in less t	rould not rm on th tial risk to ent any o	t e Lake o life effects	
e) Have soils incapable of adequately supporting the use of septic tanks or alternative wastewater disposal systems where sewers are not available for the disposal of wastewater?  Reference: Pre-Design Report-Echo Park Lake Rehabilitation Project Comment: A significant impact may occur if the proposed project were built incapable of adequately supporting the use of septic tanks or alternative system, and such a system were proposed.				
No septic tanks or alternative wastewater disposal systems are proposed proposed project. The installation of hydrodynamic separators would as debris that may be present in storm water runoff flowing into the Lake. the Lake bed and edge are anticipated to be capable of supporting this proposed project. Therefore, the proposed project would result in no iminadequate soil support the use of septic tanks or alternative wastewater	ssist in ro Howeve element npacts re	emoving r, the so of the lated to	the il of	

	Issues	Potentially Significant Impact	Potentially Signif. Unless Mitigation Incorporated	Less Than Significant Impact	No Impact
	No further analysis of this issue is required.				
7.	a) GREENHOUSE GAS EMISSIONS – Would the project:  a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?  Reference: Office of Planning and Research  Comment: A significant impact may occur if the proposed project would ge amount of greenhouse gas emissions.	nerate a	 a substar	ntial	
	The proposed project would include a large number of heavy-duty const to the required hauling of Lake bed sediment during the construction phyproposed project would generate greenhouse gas (GHG) emissions during the operations of the Park and Lake would not be altered by the Therefore, a net increase in GHG emissions during the operational phase detailed analysis is required to assess the proposed project's contribution of the construction phase. The proposed project may result in pote impacts related to the GHG emissions. Further analysis of this issue is	ase. As ring the of the office office of the	such, the construct sed project anticipa IG emiss gnificant	ne tion ect. ted. A sions	
	<ul> <li>b) Conflict with any applicable plan, policy or regulation of an agency adopted for the purpose of reducing the emissions of greenhouse gases? Reference: Office of Planning and Research Comment: A significant impact may occur if the proposed project would co applicable plan, policy, or regulation adopted to reduce greenhouse gas</li> </ul>				
	See comment for 7 (a). The proposed project's compliance with guidan Office of Planning and Research, the California Air Pollution Control Off SCAQMD, and State Assembly Bill 32 will require further detailed analyspotentially significant impacts are anticipated related to conflicts with ap and regulations adopted for the purpose of reducing GHG emissions. Fissue is required.	icers As sis. The plicable	sociatior refore, plans, p	ı, olicies	
8.	a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?  Reference: L.A. CEQA Thresholds Guide (Sections F.1 & F.2), Envirostor, of Toxic Substance Control; and Geotracker, State Water Resources C Comment: Operation of the proposed facility would not routinely require tradisposal of significant quantities of hazardous materials, including, but resticides, or chemicals. Any chemicals or pesticides related to the uple landscaping at the project site would be stored in relatively small quantic containers and handled per manufacturer's instructions to protect the hemologies and the public.	ontrol Boansport, not limite keep of t ties in a	oard use, or d to oils the grass	, s and te	
	Construction activities would be short-term and limited in nature and matransport, storage, use or disposal of hazardous materials. No hazardous soils have been identified on the project site or would need to be export site. Examples of hazardous materials that may be handled include congroundwater, fuels, lubricating fluids, and solvents. These types of mat hazardous, and all storage, handling, and disposal of these materials and	eus or co ed from ntaminat erials ar	ntamina the projeted e not ac	ted ect utely	

Issues	Potentially Significant Impact	Potentially Signif. Unless Mitigation Incorporated	Less Than Significant Impact	No Impact
excavation, treatment, and/or disposal of contaminated groundwater would be conducted to the satisfaction of the applicable regulatory agencies, which could include the California Department of Toxic Substances Control (DTSC) and RWQCB. Investigations are currently on-going to determine if contaminated groundwater exists beneath the project site.				
In addition, three open leaking underground storage tank (LUST) clean-up sites are located within 0.25 mile of the project site and potentially up-gradient from the project site. These sites include Hollyway Cleaners at 1157 Echo Park Avenue, 76 Station #0779 at 1340 Glendale Boulevard, and Sunset Carwash at 2028 Sunset Boulevard. These sites are currently undergoing site assessment under the oversight of the Regional Water Quality Control Board for potential groundwater contamination. This issue will be further addressed in the EIR.				
b) Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment? Reference: L.A. CEQA Thresholds Guide (Sections F.1 & F.2), Envirostor, of Toxic Substance Control; and Geotracker, State Water Resources C Comment: See comment 7 (a) above.			rtment	
<ul> <li>c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?</li> <li>Reference: L.A. CEQA Thresholds Guide (Sections F.2), Envirostor, California Department of Toxic Substance Control; and Geotracker, State Water Resources Control Board</li> <li>Comment: A significant impact may occur if the proposed project were locamile of an existing or proposed school site and were projected to releas which pose a hazard beyond regulatory thresholds.</li> </ul>				
Logan Street Elementary School is located approximately 0.2 mile north of the project site at 1711 Montana Street. The proposed Central Region Elementary School #14 is scheduled to open in 2011 at 1018 Mohawk Street, approximately 0.2 mile west of the project site. No other existing or proposed schools are located within 0.25 mile of the project site. As discussed in 7 (a) above, a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials is not anticipated as a result of the proposed project. Therefore, the proposed project would result in less than significant impacts related to the emission of hazardous emissions or the handling of hazardous materials within 0.25 mile of an existing or proposed school. No further analysis of this issue is required.				
d) Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment? Reference: L.A. CEQA Thresholds Guide (Sections F.2); Envirostor, Califor Toxic Substance Control; and Geotracker, State Water Resources Control Comment: See comment 8 (a) above. The project site is not listed in the Section Control Board GeoTracker system, which includes leaking underground Spills, Leaks, Investigations, and Cleanups sites; or the DTSC's Environ System which includes CORTESE sites, or the Environmental Protection of regulated facilities. Therefore, the proposed project would result in new controls.	trol Boal tate Wa fuel tan Stor Data n Agenc	rd ter Reso k sites a a Manag cy's datal	urces nd ement base	

Issues	Potentially Significant Impact	Potentially Signif. Unless Mitigation Incorporated	Less Than Significant Impact	No Impact
project site being included on a list of hazardous materials. No further a required.	analysis	of this is	sue is	
e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard for people residing or working in the project area?  Reference: City of Los Angeles General Plan, L.A. CEQA Thresholds Guide Lake-Echo Park-Elysian Valley Community Plan; The Thomas Guide, I Street Guide  Comment: A significant impact may occur if the proposed project site was airport land use plan area, or within two miles of a public airport, and we hazard.	Los Ange	eles Cou within a	<i>nty</i> public	
The project site is not located within an airport land use plan area. The Pasadena Airport is located approximately ten miles northwest of the properties at airports are generally related with aircraft accidents, especial landing. Airport operation hazards include incompatible land uses, power wildlife hazards, and tall structures that can interfere with aircraft operation project would not construct any tall buildings or structures that would interport operations, resulting in a safety hazard. Therefore, the proposed properties are project to airport safety hazards. No further analysis of this	roject site ally during ver transi tions. The terfere we project we	e. Safety g take of mission I ne propo ith local ould resu	y if or ines, sed air ult in	
f) For a project within the vicinity of a private airstrip, would the project result in a safety hazard for people residing or working in the project area? Reference: L.A. CEQA Thresholds Guide (Section F.1), Silver Lake-Echa Community Plan; The Thomas Guide, Los Angeles County Street Guide Comment: The project site is not located within the vicinity of a private proposed project would result in no impacts related to private airstrip hazard this issue is required.	<i>le</i> airstrip.	Therefo	ore, the	
g) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan? Reference: L.A. CEQA Thresholds Guide (Section F.1); City of Los Angeles General Plan Safety Element Comment: A significant impact may occur if the proposed project were to with roadway operations used in conjunction with an emergency respor plan or would generate sufficient traffic to create traffic congestion that execution of such a plan.	nse plan	or evacu	uation	
The proposed project would not alter the operations of the Park and La adjacent street system. As applicable, any traffic detour plans during c address emergency response or emergency evacuation for implementa construction. Therefore, the proposed project would result in less than related to emergency response and emergency evacuation plans. No fissue is required.	onstructi ation duri significa	on woulding nt impac	d cts	
h) Expose people or structures to a significant risk of loss, injury or death involving wildland fires, including where wildlands are adjacent to urbanized areas or where residences are intermixed with wildlands?				

Issues	Potentially Significant Impact	Potentially Signif. Unless Mitigation Incorporated	Less Than Significant Impact	No Impact
Reference: City of Los Angeles General Plan Safety Element Comment: A significant impact may occur if the proposed project were loc and poses a significant fire hazard, which could affect persons or struct event of a fire.				
The project site is not located in or adjacent to a wildland area, wildland area as designated by the <i>City of Los Angeles General Plan Safety Eleptroposed project would result in no wildland fire hazards.</i> No further an required.	ment. Ti	herefore	, the	
9. HYDROLOGY AND WATER QUALITY — Would the project:				
a) Violate any water quality standards or waste discharge requirements?				
Reference: L.A. CEQA Thresholds Guide (Section G.2)  Comment: A significant impact may occur if the proposed project discharge meet the quality standards of agencies which regulate surface water que discharge into storm water drainage systems. For example, if a project with all applicable regulations with regard to surface water quality as go Water Resources Control Board. These regulations include compliance Urban Storm Water Mitigation Plan (SUSMP) requirements to reduce primpacts.	iality and were no everned le with the	I water t in comp by the St Standa	oliance ate rd	
The project's goals include improving water quality during the operation impacts to water quality due to construction activities would be regulate State Water Resources Control Board Water Quality Order No. 99-08-D Construction Permit). Under this permit, the City of Los Angeles would water pollution prevention plan and Best Management Construction Praimplemented to ensure no significant impacts to water quality occur dur However, due to the intensity of construction activities proposed with the to dewater the Lake, mitigation measures may be required to ensure the standards are addressed during the construction phase. The proposed potentially significant impacts related to violation of water quality standar construction. Further analysis of this issue is required.	d under DWQ (Ge impleme actices w ing cons e project at water project i	California eneral ent a stor ould be truction. and the quality may resu	a rm need	
b) Substantially deplete groundwater supplies or interfere substantially with groundwater recharge such that there would be a net deficit in aquifer volume or a lowering of the local groundwater table level (e.g., the production rate of pre-existing nearby wells would drop to a level which would not support existing land uses or planned uses for which permits have been granted)?				
Reference: L.A. CEQA Thresholds Guide (Sections G.2 and G.3) Comment: Groundwater is a major component of the water supply for man in the Los Angeles metropolitan area, and is also used by private indust limited number of private agricultural and domestic users. A project wou significant impact on groundwater supplies if it were to result in a demoi reduction of groundwater recharge capacity or change the potable wate it would reduce the ability of a water utility to use the groundwater basin supplies or storage of imported water, reduce the yields of adjacent well adversely change the rate or direction of groundwater flow.  The implementation of the parkland best management practices proposed.	tries, as all and norman strable revels so for publes or well	well as a ally have and sust sufficient ic water I fields, c	a a ained duthat	

Issues	Potentially Significant Impact	Potentially Signif. Unless Mitigation Incorporated	Less Than Significant Impact	No Impact
would promote groundwater recharge and infiltration with the use of ra swales, and the porous pavement system. Significant changes to the not anticipated as a result of the proposed project. The proposed projecthan significant impacts related to groundwater supplies. No further ar required.	groundwa ect would	ater supp I result ir	oly are	
c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, in a manner which would result in substantial erosion or siltation on- or off- site?				
Reference: L.A. CEQA Thresholds Guide (Sections G.1 and G2) Comment: A significant impact may occur if the proposed project resulted alteration of drainage patterns that resulted in a substantial increase in during construction or operation of the project.			on	
With the proposed project, the Lake will retain its function in the Los Ar as a storage basin for high volume flows. The Glendale Boulevard sto continue to function as currently operated with high storm flows diverte Lake. Dry season flows will be pumped from the Glendale Boulevard's However, surface drainage patterns would not be significantly altered r siltation. The proposed project would result in less than significant imp patterns. No further analysis of this issue is required.	rm drain d tempor storm dra esulting	system varily into in syster in erosio	will the m. n or	
<ul> <li>d) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, or substantially increase the rate or amount of surface runoff in a manner that would result in flooding on- or off-site?</li> <li>Reference: L.A. CEQA Thresholds Guide (Section G.1)</li> <li>Comment: A significant impact may occur if the proposed project resu volumes during construction or operation of the proposed project that conditions affecting the project site or nearby properties.</li> </ul>				
One objective of the proposed project is to improve urban runoff in the Watershed. The installation of porous paving and other Lake edge impand circling the Lake would assist in limiting runoff on the project site. hydrodynamic separators would assist in removing the debris that may water runoff flowing into the Lake, particularly during major storm event proposed project would re-route storm drain flows into the Lake and alto the vicinity. Flooding may occur at the project site during major storm on anticipated that the proposed project would implement modifications increase in flooding as compared to existing conditions. Further analyst required to confirm this determination.	rovemen Γhe insta be prese s. In add er draina events. H s that wo	its adjace illation of ent in sto dition, the ge patter lowever, ould resul	ent to f rm e rns in , it is	
e) Create or contribute runoff water which would exceed the capacity of existing or planned storm water drainage systems or provide substantial additional sources of polluted runoff?  Reference: L.A. CEQA Thresholds Guide (Section G.2)  Comment: A significant impact may occur if the volume of runoff were to which exceeded the capacity of the storm drain system serving a proje impact may also occur if the proposed project would substantially incre	ct site. A	signification	ant	

Issues	Potentially Significant Impact	Potentially Signif. Unless Mitigation Incorporated	Less Than Significant Impact	No Impact	
polluted runoff would reach the storm drain system.  See comments for 8 (a through d) above. The proposed project would alter storm drain systems in the vicinity of the Lake and would re-route flows into the Lake for water quality purposes. However, the amount of runoff associated with the proposed project is not anticipated to exceed the capacity of the storm drain system or provide additional sources of polluted runoff. Further analysis of this issue is required.					
f) Otherwise substantially degrade water quality?			$\boxtimes$		
Reference: L.A. CEQA Thresholds Guide (Section G.3)  Comment: A significant impact may occur if a project included potential so pollutants and potential to substantially degrade water quality.	ources of	water			
The overall objective of the proposed project is to improve water quality contribute to water quality improvement in the Los Angeles River Water project must also be consistent with the RWQCB's intent to restore the beneficial water quality uses in the Lake. The proposed project would significant impacts related to the substantial degradation of water quality of this issue is required.	rshed. T existing esult in l	he propo and pote ess than	ential		
g) Place housing within a 100-year flood hazard area as mapped on a federal Flood Hazard Boundary or Flood Insurance Rate Map or other flood hazard delineation map?  Reference: FEMA, Flood Insurance Rate Map No. 06037C1610F; <i>L.A. CE</i> (Sections G.1 to G.3)  Comment: The project site is located within a 100-year flood hazard a housing is proposed as part of the proposed project. Therefore, the proresult in no impacts on the placement of housing within a 100-year floor further analysis of this issue is required.	rea. Hov oposed p	vever, no roject wo	o ould		
h) Place within a 100-year flood hazard area structures that would impede or redirect flood flows?  Reference: FEMA, Flood Insurance Rate Map No. 06037C1610F, <i>L.A. Cla</i> (Sections G.1 & G.3)  Comment: The project site is located within a 100-year flood hazard area project would temporarily redirect flood flows during the construction p drains in the area. The redirection of flood flows would be temporary a result in an increase in the amount of flood flows beyond existing cond of this issue is required to evaluate this potential temporary impact.	and the hase to e	propose existing s anticipa	d torm ited to		
<ul> <li>i) Expose people or structures to a significant risk of loss, injury or death involving flooding, including flooding as a result of the failure of a levee or dam?</li> <li>Reference: City of Los Angeles General Plan Safety Element, L.A.         CEQA Thresholds Guide (Sections E.1 &amp; G.3)     </li> <li>Comment: A significant impact may occur if the proposed project were local adam or levee could fail, exposing people or structures to significant risk death.</li> <li>The Park and Lake are not at risk from inundation (flooding due to the levee.) However, water is kept in the Lake by an existing dam at the substance of the proposition of Safety of Dams standards, the proposition of Safety of Dams standards, the proposition of Safety of Dams standards.</li> </ul>	sk of loss failure of outh end	s, injury of a dam of of the La	or or ake.		

Issues	Potentially Significant Impact	Potentially Signif. Unless Mitigation Incorporated	Less Than Significant Impact	No Impact
construct an earthen berm within the Lake to reduce the volume of water released in the event of dam failure. Therefore, the proposed project waffect flood risk. No further analysis of this issue is required.			ely	
j) Inundation by seiche, tsunami, or mudflow?				
<ul> <li>Reference: City of Los Angeles General Plan Safety Element, LA CEQA 7 (Section E.1)</li> <li>Comment: A significant impact may occur if the proposed project would ca geologic hazards, which would result in substantial damage to structure expose people to substantial risk of injury.</li> </ul>	ause or a	ccelerat	e	
The Inundation and Tsunami Hazard Areas map (Exhibit G) of the Safe Angeles City General Plan (adopted by City Council November 26, 199 site is not located within a potential inundation and tsunami hazard area located approximately 14 miles east of the Pacific Ocean. In addition, to identified as being within a mudflow risk area. The project site is not located abody of water that, during a seismic or other event, has the potential or a standing wave. Therefore, the proposed project would result in no inundation by seiche, tsunami or mudflow. No further analysis of this is	6) indica a. The project ted in call to resulting in the call to resulting impacts.	tes the project site is close pro close pro alt in a se related t	oroject e is not eximity eiche	
0. LAND USE AND PLANNING - Would the project:				
a) Physically divide an established community?				
Reference: City of Los Angeles General Plan, LA CEQA Thresholds Guide Comment: Determination of impact is made based on several factors, including proposed project is sufficiently large or otherwise configured in such a supplysical barrier within an established community.	uding wl	nether th		
The proposed project involves below ground or surface level improvementation of the project site is surrounded primarily by multi-family resident However, no large structures or buildings would be constructed with the would potentially physically divide this community. The land use of the remain open space with the implementation of the proposed project. The project would result in no impacts related to the division of an established further analysis of this issue is required.	ential land propose project s nerefore,	d uses. ed projec ite would the prop	ct that d posed	
b) Conflict with any applicable land use plan, policy, or regulation of an agency with jurisdiction over the project (including, but not limited to the general plan, specific plan, local coastal program, or zoning ordinance) adopted for the purpose of avoiding or mitigating an environmental effect?  Reference: City of Los Angeles General Plan, LA CEQA Thresholds Guide and ZIMAS  Comment: A significant impact may occur if the proposed project were General Plan, or other applicable plan, or with the site's zoning if de mitigate a significant potential environmental impact.	inconsis	stent with	n the	
The existing General Plan land use designation and the zoning desi site is open space. The proposed project would not alter the land use The proposed project would not conflict with any applicable land use proposed project would result in no impacts related to land use plan	se of the plans.	project : Therefo	site. re, the	

Issues	Potentially Significant Impact	Potentially Signif. Unless Mitigation Incorporated	Less Than Significant Impact	No Impact
of this issue is required.	J.			
<ul> <li>c) Conflict with any applicable habitat conservation plan or natural community conservation plan?</li> <li>Reference: City of Los Angeles General Plan, LA CEQA Thresholds Guide Comment: A significant impact may occur if the proposed project were loc governed by a habitat conservation plan or natural community conserva- conflict with such plan.</li> </ul>	cated with	hin an aı	rea	
No habitat conservation plan or natural community conservation plan e Therefore, the proposed project would result in no impacts related to c conservation or natural community conservation plans. No further anal required.	onflicts v	vith habi	tat	
11. MINERAL RESOURCES – Would the project: <ul> <li>a) Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?</li> <li>Reference: City of Los Angeles General Plan Conservation Element (Mine and L.A. CEQA Thresholds Guide (Section E4)</li> </ul> Comment: No mineral resources are identified within the project site. Therefore would result in no impacts related to mineral resources. No further analysis of	e, the pro	posed p	roject	
<ul> <li>b) Result in the loss of availability of a locally-important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan?</li> <li>Reference: City of Los Angeles General Plan, L.A. CEQA Thresholds Guid Comment: See comment 10 (a) above.</li> </ul>	de (Secti	ons H.1	 & H.2)	
<ul> <li>12. NOISE – Would the project result in:         <ul> <li>a) Exposure of persons to or generation of noise levels in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?</li> <li>Reference: City of Los Angeles General Plan, City of Los Angeles Municip Thresholds Guide (Section I)</li> </ul> </li> <li>Comment: A significant impact may occur if the project resulted in or exposers that exceeded the standards established by the general plan and ordinance of the Municipal Code.</li> </ul>	osed peo	ple to no		
The proposed project consists of the rehabilitation of the Park and Lake the land use of the project site. The operations of the Park and Lake a of the proposed improvements would not be altered from existing cond operational noise is not anticipated to increase with the proposed proje	fter the in itions. T	mplemer	ntation	
However, the construction of the proposed project would result in a tem noise levels in the project area. The temporary increase in noise would duty haul truck traffic and various construction equipment used to drain sediment, and implement the parkland structural best management prais surrounded primarily by multi-family residential uses, which would be increased noise levels during the construction phase. Further technical	d result for the Lake actices. e sensitiv	rom the le, remover the project to the project to the left to the	heavy- /e ect site	

Issues	Potentially Significant Impact	Potentially Signif. Unless Mitigation Incorporated	Less Than Significant Impact	No Impact
assess the level of noise impact during the construction phase, the deg proposed activities would be in compliance with applicable noise stand mitigation measures that would reduce the effects. Therefore, the propresult in potentially significant impacts related to generation of noise levels.  b) Exposure of persons to or generation of excessive groundborne vibration or groundborne noise levels?  Reference: City of Los Angeles General Plan, City of Los Angeles Municipal Thresholds Guide (Section I)  Comment: A significant impact may occur if the project were to expose peexcessive groundborne vibration or groundborne noise levels.	ards, and posed provels.	d to propoject may	y EQA	
Construction activities associated with the project could generate groun use of heavy equipment. However, typically, activities such as pile driving excessive vibration. Pile driving may occur during the construction phat project. Therefore, the proposed project may result in potentially significated groundborne vibration. Further analysis of this issue is required.  c) A substantial permanent increase in ambient noise levels in the project vicinity above levels existing without the project?  Reference: City of Los Angeles General Plan, City of Los Angeles Municipal Thresholds Guide (Section I)  Comment: A significant impact may occur if the project were to substantial increase the ambient noise levels in the project vicinity above levels exproposed project.	ing would se of the cant imp	d genera propose acts rela 	ete ed tted to	
<ul> <li>See comment 11 (a) above. Further technical analysis is required to asse noise impacts, the degree to which the proposed activities would be in applicable noise standards, and to proposed mitigation measures that veffects. Therefore, the proposed project may result in potentially significated generation of noise levels.</li> <li>d) A substantial temporary or periodic increase in ambient noise levels in the project vicinity above levels existing without the project?</li> <li>Reference: L.A. CEQA Thresholds Guide (Section I)</li> <li>Comment: A significant impact may occur if the project were to create a seperiodic increase in the ambient noise levels in the project vicinity above without the proposed project.</li> </ul>	compliar would rec cant imp	nce with duce the eacts rela	ated to	
See comment 11 (a) above. Further technical analysis is required to as project noise impacts, the degree to which the proposed activities would applicable noise standards, and to proposed mitigation measures that we ffects. Therefore, the proposed project may result in potentially signific generation of noise levels.  e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?  Reference: L.A. CEQA Thresholds Guide (Section I); The Thomas Guide,	d be in covould recont impa	ompliand duce the acts rela	e with ted to	

Issues	Potentially Significant Impact	Potentially Signif. Unless Mitigation Incorporated	Less Than Significant Impact	No Impact	
Street Guide Comment: See comment 11 (a) above. The project site is not located within an airport land use plan area or within two miles of a public airport or public use airport. Therefore, the proposed project would result in no impacts related to excessive noise levels near an airport. No further analysis of this issue is required.					
f) For a project within the vicinity of a private airstrip, would the project expose people residing or working in the project area to excessive noise levels?  Reference: L.A. CEQA Thresholds Guide (Section I); The Thomas Guide,	 Los Ang	geles Co	unty		
Street Guide  Comment: See comment 11 (a) above. The project site is not located with private airstrip. Therefore, the proposed project would result in no impa excessive noise levels near a private airstrip. No further analysis of this	cts relate	ed to			
13. POPULATION AND HOUSING – Would the project: <ul> <li>a) Induce substantial population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?</li> <li>Reference: Silver Lake-Echo Park-Elysian Valley Community Plan, L.A. Cl. (Section J.1)</li> <li>Comment: A significant impact may occur if the proposed project induced and housing growth through new development in undeveloped areas or unplanned infrastructure that was not previously evaluated in the adopted general plan.</li> </ul>	substant by intro	tial popu ducing	lation		
The proposed project would not promote population growth either direct consists of infrastructure and water quality upgrades to meet regulatory conformance with the needs projected in the adopted community and growth in the proposed project would result in no impacts related to incommunity in the project area. No further analysis of this issue is required.	requiren eneral pl	nents in ans.			
<ul> <li>b) Displace substantial numbers of existing housing, necessitating the construction of replacement housing elsewhere?</li> <li>Reference: L.A. CEQA Thresholds Guide (Sections J.1 and J.2)</li> <li>Comment: The project site currently consists of open space and recreational located on the project site. The proposed project would not displace any Therefore, the proposed project would result in no impacts related to how replacement. No further analysis of this issue is required.</li> </ul>	/ existing	g housing	g units.		
<ul> <li>c) Displace substantial numbers of people, necessitating the construction of replacement housing elsewhere?</li> <li>Reference:</li> <li>Comment: See comment 12 (b) above.</li> </ul>					
<ul> <li>14. PUBLIC SERVICES –</li> <li>a) Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to</li> </ul>					

Issues	Potentially Significant Impact	Potentially Signif. Unless Mitigation Incorporated	Less Than Significant Impact	No Impact
maintain acceptable service ratios, response times or other performance obje public services:	ctives for	r any of	the	
i) Fire protection?			$\square$	
Reference: City of Los Angeles General Plan Safety Element, L.A.	CEQA TI	∟∟ hreshola	ls	
<ul> <li>Guide (Section K.2)</li> <li>Comment: A significant impact may occur if the project required the station or the expansion, consolidation or relocation of an existin service.</li> </ul>				
The Los Angeles Fire Department Station No. 20 is located appropriate northwest of the project site at 2144 West Sunset Boulevard. The would not require additional fire protection or emergency responsively that is currently provided. In compliance with BOE Standard Proconstruction activities would comply with applicable Fire Code representation of the proposed state of the proposed project would result in less than significative protection. No further analysis of this issue is required.	e propose se service oject Spe quireme uring conting c	sed projects beyonecification the contraction of th	ect nd ons, e n so	
ii) Police protection?			$\boxtimes$	
Reference: City of Los Angeles General Plan Safety Element, L.A. Guide (Section K.1)  Comment: A significant impact may occur if the proposed project w increase in demand for police services that would exceed the car department responsible for serving the site.	ere to re	sult in a	n	
The Los Angeles Police Department Rampart Community Police approximately one mile south of the project site at 1401 West 6 <sup>th</sup> project would not require additional police protection beyond what In compliance with BOE Standard Project Specifications, constructionary with applicable Municipal Code requirements. The neares would be notified, as appropriate, during construction so as to corresponse routing during the construction phase. Therefore, the presult in less than significant impacts related to police protection, this issue is required.	Street. at is curre action act	The pro- ently pro- tivities w police st emerge d project	posed vided. vould ation ency would	
iii) Schools?				$\boxtimes$
Reference: L.A. CEQA Thresholds Guide (Section K.3)  Comment: A significant impact may occur if the proposed project incomployment or population growth that could generate demand for exceeded the capacity of the school district responsible for serving	school f	facilities	that	_
The proposed project is not a growth-inducing project, either direction would therefore not increase the demand for schools in the areat proposed project would result in no impacts related to schools. It this issue is required.	Theref	ore, the		

Issues	Potentially Significant Impact	Potentially Signif. Unless Mitigation Incorporated	Less Than Significant Impact	No Impact	
iv) Parks?					
Reference: L.A. CEQA Thresholds Guide (Section K.4) Comment: A significant impact may occur if the recreation and park could not accommodate the population increase resulting from the proposed project.					
The operation of the proposed project would not induce populatio construction of new housing, either directly or indirectly, and there increase the demand for parks in the project area.					
During the construction phase of the proposed project, the portion of the Park would be closed to the public. A temporary increase in park demand in the project area may result (and will be addressed under Section 15 Recreation below). However, the proposed project would not induce population growth in the project area, which would result in increased park facilities demands. Therefore, the proposed project would result in less than significant impacts related to parks. No further analysis of this issue is required.					
v) Other public facilities?					
Reference: Comment: Operation of the proposed project would not induce growth, either directly or indirectly, and is therefore not anticipated to increase the demand or use for other public facilities in the project area. As discussed above, the Park would be closed to the public. During construction, a temporary increase in park demand in the project area may result (and will be addressed under Section 15 Recreation below).  Therefore, the proposed project would result in less than significant impacts related to other public facilities. No further analysis of this issue is required.					
15. RECREATION —     a) Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated? Reference: L.A. CEQA Thresholds Guide (Section K.4)     Comment: A significant impact may occur if the proposed project included employment or population growth that generated demand for public part the capacity of existing parks.			xceed		
The operation of the Park and Lake would not be altered from existing conditions with the implementation of the proposed project. The proposed project would not directly or indirectly induce population growth. Therefore, the operation of the proposed project would not result in an increase in the demand for parks or other recreational facilities in the project area. However, a portion of the Park would be closed to the public during the construction phase potentially resulting in a temporary increase in the demand on other parks in the project area. Therefore, the proposed project may result in potentially significant impacts related to parks and recreational facilities. Further analysis of this issue is required.					
b) Does the project include recreational facilities or require the construction or expansion of recreational facilities that might have an adverse physical effect on the environment?					

Issues	Potentially Significant Impact	Potentially Signif. Unless Mitigation Incorporated	Less Than Significant Impact	No Impact	
Reference: L.A. CEQA Thresholds Guide (Section K.4) Comment: See comment 15 (a) above.		-	-		
<ul> <li>16. TRANSPORTATION/TRAFFIC – Would the project:         <ul> <li>a) Exceed the capacity of the existing circulation system, based on an applicable measure of effectiveness (as designated in a general plan policy, ordinance, etc.), taking into account all relevant components of the circulation system, including but not limited to intersections, streets, highways and freeways, pedestrian and bicycle paths, and mass transit? Reference:</li></ul></li></ul>					
that would be substantial in relation to the existing traffic load and capa- system taking into account all relevant components of the circulation sy		e street			
The proposed project consists of improvements to an existing recreation. The operations of the Park, including access, hours of operation, and nexpected, would not be altered with the implementation of the proposed vehicle traffic trips would not increase with the proposed project.	umber of	f patrons	3		
Approximately, 50,000 cubic yards of soil would be removed from the project site and exported during the construction phase. Assuming trucks with 20 cubic yard capacity are used, approximately 2,500 truck trips would be generated by the need to haul the exported soil to the proper facilities. Therefore, the proposed project may result in potentially significant impacts related to a temporary increase in traffic trips during the construction phase. A traffic impact analysis will be prepared for the construction phase of the proposed project to identify feasible mitigation measures, as well as any effects on intersections, streets, highways, and other components of the circulation system.					
b) Conflict with an applicable congestion management program, including, but not limited to level of service standards and travel demand measures, or other standards established by the county congestion management agency for designated roads or highways?					
Reference: Comment: See comment15 (a) above. The proposed project may temporarily conflict with the Los Angeles County Congestion Management Program (CMP) during the construction phase, due to the large number of truck traffic trips and proximity of CMP intersections. Therefore, potentially significant impacts are anticipated and further analysis of this issue is required.					
c) Result in a change in air traffic patterns, including either an increase in traffic levels or a change in location that results in substantial safety risks? Reference:					
Comment: The proposed project involves the implementation of improvements to a recreational and park facility and would not involve any changes in air traffic patterns. Therefore, the proposed project would result in no impacts related to air traffic patterns. No further analysis of this issue is required.					
d) Substantially increase hazards due to a design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?					

Issues	Potentially Significant Impact	Potentially Signif. Unless Mitigation Incorporated	Less Than Significant Impact	No Impact
Reference: <i>L.A. CEQA Thresholds Guide</i> (Section L.5)  Comment: A significant impact may occur if the proposed project substanti hazards due to a design feature or incompatible uses.	ially incr	eased ro	oad	
The proposed project does not propose any permanent changes to the system and would not introduce incompatible vehicles to surrounding roproposed project would not alter the operations of the existing project si traffic control measures proposed for the construction phase would be sincluding approval by Los Angeles Department of Transportation. There project would result in no impacts related to traffic hazards. No further a required.	adways. te. Any ubject to efore, the	. The tempora review, e propos	ry	
e) Result in inadequate emergency access?			$\boxtimes$	
Reference: L.A. CEQA Thresholds Guide (Section L.5 and L.8)  Comment: A significant impact may occur if the proposed project resulted emergency access.	in inade	quate		
The proposed project area is readily accessible from adjacent roadways include any permanent changes or alterations to emergency access. As construction, temporary lane changes would be subject to Los Angeles Transportation review and approval, to ensure appropriate emergency a Therefore, the proposed project would result in less than significant imprementations. No further analysis of this issue is required.	s applica Departm iccess is	ible, duri ent of maintai	ing	
f) Conflict with adopted policies, plans, or programs supporting alternative transportation (e.g., bus turnouts, bicycle racks)? Reference: City of Los Angeles General Plan Transportation Element Comment: A significant impact may occur if the proposed project were to c policies, plans, or programs supporting alternative transportation.	conflict w	rith adop	ted	
A City-designated Commuter Bikeway is located along Glendale Boulev project site. The operation of the Park would not be altered with the improposed project. This bikeway may temporarily be impacted by truck the construction phase and would be subject to Los Angeles Department review and approval. However, this impact would be temporary and les further analysis of this issue is required.	plementa raffic cire nt of Tra	ation of t culation nsportat	he during ion	
17. UTILITIES AND SERVICE SYSTEMS – Would the project: <ul> <li>a) Exceed wastewater treatment requirements of the applicable Regional Water Quality Control Board?</li> <li>Reference: L.A. CEQA Thresholds Guide (Section M.2), Sewer Capacity Threshold Areas</li> <li>Comment: A significant impact may occur if the proposed project exceeded requirements of the local regulatory governing agency.</li> </ul>	U wastew	/ater trea	atment	
The Hyperion Treatment Plant is located on a 144-acre site adjacent to southwest of the Los Angeles International Airport. The drainage area swastewater treatment plant is approximately 328,000 acres. Sewage frointerceptor sewer systems is received and treated at this plant. Minimal wastewater are anticipated to be generated by the proposed project. It	served bom five relation	y this major ts of	•	

Issues	Potentially Significant Impact	Potentially Signif. Unless Mitigation Incorporated	Less Than Significant Impact	No Impact
Hyperion Treatment Plant and associated sewer system would have the accommodate the proposed project. No changes in the demands on the system are anticipated. Therefore, the proposed project would result in impacts related to wastewater treatment. No further analysis of this issues.  b) Require or result in the construction of new water or wastewater treatment facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?  Reference: L.A. CEQA Thresholds Guide (Sections M.1 and M.2)  Comment: A significant impact may occur if the proposed project resulted construction or expansion of water or wastewater treatment facilities the adverse environmental effect that could not be mitigated.	e plant a less that ue is req	ind sewe in signific uired.	cant	
See comment 17 (a) above. The proposed project would not require the of water necessitating the construction or expansion of water treatment proposed project would result in the use of storm water.  c) Require or result in the construction of new storm water drainage facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?  Reference: L.A. CEQA Thresholds Guide (Section M.2)  Comment: A significant impact may occur if the volume of storm water rur project increases to a level exceeding the capacity of the storm drain sy project site.	facilities	s. The	oosed	
The proposed project includes improvements that would result in the use would not result in the need to construct new storm water drainage facilities off-site. Therefore, the proposed project would result in less the related to storm water drainage facilities. No further analysis of this issemittlements and resources, or are new or expanded entitlements needed?  Reference: L.A. CEQA Thresholds Guide (Section M.1)  Comment: A significant impact may occur if the proposed project's water of the existing water supplies that serve the site.  The City of Los Angeles Department of Water and Power provides potal area and vicinity. Other than temporary construction water use, the proposed project is to use an effort to reduce the amount of municipal water used to fill the Lake. proposed project would result in less than significant impacts related to further analysis of this issue is required.	lities or earn signiue is required ble water posed pruse storn Therefor	expansion ficant impuired.  s would expressed with the project work in water are, the	exceed  oroject ould and in	
e) Result in a determination by the wastewater treatment provider that serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?				

Issues	Potentially Significant Impact	Potentially Signif. Unless Mitigation Incorporated	Less Than Significant Impact	No Impact				
Reference: Comment: Refer to 16 (a) above.								
Be served by a landfill with sufficient permitted capacity to accommodate the project's solid waste disposal needs?  Reference: L.A. CEQA Thresholds Guide (Section M.3); California Integrated Waste Management Board  Comment: A significant impact may occur if the proposed project were to increase solid waste generation to a degree that existing and projected landfill capacities would be insufficient to accommodate the additional waste.								
Excavated materials and debris would be disposed of at local landfills. The Chiquita Canyon Sanitary Landfill has a remaining capacity of 35,800,000 cubic yards (as of 2003) and is scheduled to cease operations in November of 2019. The Puente Hills Landfill has a remaining capacity of 49,348,500 cubic yards (as of 2006) and is scheduled to cease operations in October of 2013. The soil on the project site is not known to be contaminated and some would be suitable for backfill. Unsuitable soil and soil that could not be used at other construction sites would be disposed at these landfills, where some of the soil may be suitable for use as needed daily cover.								
During operation, trash and debris collected from the Park would be nominal in volume and similar to existing conditions. In addition, it is expected that a nominal amount of trash would be removed from the hydrodynamic separators during operation. Existing landfills have sufficient capacity to accommodate this small amount of solid waste from the proposed project. Therefore, the proposed project would result in less than significant impacts related to solid waste disposal. No further analysis of this issue is required.								
<ul> <li>g) Comply with federal, state, and local statutes and regulations related to solid waste?</li> <li>Reference: L.A. CEQA Thresholds Guide (Section M.3)</li> <li>Comment: A significant impact may occur if the proposed project would get that was in excess of or was not disposed of in accordance with application.</li> </ul>			ste					
Solid waste disposal during construction and operation would comply wastatutes and regulations related to solid waste. Therefore, less than significant and no further analysis of this issue is required.								
<ul> <li>MANDATORY FINDINGS OF SIGNIFICANCE         <ul> <li>Does the project have the potential to degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?</li></ul></li></ul>	a plant	or anima						

Issues	Potentially Significant Impact	Potentially Signif. Unless Mitigation Incorporated	Less Than Significant Impact	No Impact					
would be implemented.									
See comments for 5 (a) through (c) above related to cultural resources. In 2006, the City designated the Park as HCM No. 836. Features contributing to this designation were the Spanish Colonial Revival-style architecture in the Park, English-style landscaping, and defining characteristics including the Lake itself, the footbridge, perimeter paths, boathouse, recreation building, lotus beds, and the Park's unusual trees. Eight historic or potentially historic properties are located within or adjacent to the project site, including Angelus Temple to the north of the project site. The boathouse located on the project site was determined to be eligible National Register of Historic Places. The Echo Park Recreation Center building located on the south side of Bellevue Avenue was determined to be a contributor to a National Register of Historic Places district. Mitigation measures would be required to ensure that no historical resources are adversely impacted by the construction of the proposed project.									
Therefore, the proposed project may result in potentially significant impart of these issues are required.	acts. Fu	rther ana	alyses						
b) Does the project have impacts that are individually limited, but cumulatively considerable? ("cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects)?									
Reference: Preceding analyses  Comment: The proposed project may result in potentially significant is air quality, GHG emissions, and construction traffic due to the large duty construction trucks needed for sediment and other materials mitigation measures would be proposed to reduce impacts to a le level. However, there is the potential for these impacts to result is considerable temporary construction impacts. Further analysis of	ge numb hauling. ss than n cumula	er of hea If feasi significa atively	avy- ble, nt						
c) Does the project have the potential to achieve short-term environmental goals to the disadvantage of long-term environmental goals? Reference: Preceding analyses Comment: The purpose of the proposed project is to improve both the sho water quality of the Los Angeles River Watershed. The project is anticilong term impacts to water quality. Therefore, the proposed project wo significant impacts and no further analysis of this issue is required.	pated to	have po	ositive						
d) Does the project have environmental effects that will cause substantial adverse effects on human beings, either directly or indirectly? Reference: Preceding analyses									
Comment: The proposed project has the potential to cause substantial ad human beings directly or indirectly during the construction phase of the Further technical analysis in the areas of air quality and noise will determitigation measures to reduce any impacts on human beings.	propose	ed projec	ct.						

### V. PREPARATION AND CONSULTATION

### A. Preparer

EDAW AECOM (Environmental Consultant) 515 South Flower Street, 9<sup>th</sup> Floor Los Angeles, CA 90071 Eric Wilson, Principal Shannon Daniels, Project Manager

#### **B.** Coordination and Consultation

City of Los Angeles
Department of Public Works
Bureau of Engineering
Proposition O Bond Program
1149 South Broadway, Suite 600
Los Angeles, CA 90015
Maria E. Martin, Environmental Supervisor I
Alfred Mata, Project Manager

City of Los Angeles
Department of Recreation and Parks
221 North Figueroa Street, 1st Floor
Los Angeles, CA 90012
David Attaway, Environmental Supervisor

City of Los Angeles
Department of Public Works
Bureau of Sanitation
1149 South Broadway, Suite 900
Los Angeles, CA 90015
Steven Nikaido, Civil Engineer

Black & Veatch (Engineering Consultant) 800 Wilshire Boulevard, Suite 600 Los Angeles, CA 90017 Hala Titus, Project Manager Jim Rasmus, Engineering Manager

#### VI. DETERMINATION - RECOMMENDED ENVIRONMENTAL DOCUMENTATION

The City of Los Angeles is implementing a Clean Water Bond Program approved by voters in November 2004 as Proposition O (Prop O). Prop O authorized the City to issue a series of general obligation bonds for up to \$500 million for projects to protect public health by cleaning up pollution in the City's watercourses, beaches, and ocean. The measure also funds improvements to protect water quality, provide flood protection, and increase water conservation, habitat protection, and open space.

A component of the Prop O Program is the Echo Park Lake Rehabilitation Project (proposed project). A Pre-Design Report was prepared to identify and describe the proposed project, describe the extensive investigations undertaken at the project site, discuss preliminary budget and schedule information, and present recommendations for proposed project implementation. The project description and analysis presented in this Initial Study is based on the information presented in the Pre-Design Report.

In 2006, the City designated the Park as Historic-Cultural Monument (HCM) No. 836. Features contributing to this designation were the Spanish Colonial Revival-style architecture in the Park, English-style landscaping, and defining characteristics including the Lake itself, the footbridge, perimeter paths, boathouse, recreation building, lotus beds, and the Park's unusual trees.

The main objectives of the proposed project are to:

- Improve the water quality in the Lake and contribute to water quality improvement in the Los Angeles River Watershed.
- Reduce the use of municipal water required to maintain the water level of the Lake.
- Comply with the Regional Water Quality Control Board's intent to restore the existing and potential beneficial water quality uses in the Lake. The existing beneficial uses include non-contact water recreation (REC-2) and wildlife habitat (WILD). The potential beneficial uses include municipal and domestic water supply (MUN), warm freshwater habitat (WARM), and wetland habitat (WET).
- Assist the City in meeting the current and future total maximum daily load (TMDL) requirements.
- Implement multi-purpose solutions at the Lake, consistent with the Prop O objectives of water supply, water quality, flood reduction, storm water use, and recreation.

Echo Park Lake (Park) has been a part of the City's history for more than 150 years. Historical records indicate that Echo Park Lake (Lake) was originally built as a water supply reservoir in the 1860s. Over time, the use of the Lake was transformed to that of a detention basin in the storm drainage system, providing hydraulic relief during storm events. The State of California has identified the Lake as an impaired water body with the following types of water quality issues: algae, ammonia, eutrophic conditions, copper, lead, odor, polychlorinated byphenyls (PCBs), trash, and pH. As a result, the City is proposing to implement in-lake improvements; vegetation, habitat and park improvements; and parkland structural best management practices at the Lake. The proposed project would be consistent with the Regional Water Quality Control Board's intent to restore the existing and potential beneficial water quality uses in the Lake.

The proposed project includes the following key components:

- Install a new Lake liner
- Construct wetland areas within the Lake to help achieve water quality objectives in the Lake
- Construct a new Lake outlet
- Construct a partition berm in the Lake to comply with California Division of Safety of Dams (DSOD) requirements
- Construct a recirculation pump and piping system to circulate the Lake water
- Modify existing storm drains inletting to the Lake to divert low flow urban runoff into the Lake
- Place aquatic emergent plants at various points along the Lake edge
- Various improvements to the Lake's edge and areas adjacent to the Lake's edge
- Replace a majority of the existing asphalt pathway around the Lake perimeter with pervious materials

# INITIAL STUDY PUBLIC WORKS – BUREAU OF ENGINEERING

- Construct hydrodynamic separators in the existing storm drain systems to remove trash and debris
- Construct rain gardens and grassy swales around the Lake
- Upgrade the irrigation system to improve efficiency

As described in this Initial Study, the proposed project may result in significant impacts and would require the implementation of mitigation measures. Further analysis of these environmental issues should be provided in an EIR.

# INITIAL STUDY PUBLIC WORKS - BUREAU OF ENGINEERING

### B. Recommended Environmental Documentation

On the basis of this initial evaluation, I find that the proposed project would have a significant effect on the environment, and an **Environmental Impact Report** should be prepared.

Reviewed by:

Maria E. Martin

Environmental Supervisor I

Reviewed by:

James E. Doty

Environmental Supervisor II

Approved by:

Ara Kasparian, Ph.D., Manager Environmental Management Group

### INITIAL STUDY PUBLIC WORKS – BUREAU OF ENGINEERING

### VIII. REFERENCES:

Black & Veatch, Echo Park Lake Rehabilitation Project Permitting Requirements, 2009

Black & Veatch, Echo Park Lake Rehabilitation Project Wildlife Relocation Plan, 2009

Black & Veatch, Pre-Design Report-Echo Park Lake Rehabilitation Project

California Air Resources Board, 2006 State Area Designation Maps from http://www.arb.ca.gov/desig/adm/adm.htm#state

California Department of Conservation Publication 42

California Department of Conservation Seismic Hazards Map – Hollywood Quadrangle

California Department of Transportation, California Scenic Highway Mapping SystemCity of Los Angeles, Department of Public Works, Watershed Management – Los Angeles River Watershed at http://ladpw.org/wmd/watershed/LA/

California Department of Toxic Substance Control, Envirostor

City of Los Angeles, City of Los Angeles General Plan

City of Los Angeles Cultural Heritage Commission "Historic-Cultural Monuments (HCM) Report by Planning Community"

City of Los Angeles Department of Public Works, Standard Specification for Public Works Construction

City of Los Angeles, L.A. CEQA Thresholds Guide, 2006.

City of Los Angeles Municipal Code, Chapter I (Planning and Zoning Code) at http://www.amlegal.com/nxt/gateway.dll?f=templates&fn=default.htm&vid=amlegal:lapz\_ca

City of Los Angeles, Silver Lake-Echo Park-Elysian Valley Community Plan

City of Los Angeles, Zone Information and Map Access System (ZIMAS) at http://zimas.lacity.org/

EDAW AECOM, Echo Park Cultural Resources and Landscape Treatment Plan, 2009

FEMA, Flood Insurance Rate Map No. 06037C1610F, September 26, 2008 at http://msc.fema.gov/webapp/wcs/stores/servlet/FemaWelcomeView?storeId=10001&catalogId=10001& langId=-1

National Park Service, National Historic Landmark Program – Angelus Temple at http://tps.cr.nps.gov/nhl/detail.cfm?ResourceId=2136&ResourceType=Building

Office of Planning and Research, Proposed Amendments to CEQA Guidelines, 2009.

SCAQMD, Air Quality Management Plan

State of California, Uniform Building Code

State Water Resources Control Board, Geotracker



# OS ANGELES AUDUBON SOCIETY



Plummer Park - West Hollywood, PO Box 931057, Los Angeles, CA 90093-1057 Tel: (323) 876-0202, (888) 522-7428 Fax: (323) 876-7609 Website: www.LAAudubon.org E-mail: LAAS@LAAudubon.org

Kendrick Okuda, Program Manager Prop O Clean Water Bond Bureau of Engineering 1149 S. Broadway, 6th floor Los Angeles, CA 90015

April 20, 2009

Dear Mr. Okuda: Crianne

2009 APR 21 PM 1: 17

The Los Angeles Audubon Society has followed with great interest the activities of the Proposition O projects overseen by the Bureau of Engineering. We have particular concerns about the progress of the Echo Park Lake Rehabilitation Project.

According to the Proposition O Program Master Schedule (January 2009 report), construction on the Echo Park Lake Rehabilitation Project is scheduled to beginning in late 2010-early 2011. This is right in the middle of the fall-winter bird migration season.

The Echo Park Rehabilitation Project Concept Report and Technical Memo 4 – Wildlife Relocation Plan includes a listing of birds that have been reported at the park during the Christmas Bird Counts, starting in the year 2000. To date, about 70 species have been noted at the lake.

Wetlands are at a premium in California and scientific reporting over the years indicates that about 90-95% of our natural wetlands have disappeared. This means even a small lake like Echo Park Lake is important for migrating birds.

We have two suggestions to maintain the lake for usage by wild birds while construction is underway.

- 1. Keep the lake partially filled with water, particularly during the migration season. The north end of the lake (near the storm drain and near the lotus pond) is shallower than the middle and southern sections. A temporary dam or berm could be put in place to retain water there. When work on the larger section of the lake is complete, it could be refilled and then work can begin on the north end of the lake.
- 2. Delay construction until the end of the 2010-2011 migration season to allow a complete migration cycle. This will especially benefit the great blue herons that have been nesting at the lake each year for the last five years.

There is another benefit to waiting until spring of that year to drain the lake — more hours of daylight. Indeed, would it not be possible to take advantage of the longer days to work longer hours? Perhaps a schedule can be worked out to have the lake work completed before the start of the next migration season (the fall of 2011) and then refill the lake for that season's visiting birds.

We look forward to receiving your comments.

Yours truly,

Mary Loquvam

**Executive Director** 

Los Angeles Audubon Society

323.664.1294

maryloquvam@laaudubon.org

cc: Eric Garcetti, Los Angeles City Council President

Raymond P. Ciranna, Interim City Administrative Officer, Administrative Oversight

Committee

Adi Liberman, Adi Liberman & Associates, Co-Chair: Citizens Oversight Advisory

Committee

Mitch O'Farrell, Council Member Garcetti's District Office





GOVERNOR

# STATE OF CALIFORNIA

# GOVERNOR'S OFFICE of PLANNING AND RESEARCH

# STATE CLEARINGHOUSE AND PLANNING UNIT



CYNTHIA BRYANT DIRECTOR

# Notice of Preparation

September 10, 2009

To:

**Reviewing Agencies** 

Re:

Echo Park Lake Rehabilitation Project

SCH# 2009091036

Attached for your review and comment is the Notice of Preparation (NOP) for the Echo Park Lake Rehabilitation Project draft Environmental Impact Report (EIR).

Responsible agencies must transmit their comments on the scope and content of the NOP, focusing on specific information related to their own statutory responsibility, within 30 days of receipt of the NOP from the Lead Agency. This is a courtesy notice provided by the State Clearinghouse with a reminder for you to comment in a timely manner. We encourage other agencies to also respond to this notice and express their concerns early in the environmental review process.

Please direct your comments to:

Maria Martin City of Los Angeles, Bureau of Engineering 1149 S. Broadway, Suite 600 Los Angeles, CA 90015

with a copy to the State Clearinghouse in the Office of Planning and Research. Please refer to the SCH number noted above in all correspondence concerning this project.

If you have any questions about the environmental document review process, please call the State Clearinghouse at (916) 445-0613.

Sincerely,

Scott Morgan

Assistant Deputy Director & Senior Planner, State Clearinghouse

Attachments cc: Lead Agency

# Document Details Report State Clearinghouse Data Base

SCH# 2009091036

Lead Agency Los Angeles, City of

Type NOP Notice of Preparation

Description The p

The project would be consistent with the Regional Water Quality Control Board's intent to restore the existing and potential beneficial water quality uses in the Lake. The project would include a new Lake liner, new wetland areas, a Lake outlet, a partition berm in the Lake to comply with California Division of Safety of Dams requirements, a recirculation pump and piping system to circulate the Lake water, modification of existing storm drains inletting to the Lake to divert low flow urban runoff into the Lake, aquatic emergent plants at various points along the Lake edge, various improvements to the Lake's edge and areas adjacent to the Lake's edge, replacement of a majority of the existing aspalt pathway around the Lake perimeter with pervious meterials, hydrodynamic separators, rain gardens and grassy swales, and an upgrade of the irrigation system.

# **Lead Agency Contact**

Name Maria Martin

Agency City of Los Angeles, Bureau of Engineering

Phone (213) 485-5753

email

Address 1149 S. Broadway, Suite 600

City Los Angeles

State CA Zip 90015

Fax

### **Project Location**

County Los Angeles

City Los Angeles, City of

Region

Cross Streets ECHO Park Ave. & Bellevue Ave.

Lat/Long 34° 4' 21.8" N / 118° 15' 32.5" W

Parcel No. 5404-015-900

Township Range Section Base

Proximity to:

Highways US 101, SR 110, I-5, SR 2

**Airports** 

Railways UPRR

Schools Logan Street Elem

Land Use Open Space General Plan land use; Open Space (OS) zoning

Project Issues

Aesthetic/Visual; Air Quality; Archaeologic-Historic; Biological Resources; Noise; Recreation/Parks;

Toxic/Hazardous; Traffic/Circulation; Vegetation; Water Quality; Water Supply; Wetland/Riparian;

**Cumulative Effects** 

Reviewing Agencies Resources Agency; Department of Parks and Recreation; Department of Water Resources; Native American Heritage Commission; Department of Fish and Game, Region 5; California Highway Patrol;

Caltrans, District 7; Department of Toxic Substances Control; Regional Water Quality Control Board,

Region 4

Date Received 09/10/2009

Start of Review 09/10/2009

End of Review 10/12/2009

Note: Blanks in data fields result from insufficient information provided by lead agency.

N	OP Distribution List		<u> </u>		County:	LUS	Ange	sel	<u> </u>	SCH# _		2009091036
Res	sources Agency		Fish & Game Region 2 Jeff Drongesen		Public Utilities Leo Wong		Г	_	Caltrans, District 8 Dan Kopulsky			gional Water Quality Control ard (RWQCB)
	Resources Agency Nadell Gayou Dept. of Boating & Waterways		Fish & Game Region 3 Robert Floerke Fish & Game Region 4 Julie Vance		Santa Monica E Guangyu Wang State Lands Co Marina Brand	-	ition (		Caltrans, District 9 Gayle Rosander Caltrans, District 10 Tom Dumas			RWQCB 1 Cathleen Hudson North Coast Region (1)
	Mike Sotelo  California Coastal  Commission  Elizabeth A. Fuchs		Fish & Game Region 5 Don Chadwick Habitat Conservation Program		Tahoe Regiona Agency (TRPA) Cherry Jacques	)	[		Caltrans, District 11 Jacob Armstrong Caltrans, District 12			RWQCB 2 Environmental Document Coordinator San Francisco Bay Reglon (2)
	Colorado River Board Gerald R. Zimmerman	_	Fish & Game Region 6 Gabrina Gatchel Habitat Conservation Program	Bus	siness, Trans Caltrans - Divis				Chris Herre			RWQCB 3 Central Coast Region (3)
,	Dept. of Conservation Rebecca Salazar California Energy		Fish & Game Region 6 I/M Gabrina Getchel Inyo/Mono, Habitat Conservation		Aeronautics Sandy Hesnard Caltrans - Plan		, 		Resources Board Airport Projects			RWQCB 4 Teresa Rodgers Los Angeles Region (4)
1	Commission Dale Edwards Cal Fire Allen Robertson		Program  Dept. of Fish & Game M George Isaac Marine Region		Terri Pencovic  California High Scott Loetscher Office of Specia	way Patrol			Jim Lerner  Transportation Projects Douglas Ito		ч	RWQCB 5S Central Valley Region (5)  RWQCB 5F Central Valley Region (5)
]	Office of Historic Preservation Wayne Donaldson		ner Departments  Food & Agriculture  Steve Shaffer		Housing & Con Development CEQA Coordina Housing Policy	nmunity	[		Industrial Projects Mike Tollstrup  California Integrated Waste			Fresno Branch Office  RWQCB 5R Central Valley Region (5) Redding Branch Office
١	Dept of Parks & Recreation Environmental Stewardship Section Central Valley Flood		Dept. of Food and Agriculture  Depart. of General Services Public School Construction	<u>De</u>	pt. of Transpo		ļ		Management Board Sue O'Leary State Water Resources Con Board	itrol		RWQCB 6 Lahontan Region (6) RWQCB 6V
	Protection Board Jon Yego		Dept. of General Services Anna Garbeff Environmental Services Section		Caltrans, Distr Rex Jackman	ict 1			Regional Programs Unit Division of Financial Assistan	ce		Lahontan Region (6) Victorville Branch Office
l	S.F. Bay Conservation & Dev't. Comm. Steve McAdam		Dept. of Public Health Bridgette Binning Dept. of Health/Drinking Water		Caltrans, Distr	alez			State Water Resources Con Board Student Intern, 401 Water Qu			RWQCB 7 Colorado River Basin Region (7) RWQCB 8
	Dept. of Water Resources Resources Agency Nadell Gayou		dependent ommissions,Boards		Caltrans, District Bruce de Terra  Caltrans, District Lisa Carboni	rict 4	Certification Unit Division of Water Quality  State Water Resouces Co Steven Herrera			Santa Ana Region (8)  RWQCB 9  San Diego Region (9)		
	Conservancy		Delta Protection Commission Linda Flack  Office of Emergency Services Dennis Castrillo		Caltrans, Distr David Murray Caltrans, Distr Michael Navarra	ict 6	1		Division of Water Rights  Dept. of Toxic Substances ( CEQA Tracking Center  Department of Pesticide Re			Other
-	Depart. of Fish & Game Scott Flint Environmental Services Division		Governor's Office of Planning & Research State Clearinghouse	Caltrans, Dist		Department of Pesticide F CEQA Coordinator	egulation					
	Fish & Game Region 1 Donald Koch Fish & Game Region 1E		Native American Heritage Comm. Debbie Treadway								Last	t Updated on 03/24/2009
	Laurie Harnsberger											





September 15, 2009

Ms. Maria Martin, Environmental Supervisor City of Los Angeles Department of Public Works Bureau of Engineering, EMG 1149 S. Broadway, Suite 600, Mail Stop 939 Los Angeles, CA 90015

Dear Ms. Martin:

# Notice of Preparation of a Draft Environmental Impact Report (Draft EIR) for the <u>Echo Park Lake Rehabilitation Project</u>

The South Coast Air Quality Management District (SCAQMD) appreciates the opportunity to comment on the above-mentioned document. The SCAQMD's comments are recommendations regarding the analysis of potential air quality impacts from the proposed project that should be included in the draft environmental impact report (EIR). Please send the SCAQMD a copy of the Draft EIR upon its completion. In addition, please send with the draft EIR all appendices or technical documents related to the air quality analysis and electronic versions of all air quality modeling and health risk assessment files. Electronic files include spreadsheets, database files, input files, output files, etc., and does <u>not</u> mean Adobe PDF files. Without all files and supporting air quality documentation, the SCAQMD will be unable to complete its review of the air quality analysis in a timely manner. Any delays in providing all supporting air quality documentation <u>will require</u> additional time for review beyond the end of the comment period.

#### **Air Quality Analysis**

The SCAQMD adopted its California Environmental Quality Act (CEQA) Air Quality Handbook in 1993 to assist other public agencies with the preparation of air quality analyses. The SCAQMD recommends that the Lead Agency use this Handbook as guidance when preparing its air quality analysis. Copies of the Handbook are available from the SCAQMD's Subscription Services Department by calling (909) 396-3720. Alternatively, the lead agency may wish to consider using the California Air Resources Board (CARB) approved URBEMIS 2007 Model. This model is available on the SCAQMD Website at: <a href="https://www.urbemis.com">www.urbemis.com</a>.

The Lead Agency should identify any potential adverse air quality impacts that could occur from all phases of the project and all air pollutant sources related to the project. Air quality impacts from both construction (including demolition, if any) and operations should be calculated. Construction-related air quality impacts typically include, but are not limited to, emissions from the use of heavy-duty equipment from grading, earth-loading/unloading, paving, architectural coatings, off-road mobile sources (e.g., heavy-duty construction equipment) and on-road mobile sources (e.g., construction worker vehicle trips, material transport trips). Operation-related air quality impacts may include, but are not limited to, emissions from stationary sources (e.g., boilers), area sources (e.g., solvents and coatings), and vehicular trips (e.g., on- and off-road tailpipe emissions and entrained dust). Air quality impacts from indirect sources, that is, sources that generate or attract vehicular trips should be included in the analysis.

The SCAQMD has developed a methodology for calculating PM2.5 emissions from construction and operational activities and processes. In connection with developing PM2.5 calculation methodologies, the SCAQMD has also developed both regional and localized significance thresholds. The SCAQMD requests that the lead agency quantify PM2.5 emissions and compare the results to the recommended PM2.5 significance thresholds. Guidance for calculating PM2.5 emissions and PM2.5 significance thresholds can be found at the following internet address: <a href="http://www.aqmd.gov/ceqa/handbook/PM2\_5/PM2\_5.html">http://www.aqmd.gov/ceqa/handbook/PM2\_5/PM2\_5.html</a>.

In addition to analyzing regional air quality impacts the SCAQMD recommends calculating localized air quality impacts and comparing the results to localized significance thresholds (LSTs). LST's can be used in addition to the recommended regional significance thresholds as a second indication of air quality impacts when preparing a CEQA document. Therefore, when preparing the air quality analysis for the proposed project, it is recommended that the lead agency perform a localized significance analysis by either using the LSTs developed by the SCAQMD or performing dispersion modeling as necessary. Guidance for performing a localized air quality analysis can be found at <a href="http://www.aqmd.gov/ceqa/handbook/LST/LST.html">http://www.aqmd.gov/ceqa/handbook/LST/LST.html</a>.

In the event that the proposed project generates or attracts vehicular trips, especially heavy-duty diesel-fueled vehicles, it is recommended that the lead agency perform a mobile source health risk assessment. Guidance for performing a mobile source health risk assessment ("Health Risk Assessment Guidance for Analyzing Cancer Risk from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis") can be found on the SCAQMD's CEQA web pages at the following internet address: <a href="http://www.aqmd.gov/ceqa/handbook/mobile\_toxic/mobile\_toxic.html">http://www.aqmd.gov/ceqa/handbook/mobile\_toxic/mobile\_toxic.html</a>. An analysis of all toxic air contaminant impacts due to the decommissioning or use of equipment potentially generating such air pollutants should also be included.

## Mitigation Measures

In the event that the project generates significant adverse air quality impacts, CEQA requires that all feasible mitigation measures that go beyond what is required by law be utilized during project construction and operation to minimize or eliminate significant adverse air quality impacts. To assist the Lead Agency with identifying possible mitigation measures for the project, please refer to Chapter 11 of the SCAQMD CEQA Air Quality Handbook for sample air quality mitigation measures. Additional mitigation measures can be found on the SCAQMD's CEQA web pages at the following internet address: <a href="https://www.aqmd.gov/ceqa/handbook/mitigation/MM">www.aqmd.gov/ceqa/handbook/mitigation/MM</a> intro.html Additionally, SCAQMD's Rule 403 – Fugitive Dust, and the Implementation Handbook contain numerous measures for controlling construction-related emissions that should be considered for use as CEQA mitigation if not otherwise required. Other measures to reduce air quality impacts from land use projects can be found in the SCAQMD's Guidance Document for Addressing Air Quality Issues in General Plans and Local Planning. This document can be found at the following internet address: <a href="http://www.aqmd.gov/prdas/aqguide/aqguide.html">http://www.aqmd.gov/prdas/aqguide/aqguide.html</a>. In addition, guidance on sitting incompatible land uses can be found in the California Air Resources Board's Air Quality and Land Use Handbook: A Community Perspective, which can be found at the following internet address: <a href="http://www.arb.ca.gov/ch/handbook.pdf">http://www.arb.ca.gov/ch/handbook.pdf</a>. Pursuant to state CEQA Guidelines §15126.4 (a)(1)(D), any impacts resulting from mitigation measures must also be discussed.

### **Data Sources**

SCAQMD rules and relevant air quality reports and data are available by calling the SCAQMD's Public Information Center at (909) 396-2039. Much of the information available through the Public Information Center is also available via the SCAQMD's World Wide Web Homepage (<a href="http://www.aqmd.gov">http://www.aqmd.gov</a>).

The SCAQMD is willing to work with the Lead Agency to ensure that project-related emissions are accurately identified, categorized, and evaluated. Please call Daniel Garcia, Air Quality Specialist, CEQA Section, at (909) 396-3304 if you have any questions regarding this letter.

Sincerely,

Susan Nakamura Planning Manager

Planning, Rule Development and Area Sources

SS:DG:AK LAC090910-03AK Control Number



September 17, 2009

Ms. Maria Martin **Environmental Supervisor** City of Los Angeles Department of Public Works Bureau of Engineering, EMG 1149 S. Broadway, Suite 600, Mail Stop 939 Los Angeles, CA 90015-2213

Dear Ms. Martin:

Thank you for the opportunity to comment on the Notice of Preparation (NOP) for the Echo Park Lake Rehabilitation Project. This letter conveys recommendations from the Los Angeles County Metropolitan Transportation Authority (Metro) concerning issues that are germane to our agency's statutory responsibilities in relation to the proposed project.

A Traffic Impact Analysis (TIA), with highway, freeway, and transit components, is required under the State of California Congestion Management Program (CMP) statute. The CMP TIA Guidelines are published in the "2004 Congestion" Management Program for Los Angeles County", Appendix B. The geographic area examined in the TIA must include the following, at a minimum:

- All CMP arterial monitoring intersections, including monitored freeway on/off-ramp intersections, where the proposed project will add 50 or more trips during either the a.m. or p.m. weekday peak hour (of adjacent street traffic); and
- Mainline freeway-monitoring locations where the project will add 150 or more trips, in either direction, during either the a.m. or p.m. weekday peak hour.

Among the required steps for the analysis of development-related impacts to transit are:

- Evidence that in addition to Metro, all affected Municipal transit operators received the NOP for the Draft EIR;
- 4. A summary of the existing transit services in the area;
- 5. Estimated project trip generation and mode assignment for both morning and evening peak periods;
- Documentation on the assumptions/analyses used to determine the number and percentage of trips assigned to transit;
- Information on facilities and/or programs that will be incorporated into the development plan that will encourage public transit usage and transportation demand management (TDM) policies and programs; and
- An analysis of the expected project impacts on current and future transit services along with proposed project mitigation.

Metro looks forward to reviewing the Draft EIR. If you have any questions regarding this response, please call me at 213-922-6908 or by email at chapmans@metro.net. Please send the Draft EIR to the following address:

Metro CEQA Review Coordination One Gateway Plaza MS 99-23-2 Los Angeles, CA 90012-2952 Attn: Susan Chapman

Sincerely,

Susan Chapman

Program Manager, Long Range Planning





Secretary for **Environmental Protection** 

# Department of Toxic Substances Control



Maziar Movassaghi, Acting Director 9211 Oakdale Avenue Chatsworth, California 91311

September 22, 2009

Ms. Maria Martin (Maria.Martin@lacity.org) City of Los Angeles Department of Public Works 1149 S. Broadway, Suite 600, Mail Stop 939 Los Angeles, CA 90015

DRAFT ENVIRONMENTAL IMPACT REPORT FOR ECHO PARK LAKE REHABILITATION PROJECT, LOS ANGELES, LOS ANGELES COUNTY (SCH 2009091036)

Dear Ms. Martin:

The Department of Toxic Substances Control (DTSC) has reviewed the Notice of Preparation (NOP) dated September 10, 2009, for the subject project. The due date to submit comments is October 12, 2009. Based on a review of the NOP, DTSC would like to provide the following comments:

- 1. The proposed project consists of making improvements at the existing lake as part of implementing the Clean Water Bond Program.
- 2. Three open leaking underground storage tank (LUST) clean up sites are located within 0.25 miles from the project site. Contaminants associated with these LUST locations may have the potential to migrate to the site via groundwater and/or soil gas pathways. DTSC recommends that these environmental concerns be investigated using DTSC's "Advisory - Active Soil Gas Investigations, dated January 2003" and DTSC's "Vapor Intrusion Guidance Document - Final Interim, dated December 15, 2004."

If you would like to discuss this matter further, please contact me at (818) 717-6617 or kchiang@dtsc.ca.gov, or Grant Dalton at (818) 717-6619 or gdalton@dtsc.ca.gov.

Sincerely,

Ken Chiang

Senior Hazardous Substances Scientist Brownfields and Environmental Restoration

(see next page) CC:

Ms. Maria Martin September 22, 2009 Page 2

cc: State Clearinghouse (State.clearinghouse@opr.ca.gov)
Office of Planning and Research

Ms. Nancy Ritter (NRitter@dtsc.ca.gov)
DTSC CEQA Tracking Center – Sacramento HQ

School Reading File – Chatsworth (cwherry@dtsc.ca.gov)

CEQA Reading File - Chatsworth

Rec 19/1/09 mm
ARNOLD SCHWARZENEGGER, Governor

DEPARTMENT OF TRANSPORTATION

DISTRICT 7, OFFICE OF PUBLIC
TRANSPORTATION AND REGIONAL PLANNING
IGR/CEQA BRANCH
100 SOUTH MAIN STREET
LOS ANGELES, CA 90012
PHONE (213) 897-6696



Flex your power!
Be energy efficient!

September 24, 2009

IGR/CEQA NOP CS/090913 City of Los Angeles Echo Park Lake Rehabilitation Project Vic. LA-101-2.42, SCH # 2009091036

Ms. Maria Martin City of Los Angeles Bureau of Engineering 1149 S. Broadway, Suite 600 Los Angeles, CA 90015

Dear Ms. Martin:

(213) 897-1337

FAX

Thank you for including the California Department of Transportation (Caltrans) in the environmental review process for the Notice of Preparation (NOP) of an Environmental Impact Report for the Echo Park Lake Rehabilitation Project. The project site is located at 751 Echo Park Avenue. Based on the information received, we have the following comments:

We recommend that construction related truck trips on State Highways be limited to off-peak commute periods especially along congested commuter corridors such as the US-101 (Hollywood Freeway) located just to the south of the project site and State Route 2 (Alvarado Street/Glendale Boulevard/Glendale Freeway) located approximately 1 mile to the north. The contractor should avoid platooning of truck trips on mainline freeways, on freeway on/off-ramps and at freeway ramp intersections. Transport of over-size or over-weight vehicles on State Highways will need a Caltrans Transportation Permit.

Construction related staging areas should not occur near Echo Park Avenue and Bellevue Avenue (US-101 northbound off-ramp and on-ramp).

If you have any questions, you may reach me at (213) 897-6696 and please refer to our record number 090913/CS.

Sincerely,

ELMER ALVAREZ

Cul Shings

IGR/CEQA Program Manager

Office of Regional Planning

cc: Scott Morgan, State Clearinghouse

From: <idatalalla@aol.com>
To: <Alfred.Mata@lacity.org>
Date: 9/28/2009 7:38 AM

**Subject:** PROP O

Greetings, Alfred:

Thanks for coming to the Park Advisory Board Meetings as well as keeping the community appraised about the Prop O Project.

My Comments on the Plan as seen last week:. Please forward as needed to be included in comments:

1. The filtering system has to be moved out of the park.

All trash cannot be allowed to sit around in the Lake until it gets cleaned out.

The system needs to be in the street itself where it can be cleaned out

easily.

2. The pump house needs to be in keeping with the architecturally features noted on the boat House and the Recreation Center.

Can it be a combined with the present kayak/motor boat storage that lies

next to the toilets by the Boat House?

3. The marsh/wet lands with broad walk to North East of Park that is planned

in the Lake area adjacent to the Island, has to be re-thought.

(a) This is a refuge for the avian and reptile(turtles/tortoise) population.

Foot traffic has to be banned from the island.

If anything, with the loss of the wet land islands

currently in place the

area

island should be extended southwards/enlarged and a wading

offered to birds like the herons.

We need to see a better planned habitat than is currently in the plans.

(b) Cleaning marshland of debris and food dumped by people will be very

labor intensive to remove.

The necklace of marshes around the sides of the Lake must be removed.

4. I see no data and no figures on the upkeep and maintenance of the site post Prop O.

Can we get some rough figures?

--- Does the Department of Recreation and Parks have resident biologist and

botanist to make informed decisions on a daily basis?

The fact that a cormorant was left to suffer a painful

experience for some five days

entangled in fishing line before anything could be done is unacceptable.

If a bird population is to be maintained, it should be managed adequately

and in a humane manner.

5. I see no scientific information as to avian and reptile population that area can

sustain.

(b) I see no plan as to the schedule related to the removal of the wildlife  $% \left( 1\right) =\left( 1\right) \left( 1\right$ 

currently residing at the site and the number that are migratory and domestic

or migratory and now domesticated year-round residents.

(c) The pigeon population explosion has to be addressed beginning now.

How does Prop O plan to handle this?

(d) Mention was made to push the date the Prop O Project begins to sometime April instead of January.

However, given the need of the avian population to raise its young,

please review the mating and raising of young issues of this avian population.

It would seem that this must be a concern. As late as the Lotus Festival (July)

ducks were seen with ducklings.

Again, this needs to be clarified.

6. Sometime when Prop O begins, the Angelus Temple/Four Square Heritage Foundation will commence with a huge 70+ high rise at the corner of Glendale

and Park Avenue.

Has this been taken into consideration?

- 7. Little has been made of the numerous changes make to the lawn with each staged
- ---- event at the site. Depending on floor/site plans, cables are run throughout the

area

---- In addition, a great deal of cooking and food preparation occurs in the north

east corner. Spilt oil and waste is inevitable.

--- In addition, the Fire Department trains at the lake, running hose into/out of the

Lake

How does Prop O maintain the integrity of the site/water quality post Prop O?

8. How does the City plan to address the concerns of pollution entering the Lake

via storm drains after Prop O?

\_\_\_\_\_

Where will the Lake Tour for Prop O meet on Tuesday. Please let me know.

With thanks.

Ida Talalla Echo Park TAP ( Trash Abatement Project)

### DEPARTMENT OF WATER RESOURCES

1416 NINTH STREET, P.O. BOX 942836 SACRAMENTO, CA 94236-0001 [916] 653-5791



SEP 3 0 2009

Ms. Maria Martin City of Los Angeles Bureau of Engineering 1149 South Broadway, Suite 600 Los Angeles, California 90015

SCH #2009091036, Notice of Preparation for the Echo Park Lake Rehabilitation Project Draft Environmental Impact Report, September 2009

<u>Los Angeles County</u>

Dear Ms. Martin:

We have reviewed the subject Notice for this project, which is being done to abate the illegal status of Echo Park Lake Dam. We are currently working with the City of Los Angeles on the design of the proposed remedial measures, which will require our approval prior to construction.

If you have any questions or need additional information, you may contact Office Engineer Mike Sutliff at (916) 227-4601 or Regional Engineer Shawn Jones at (916) 227-4600.

Sincerely,

David A. Gutierrez, Chief Division of Safety of Dams

Richard Waggnes For

cc: Ms. Nadell Gayou

Resources Agency Project Coordinator Environmental Review Section, DPLA 901 P Street Sacramento, California 95814

Governor's Office of Planning and Research State Clearinghouse Post Office Box 3044 Sacramento, California 95812-3044

# Daniels, Shannon

From: Jonathan Williams [saturnyellow@sbcglobal.net]
Sent: Wednesday, September 30, 2009 9:55 PM

To: Maria.Martin@lacity.org
Cc: Judith Raskin; jenny burman

**Subject:** Echo Park Lake, Prop O recommendation

Dear Ms. Martin,

I have been following plans for draining and rehabilitating the Echo Park Lake from the beginning of public hearings.

One issue, which has been consistently mentioned at meetings is the community's concern for wildlife living in the park. This wildlife, most notably birds, depends on our lake for nesting and general habitat. Additionally, citizens of Echo Park and the rest of Los Angeles who use the park do so in large part because of the variety of wildlife present there. People count on seeing birds nesting and raising young at Echo Park Lake.

I understand that no provision has been recommended through the Environmental Impact Report to provide water and nesting habitat for resident birds during the period of construction.

I urge that the designers consider partial retention of water in the lake during construction. Under this condition the existing population of water birds would at least have a chance of remaining to live in our park during construction and we would thereby have a hope that our birds would continue to thrive here in the newly constructed lake thereafter.

If the State of California Department of Fish and Game has not weighed in on this issue, they should. It seems to me unconscionable that birds in our park would not be at least partially provided for in the interim during construction.

Sincerely, Jonathan Williams

Jonathan Williams 1942 Lemoyne St. Los Angeles, CA 90026 213 219-0855

From: Jaana Tarma [jaanatarma@crastinus.com]

**Sent:** Friday, October 02, 2009 6:56 AM

To: Maria.Martin@lacity.org
Subject: Enjoyed your write-up

Hi Maria,

Just a note to say that i found your write-up about the future of the lake very informative.

I am planning to purchase a property there, and it is good to know that Echo Park has people who care about the environment and the community feel of the area.

If you have some advice as to whom to turn in real estate matters I would really appreciate your advice. We are looking for something we could renovate, in a medium price range, maybe 300K.

Jest regards,

Jaana

Jaana Tarma
Crastinus
London
Office +44 20 7727 3607
Mobile +44 777 333 0441
jaanatarma@crastinus.com

Associate of Institute for Independent Business BUSINESS ADVICE THAT WORKS

October 4, 2009

Attn: Ms. Maria Martin, Environmental Supervisor City of Los Angeles Department of Public Works Bureau of Engineering, EMG 1149 S. Broadway, Suite 600, Mail Stop 939 Los Angeles, CA 90015-2213

Re Draft Environmental Report, Echo Park Rehabilitation Project Echo Park Comments

#### Dear Sirs/Ms.:

Shortly after the Final Concept Report for this project was issued, the Echo Park Advisory Board wrote to the attention of Kendrick Okuda, outlining some concerns it had with several items discussed in the Report. (For easy reference, I am including a copy of that letter, dated August 27, 2007.)

Since that time, some of the PAB's questions have been addressed, but the matter concerning draining the lake and its effect on migratory birds is still open.

#### Below is the PAB comment from that letter:

2. On page 2-5, section 2.2, Current Environmental Setting, the document points out that the area containing the lotus beds is the shallowest part of the lake, where water levels are less than 2 feet, and that the lotus bed is contained behind an aquatic plant control dam (at the southern end of the lotus bed area) to keep sediments associated with the lotus plants from dispersing into the lake. The balance of the lake ranges in depth from 3 to 8 feet. The height of the perimeter walls range from 1.5 feet to 4 feet.

Over the past 7 years, a Christmas Bird Count has been done at Echo Lake. Additional counts have been done during other parts of the calendar years as well, and to date, over 60 species of birds have been identified. Most species have been seen during the fall through spring migration period.

We are concerned that draining the lake for an extended period of time will impact on Echo Lake's ability to function as a rest and refueling stop for birds. While Echo Lake is small, it does serve its purpose as a waystation during the migration season. Because so much of California's wetlands have already been lost, even a small area like Echo Lake is important.

We think the engineers should find a way to keep the lake partially filled with water during the migration season, either by the use of temporary dams or other means that would allow the lake bed to retain some water. For example, the height of the control dam at the end of the lotus beds could be increased. Due to the irregularity of the depth of the lake, other points could be selected to hold water to accommodate waterfowl during the reconstruction process.

From what I can see in the Initial Study, in the section labeled "Biological Resources," the BOE is already aware of "Potentially Signif. (Impact) Unless Mitigation Incorporated). Indeed, this box is checked for several items, including number 4, which discusses migratory birds and a wildlife removal plan.

I cannot find any reference in this document that you are considering partial retention of water in the lake during the migration season as a solution to the item referenced above. Nor can I find any reference that acknowledges that the migration season for birds is roughly from October to April. In view of the fact that your estimated start of construction is January 2011 — right in the middle of the migratory season when water birds need the lake most — I ask that you rethink both of these situations: Leave some water in the lake and hold off the beginning of construction until the migratory season comes to an end, around May, 2011.

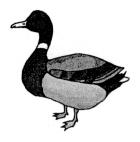
Yours truly,

ludith Raskin

(member, Park Advisory Board)

### - COPY-

# Echo Park Advisory Board



Echo Park Lake Echo Park Recreation Center Echo Park Pool

August 27, 2007

Mr. Kendrick Okuda, Program Manager Bureau of Engineering 1149 South Broadway, 6<sup>th</sup> Floor Los Angeles, CA 90015

Dear Mr. Okuda:

Re: Echo Park Lake Rehabilitation, Proposition O Project Final Concept Report

The Park Advisory Board for Echo Park and its Lake have followed with great interest the progress of the Concept Report as it made it way to approval as a Proposition O project.

We have attended several of your meetings (both Administrative Oversight Committee and Citizens Oversight Advisory Committee) as well as City Council meetings dealing with this project. We have copies of the Final Concept Report and we have read it.

We wish to notify you of some concerns we have at this time.

1. On pages ES-1 and ES-2 of the Report, in the "Project Overview" section, it says that "attempting to address the bacteria issues through implementation of advanced technological means such as UV systems is not recommended." It says that inasmuch as bacterial loading in the lake is the result of natural causes, "best management practices (BMP)" is the way to address this problem.

We would like to know why technological means such as UV are not recommended. We would also like to know to the exact type of "best management practices" that you recommend instead of technological means to address high bacterial counts. Would you provide us with some details?

2. On page 2-5, section 2.2, Current Environmental Setting, the document points out that the area containing the lotus beds is the shallowest part of the lake, where water levels are less than 2 feet, and that the lotus bed is contained behind an aquatic plant control dam (at the southern end of the lotus bed area) to keep sediments associated with the lotus plants from dispersing into the lake. The balance of the lake ranges in depth from 3 to 8 feet. The height of the perimeter walls range from 1.5 feet to 4 feet.

Over the past 7 years, a Christmas Bird Count has been done at Echo Lake. Additional counts have been done during other parts of the calendar years as well, and to date, over 60 species of birds have been identified. Most species have been seen during the fall through spring migration period.

We are concerned that draining the lake for an extended period of time will impact on Echo Lake's ability to function as a rest and refueling stop for birds. While Echo Lake is small, it does serve its purpose as a waystation during the migration season. Because so much of California's wetlands have already been lost, even a small area like Echo Lake is important.

We think the engineers should find a way to keep the lake partially filled with water during the migration season, either by the use of temporary dams or other means that would allow the lake bed to retain some water. For example, the height of the control dam at the end of the lotus beds could be increased. Due to the irregularity of the depth of the lake, other points could be selected to hold water to accommodate waterfowl during the reconstruction process.

3. On page 3-5, in the section 3.3.1 In-Lake Basin and Storm Drain Improvements, the report addresses the matter of Lake Aeration. Currently, a pump house just to the south of the lotus ponds contains the machinery that controls the aeration system.

This is a rather unattractive brick structure set at a natural view point on the lake. We would like to ask that the replacement system be built underground or at a location that would not mar the view of the lake.

4. On page 3-13 through 3j-15, in the section 3.3.3 Parkland Structural BMPS, there is a section called "Educational Signage and Kiosks." This section only addresses signage and kiosks that would advise of the improvements that have been made to water quality.

The Echo Park PAB believes additional signage is necessary to advise park users of selected "park usage rules" to replace the missing signage or faded signs current on view. The type of notices on these signs would address matters such as dog walking, fishing, littering (including dumping of food), hours of operation, etc. There are no kiosks in Echo Park at this time, but we believe their inclusion at several places in the park would be beneficial to allow the display of both permanent and temporary notices. We think all signage should be in English, Spanish and other languages that reflect the language demographics of the community..

Ms. Judith Raskin, a member of the Echo Park PAB, is our Prop O information representative. She is the person you should add to your mailing lists for advisories or other documents relating to the project.

At this time, we are most anxious to know about your "pre-planning" meetings and the time line for community participation. We would also like to invite you to attend a future PAB meeting to discuss the project. Perhaps we can arrange a date in the month of October.

Yours truly,

Thomas L. DeBoe, Chairman Mailing address: 650 Echo Park Avenue, Los Angeles, CA 90026 213-482-4236

Members of the Park Advisory Board as of this date

Thomas L. DeBoe, chairman, tdeboe@sbcglobal.net
Isa-Kae Meksin, vice-chairman, meksin@meksin.cnc.net
Sara Jimenez McSweyn, secretary, mcsweyn@earthlink.net
Judith Raskin, Prop O information contact, echoparkcac@earthlink.net
Suzanne Kimbrough, markybarsh@aol.com
Ida Talalla, idatallala@aol.com
Dan Hammett, Echo Park Recreation Director, dan.hammett@lacity.org

Cc: Council president Eric Garcetti Council member Ed Reyes

Alfred Mata, Bureau of Engineering

From: Mary Loquvam [maryloquvam@laaudubon.org]

**Sent:** Monday, October 05, 2009 7:29 AM

To: maria.martin@lacity.org
Subject: RE: Echo Park Prop O



### LOS ANGELES AUDUBON SOCIETY

Plummer Park - West Hollywood, PO Box 931057, Los Angeles, CA 90093-1057 Tel: (323) 876-0202, (888) 522-7428 Fax: (323) 876-7609 Website: www.LAAudubon.org E-mail: LAAS@LAAudubon.org

Attn: Ms. Maria Martin, Environmental Supervisor City of Los Angeles Department of Public Works Bureau of Engineering, EMG 1149 S. Broadway, Suite 600, Mail Stop 939 Los Angeles, CA 90015-2213

October 4, 2009

Dear Ms. Martin

The Los Angeles Audubon Society has followed with great interest the activities of the Proposition O projects overseen by the Bureau of Engineering. We have particular concerns about the progress of the Echo Park Lake Rehabilitation Project.

According to the Proposition O Program Master Schedule (January 2009 report), construction on the Echo Park Lake Rehabilitation Project is scheduled to beginning in late 2010-early 2011. This is right in the middle of the fall-winter bird migration season.

The Echo Park Rehabilitation Project Concept Report and Technical Memo 4 – Wildlife Relocation Plan includes a listing of birds that have been reported at the park during the Christmas Bird Counts, starting in the year 2000. To date, about 70 species have been noted at the lake.

Wetlands are at a premium in California and scientific reporting over the years indicates that about 90-95% of our natural wetlands have disappeared. This means even a small lake like Echo Park Lake is important for migrating birds.

We have two suggestions to maintain the lake for usage by wild birds while construction is underway.

1. Keep the lake partially filled with water, particularly during the migration season. The north end of the lake (near the storm drain and near the lotus pond) is shallower than the middle and southern sections. A temporary dam or berm could be put in place to retain water there. When work on the larger section of the lake is complete, it could be refilled and then work can begin on the north end of the lake.

2. Delay construction until the end of the 2010-2011 migration season to allow a complete migration cycle. This will especially benefit the great blue herons that have been nesting at the lake each year for the last five years.

There is another benefit to waiting until spring of that year to drain the lake —more hours of daylight. Indeed, would it not be possible to take advantage of the longer days to work longer hours? Perhaps a schedule can be worked out to have the lake work completed before the start of the next migration season (the fall of 2011) and then refill the lake for that season's visiting birds.

We look forward to receiving your comments.

Yours truly,

Mary Loquvam

Mary Loquiam

Executive Director
Los Angeles Audubon Society

323.664.1294

maryloquvam@laaudubon.org

cc: Eric Garcetti, Los Angeles City Council President

Raymond P. Ciranna, Interim City Administrative Officer, Administrative Oversight Committee

Adi Liberman, Adi Liberman & Associates, Co-Chair: Citizens Oversight Advisory Committee

Mitch O'Farrell, Council Member Garcetti's District Office

Lupe M. Vela, Chief Deputy on the Los Angeles River, Council Member Ed Ryeyes's

#### DEPARTMENT OF **CITY PLANNING**

OFFICE OF HISTORIC RESOURCES 200 N. Spring Street, Room 620 Los Angeles, CA 90012-4801 (213) 978-1200

**CULTURAL HERITAGE COMMISSION** 

RICHARD BARRON PRESIDENT ROELLA H. LOUIE VICE-PRESIDENT

GLEN C. DAKE MIA M. LEHRER OZ SCOTT

FELY C. PINGOL COMMISSION EXECUTIVE ASSISTANT (213) 978-1294

#### CITY OF LOS ANGELES

CALIFORNIA



ANTONIO R. VILLARAIGOSA

MAYOR

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FVA YUAN-MCDANIEL DEPUTY DIRECTOR (213) 978-1273

FAX: (213) 978-1275

INFORMATION (213) 978-1270 www.planning.lacity.org

October 5, 2009

Ms. Maria Martin, Environmental Supervisor City of Los Angeles, Department of Public Works Bureau of Engineering, EMG 1149 S. Broadway, Suite 600, Mail Stop 939 Los Angeles, CA 90015-2213

RE: ECHO PARK EIR NOP COMMENTS

Dear Ms. Martin,

Thank you for the opportunity to submit comments on the Notice of Preparation for the Echo Park Rehabilitation project Environmental Impact Report. On behalf of the Cultural Heritage Commission, the following comments are made:

- The Initial Study should identify the Cultural Heritage Commission as a review/approval 1. body for the proposed project since the property is Historic-Cultural Monument No. 836. (Initial Study page 8)
- There is potentially conflicting information presented in the Initial Study item 18 -2. Mandatory Findings of Significance - and the Draft Cultural Resources Report (September 2008). The Mandatory Findings of Significance states that "Mitigation measures would be required to ensure that no historical resources are adversely impacted by the construction of the proposed project." (Initial Study page 40) The Draft Cultural Resources Report states that additional wetland vegetation is an acceptable addition to the lake (page 66). The mitigation measure identified is the application and use of the Secretary of the Interior's Standards for the Treatment of Historic Properties with Guidelines for the Treatment of Cultural Landscapes (Guidelines). The design concepts presented to date show a potential adverse impact to the historic character of the lake and lake edge as it relates to the simplicity of the open body of water that is a character-defining feature of the historic resource. The Guidelines recommend against such alterations. Modifying the lake's edge and the introduction of new wetland areas may be an unavoidable adverse impact. Alternatively, designs that are compatible with the Guidelines may need to be explored.

Maria Martin Echo Park EIR NOP Comments October 5, 2009 Page 2 of 2

3. The Draft Cultural Resources Report states "Avoid the addition of designed structures in the lake such as new islands, new bridges, boardwalks, or cantilevered walks." (page 63) The project includes the addition of a boardwalk and a cantilevered walk that may be in conflict with the Report.

We are eager to have the team present the project concept to the Cultural Heritage Commission during the EIR process. The Commission meets the first and third Thursdays of the month. Please let us know when you would like to present. I may be reached at (213) 978-1183.

Sincerely

Lambert M. Giessinger, Architect Office of Historic Resources

c. Cultural Heritage Commission

Rec 10/6/09

### COMMENTS ON THE ENVIRONMENTAL IMPACT OF THE PROPOSED IMPROVEMENT PLAN FOR ECHO PARK LAKE

Submitted by Mary Steffens, Echo Park, October 5, 2009

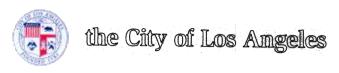
1. The greatest environmental impact will be on the resident wildlife. particularly the birds who live and nest there year round: the black crowned night herons, coots, mallards, the great white-fronted geese, the flock of white geese and the lone small black goose. The geese in particular have an established pecking order. Some have been injured and no longer fly. The most humane protective option would be to begin the construction phase by draining a section adjacent to the island sanctuary and prepare and plant a wetland there. This will minimize the trauma of the resident birds by giving them a refuge while the rest of the lake is rehabilitated.

Nesting occurs in Spring. The construction phase should begin in May, not January. Again, constructing a wetland area as the first order of business will allow some nesting to occur. The island palms and tall pines should be retained for the great blue heron nests.

- 2. The lotus recovery plan will fail if the turtle population is allowed to remain. Over the years people have released turtle pets into the lake, mostly redeared sliders. This population has exploded. They are rapacious eaters of baby ducks (by pulling them under water) and young lotus shoots. Signage in English, Spanish and Chinese is needed to educate people about the danger turtles pose to infant wildlife and baby lotuses.
- 3. Trees: Echo Park Lake is home to some old and unusual trees. The Hibiscus tree, the Melaleucas, and the seven African Wattles (Peltophorum africanum) come immediately to mind. The African Wattles are so rare in fact that they have been declared city Heritage Trees. Equally rare are the two Dawn Redwoods (Metasequoia glyptostroboides) on the Glendale Bl. side of the lake. These water-loving deciduous redwoods are extremely rare in Southern California simply because they require more water than our climate provides. Hence their lakeside location has been perfect. Their roots actually form a beautiful lake edge wall. The proposed wetland for that area needs to be constructed so these trees continue to receive the water they need. The lake park will not be improved at all if the old and established landmark trees are removed.

Trank you for the opportunity to make these Comments. Sincerely, Mary Steffens 1864 Lembyne St. 20026

### Department of Water and Power



ANTONIO R. VILLARAIGOSA

Commission
LEE KANON ALPERT, President
EDITH RAMIREZ, Vice President
FORESCEE HOGAN-ROWLES
JONATHAN PARFREY
THOMAS S. SAYLES
BARBARA E. MOSCHOS, Secretary

H. DAVID NAHAI, Chief Executive Officer and General Manager

October 7, 2009

Ms. Maria Martin, Environmental Supervisor City of Los Angeles, Department of Public Works Bureau of Engineering, EMG 1149 South Broadway, Suite 600, Mail Stop 939 Los Angeles, California 90015-2213

Dear Ms. Martin:

Subject: Notice of Preparation (NOP) of a Draft Environmental Impact Report for the

Echo Park Lake Rehabilitation Project

The Los Angeles Department of Water and Power (LADWP) is in receipt of your NOP dated September 10, 2009. LADWP appreciates the opportunity to provide input on the scope and content of the Environmental Impact Report as you begin the planning and environmental review process for the Echo Park Lake Rehabilitation Project pursuant to the California Environmental Quality Act (CEQA).

One component of the CEQA Guidelines includes a public agency's duty to minimize environmental damage and balance competing public objectives. Water supply and availability is one public objective for which LADWP is accountable and as you are aware, water supply issues are of particular concern to LADWP. Last year, the City of Los Angeles (City) received the lowest rainfall on record, our own Los Angeles Aqueduct supply from the Eastern Sierra was at near record lows, and snowpack for the rest of California was also well below normal. In addition, a Federal Court ruling last year has resulted in reduced exports from the Delta to the State Water Project, the major source of supply to the Metropolitan Water District of Southern California, who we have increasingly relied upon to meet our water supply needs.

Continued development in the City of Los Angeles has generated concern of having sufficient water supplies to meet the increased needs. The LADWP Urban Water Management Plan (UWMP), last adopted in 2005, recognizes and accounts for periods of dry conditions and also anticipates both population growth and increased water demands. In light of the recent events, the LADWP has been undergoing a closer examination of what steps the City must take to ensure the water supply goals of the UWMP are achieved in order to have a sustainable water supply for the City.

The 2005 UWMP calls for increased water conservation continually through 2030, which is as far as the plan forecasts. Conservation goals are broken down in 5-year increments. By 2010, the plan calls for 5,000 acre-feet per year of additional water conservation savings.

### Water and Power Conservation ... a way of life



Ms. Maria Martin Page 2 October 7, 2009

In order to achieve the anticipated water conservation savings identified in the UWMP, all new construction needs to include where applicable the standard water conserving measures and devices that are identified in this letter. Your assistance is necessary and appreciated to meet the required water conservation goals to ensure adequate water supplies for the future.

#### **WATER CONSERVATION DEVICES AND MEASURES**

- High efficiency toilets (1.28 gallons per flush or less, includes dual flush)
- Ultra low water urinals (0.25 gallons per flush or less, includes waterless)
- Restroom faucet flow rate of 1.5 gallons per minute or less
- Public restroom self-closing faucets
- Showerhead flow rate of 2.0 gallons per minute or less
- Limit of one showerhead per shower stall
- High efficiency clothes washers (water factor of 6.0 or less)
- High efficiency dishwashers (Energy Star rated)
- Domestic water heating system located in close proximity to point(s) of use, as feasible; use of tankless and on-demand water heaters as feasible
- Cooling towers must be operated at a minimum of 5.5 cycles of concentration
- Require onsite water recycling systems for wastewater discharge for commercial laundries, dye houses, food processing, certain manufacturing operations, etc. (subject to a payback threshold of five years or less). Mandate water recycling system for all new car wash facilities.
- Strict prohibition of single-pass cooling
- Irrigation system requirements
  - Weather-based irrigation controller with rain shutoff
  - o Flow sensor and master valve shutoff (large landscapes)
  - o Matched precipitation (flow) rates for sprinkler heads
  - o Drip/microsprav/subsurface irrigation where appropriate
  - o Minimum irrigation system distribution uniformity of 75 percent
  - Proper hydro-zoning, turf minimization and use of native/drought tolerant plant materials
  - Use of landscape contouring to minimize precipitation runoff

#### Metering

- All dwelling units/commercial spaces require individual metering and billing for water use
- All irrigated landscapes of 5,000 square feet or more require separate metering or submetering

Mandated use of recycled water (where available) for appropriate end uses (irrigation, cooling towers, sanitary)

Standard Urban Stormwater Mitigation Plan (SUSMP). Compliance with all City of Los Angeles SUSMP requirements, and encouraging implementation of Best Management Practices that have stormwater recharge or reuse benefits. For more information, visit: http://www.lastormwater.org/Siteorg/businesses/susmp/susmpintro.htm.

Water Saving E	quipment or P	rograms for New Construction	
Equipment Type	Water Efficient Standard	Program and Contact Information	
High Efficiency (H.E.) Toilets – includes dual- flush	1.28 gallons/flush (gpf)	Commercial/Multifamily Water Conservation Rebate program (\$50/each), call 1-877-728-2282 or www.ladwp.com/cwr	
Ultra Low Water Urinals	0.25 gpf or less	Commercial/Multifamily Water Conservation Rebate program (from \$250/each to \$500 each), call 1-877-728-2282 or www.ladwp.com/cwr	
Bathroom faucet aerators	1.5 gallons/minute (gpm), 1.0 gpm, or 0.5 gpm	Free water Conservation Equipment program, 1-800-544-4498, press "0"	
Public restroom self-closing faucets	self-closing	No rebate from LADWP	
Limit of one showerhead per stall		N/A	
Showerheads	2.0 gpm	Free water Conservation Equipment program, 1-800-544-4498, press "0"	
H.E. Residential Clothes Washers – inside of individual dwelling units	6.0 Water Factor (WF) or less	Consumer Rebate Program (\$250/each) – call 1-800-374-2224 or www.ladwp.com/crp	
H.E. Commercial Clothes Washers – in common areas or Laundromats	7.5 WF or less	Commercial/Multifamily Water Conservation Rebate program (from \$200/each to \$250 each), call 1-877-728-2282 or <a href="https://www.ladwp.com/cwr">www.ladwp.com/cwr</a>	
H.E. Dishwashers	Energy Star	No rebate from LADWP	
Domestic Hot Water Systems	Close Proximity to point(s) of use, as feasible; use of tankless and ondemand water heaters as feasible	No rebate currently given by LADWP	
Cooling Tower Water Treatment – 5.5 Cycles of Concentration (COC) w/metering	pH treatment or equivalent	Commercial/Multifamily Water Conservation Rebate program (\$3,000/ each pH Conductivity controller), 10877-728-2282 or <a href="www.ladwp.com/cwr">www.ladwp.com/cwr</a> . Additional monies may be available through the Technical Assistance Program. 1-800-544-4498 press "3" or <a href="http://www.ladwp.com">http://www.ladwp.com</a>	
Strict prohibition of single- pass cooling		N/A	
Weather-based irrigation controller (landscape 2,500 s.f. or more)	Weather-Based irrigation controller using weather date wirelessly or from a weather sensor or sensors	Commercial/Multifamily Water Conservation Rebate program (\$1,000 per acre controlled), call 1-877-728-2282 or <a href="https://www.ladwp.com/cwr">www.ladwp.com/cwr</a>	
		No rebate currently given by LADWP	
Matched precipitation (flow) rates for sprinkler heads		Potential rebates for rotator nozzles through the Commercial/Multifamily Water Conservation Rebate Program (\$5/nozzle – 25 minimum purchase) call 1-877-728-2282 or www.ladwp.com/cwr	

Equipment Type	Water Efficient Standard	Program and Contact Information
Drip/microspray/subsurface irrigation where appropriate		Potential rebates offered through the Technical Assistance Program of \$1.50/1,000 gallons of water served/1st 2 years a project is in. Call 1-800-544-4498, press "3" or http://www.ladwp.com/ladwo/cms/ladwp001799.jsp
Minimum irrigation system distribution uniformity	75%	Potential rebates offered through the Technical Assistance Program of \$1.50/1,000 gallons of water served/1st 2 years a project is in. Call 1-800-544-4498, press "3" or http://www.ladwp.com/ladwo/cms/ladwp001799.jsp
Proper hydro-zoning, turf minimization and use of native/drought tolerant plant materials		Potential rebates offered through the Technical Assistance Program of \$1.50/1,000 gallons of water served/1st 2 years a project is in. Call 1-800-544-4498, press "3" or http://www.ladwp.com/ladwo/cms/ladwp001799.jsp
Use of landscape contouring to minimize precipitation runoff		No rebate currently given by LADWP
All dwelling units/commercial spaces require individual metering and billing for water use		No rebate currently given by LADWP
All irrigated landscapes of 5,000 square feet or more require separate metering or submetering		No rebate currently given by LADWP
Mandated use of recycled water (where available)		No rebate currently given by LADWP
Standard Urban Storm Water Mitigation Plan		No rebate currently given by LADWP

For more information about any of the water conservation measures, please contact Robert Estrada, Water Conservation Specialist, at (213) 367-0276 or <a href="mailto:Robert.Estrada@ladwp.com">Robert.Estrada@ladwp.com</a>.

Please include LADWP in your mailing list and address it to the undersigned in Room 1044. If there are any additional questions, please contact Hal Messinger of my staff at (213) 367-1276.

Sincerely,

Charles C. Holloway

Manager of Environmental Planning and Assessment

Charles C. Halley

HM:rp

c: Hal Messinger Robert Estrada

From: Alex Robinson [alexander.robinson@gmail.com]
Sent: Wednesday, October 07, 2009 10:38 AM

To: Maria.Martin@lacity.org
Subject: Echo Park Comments

Dear Maria,

From what I have seen from the design, my main concern is that by not replacing the wetland / grass islands the bird population will not have a place to be unmolested by people (even if it's just noise and movement), and urban animals (rats!). Every evening I see those islands, they are heavily populated by birds, presumably nesting. I think that in an urban environment they need all the protection they can get. With nesting, in particular, maintaining that distance from disturbance is critical. It would a shame if the habitat potential of the lake was diminished by all of these improvements.

I know that the wetland island technology and execution has progressed. Please don't reduce the habitat!

Here is a place that creates these islands: <a href="http://www.floatingislandswest.com/">http://www.floatingislandswest.com/</a>

I and other residents have brought this up in meeting, with no real consideration or expert response.

Best,

#### Alex

Alexander A Robinson
SWA Group, Los Angeles
Lecturer, USC Dept. of Landscape Architecture
livingsystemsla.com
1417 Calumet Ave
Los Angeles, CA 90026

From: idatalalla@aol.com

Sent: Thursday, October 08, 2009 9:16 PM

To: maria.martin@lacity.org

Cc: Alejandra.Marroquin@lacity.org; Mitch.OFarrell@lacity.org; lynnelle.Scaduto@lacity.org;

Alfred.Mata@lacity.org; shahram.kharaghani@lacity.org

**Subject:** Additional Comments- Prop O

Ms. Maria Martin Environmental Supervisor 1, Bureau of Engineering Department of Public Works, City of Los Angeles.

Dear Ms. Martin:

Re: Prop O at Echo Lake.

Earlier I had made a few observations and expressed concerns. Please add these last few comments to ones made earlier.

(a) Given that historically, the Lake once had two sections with Lotus, why is a larger Lotus bed not being considered or reverting to the two locations a consideration?

I feel that a larger Lotus bed would benefit the community and enhance the beauty of the Lake.

(b) Scant attention has been given to entryways into Echo Park.

The absence of framing does not enhance the Park.

- e.g At the Park Avenue -Lemoyne entrance (Main entrance) one is presented with the public toilets to the left and to the right five rolling metal trash bins.
  - -- The entrance from Montrose that overlooks the Lotus bed has no distinctive feature except for a rusting water line.
  - -- Park and Echo Park corner frames the island so a broad walk with railing will be a detraction.
    - It will also bring people too close to the waterfowl. This is not a petting zoo and an effort to change the culture of feeding waterfowl must be discouraged.
- -- Another area of concern is at the southern end. The pump house must fall below the sight line as one comes off the Echo Park exit. Could it be placed slightly off center to the right and built into the hillside/slope? Architecture to mirror that of the boat house or the Recreation Center.
- (c) The necklace of marshland skirting the sides of Lake provides no protective nesting areas for waterfowl. Furthermore, the cost of maintaining these wetlands has not been addressed.
- (d) While Prop O will address the issue of the Lake and water improvement, the surrounding landscape has been as neglected and needs to be looked at in greater detail.

Is there any way that additional funds can be identified for improving the surrounding area?

- (e) Site use of the land area must be planned more thoroughly and permanent features such as electrical outlets, cable lines etc considered. The constant digging up of the lawns to accommodate a variety of events and uses causes erosion and impacts the landscape over time. Also a designated cooking area must be determined and special floor treatment considered.
- (f) The maintenance budget and staffing has to be a consideration that must be included in the operations budget.
- (g) The safety of wildlife/waterfowl must be a concern throughout the process. Who is responsible for monitoring this? Detailed plans are necessary and should also include post Prop O monitoring.
- (h) Perhaps not part of the environmental report but one that is needed is a large outdoor story board in Spanish, English, Chinese, Korean, Thai and Tagalong to prepare and inform the community of the Prop O Project. Many in the community do not attend meetings but use the park throughout the day.
- (i) Additional information is needed on the maintenance of the Lotus bed and type selected. What has become of earlier attempts to grow the lotus seeds taken from the Lotus bed? Will some of these be included? What is the long term care and monitoring?
- (j) How will soil left out to dry be controlled so that it does not blow all over the place? Will contaminated soil be identified as such and fenced off?

With thanks and looking forward to the report.

Ida Talalla Echo Park Trash Abatement Project.

From: Teresa Grow/Madison&Grow [teresa@madisonandgrow.com]

Sent: Thursday, October 08, 2009 2:28 PM

To: Maria.Martin@lacity.org
Subject: echo park comments

dear maria

i am concerned about the birds of echo park during and after this project. please insist that wildlife of echo park lake are taken into consideration during this terrific project. i ran around silver lake reservoir this morning and saw 8 great blue herons in the trees that they nested in the spring!!! priceless!!!!!

thank you for your consideration

teresa grow

teresa grow partner

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From: Jason Schmidt [jschmidt@treepeople.org]

**Sent:** Friday, October 09, 2009 4:33 PM

To: Maria.Martin@lacity.org
Subject: Echo Park Comments

Hello Maria,

Sorry this is coming to you last minute, but I have been out sick all week...

Here are some comments for the Draft EIR for Echo Park Lake:

- 1. There should be a thorough investigation into the costs (not just monetary, but also ecological) of draining the lake in parts, as opposed to all at once.
- 2. What will be the effects of the berm on water temperature and quality in the lake? By lowering the overall lake level to meet the criteria to take it out of the province of Dams and Safety, water temperature will certainly rise and may have an overall negative impact on water quality.
- 3. The area of the lotus beds needs to be revisited, as it appeared on the day of the site tour that members from the design team were not aware of the stormwater inlet at the northwest lobe of the lake. How will this stormwater inlet affect the lotus beds (as it was most likely the culprit to their demise), and what remediation can be done at the inlet?
- 4. Are there any plans to look into mycoremediation (using fungal networks for the breakdown of hydrocarbons, heavy metals, petroleum related pollutants, among other pollutants that are on the TMDL list) for stormwater inlets to the lake?

Again, I am sorry for being so late with these comments. Thanks for taking the time to work on this project.

Jason Schmidt
Program Associate, Natural Urban Systems Group
TreePeople
12601 Mulholland Drive
Beverly Hills, CA 90210
jschmidt@treepeople.org
p: 818-623-4884
f: 818-753-4635
Helping Nature Heal our Cities
Check out the new treepeople.org

From: Peter Garrison [pgarrison@earthlink.net]
Sent: Peter Garrison [pgarrison@earthlink.net]
Friday, October 09, 2009 5:36 PM

To: maria.martin@lacity.org
Subject: Echo Park comments

Please add the names Peter Garrison and Nancy Salter to those strongly encouraging the city to be mindful of the birds whose paths take them to Echo Park Lake. Our understanding is that by avoiding draining the whole lake at once the chances of various birds remaining in residence is much greater than otherwise.

Thank you.
Peter Garrison
Nancy Salter
1613 Altivo Way
Los Angeles, CA 90026





#### ECHO PARK LAKE REHABILITATION PROJECT September 23, 2009

Logan Street Elementary School – 1711 Montana Street SPEAKER/COMMENT CARD

Please check the appropriate box below:					
I wish to speak at the Design Update / Scoping Meeting.					
I ha	ve provided my comments on this sheet.				
Name:	Ida Talalla				
Organization:	Rono Park 14P				
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#### ECHO PARK LAKE REHABILITATION PROJECT September 23, 2009

Logan Street Elementary School – 1711 Montana Street SPEAKER/COMMENT CARD

Please check the	he appropriate box below:
WI W	rish to speak at the Design Update / Scoping Meeting.
I h	ave provided my comments on this sheet.
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#### ECHO PARK LAKE REHABILITATION PROJECT September 23, 2009

Logan Street Elementary School – 1711 Montana Street SPEAKER/COMMENT CARD

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#### ECHO PARK LAKE REHABILITATION PROJECT September 23, 2009

Logan Street Elementary School – 1711 Montana Street SPEAKER/COMMENT CARD

Please check the	appropriate box below:	
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COMMENTS:		
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#### ECHO PARK LAKE REHABILITATION PROJECT September 23, 2009

Logan Street Elementary School – 1711 Montana Street SPEAKER/COMMENT CARD

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#### ECHO PARK LAKE REHABILITATION PROJECT September 23, 2009

Logan Street Elementary School – 1711 Montana Street SPEAKER/COMMENT CARD

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# DRAFT ENVIRONMENTAL IMPACT REPORT APPENDIX B

**AIR QUALITY AND NOISE IMPACT REPORT** 



**Prepared for** 

AECOM

**Prepared by** 

**TERRY A. HAYES ASSOCIATES LLC** 

## ECHO PARK LAKE REHABILITATION PROJECT AIR QUALITY AND NOISE IMPACT REPORT

#### **Prepared for**

AECOM 515 S Flower Street, 9th Floor Los Angeles, CA 90071

#### Prepared by

TERRY A. HAYES ASSOCIATES LLC 8522 National Boulevard, Suite 102 Culver City, CA 90232

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#### 1.0 SUMMARY OF FINDINGS

Terry A. Hayes Associates LLC has completed an air quality and noise impact analysis for the proposed Echo Park Lake Rehabilitation Project. Key findings are listed below.

#### 1.1 AIR QUALITY

- Regional Construction Emissions Regional nitrogen oxide emissions would exceed
  the applicable standards without mitigation. Mitigation Measures AQ7 through AQ10
  would reduce nitrogen oxide emissions. However, even with the implementation of
  mitigation, regional nitrogen oxide emissions would still result in a significant air quality
  impact.
- Localized Construction Emissions Localized particulate matter emissions would exceed the applicable standards. Mitigation Measures AQ1 through AQ6 would reduce nitrogen oxide emissions. However, even with the implementation of mitigation, localized particulate matter emissions would still result in a significant impact.
- Construction Toxic Air Contaminants Toxic air contaminant emissions associated with construction activity would result in a less-than-significant impact. Mitigation measures are not required.
- Construction Odors Construction odors would result in a significant impact without mitigation. Mitigation Measures AQ11 through AQ13 would control noxious odors, and construction odors would result in a less-than-significant impact after implementation of mitigation.
- Cumulative Impacts The proposed project would contribute to a cumulatively considerable impact as a result of project-related nitrogen oxide emissions. Mitigation Measures AQ7 through AQ10 would reduce nitrogen oxide emissions. However, even with the implementation of mitigation, regional nitrogen oxide emissions would still result in a cumulatively considerable impact.
- Global Warming Impacts The proposed project would reduce municipal water required to maintain the water level of the Lake, thus reducing associated greenhouse gas emissions. Long-term greenhouse gas emissions would result in a less-thansignificant impact. Mitigation measures are not required.

#### 1.2 NOISE AND VIBRATION

- Construction Noise Construction activity would exceed the applicable standards.
   Mitigation Measures N1 through N4 would reduce noise levels. However, even with the implementation of mitigation, construction noise would still result in a significant impact.
- **Vibration** Construction vibration impacts would result in a less-than-significant impact. Mitigation measures are not required.
- **Cumulative Impacts** Cumulative noise would result in a less-than-significant noise and vibration impact. Mitigation measures are not required.

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#### 2.0 INTRODUCTION

#### 2.1 PURPOSE

The purpose of this report is to evaluate the potential air quality and noise impacts of the proposed Echo Lake Park Rehabilitation Project (proposed project). Potential air quality and noise impacts are analyzed for construction and operation of the proposed project. Mitigation measures for potentially significant impacts are recommended when appropriate to reduce air quality emissions and noise and vibration levels.

#### 2.2 PROJECT DESCRIPTION

The project site is located at 751 Echo Park Avenue within the Echo Park/Silver Lake community of the City of Los Angeles. The project site is bound by Park Avenue on the north, Echo Park Avenue on the east, Bellevue Avenue on the south, and Glendale Boulevard on the west. The project site is also located within the Los Angeles River Watershed. The Hollywood Freeway (US 101) is oriented in an east-west direction in this area of Los Angeles, and is located approximately 0.05 mile (250 feet) south of the project site. The Pasadena Freeway (SR 110) is oriented in a north-south direction and is located approximately 0.8 mile east of the project site. The project site includes a 24-acre portion of Echo Park Lake (Park) which is an open-space recreational facility. The lake occupies 13 acres and is surrounded by 11 acres of open recreational space. A two-acre portion of the Park is located on the south side of Bellevue Avenue and a five-acre portion of the Park is located further south, on the south side of US 101. These seven acres are not a part of the project site.

The estimated duration of the construction of the proposed project is 26 months lasting from January 2011 through February 2013. It is anticipated that the project site would be fenced and closed to the public during the construction phase due to the construction activities. However, the two-acre portion of Echo Park Lake that is located on the south side of Bellevue Avenue and five-acre portion located directly south of US 101 would not be closed during the construction activities on the project site.

Construction activities would include draining the entire Lake to and the sediment that may have accumulated within the Lake. A majority of the removed sediment would require drying, handling and hauling by trucks from the project site to a specified disposal facility. However, any existing soil or sediment that is determined to be useable will be re-used within the Lake bed. The Lake bed would be lined with bentonite-enhanced clay. The existing soil within the Lake bed includes some natural soft and moist clay. The bentonite would be transported from the specified commercial facility to the project site by truck and then mixed with the existing soil within the Lake bed using low-bearing pressure tracked vehicles. It is anticipated that the majority of staging and storage for the Lake bed improvements would occur within the Lake bed itself. It is anticipated that the Lake bed improvements would occur concurrently along with the improvements to the adjacent Park. This would ultimately depend on the amount of available staging space within or near the Park.

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### 3.0 AIR QUALITY

This section examines the degree to which the proposed project may cause significant adverse changes to air quality. Both short-term construction emissions occurring from activities, such as site grading and haul truck trips, and long-term effects related to the ongoing operation of the proposed project are discussed in this section. This analysis focuses on air pollution from two perspectives: daily emissions and pollutant concentrations. "Emissions" refer to the quantity of pollutants released into the air, measured in pounds per day (ppd). "Concentrations" refer to the amount of pollutant material per volumetric unit of air, measured in parts per million (ppm) or micrograms per cubic meter ( $\mu$ g/m³).

## 3.1 POLLUTANTS & EFFECTS

Criteria air pollutants are defined as pollutants for which the federal and State governments have established ambient air quality standards for outdoor concentrations to protect public health. The federal and State standards have been set at levels above which concentrations could be harmful to human health and welfare. These standards are designed to protect the most sensitive persons from illness or discomfort. Pollutants of concern include carbon monoxide (CO), ozone (O<sub>3</sub>), nitrogen dioxide (NO<sub>2</sub>), sulfur dioxide (SO<sub>2</sub>), particulate matter 2.5 microns or less in diameter (PM<sub>2.5</sub>), particulate matter ten microns or less in diameter (PM<sub>10</sub>), and lead (Pb). These pollutants are discussed below.

Carbon Monoxide. CO is a colorless and odorless gas formed by the incomplete combustion of fossil fuels. CO is emitted almost exclusively from motor vehicles, power plants, refineries, industrial boilers, ships, aircraft, and trains. In urban areas such as the project location, automobile exhaust accounts for the majority of CO emissions. CO is a non-reactive air pollutant that dissipates relatively quickly, so ambient CO concentrations generally follow the spatial and temporal distributions of vehicular traffic. CO concentrations are influenced by local meteorological conditions, primarily wind speed, topography, and atmospheric stability. CO from motor vehicle exhaust can become locally concentrated when surface-based temperature inversions are combined with calm atmospheric conditions, a typical situation at dusk in urban areas between November and February. The highest levels of CO typically occur during the colder months of the year when inversion conditions are more frequent. In terms of health, CO competes with oxygen, often replacing it in the blood, thus reducing the blood's ability to transport oxygen to vital organs. The results of excess CO exposure can be dizziness, fatigue, and impairment of central nervous system functions.

**Ozone**.  $O_3$  is a colorless gas that is formed in the atmosphere when reactive organic gases (ROG), which includes volatile organic compounds (VOC), and nitrogen oxides (NO<sub>X</sub>) react in the presence of ultraviolet sunlight.  $O_3$  is not a primary pollutant; it is a secondary pollutant formed by complex interactions of two pollutants directly emitted into the atmosphere. The primary sources of ROG and  $NO_X$ , the components of  $O_3$ , are automobile exhaust and industrial sources. Meteorology and terrain play major roles in  $O_3$  formation. Ideal conditions occur during summer and early autumn, on days with low wind speeds or stagnant air, warm temperatures, and cloudless skies. The greatest source of smog-producing gases is the automobile. Short-term exposure (lasting for a few hours) to  $O_3$  at levels typically observed in Southern California can result in breathing pattern changes, reduction of breathing capacity,

<sup>&</sup>lt;sup>1</sup>Inversion is an atmospheric condition in which a layer of warm air traps cooler air near the surface of the earth, preventing the normal rising of surface air.

increased susceptibility to infections, inflammation of the lung tissue, and some immunological changes.

**Nitrogen Dioxide**.  $NO_2$ , like  $O_3$ , is not directly emitted into the atmosphere but is formed by an atmospheric chemical reaction between nitric oxide (NO) and atmospheric oxygen. NO and  $NO_2$  are collectively referred to as  $NO_X$  and are major contributors to  $O_3$  formation.  $NO_2$  also contributes to the formation of  $PM_{10}$ . High concentrations of  $NO_2$  can cause breathing difficulties and result in a brownish-red cast to the atmosphere with reduced visibility. There is some indication of a relationship between  $NO_2$  and chronic pulmonary fibrosis. Some increase of bronchitis in children (two and three years old) has also been observed at concentrations below 0.3 ppm.

**Sulfur Dioxide**.  $SO_2$  is a colorless, pungent gas formed primarily by the combustion of sulfur-containing fossil fuels. Main sources of  $SO_2$  are coal and oil used in power plants and industries. Generally, the highest levels of  $SO_2$  are found near large industrial complexes. In recent years,  $SO_2$  concentrations have been reduced by the increasingly stringent controls placed on stationary source emissions of  $SO_2$  and limits on the sulfur content of fuels.  $SO_2$  is an irritant gas that attacks the throat and lungs. It can cause acute respiratory symptoms and diminished ventilator function in children.  $SO_2$  can also harm plant leaves and erode iron and steel.

**Particulate Matter**. Particulate matter pollution consists of very small liquid and solid particles floating in the air, which can include smoke, soot, dust, salts, acids, and metals. Particulate matter also forms when gases emitted from industries and motor vehicles undergo chemical reactions in the atmosphere.  $PM_{2.5}$  and  $PM_{10}$  represent fractions of particulate matter. Fine particulate matter, or  $PM_{2.5}$ , is roughly 1/28 the diameter of a human hair.  $PM_{2.5}$  results from fuel combustion (e.g. motor vehicles, power generation, and industrial facilities), residential fireplaces, and wood stoves. In addition,  $PM_{2.5}$  can be formed in the atmosphere from gases such as  $SO_2$ ,  $NO_X$ , and VOC. Inhalable particulate matter, or  $PM_{10}$ , is about 1/7 the thickness of a human hair. Major sources of  $PM_{10}$  include crushing or grinding operations; dust stirred up by vehicles traveling on roads; wood burning stoves and fireplaces; dust from construction, landfills, and agriculture; wildfires and brush/waste burning; industrial sources; windblown dust from open lands; and atmospheric chemical and photochemical reactions.

 $PM_{2.5}$  and  $PM_{10}$  pose a greater health risk than larger-size particles. When inhaled, these tiny particles can penetrate the human respiratory system's natural defenses and damage the respiratory tract.  $PM_{2.5}$  and  $PM_{10}$  can increase the number and severity of asthma attacks, cause or aggravate bronchitis and other lung diseases, and reduce the body's ability to fight infections. Very small particles of substances, such as lead, sulfates, and nitrates can cause lung damage directly. These substances can be absorbed into the blood stream and cause damage elsewhere in the body. These substances can transport absorbed gases, such as chlorides or ammonium, into the lungs and cause injury. Whereas  $PM_{10}$  tends to collect in the upper portion of the respiratory system,  $PM_{2.5}$  is so tiny that it can penetrate deeper into the lungs and damage lung tissues. Suspended particulates also damage and discolor surfaces on which they settle, as well as produce haze and reduce regional visibility.

**Lead**. Pb in the atmosphere occurs as particulate matter. Sources of lead include leaded gasoline; the manufacturers of batteries, paint, ink, ceramics, and ammunition; and secondary lead smelters. Prior to 1978, mobile emissions were the primary source of atmospheric lead. Between 1978 and 1987, the phase-out of leaded gasoline reduced the overall inventory of airborne lead by nearly 95 percent. With the phase-out of leaded gasoline, secondary lead

smelters, battery recycling, and manufacturing facilities have become lead-emission sources of greater concern.

Prolonged exposure to atmospheric lead poses a serious threat to human health. Health effects associated with exposure to lead include gastrointestinal disturbances, anemia, kidney disease, and in severe cases, neuromuscular and neurological dysfunction. Of particular concern are low-level lead exposures during infancy and childhood. Such exposures are associated with decrements in neurobehavioral performance, including intelligence quotient performance, psychomotor performance, reaction time, and growth.

**Toxic Air Contaminants**. A substance is considered toxic if it has the potential to cause adverse health effects in humans. A toxic substance released into the air is considered a toxic air contaminant (TAC). TACs are identified by State and federal agencies based on a review of available scientific evidence. In the State of California, TACs are identified through a two-step process that was established in 1983 under the Toxic Air Contaminant Identification and Control Act. This two-step process of risk identification and risk management was designed to protect residents from the health effects of toxic substances in the air.

**Greenhouse Gases**. Greenhouse gas (GHG) emissions refer to a group of emissions that are generally believed to affect global climate conditions. The greenhouse effect compares the Earth and the atmosphere surrounding it to a greenhouse with glass panes. The glass panes in a greenhouse let heat from sunlight in and reduce the amount of heat that escapes. GHGs, such as carbon dioxide (CO<sub>2</sub>), methane (CH<sub>4</sub>), and nitrous oxide (N<sub>2</sub>O), keep the average surface temperature of the Earth close to 60 degrees Fahrenheit (°F). Without the greenhouse effect, the Earth would be a frozen globe with an average surface temperature of about 5°F.

In addition to  $CO_2$ ,  $CH_4$ , and  $N_2O$ , GHGs include hydrofluorocarbons, perfluorocarbons, sulfur hexafluoride, and water vapor. Of all the GHGs,  $CO_2$  is the most abundant pollutant that contributes to climate change through fossil fuel combustion.  $CO_2$  comprised 83.3 percent of the total GHG emissions in California in  $2002.^2$  The other GHGs are less abundant but have higher global warming potential than  $CO_2$ . To account for this higher potential, emissions of other GHGs are frequently expressed in the equivalent mass of  $CO_2$ , denoted as  $CO_2e$ . The  $CO_2e$  of  $CH_4$  and  $N_2O$  represented 6.4 and 6.8 percent, respectively, of the 2002 California GHG emissions. Other high global warming potential gases represented 3.5 percent of these emissions.<sup>3</sup> In addition, there are a number of human-made pollutants, such as  $CO_2$ , non-methane  $VOC_2$ , and  $SO_2$ , that have indirect effects on terrestrial or solar radiation absorption by influencing the formation or destruction of other climate change emissions.

### 3.2 REGULATORY SETTING

### **Federal**

**United States Environmental Protection Agency**. The Federal Clean Air Act (CAA) governs air quality in the United States. The United States Environmental Protection Agency (USEPA) is responsible for enforcing the CAA. USEPA is also responsible for establishing the National Ambient Air Quality Standards (NAAQS). NAAQS are required under the 1977 CAA and

<sup>&</sup>lt;sup>2</sup>California Environmental Protection Agency, *Climate Action Team Report to Governor Schwarzenegger* and the Legislature, March 2006, p. 11.

<sup>&</sup>lt;sup>3</sup>Ibid.

subsequent amendments. USEPA regulates emission sources that are under the exclusive authority of the federal government, such as aircraft, ships, and certain types of locomotives. USEPA has jurisdiction over emission sources outside State waters (e.g., beyond the outer continental shelf) and establishes various emission standards, including those for vehicles sold in States other than California. Automobiles sold in California must meet stricter emission standards established by CARB.

As required by the CAA, NAAQS have been established for seven major air pollutants: CO, NO<sub>2</sub>, O<sub>3</sub>, PM<sub>2.5</sub>, PM<sub>10</sub>, SO<sub>2</sub>, and Pb. The CAA requires USEPA to designate areas as attainment, nonattainment, or maintenance (previously nonattainment and currently attainment) for each criteria pollutant based on whether the NAAQS have been achieved. The federal standards are summarized in **Table 3-1**. The USEPA has classified the South Coast Air Basin (Basin) as maintenance for CO and nonattainment for O<sub>3</sub>, PM<sub>2.5</sub>, and PM<sub>10</sub>.

### State

California Air Resources Board. In addition to being subject to the requirements of CAA, air quality in California is also governed by more stringent regulations under the California Clean Air Act (CCAA). In California, the CCAA is administered by the California Air Resources Board (CARB) at the State level and by the air quality management districts and air pollution control districts at the regional and local levels. The CARB, which became part of the California Environmental Protection Agency in 1991, is responsible for meeting the State requirements of the CAA, administering the CCAA, and establishing the California Ambient Air Quality Standards (CAAQS). The CCAA, as amended in 1992, requires all air districts in the State to endeavor to achieve and maintain the CAAQS. CAAQS are generally more stringent than the corresponding federal standards and incorporate additional standards for sulfates, hydrogen sulfide, vinyl chloride, and visibility-reducing particles. CARB regulates mobile air pollution sources, such as motor vehicles. CARB is responsible for setting emission standards for vehicles sold in California and for other emission sources, such as consumer products and certain off-road equipment. CARB established passenger vehicle fuel specifications, which became effective in March 1996. CARB oversees the functions of local air pollution control districts and air quality management districts, which, in turn administer air quality activities at the regional and county levels. The State standards are summarized in Table 3-1.

The CCAA requires CARB to designate areas within California as either attainment or nonattainment for each criteria pollutant based on whether the CAAQS have been achieved. Under the CCAA, areas are designated as nonattainment for a pollutant if air quality data shows that a State standard for the pollutant was violated at least once during the previous three calendar years. Exceedances that are affected by highly irregular or infrequent events are not considered violations of a State standard and are not used as a basis for designating areas as nonattainment. Under the CCAA, the Los Angeles County portion of the Basin is designated as a nonattainment area for O<sub>3</sub>, PM<sub>2.5</sub>, and PM<sub>10</sub>.<sup>4</sup>

<sup>&</sup>lt;sup>4</sup>CARB, Area Designation Maps, available at http://www.arb.ca.gov/desig/adm/adm.htm, accessed October 27, 2009.

		California			Federal			
Pollutant	Averaging Period	Standards	Attainment Status	Standards	Attainment Status			
Ozone (O <sub>3</sub> )	1-hour	0.09 ppm (180 μg/m³)	Nonattainment					
	8-hour	0.070 ppm (137 μg/m³)	n/a	0.075 ppm (147 μg/m³)	Nonattainment			
Doggirable	24-hour	50 μg/m <sup>3</sup>	Nonattainment	150 μg/m <sup>3</sup>	Nonattainment			
Respirable Particulate Matter (PM <sub>10</sub> )	Annual Arithmetic Mean	20 μg/m³	Nonattainment					
Fine	24-hour			35 μg/m <sup>3</sup>	Nonattainment			
Particulate Matter (PM <sub>2.5</sub> )	Annual Arithmetic Mean	12 μg/m³	Nonattainment	15.0 μg/m <sup>3</sup>	Nonattainment			
Carbon Monoxide (CO)	8-hour	9.0 ppm (10 mg/m <sup>3</sup> )	Attainment	9 ppm (10 mg/m <sup>3</sup> )	Maintenance			
	1-hour	20 ppm (23 mg/m <sup>3</sup> )	Attainment	35 ppm (40 mg/m <sup>3</sup> )	Maintenance			
Nitrogen Dioxide (NO <sub>2</sub> )	Annual Arithmetic Mean	0.030 ppm (57 μg/m³)	Attainment	0.053 ppm (100 μg/m³)	Attainment			
	1-hour	0.18 ppm (338 μg/m³)	Attainment					
Sulfur Dioxide (SO <sub>2</sub> )	Annual Arithmetic Mean			0.030 ppm (80 μg/m³)	Attainment			
	24-hour	0.04 ppm (105 μg/m³)	Attainment	0.14 ppm (365 μg/m³)	Attainment			
	3-hour							
	1-hour	0.25 ppm (655 μg/m³)	Attainment					
Land (Db.)	30-day average	1.5 μg/m <sup>3</sup>	Attainment					
Lead (Pb)	Calendar Quarter			0.15 μg/m <sup>3</sup>	Attainment			

### Local

**South Coast Air Quality Management District**. The 1977 Lewis Air Quality Management Act created the South Coast Air Quality Management District (SCAQMD) to coordinate air quality planning efforts throughout Southern California. This Act merged four county air pollution control agencies into one regional district to better address the issue of improving air quality in Southern California. Under the Act, renamed the Lewis-Presley Air Quality Management Act in 1988, the SCAQMD is the agency principally responsible for comprehensive air pollution control in the region. Specifically, the SCAQMD is responsible for monitoring air quality, as well as

planning, implementing, and enforcing programs designed to attain and maintain State and federal ambient air quality standards in the district. Programs that were developed include air quality rules and regulations that regulate stationary sources, area sources, point sources, and certain mobile source emissions. The SCAQMD is also responsible for establishing stationary source permitting requirements and for ensuring that new, modified, or relocated stationary sources do not create net emission increases.

The SCAQMD monitors air quality within the project area. The SCAQMD has jurisdiction over an area of 10,743 square miles, consisting of Orange County; the non-desert portions of Los Angeles, Riverside, and San Bernardino counties; and the Riverside County portion of the Salton Sea Air Basin and Mojave Desert Air Basin. The Basin is a subregion of the SCAQMD and covers an area of 6,745 square miles. The Basin includes all of Orange County and the non-desert portions of Los Angeles, Riverside, and San Bernardino counties. The Basin is bounded by the Pacific Ocean to the west; the San Gabriel, San Bernardino and San Jacinto mountains to the north and east; and the San Diego County line to the south (**Figure 3-1**).

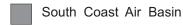
Air Quality Management Plan. All areas designated as nonattainment under the CCAA are required to prepare plans showing how the area would meet the State air quality standards by its attainment dates. The Air Quality Management Plan (AQMP) is the region's plan for improving air quality in the region. It addresses CAA and CCAA requirements and demonstrates attainment with State and federal ambient air quality standards. The AQMP is prepared by SCAQMD and the Southern California Association of Governments (SCAG). The AQMP provides policies and control measures that reduce emissions to attain both State and federal ambient air quality standards by their applicable deadlines. Environmental review of individual projects within the Basin must demonstrate that daily construction and operational emissions thresholds, as established by the SCAQMD, would not be exceeded. The environmental review must also demonstrate that individual projects would not increase the number or severity of existing air quality violations.

The 2007 AQMP was adopted by the SCAQMD on June 1, 2007. The 2007 AQMP proposes attainment demonstration of the federal  $PM_{2.5}$  standards through a more focused control of  $SO_X$ , directly-emitted  $PM_{2.5}$ , and  $NO_X$  supplemented with VOC by 2015. The eight-hour ozone control strategy builds upon the  $PM_{2.5}$  strategy, augmented with additional  $NO_X$  and VOC reductions to meet the standard by 2024. The 2007 AQMP also addresses several federal planning requirements and incorporates significant new scientific data, primarily in the form of updated emissions inventories, ambient measurements, new meteorological episodes, and new air quality modeling tools. The 2007 AQMP is consistent with and builds upon the approaches taken in the 2003 AQMP. However, the 2007 AQMP highlights the significant amount of reductions needed and the urgent need to identify additional strategies, especially in the area of mobile sources, to meet all federal criteria pollutant standards within the time frames allowed under the CAA.

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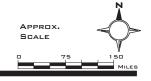


## LEGEND:



State of California

SOURCE: California Air Resources Board, State and Local Air Monitoring Network Plan, October 1998





**Toxic Air Contaminants**. The SCAQMD has a long and successful history of reducing air toxics and criteria emissions in the Basin. SCAQMD has an extensive control program, including traditional and innovative rules and policies. These policies can be viewed in the SCAQMD's *Air Toxics Control Plan for the Next Ten Years* (March 2000). To date, the most comprehensive study on air toxics in the Basin is the Multiple Air Toxics Exposure Study (MATES-III), conducted by the SCAQMD. The monitoring program measured more than 30 air pollutants, including both gases and particulates. The monitoring study was accompanied by a computer modeling study in which SCAQMD estimated the risk of cancer from breathing toxic air pollution throughout the region based on emissions and weather data. MATES-III found that the cancer risk in the region from carcinogenic air pollutants ranges from about 870 in a million to 1,400 in a million, with an average regional risk of about 1,200 in a million.

## **Global Climate Change**

In response to growing scientific and political concern with global climate change, California has recently adopted a series of laws to reduce emissions of GHGs into the atmosphere. In September 2002, Assembly Bill (AB) 1493 was enacted, requiring the development and adoption of regulations to achieve "the maximum feasible reduction of greenhouse gases" emitted by noncommercial passenger vehicles, light-duty trucks, and other vehicles used primarily for personal transportation in the State. California Governor Arnold Schwarzenegger announced, on June 1, 2005, through Executive Order S-3-05, the following GHG emission reduction targets: by 2010, reduce GHG emissions to 2000 levels; by 2020, reduce GHG emissions to 1990 levels; and by 2050, reduce GHG emissions to 80 percent below 1990 levels.

In response to the Executive Order, the Secretary of the California Environmental Protection Agency created the Climate Action Team (CAT), which, in March 2006, published the *Climate Action Team Report to Governor Schwarzenegger and the Legislature* (2006 CAT Report). The 2006 CAT Report identifies a recommended list of strategies that the State could pursue to reduce climate change GHG emissions. These are strategies that could be implemented by various State agencies to ensure that the Governor's targets are met and can be met with existing authority of the State agencies.

Assembly Bill 32. In September 2006, Governor Arnold Schwarzenegger signed the California Global Warming Solutions Act of 2006, also known as AB 32, into law. AB 32 focuses on reducing GHG emissions in California, and requires the CARB to adopt rules and regulations that would achieve greenhouse gas emissions equivalent to statewide levels in 1990 by 2020. To achieve this goal, AB 32 mandates that the CARB establish a quantified emissions cap, institute a schedule to meet the cap, implement regulations to reduce statewide GHG emissions from stationary sources, and develop tracking, reporting, and enforcement mechanisms to ensure that reductions are achieved. Because the intent of AB 32 is to limit 2020 emissions to the equivalent of 1990, and the present year (2009) is near the midpoint of this timeframe, it is expected that the regulations would affect many existing sources of GHG emissions and not just new general development projects. Senate Bill (SB) 1368, a companion bill to AB 32, requires the California Public Utilities Commission and the California Energy Commission to establish GHG emission performance standards for the generation of electricity. These standards will also apply to power that is generated outside of California and imported into the State.

AB 32 charges the CARB with the responsibility to monitor and regulate sources of GHG emissions in order to reduce those emissions. On June 1, 2007, the CARB adopted three discrete early action measures to reduce GHG emissions. These measures involved complying with a low carbon fuel standard, reducing refrigerant loss from motor vehicle air conditioning

maintenance, and increasing methane capture from landfills.<sup>5</sup> On October 25, 2007, the CARB tripled the set of previously approved early action measures. The approved measures include improving truck efficiency (i.e., reducing aerodynamic drag), electrifying port equipment, reducing perfluorocarbons from the semiconductor industry, reducing propellants in consumer products, promoting proper tire inflation in vehicles, and reducing sulfur hexaflouride emission from the non-electricity sector. The CARB has determined that the total statewide aggregated greenhouse gas 1990 emissions level and 2020 emissions limit is 427 million metric tons of  $CO_2e$ . The 2020 target reductions are currently estimated to be 174 million metric tons of  $CO_2e$ .

The CARB AB 32 Scoping Plan contains the main strategies to achieve the 2020 emissions cap. The Scoping Plan was developed by the CARB with input from the Climate Action Team and proposes a comprehensive set of actions designed to reduce overall carbon emissions in California, improve the environment, reduce oil dependency, diversify energy sources, and enhance public health while creating new jobs and improving the State economy. The GHG reduction strategies contained in the Scoping Plan include direct regulations, alternative compliance mechanisms, monetary and non-monetary incentives, voluntary actions, and market-based mechanisms such as a cap-and-trade system. The measures in the Scoping Plan adopted by the Board will be developed and put in place by 2012.

The CARB has also developed the greenhouse gas mandatory reporting regulation, which required reporting beginning on January 1, 2008 pursuant to requirements of AB 32. The regulations require reporting for certain types of facilities that make up the bulk of the stationary source emissions in California. The regulation language identifies major facilities as those that generate more than 25,000 metric tons of  $CO_2$  per year. Cement plants, oil refineries, electric generating facilities/providers, co-generation facilities, and hydrogen plants and other stationary combustion sources that emit more than 25,000 metric tons of  $CO_2$  per year, make up 94 percent of the point source  $CO_2$  emissions in California.

**CEQA Guideline Amendments**. As directed by Senate Bill 97, the Natural Resources Agency adopted amendments to the CEQA Guidelines for greenhouse gas emissions on December 30, 2009. The amendments became effective March 18, 2010. The CEQA Guideline amendments provide guidance to public agencies regarding the analysis and mitigation of the effects of GHG emissions in CEQA documents. Noteworthy revisions to the CEQA Guidelines include:

- Lead agencies should quantify all relevant GHG emissions and consider the full range of project features that may increase or decrease GHG emissions as compared to the existing setting;
- Consistency with the CARB Scoping Plan is not a sufficient basis to determine that a project's GHG emissions would not be cumulatively considerable;
- A lead agency may appropriately look to thresholds developed by other public agencies, including the CARB's recommended CEQA thresholds;
- To qualify as mitigation, specific measures from an existing plan must be identified and incorporated into the project. General compliance with a plan, by itself, is not mitigation;
- The effects of GHG emissions are cumulative and should be analyzed in the context of CEQA's requirements for cumulative impact analysis; and
- Given that impacts resulting from GHG emissions are cumulative, significant advantages may result from analyzing such impacts on a programmatic level. If analyzed properly,

<sup>&</sup>lt;sup>5</sup>California Air Resources Board, *Proposed Early Action Measures to Mitigate Climate Change in California*, April 20, 2007.

later projects may tier, incorporate by reference, or otherwise rely on the programmatic analysis.

Senate Bill 375. California Senate Bill (SB) 375, passed September 30, 2008, provides a means for achieving AB 32 goals through regulation of cars and light trucks. SB 375 aligns three critical policy areas of importance to local government: (1) regional long-range transportation plans and investments; (2) regional allocation of the obligation for cities and counties to zone for housing; and (3) a process to achieve greenhouse gas emissions reductions targets for the transportation sector. SB 375 establishes a process for CARB to develop the GHG emissions reductions targets for each region (as opposed to individual local governments or households). CARB must take certain factors into account before setting the targets, such as considering the likely reductions that will result from actions to improve the fuel efficiency of the Statewide fleet and regulations related to the carbon content of fuels (low carbon fuels). CARB must also convene a Regional Targets Advisory Committee, which includes representation from the League of California Cities, California State Association of Counties, metropolitan planning organizations, developers, planning organizations and other stakeholder groups. Furthermore, before setting the targets for each region, CARB is required to exchange technical information with the Metropolitan Planning Organizations (MPOs) for that region and with the affected air district. SB 375 provides that the MPOs may recommend a target for its region.

SB 375 relies upon regional planning processes already underway in the 17 MPOs in the State to accomplish its objectives. The provisions related to GHG emissions only apply to the MPOs in the State, which includes 37 of the 58 counties. Most notably, the measure requires the MPO to prepare a Sustainable Communities Strategy (SCS) within the Regional Transportation Plan (RTP), which sets forth a vision for growth for the region taking into account the transportation, housing, environmental, and economic needs of the region. The SCS is the blueprint by which the region will meet its GHG emissions reductions target if there is a feasible way to do so.

SB 375 indirectly addresses another long-standing issue: single purpose State agencies. The new law will require the cooperation of CARB, the California Transportation Commission (CTC), the California Department of Transportation (Caltrans) and the State Department of Housing and Community Development (HCD). For example, SB 375 takes a first step to counter this problem by connecting the Regional Housing Needs Allocation (RHNA) to the transportation planning process. While these State agencies will be involved in setting the targets and adopting new guidelines, local governments and the MPOs will not only provide input into setting the targets, but will serve as the lead on implementation. Member cities and counties working through their MPOs are tasked with development of the new integrated regional planning and transportation strategies designed to meet the GHG targets.

SB 375 also includes a provision that applies to all regional transportation planning agencies in the State that recognizes the rural contribution towards reducing GHGs. More specifically, the bill requires regional transportation agencies to consider financial incentives for cities and counties that have rural areas or farmland, for the purposes of, for example, transportation investments for the preservation and safety of the city street or county road system, farm to market, and interconnectivity transportation needs. An MPO or county transportation agency shall also consider financial assistance for counties to address countywide service responsibilities in counties that contribute towards the GHG emissions reductions targets by implementing policies for growth to occur within their cities.

SB 375 uses California Environmental Quality Act (CEQA) streamlining as an incentive to encourage residential projects, which help achieve AB 32 goals to reduce GHG emissions. Cities and counties that find the CEQA streamlining provisions attractive have the opportunity (but not the obligation) to align their planning decisions with the decisions of the region.

SB 375 provides more certainty for local governments and developers by framing how AB 32's reduction goal from transportation for cars and light trucks will be established. It should be noted, however, that SB 375 does not prevent CARB from adopting additional regulations under its AB 32 authority. However, based on the degree of consensus around SB 375 and early indications from CARB, such actions are not anticipated in the foreseeable future.<sup>6</sup>

**CARB Guidance**. The CARB has published draft guidance for setting interim GHG significance thresholds (October 24, 2008). The guidance is the first step toward developing the recommended Statewide interim thresholds of significance for GHG emissions that may be adopted by local agencies for their own use. The guidance does not attempt to address every type of project that may be subject to CEQA, but instead focuses on common project types that are responsible for substantial GHG emissions (i.e., industrial, residential, and commercial projects). The CARB believes that thresholds in these important sectors will advance climate objectives, streamline project review, and encourage consistency and uniformity in the CEQA analysis of GHG emissions throughout the State.

**SCAQMD Guidance**. The SCAQMD has convened a GHG CEQA Significance Threshold Working Group to provide guidance to local lead agencies on determining significance for GHG emissions in their CEQA documents. Members of the working group include government agencies implementing CEQA and representatives from various stakeholder groups that will provide input to the SCAQMD staff on developing GHG CEQA significance thresholds. On December 5, 2008, the SCAQMD Governing Board adopted the staff proposal for an interim GHG significance threshold for projects where the SCAQMD is lead agency. The SCAQMD has not adopted guidance for CEQA projects under other lead agencies.

**Green LA Action Plan**. The City of Los Angeles has issued guidance promoting green building to reduce GHG emissions. The goal of the Green LA Action Plan (Plan) is to reduce greenhouse gas emissions 35 percent below 1990 levels by 2030. The Plan identifies objectives and actions designed to make the City a leader in confronting global climate change. The measures would reduce emissions directly from municipal facilities and operations, and create a framework to address City-wide GHG emissions. The Plan lists various focus areas in which to implement GHG reduction strategies. Focus areas listed in the Plan include energy, water, transportation, land use, waste, port, airport, and ensuring that changes to the local climate are incorporated into planning and building decisions. The Plan discusses City goals for each focus area, as follows:

### Energy

- Increase the generation of renewable energy;
- Encourage the use of mass transit;
- Develop sustainable construction guidelines;

<sup>&</sup>lt;sup>6</sup>American Planning Association, California Chapter, *Analysis of SB* 375, <a href="http://www.calapa.org/en/cms/?2841">http://www.calapa.org/en/cms/?2841</a>, accessed October 27, 2009.

<sup>&</sup>lt;sup>7</sup>City of Los Angeles, Green LA: An Action Plan to Lead the Nation in Fighting Global Warming, May 2007.

- Increase City-wide energy efficiency; and
- Promote energy conservation.

#### Water

 Decrease per capita water use to reduce electricity demand associated with water pumping and treatment.

## Transportation

- Power the City vehicle fleet with alternative fuels; and
- Promote alternative transportation (e.g., mass transit and rideshare).

### Other Goals

- Create a more livable City through land use regulations;
- Increase recycling, reducing emissions generated by activity associated with the Port of Los Angeles and regional airports;
- Create more City parks, promoting the environmental economic sector; and
- Adapt planning and building policies to incorporate climate change policy.

The City adopted an ordinance to establish a green building program in April 2008. The ordinance establishes green building requirements for projects involving 50 or more dwelling units. The Green Building Program was established to reduce the use of natural resources, create healthier living environments and minimize the negative impacts of development on local, regional, and global ecosystems. The program addresses the following five areas:

- Site: location, site planning, landscaping, storm water management, construction and demolition recycling
- Water Efficiency: efficient fixtures, wastewater reuse, and efficient irrigation
- Energy and Atmosphere: energy efficiency, and clean/renewable energy
- Materials and Resources: materials reuse, efficient building systems, and use of recycled and rapidly renewable materials
- Indoor Environmental Quality: improved indoor air quality, increased natural lighting, and thermal comfort/control

## 3.3 EXISTING AIR QUALITY

### 3.3.1 Air Pollution Climatology

The project site is located within the Los Angeles County portion of the Basin. Ambient pollution concentrations recorded in Los Angeles County are among the highest in the four counties comprising the Basin.

The Basin is in an area of high air pollution potential due to its climate and topography. The general region lies in the semi-permanent high pressure zone of the eastern Pacific, resulting in a mild climate tempered by cool sea breezes with light average wind speeds. The Basin experiences warm summers, mild winters, infrequent rainfalls, light winds, and moderate humidity. This usually mild climatological pattern is interrupted infrequently by periods of extremely hot weather, winter storms, or Santa Ana winds. The Basin is a coastal plain with

connecting broad valleys and low hills, bounded by the Pacific Ocean to the west and high mountains around the rest of its perimeter. The mountains and hills within the area contribute to the variation of rainfall, temperature, and winds throughout the region.

The Basin experiences frequent temperature inversions. Temperature typically decreases with height. However, under inversion conditions, temperature increases as altitude increases, thereby preventing air close to the ground from mixing with the air above it. As a result, air pollutants are trapped near the ground. During the summer, air quality problems are created due to the interaction between the ocean surface and the lower layer of the atmosphere. This interaction creates a moist marine layer. An upper layer of warm air mass forms over the cool marine layer, preventing air pollutants from dispersing upward. Additionally, hydrocarbons and NO<sub>2</sub> react under strong sunlight, creating smog. Light, daytime winds, predominantly from the west, further aggravate the condition by driving air pollutants inland, toward the mountains. During the fall and winter, air quality problems are created due to CO and NO<sub>2</sub> emissions. CO concentrations are generally worse in the morning and late evening (around 10:00 p.m.). In the morning, CO levels are relatively high due to cold temperatures and the large number of cars traveling. High CO levels during the late evenings are a result of stagnant atmospheric conditions trapping CO in the area. Since CO emissions are produced almost entirely from automobiles, the highest CO concentrations in the Basin are associated with heavy traffic. NO<sub>2</sub> concentrations are also generally higher during fall and winter days.

### 3.3.2 Local Climate

The mountains and hills within the Basin contribute to the variation of rainfall, temperature, and winds throughout the region. Within the project site and its vicinity, the average wind speed, as recorded at the Downtown Los Angeles Wind Monitoring Station, is approximately five miles per hour. Wind in the vicinity of the project site predominately blows from the southwest.<sup>8</sup>

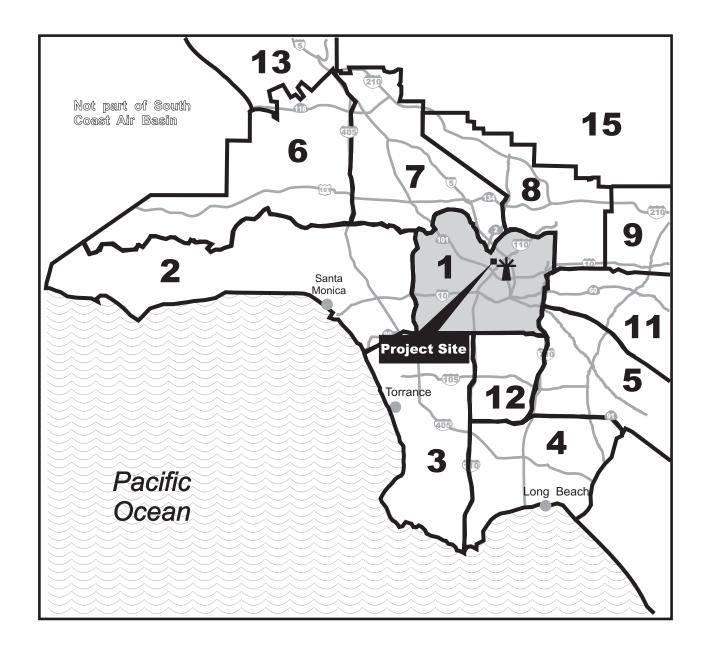
The annual average temperature in the project area is 64.9°F. The project area experiences an average winter temperature of approximately 58.0°F and an average summer temperature of approximately 71.5°F. Total precipitation in the project area averages approximately 15 inches annually. Precipitation occurs mostly during the winter and relatively infrequently during the summer. Precipitation averages approximately nine inches during the winter, approximately four inches during the spring, approximately two inches during the fall, and less than one inch during the summer.<sup>9</sup>

# 3.3.3 Air Monitoring Data

The SCAQMD monitors air quality conditions at 38 locations throughout the Basin. The Project Site is located in SCAQMD's Central Los Angeles County Air Monitoring Subregion, which is served by the Downtown Los Angeles Monitoring Station, is located approximately two miles east of the project site located at 1630 North Main Street in the City of Los Angeles (**Figure 3-2**). Historical data from the Downtown Los Angeles Monitoring Station were used to characterize existing conditions in the vicinity of the project area. Criteria pollutants monitored at the Downtown Los Angeles Monitoring Station include O<sub>3</sub>, CO, and NO<sub>2</sub>, SO<sub>2</sub> PM<sub>2.5</sub> and PM<sub>10</sub>.

<sup>&</sup>lt;sup>8</sup>SCAQMD, Meteorological Data, available at http://www.aqmd.gov/smog/metdata/MeteorologicalData.html, accessed October 27, 2009. See Appendix A.

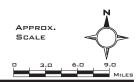
<sup>&</sup>lt;sup>9</sup>Western Regional Climate Center, Historical Climate Information, available at http://www.wrcc.dri.edu, accessed October 27, 2009.



LEGEND: \* Downtown Los Angeles Monitoring Station

Air Monitoring Areas in Los Angeles County:

- 1. Central Los Angeles
- 2. Northwest Coastal
- 3. Southwest Coastal
- 4. South Coastal
- 5. Southeast Los Angeles County
- 6. West San Fernando Valley
- 7. East San Fernando Valley
- 8. West San Gabriel Valley
- 9. East San Gabriel Valley
- 10. Pomona/Walnut Valley (not shown)
- 11. South San Gabriel Valley
- 12. South Central Los Angeles
- 13. Santa Clarita Valley
- 15. San Gabriel Mountains



SOURCE: South Coast Air Quality Management District Air Monitoring Areas Map, 1999



Echo Park Lake Rehabilitation Project Air Quality & Noise Impact Report

FIGURE 3-2

**Table 3-2** shows pollutant levels, the State and federal standards, and the number of exceedances recorded at the Downtown Los Angeles Monitoring Station compared to the Metropolitan General Forecast Area (Forecast Area) from 2006 to 2008.

TABLE 3-2: 2006-2008 AMBIENT AIR QUALITY DATA IN PROJECT VICINITY							
		Downtown Los Angeles Monitoring Station			Metropolitan General Forecast Area /a,b/		
		Number of Days Above State Standard					t
Pollutant	Pollutant Concentration & Standards	2006	2007	2008	2006	2007	2008
	Maximum 1-hr Concentration (ppm)	0.11	0.12	0.11	0.12	0.12	0.10
Ozone	Days > 0.09 ppm (State 1-hr standard)	8	3	3	1	1	3
Ozone	Days > 0.12 ppm (Federal 1-hr standard)	0	0	0	0	0	0
	Maximum 1-hr concentration (ppm)	3	3	3	6	6	5
Carbon	Days > 20 ppm (State1-hr standard)	0	0	0	0	0	0
Monoxide	Maximum 8-hr concentration (ppm)	2.6	22	21	4.0	3.5	3.1
WOTOXIGC	Days > 9.0 ppm (State 8-hr standard)	0	0	0	0	0	0
Nitrogon	Maximum 1-hr Concentration (ppm)	0.11	0.10	0.12	0.11	0.09	0.11
Nitrogen Dioxide	Days > 0.18 ppm (State 1-hr standard)	0	0	0	0	0	0
	Maximum 24-hr concentration (μg/m³)	59	78	66	59	78	66
PM <sub>10</sub>	Days > 50 μg/m³ (State 24-hr standard)	3	5	3	4	4	3
	Annual Arithmetic Mean (μg/m³)	16	17	16	16	16	16
PM <sub>2.5</sub>	Exceed State Standard (12 µg/m³)?	Yes	Yes	Yes	Yes	Yes	Yes
Sulfur	Maximum 24-hr Concentration (ppm)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Dioxide	Days > 0.04 ppm (State 24-hr standard)	0	0	0	0	0	0

<sup>/</sup>a/ The Metropolitan General Forecast Area includes the Central Los Angeles County, South Central Los Angeles County, Southeast Los Angeles County, and North Orange County air monitoring areas of the SCAQMD. Data is no longer available from the Southeast Los Angeles County subrecion.

The CAAQS for the criteria pollutants are also shown in the table. As **Table 3-2** indicates, criteria pollutants CO,  $NO_2$ , and  $SO_2$  did not exceed the CAAQS during the 2006 to 2008 period. The one-hour State standard for  $O_3$  was exceeded three to eight times during this period, and the eight-hour State standard for  $O_3$  was exceeded four to seven times. The 24-hour State standard for  $PM_{10}$  was exceeded three to five times during this period. The annual State standard for  $PM_{2.5}$  was exceeded during the year 2006 to 2008 period. When compared to the Forecast area the Downtown Los Angeles Monitoring Station recorded concentrations of averages of the  $O_3$ ,  $NO_2$ ,  $SO_2$ ,  $PM_{2.5}$  and  $PM_{10}$  that were similar to the average concentrations of the Forecast Area's monitoring areas.

### 3.3.4 Sensitive Receptors

Some land uses are considered more sensitive to changes in air quality than others, depending on the population groups and the activities involved. CARB has identified the following typical groups who are most likely to be affected by air pollution: children under 14, the elderly over 65 years of age, athletes, and people with cardiovascular and chronic respiratory diseases. According to the SCAQMD, sensitive receptors include residences, schools, churches, playgrounds, child care centers, athletic facilities, long-term health care facilities, rehabilitation

<sup>/</sup>b/ An average of the maximum concentration of each criteria pollutant of the air monitoring areas of the Metropolitan General Forecast Area was used to represent maximum concentrations in the Metropolitan General Forecast Area.

SOURCE: SCAQMD, Historical Data by Year, available at http://www.aqmd.gov/smog/historicaldata.htm, accessed October 27, 2009.

centers, convalescent centers, and retirement homes. Churches are not listed by the SCAQMD as a sensitive receptor. However, they are considered to be sensitive to air pollution in this analysis because they typically function as a gathering location for adults and children.

As shown in **Figure 3-3**, sensitive receptors within one-quarter mile (1,320 feet) of the project site include the following:

- Single- and multi-family residences located approximately 70 feet west of the project site
- Single- and multi-family residences located approximately 70 feet east of the project site
- Single- and multi-family residences located approximately 70 feet north of the project site.
- Angelus Temple located approximately 70 feet north of the project site
- Saint Athanasius Episcopal Church located approximately 70 feet east of the project site
- Echo Park Recreation Center located approximately 95 feet south of the project site
- Echo Park Child Care Center located approximately 550 feet southeast of the project site

The above sensitive receptors represent the nearest sensitive receptors with the potential to be impacted by air emissions. Additional sensitive receptors are located in the surrounding community and may be impacted by air emissions.

### 3.4 METHODOLOGY AND SIGNIFICANCE CRITERIA

### 3.4.1 Methodology

This air quality analysis is consistent with the methods described in the SCAQMD *CEQA Air Quality Handbook* (1993 edition), as well as the updates to the *CEQA Air Quality Handbook*, as provided on the SCAQMD website.<sup>10</sup>

### **Construction Emissions**

Regional and localized construction emissions were analyzed to determine impacts. A worst-case scenario was developed based assumptions provided by the project design and engineering team. Construction emissions were calculated using calculation formulas published by the SCAQMD and USEPA. Heavy-duty truck and worker vehicle emission rates were obtained from the EMFAC2007 model. Equipment emission factors were obtained from the OFFROAD2007 model.

The localized construction analysis followed guidelines published by the SCAQMD in the Localized Significance Methodology for CEQA Evaluations (SCAQMD Localized Significance Threshold (LST) Guidance Document).<sup>11</sup> In January 2005, the SCAQMD supplemented the SCAQMD LST Guidance Document with Sample Construction Scenarios for Projects Less than Five Acres in Size.

<sup>&</sup>lt;sup>10</sup>SCAQMD, http://www.aqmd.gov/ceqa/hdbk.html, accessed November 25, 2009.

<sup>&</sup>lt;sup>11</sup>SCAQMD, Localized Significance Methodology, June 2003, revised July 2008.



### LEGEND:



- # Sensitive Receptors
- 1. Angelus Temple
- 2. Single- and Multi-Family Residences
- 3. Saint Athanasius Episcopal Church
- 4. Echo Park Recreation Center
- 5. Echo Park Child Care Center

SOURCE: TAHA, 2010



FIGURE 3-3



Assumptions used for the construction calculations are as follows:

### Construction

- Start Year: 2011
- Maximum Heavy-Duty Equipment to be operated in one day: 10 pieces
- Hours per day of heavy-duty equipment use: 10 hours
- Maximum acres of land disturbed in one day: 5 acres
- Maximum cubic yards of soil handled in one day: 6,000 cubic yards
- Maximum Haul Trucks per day: 85 trips per day

### **Health Risk Assessment**

A health risk assessment (HRA) was completed using emissions factors from EMFAC2007 and OFFROAD2007 for haul truck and on-site heavy equipment emissions, respectively. ISC-AERMOD dispersion modeling software was used to determine the concentrations of diesel particulate matter generated from haul truck trips and heavy equipment used in and around the project site.

The HRA was prepared based on emissions from haul trucks and diesel-powered construction equipment. The first step was to calculate the mass emissions from these sources. The proposed project would generate 8,858 truck trips during the construction phase. On-road truck emissions were calculated based on the haul route from the project site to US Highway 101 and emission rates from the EMFAC2007 model. It was assumed that each truck would idle on the project site for 15 minutes, and the idle emission rate was also obtained from the EMFAC2007 model. Equipment emissions were obtained from the OFFROAD model. It was assumed that ten pieces of equipment would operate on the project site.

The truck and equipment emission rates were input into the AERMOD dispersion model to obtain annual exposure concentrations. The model is a steady state Gaussian plume model for estimating ground level impacts from point, area, and volume sources in simple and complex terrain. The model offers additional flexibility by allowing the user to assign initial vertical and lateral dispersion parameters for stationary sources. Truck emissions were modeled based on SCAQMD Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis (August 2003). Idle emissions were treated as an area source with a five-meter release height. On-road emissions along the haul route were input as a line source with a release height of five meters.

Construction equipment emissions were modeled based on guidance from the SCAQMD Localized Significance Methodology. Equipment emissions were input as an area source with a release height of five meters. Based on SCAQMD guidance, a 50-meter receptor grid was used to obtain the maximum annual pollutant concentration and the receptor release height was set at 0.0 meters. AERMOD utilized surface meteorological and upper air data from the Downtown Los Angeles station.

## 3.4.2 Significance Criteria

The following are the significance criteria SCAQMD has established to determine project construction impacts. The proposed project would have a significant impact if:

- Daily regional and localized construction emissions were to exceed SCAQMD construction emissions thresholds for VOC, NO<sub>X</sub>, CO, SO<sub>X</sub>, PM<sub>2.5</sub>, or PM<sub>10</sub>, as presented in **Table 3-3**;
- Project-related construction traffic causes CO concentrations at study intersections to violate the CAAQS for either the one- or eight-hour period. The CAAQS for the one- and eight-hour periods are 20 ppm and 9.0 ppm, respectively;
- The proposed project would generate TAC emissions that generate a health risk that exceeds ten persons in one million; and/or
- The proposed project would create an odor nuisance.

Criteria Pollutant	Regional Emissions (Pounds Per Day) /a/	Localized Emissions (Pounds Per Day) /a/	
Volatile Organic Compounds (VOC)	75		
Nitrogen Oxides (NO <sub>X</sub> )	100	161	
Carbon Monoxide (CO)	550	1,861	
Sulfur Oxides (SO <sub>X</sub> )	150		
Fine Particulates (PM <sub>2.5</sub> )	55	8	
Particulates (PM <sub>10</sub> )	150	16	

### 3.5 ENVIRONMENTAL IMPACTS

#### 3.5.1 Construction Phase

## **Regional Impacts**

Construction of the proposed project has the potential to create air quality impacts through the use of heavy-duty construction equipment and through vehicle trips generated by construction workers traveling to and from the project site. Fugitive dust emissions would primarily result from site preparation (e.g., excavation) activities.  $NO_X$  emissions would primarily result from the use of construction equipment. The assessment of construction air quality impacts considers each of these potential sources. Construction emissions can vary substantially from day to day, depending on the level of activity, the specific type of operation and, for dust, the prevailing weather conditions.

It is mandatory for all construction projects in the Basin to comply with SCAQMD Rule 403 for Fugitive Dust. Specific Rule 403 control requirements include, but are not limited to, applying water in sufficient quantities to prevent the generation of visible dust plumes, applying soil binders to uncovered areas, reestablishing ground cover as quickly as possible, utilizing a wheel washing system to remove bulk material from tires and vehicle undercarriages before vehicles exit the project site, and maintaining effective cover over exposed areas. Compliance with Rule 403 would reduce  $PM_{2.5}$  and  $PM_{10}$  emissions associated with construction activities by approximately 61 percent.

**Table 3-4** shows the estimated daily emissions associated with each construction phase. Daily construction emissions would exceed the SCAQMD regional thresholds for  $NO_X$ , and regional construction emissions would result in a significant impact.

TABLE 3-4: ESTIMATED DAILY CONSTRUCTION EMISSIONS - UNMITIGATED							
	Pounds Per Day						
<b>Construction Phase</b>	VOC	NO <sub>X</sub>	СО	SO <sub>X</sub>	PM <sub>2.5</sub> /a/	PM <sub>10</sub> /a/	
Maximum Daily Construction Emissions	24	229	99	<1	25	87	
Regional Significance Threshold	75	100	550	150	55	150	
Exceed Threshold?	No	Yes	No	No	No	No	
Maximum Daily Construction Emissions	17	151	53	<1	22	84	
Localized Significance Threshold /b/		161	1,861	_	8	16	
Exceed Threshold?	No	No	No	No	Yes	Yes	

/a/ URBEMIS2007 emissions for fugitive dust were adjusted to account for a 61 percent control efficiency associated with SCAQMD Rule 403. /b/ SCAQMD has not developed localized significance methodology for VOC or SO<sub>x</sub>. **SOURCE**: TAHA, 2009 (Appendix D).

### **Localized Impacts**

Emissions for the localized construction air quality analysis of  $PM_{2.5}$ ,  $PM_{10}$ , CO, and  $NO_2$  were compiled using LST methodology required by the SCAQMD. Localized on-site emissions were calculated using similar methodology to the regional emission calculations. LSTs were developed based upon the size or total area of the emissions source, the ambient air quality in each source receptor area, and the distance to the sensitive receptor. LSTs for CO and  $NO_2$  were derived by using an air quality dispersion model to back-calculate the emissions per day that would cause or contribute to a violation of any ambient air quality standard for a particular source receptor area. Construction  $PM_{2.5}$  and  $PM_{10}$  LSTs were derived using a dispersion model to back-calculate the emissions necessary to exceed a concentration equivalent to 50  $\mu g/m^3$  over five hours, which is the SCAQMD Rule 403 control requirement.

**Table 3-4** shows the estimated daily localized emissions associated with construction activity. Daily construction emissions would exceed the SCAQMD localized significance thresholds for  $PM_{2.5}$  and  $PM_{10}$ . Localized construction emissions would result in a significant impact.

### **Construction CO Hotspot Analysis**

There is a direct relationship between traffic/circulation congestion and CO impacts since exhaust fumes from vehicular traffic are the primary source of CO. CO is a localized gas that dissipates very quickly under normal meteorological conditions. Therefore, CO concentrations decrease substantially as distance from the source (intersection) increases. The highest CO concentrations are typically found in areas directly adjacent to congested roadway intersections.

 $<sup>^{12}</sup>$ The concentrations of SO<sub>2</sub> are not estimated because construction activities would generate a small amount of SO<sub>X</sub> emissions. No State standard exists for VOC. As such, concentrations for VOC were not estimated.

The State one- and eight-hour CO standards may potentially be exceeded at congested intersections with high traffic volumes. An exceedance of the State CO standards at an intersection is referred to as a CO hotspot. The SCAQMD recommends a CO hotspot evaluation of potential localized CO impacts when V/C ratios are increased by two percent at intersections with a LOS of D or worse. SCAQMD also recommends a CO hotspot evaluation when an intersection decreases in LOS by one level beginning when LOS changes from C to D.

Baseline and Construction-related CO concentrations were modeled at three intersections near the project site. The study intersections were selected to be representative of the project area and were based on traffic volume to capacity (V/C) ratio and the traffic level of service (LOS) as indicated in the traffic analysis. 13,14

Based on the traffic study, the selected intersections are as follows:

- Glendale Boulevard/Bellevue Avenue AM Peak Hour
- Glendale Boulevard/Temple Avenue AM Peak Hour
- Glendale Boulevard/Temple Avenue PM Peak Hour

The USEPA CAL3QHC micro-scale dispersion model was used to calculate CO concentrations for 2013 "no project" and "project" conditions. CO concentrations at the analyzed intersection are shown for the AM and PM peak hours in **Table 3-5**. One-hour CO concentrations under "project" conditions would be approximately 3 ppm at worst-case sidewalk receptors. Eight-hour CO concentrations under "project" conditions would range from approximately 2.7 to 2.8 ppm. The State one- and eight-hour standards of 20 and 9.0 ppm, respectively, would not be exceeded at the analyzed intersections. Localized CO concentrations would result in a less-than-significant impact.

TABLE 3-5: 2009 AND 2013 CARBON MONOXIDE CONCENTRATIONS FOR CONSTRUCTION TRAFFIC /a/						
	1-hour (parts per million)			8-hour (parts per million)		
Intersection	Existing (2009)	No Project (2013)	Project (2013)	Existing (2009)	No Project (2013)	Project (2013)
Glendale Boulevard/Bellevue Avenue (AM)	4	3	3	3.4	2.8	2.8
Glendale Boulevard/Temple Avenue (AM)	4	3	3	3.4	2.7	2.7
Glendale Boulevard/Temple Avenue (PM)	4	3	3	3.4	2.7	2.7
State Standard	20			9.0		

/a/ Existing concentrations include year 2009 one- and eight-hour ambient concentrations of 3 and 2.6 ppm, respectively. No Project and Project concentrations include year 2013 one- and eight-hour ambient concentrations of 2 and 2 ppm, respectively.

SOURCE: TAHA, 2010 (Appendix C).

<sup>&</sup>lt;sup>13</sup>Level of service is used to indicate the quality of traffic flow on roadway segments and at intersections. Level of service ranges from LOS A (free flow, little congestion) to LOS F (forced flow, extreme congestion).

<sup>&</sup>lt;sup>14</sup>Fehr & Peers, Transportation Consultants, *Traffic Study for the Echo Park Lake Rehabilitation Project*, January 2010.

# **Toxic Air Contaminant Impacts**

The greatest potential for TAC emissions during construction would be from diesel particulate emissions associated with heavy equipment operations and haul trucks during the import and export of materials to the project site. The haul truck route travels along Echo Park Avenue, Bellevue Avenue, Glendale Boulevard, Palo Alto Street, and along the US 101 Freeway, all which are segments adjacent or near to Echo Park Lake. According to SCAQMD methodology, health effects from carcinogenic air toxics are usually described in terms of individual cancer risk. "Individual Cancer Risk" is the likelihood that a person continuously exposed to concentrations of TACs over a 70-year lifetime will contract cancer based on the use of standard risk assessment methodology.

Carcinogenic compounds are not considered to have threshold levels (i.e., dose levels below which there are no risks). Any exposure, therefore, will have some associated risk. As a result, the State of California has established a threshold of one in one hundred thousand (1.0E-05) as a level posing no significant risk for exposures to carcinogens regulated under the Safe Drinking Water and Toxic Enforcement Act (Proposition 65).

Health risks associated with exposure to carcinogenic compounds can be defined in terms of the probability of developing cancer as a result of exposure to a chemical at a given concentration. Under a deterministic approach (i.e., point estimate methodology), the cancer risk probability is determined by multiplying the chemical's annual concentration by its unit risk factor (URF). The URF is a measure of the carcinogenic potential of a chemical when a dose is received through the inhalation pathway. It represents an upper bound estimate of the probability of contracting cancer as a result of continuous exposure to an ambient concentration of one microgram per cubic meter ( $\mu$ g/m³) over a 70-year lifetime.

The carcinogenic risk was calculated based on the SCAQMD Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis. According to this document, the cancer risks from diesel particulate matter associated with motor vehicles occur exclusively through the inhalation pathway. Therefore, the cancer risks can be estimated from the following equation:

 $CR_{DPM} = C_{DPM} \times URF_{DPM} \times LEA$ 

where,

CR<sub>DPM</sub> Cancer risks from diesel particulate matter; the probability of an individual

developing cancer as a result of exposure to diesel particulate matter.

C<sub>DPM</sub> Annual average diesel particulate matter concentration in µg/m3.

URF<sub>DPM</sub> Unit risk factor for diesel particulate matter; estimated probability that a person

will contract cancer as a result of inhalation of a diesel particulate matter

concentration of 1 µg/m3 continuously over a period of 70 years.

LEA Lifetime exposure adjustment.

The URF utilized in the assessment and corresponding cancer potency factors was obtained from California Office of Environmental Health Hazard Assessment (OEHHA) guidance. The LEA accounts for the fact that exposure would be less than 70 years. Based on information provided by the project design and engineering team, the exposure level was adjusted to account for 10 hours per day, 5 days per week, 48 weeks per year, and 2 years.

**Figure 3-4** is a contour map showing exposure concentrations to diesel particulate matter generated during construction activity. The maximum off-site annual concentration would be 0.85 micrograms per cubic meter. This results in a carcinogenic risk of 2.2 persons in one million, which is less than the ten persons in one million significance threshold. Construction-related diesel emissions would result in a less-than-significant impact.

# **Odor Impacts**

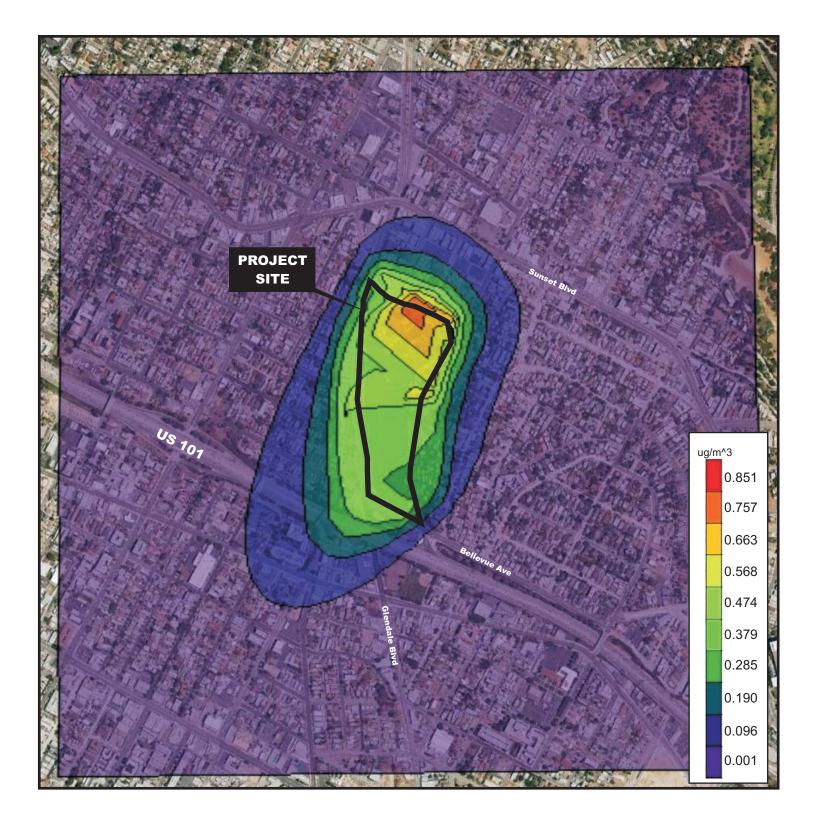
Potential sources that may emit odors during construction activities include equipment exhaust excavated organic matter from the lake bottom. Odors from equipment exhaust would be localized and generally confined to the immediate area surrounding the project site. The proposed project would utilize typical construction techniques, and the equipment odors would be typical of most construction sites and temporary in nature. Construction equipment would not cause an odor nuisance.

A Technical Memorandum on *Odor Control Management for Lake Excavation* was prepared to assess potential construction odor impacts associated with organic matter from the lake bottom. Geotechnical borings and sediment samples indicate that there is an accumulated layer of sediment in the Lake bottom that is approximately one foot thick and contains organic matter. Construction of the proposed project would involve the removal of sediment and other materials from the Lake bed. Once these materials are removed, they would be required to be piled in the staging areas established on the project site and dried for a period of approximately one to two months. During the drying activities, various odors may be emitted from the sediment piles due to decomposition of organic materials temporarily impacting the sensitive receptors in the project area. As such, construction odors would result in a significant impact without mitigation.

# **Construction Phase Mitigation Measures**

- AQ1 Water or a stabilizing agent shall be applied to exposed surfaces in sufficient quantity to prevent generation of dust plumes.
- AQ2 The construction contractor shall utilize at least one of the following measures at each vehicle egress from the project site to a paved public road:
  - Install a pad consisting of washed gravel maintained in clean condition to a depth of at least six inches and extending at least 30 feet wide and at least 50 feet long;
  - Pave the surface extending at least 100 feet and at least 20 feet wide:
  - Utilize a wheel shaker/wheel spreading device consisting of raised dividers at least 24 feet long and 10 feet wide to remove bulk material from tires and vehicle undercarriages; or
  - Install a wheel washing system to remove bulk material from tires and vehicle undercarriages.
- AQ3 All haul trucks hauling soil, sand, and other loose materials shall be covered (e.g., with tarps or other enclosures that would reduce fugitive dust emissions).

<sup>&</sup>lt;sup>15</sup>Black & Veatch Corporation, Echo Lake Park Rehabilitation Project Technical Memorandum on Odor Control Management for Lake Excavation, April 2010.







SOURCE: TAHA, 2010





- AQ4 Construction activity on unpaved surfaces shall be suspended when winds exceed 25 miles per hour.
- AQ5 Heavy-duty equipment operations shall be suspended during first and second stage smog alerts.
- **AQ6** Ground cover in disturbed areas shall be replaced as quickly as possible.
- AQ7 Contractors shall maintain equipment and vehicle engines in good condition and in proper tune per manufacturers' specifications.
- AQ8 Contractors shall utilize electricity from the electrical grid rather than temporary diesel or gasoline generators, as feasible.
- AQ9 Heavy-duty trucks shall be prohibited from idling in excess of five minutes, both on- and off-site.
- **AQ10** All diesel-powered construction equipment in use shall require control equipment that meets at a minimum Tier III emissions requirements. In the event Tier III equipment is not available, diesel powered construction equipment in use shall require emissions control equipment with a minimum of Tier II diesel standards.
- **AQ11** The construction contractor shall be required to develop an Odor Control Management Plan to meet the limits of 10 parts per billion hydrogen sulfide at the site perimeter. The Plan shall include the following elements:
  - A methodology for phased or staged operations to minimize the surface area of sediment exposed during lake draining and material removal and handling.
  - Monitoring and recording of hydrogen sulfide at the construction site perimeter to ensure compliance and implementation of the Plan.
  - Monitoring with a field olfactometer to establish threshold levels at which additional measures must be incorporated to limit total odors.
  - Utilization of lime stabilization (or similar technology) to speed the dewatering
    process for the sediment layer which contains organic material. Sufficient lime
    should be stockpiled to enable the contractor to raise the pH level to 12 to
    contain odors and suppress microbiological decay of the organic material to
    objectionable gas products. The quantity of lime will be dependent on the
    contractors stating plan and how much area is to be uncovered.
  - Procurement and local storage of an oxidizing chemical that can be applied in liquid form to treat stock piles of sediment or particularly odorous excavation areas.
- AQ12 The bid schedule shall include an allowance of \$50,000 to be used as directed by the City to mitigate odor issues during periods when the contractor is meeting the hydrogen sulfide standard but additional measures are needed because of complaints or olfactometer readings.
- **AQ13** The City shall establish a neighborhood odor monitoring group to monitor and record odor conditions from the community viewpoint.

# **Impacts After Mitigation**

Implementation of Mitigation Measures AQ1 through AQ6 would ensure that fugitive dust emissions would be reduced by approximately 61 percent. Consequently, daily  $PM_{2.5}$  and  $PM_{10}$  emissions would still be less than the SCAQMD threshold of 150 pounds per day. Implementation of Mitigation Measure AQ7 would reduce engine emissions by approximately five percent. Implementation of Mitigation Measures AQ8 through AQ10, while difficult to quantify, would also reduce construction emissions. Mitigated construction regional emissions would continue to exceed the SCAQMD regional threshold for  $NO_X$ . Regional construction emissions would result in an unavoidable, significant air quality impact.

Daily construction emissions would continue to exceed the SCAQMD localized significance thresholds for  $PM_{2.5}$  and  $PM_{10}$  emissions even after mitigation. Localized construction emissions would result in an unavoidable, significant air quality impact.

Implementation of Mitigation Measures **AQ11** and **AQ13** would help ensure that odors emitted during construction activity would be contained and dispersed through a comprehensive odor control plan. As a result, construction odors would result in a less-than-significant impact.

## 3.5.2 Operational Phase

The proposed project focuses on the rehabilitation of the lake liner and structure, and includes the addition of trees and modifications made to the landscaping. These are seen as beneficial improvements that would not generate additional emissions sources. No new uses would be seated at the project site, and no additional traffic is anticipated to be generated from the rehabilitation of the lake structure. Therefore, operation of the proposed project would not be substantially altered from existing operations. Operational impacts would result in a less-than-significant impact.

### **Operational Phase Mitigation Measures**

Operational air quality impacts would be less than significant, and no mitigation measures are required.

### **Impacts After Mitigation**

Not applicable. The project-related operational emissions would result in a less-than-significant impact without mitigation.

## 3.6 CUMULATIVE IMPACTS

### 3.6.1 SCAQMD Methodology

The related projects include the development of hundreds of thousands of square feet of commercial and residential uses, a number that is many times greater than the proposed project. As the proposed project results in a regionally significant impact during construction relative to  $NO_X$ , it is anticipated that related project development would also result in significant regional impacts. While SCAQMD required mitigation measures would reduce air quality impacts, the proposed project would contribute to a cumulatively significant regional  $NO_X$  impact.

## 3.6.2 Global Climate Change

Generally, an individual project cannot generate enough GHG emissions to influence global climate change because it is the increased accumulation of GHGs which may result in global climate change. However, an individual project may contribute an incremental amount of GHG emissions that could combine with other emission sources to create concentrations of GHG that could influence climate change. For most projects, the main contribution of GHG emissions is from motor vehicles, but how much of those emissions are "new" is uncertain. New projects do not create new drivers, and therefore, do not create a new mobile source of emissions. Rather, new projects only redistribute the existing traffic patterns. Larger projects will certainly affect a larger geographic area, but again, would not necessarily cause the creation of new drivers. Some mixed-use, urban infill, and mass transit projects could actually reduce the number of vehicle miles traveled.

Worldwide population growth and the consequent use of energy is the primary reason for GHG emission increases. The market demand for goods and services and the use of land is directly linked to population changes and economic development trends within large geographies (e.g., regional, national, worldwide). Individual site-specific projects have a negligible effect on these macro population-driven and growth demand factors. Whether an individual site-specific project is constructed or not has little effect on GHG emissions. This is because the demand for goods and services in question would be provided in some other location to satisfy the demands of a growing population if not provided on the project site. The only exception to this basic relationship between population growth, development, energy consumption and GHG emissions would occur if the site-specific project (1) embodied features that were not typical of urban environment or developing communities, and (2) generated a disproportionate amount of vehicle miles of travel or had other unique and disproportionately high fuel consumption characteristics. The proposed project does not fall within these exceptions.

Construction activity would generate approximately 7,022 tons of GHG emissions over the entire construction period. Operational GHG emissions are not anticipated to change, as there will be no additional sources of mobile and stationary GHG emissions. In addition, a goal of the rehabilitation project is to reduce water use at the project site through improvements to the lake's infrastructure. California's water infrastructure uses energy to collect, move, and treat water; dispose of wastewater; and power the large pumps that move water throughout the State. California consumers also use energy to heat, cool, and pressurize the water they use in their homes and businesses. Together these water-related energy uses annually account for roughly 20 percent of the State's electricity consumption, one-third of non-power plant natural gas consumption, and about 88 million gallons of diesel fuel consumption. The California Energy Commission has reported that the energy intensity of the water use cycle in Southern California is 12,700 kilowatt-hours per million gallons. Permanently reducing the amount of municipal water required to maintain the water level of the Lake would reduce long-term GHG emissions. For these reasons, the impact of the proposed project on the cumulative effect of global climate change is not cumulatively considerable and considered to be less than significant.

### 4.0 NOISE & VIBRATION

This section evaluates noise and vibration impacts associated with the implementation of the proposed project. The noise and vibration analysis in this section assesses: existing noise and vibration conditions at the project site and its vicinity, as well as short-term construction noise and vibration impacts associated with the proposed project. Mitigation measures for potentially significant impacts are recommended when appropriate to reduce noise and vibration levels.

## 4.1 NOISE AND VIBRATION CHARACTERISTICS AND EFFECTS

#### 4.1.1 Noise

### **Characteristics of Sound**

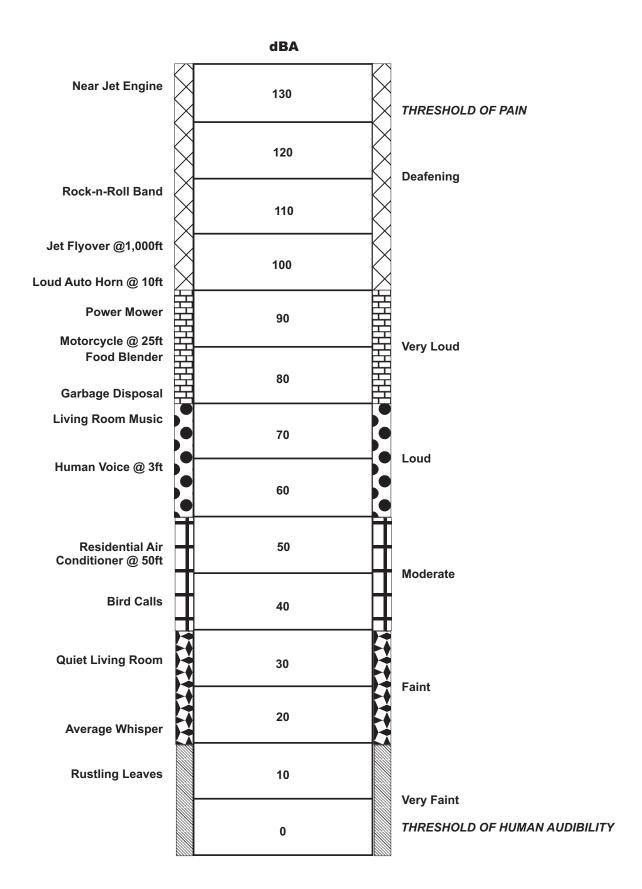
Sound is technically described in terms of the loudness (amplitude) and frequency (pitch) of the sound. The standard unit of measurement for sound is the decibel (dB). The human ear is not equally sensitive to sound at all frequencies. The "A-weighted scale," abbreviated dBA, reflects the normal hearing sensitivity range of the human ear. On this scale, the range of human hearing extends from approximately 3 to 140 dBA. **Figure 4-1** provides examples of A-weighted noise levels from common sounds.

### **Noise Definitions**

This noise analysis discusses sound levels in terms of Community Noise Equivalent Level (CNEL), Equivalent Noise Level ( $L_{eq}$ ).

**Community Noise Equivalent Level.** CNEL is an average sound level during a 24-hour period. CNEL is a noise measurement scale, which accounts for noise source, distance, single event duration, single event occurrence, frequency, and time of day. Human reaction to sound between 7:00 p.m. and 10:00 p.m. is as if the sound were actually 5 dBA higher than if it occurred from 7:00 a.m. to 7:00 p.m. From 10:00 p.m. to 7:00 a.m., humans perceive sound as if it were 10 dBA higher due to the lower background level. Hence, the CNEL is obtained by adding an additional 5 dBA to sound levels in the evening from 7:00 p.m. to 10:00 p.m. and 10 dBA to sound levels in the night from 10:00 p.m. to 7:00 a.m. Because CNEL accounts for human sensitivity to sound, the CNEL 24-hour figure is always a higher number than the actual 24-hour average.

**Equivalent Noise Level.**  $L_{eq}$  is the average noise level on an energy basis for any specific time period. The  $L_{eq}$  for one hour is the energy average noise level during the hour. The average noise level is based on the energy content (acoustic energy) of the sound.  $L_{eq}$  can be thought of as the level of a continuous noise which has the same energy content as the fluctuating noise level. The equivalent noise level is expressed in units of dBA.



SOURCE: TAHA, 2010



### **Effects of Noise**

Noise is generally defined as unwanted sound. The degree to which noise can impact the human environment range from levels that interfere with speech and sleep (annoyance and nuisance) to levels that cause adverse health effects (hearing loss and psychological effects). Human response to noise is subjective and can vary greatly from person to person. Factors that influence individual response include the intensity, frequency, and pattern of noise, the amount of background noise present before the intruding noise, and the nature of work or human activity that is exposed to the noise source.

## **Audible Noise Changes**

Studies have shown that the smallest perceptible change in sound level for a person with normal hearing sensitivity is approximately 3 dBA. A change of at least 5 dBA would be noticeable and would likely evoke a community reaction. A 10-dBA increase is subjectively heard as a doubling in loudness and would cause a community response.

Noise levels decrease as the distance from the noise source to the receiver increases. Noise generated by a stationary noise source, or "point source," will decrease by approximately 6 dBA over hard surfaces (e.g., reflective surfaces such as parking lots or smooth bodies of water) and 7.5 dBA over soft surfaces (e.g., absorptive surfaces such as soft dirt, grass, or scattered bushes and trees) for each doubling of the distance. For example, if a noise source produces a noise level of 89 dBA at a reference distance of 50 feet, then the noise level would be 83 dBA at a distance of 100 feet from the noise source, 77 dBA at a distance of 200 feet, and so on. Noise generated by a mobile source will decrease by approximately 3 dBA over hard surfaces and 4.5 dBA over soft surfaces for each doubling of the distance.

Generally, noise is most audible when traveling by direct line-of-sight. Barriers, such as walls, berms, or buildings, that break the line-of-sight between the source and the receiver greatly reduce noise levels from the source since sound can only reach the receiver by bending over the top of the barrier (diffraction). Sound barriers can reduce sound levels by up to 20 dBA. However, if a barrier is not high or long enough to break the line-of-sight from the source to the receiver, its effectiveness is greatly reduced.

### **Applicable Regulations**

The City of Los Angeles has established policies and regulations concerning the generation and control of noise that could adversely affect its citizens and noise sensitive land uses. Regarding construction, the Los Angeles Municipal Code (LAMC) indicates that no construction or repair work shall be performed between the hours of 9:00 p.m. and 7:00 a.m. the following day, since such activities would generate loud noises and disturb persons occupying sleeping quarters in any adjacent dwelling, hotel, apartment or other place of residence.<sup>17</sup> No person, other than an individual home owner engaged in the repair or construction of his/her single-family dwelling, shall perform any construction or repair work of any kind or perform such work within 500 feet of land so occupied before 8:00 a.m. or after 6:00 p.m. on any Saturday or on a federal holiday, or at any time on any Sunday. Under certain conditions, the City may grant a waiver to allow limited construction activities to occur outside of the limits described above.

<sup>&</sup>lt;sup>16</sup>Line-of-sight is an unobstructed visual path between the noise source and the noise receptor.

<sup>&</sup>lt;sup>17</sup>LAMC, Chapter IV, Article 1, Section 41.40, January 29, 1984 and Chapter XI, Article 2, Section 112.04, August 8, 1996.

The LAMC also specifies the maximum noise level of powered equipment or powered hand tools. Any powered equipment or hand tool that produces a maximum noise level exceeding 75 dBA at a distance of 50 feet is prohibited. However, this noise limitation does not apply where compliance is technically infeasible. Technically infeasible means the above noise limitation cannot be met despite the use of mufflers, shields, sound barriers and/or any other noise reduction device or techniques during the operation of equipment.

The City of Los Angeles has published significance thresholds to be used in noise analyses.<sup>19</sup> The significance thresholds, which are further discussed below, include thresholds for construction and operational noise levels.

### 4.1.2 Vibration

### **Characteristics of Vibration**

Vibration is an oscillatory motion through a solid medium in which the motion's amplitude can be described in terms of displacement, velocity, or acceleration. Vibration can be a serious concern, causing buildings to shake and rumbling sounds to be heard. In contrast to noise, vibration is not a common environmental problem. It is unusual for vibration from sources such as buses and trucks to be perceptible, even in locations close to major roads. Some common sources of vibration are trains, buses on rough roads, and construction activities, such as blasting, pile driving, and heavy earth-moving equipment.

### **Vibration Definitions**

There are several different methods that are used to quantify vibration. The peak particle velocity (PPV) is defined as the maximum instantaneous peak of the vibration signal. The PPV is most frequently used to describe vibration impacts to buildings and is usually measured in inches per second. The root mean square (RMS) amplitude is most frequently used to describe the effect of vibration on the human body. The RMS amplitude is defined as the average of the squared amplitude of the signal. Decibel notation (Vdb) is commonly used to measure RMS. The decibel notation acts to compress the range of numbers required to describe vibration.<sup>20</sup>

### **Effects of Vibration**

High levels of vibration may cause physical personal injury or damage to buildings. However, ground-borne vibration levels rarely affect human health. Instead, most people consider ground-borne vibration to be an annoyance that may affect concentration or disturb sleep. In addition, high levels of ground-borne vibration may damage fragile buildings or interfere with equipment that is highly sensitive to ground-borne vibration (e.g., electron microscopes). To counter the effects of ground-borne vibration, the Federal Transit Administration (FTA) has published guidance relative to vibration impacts. According to the FTA, fragile buildings can be exposed to ground-borne vibration levels of 0.3 inches per second without experiencing structural damage.<sup>21</sup>

<sup>&</sup>lt;sup>18</sup>LAMC, Chapter XI, Article 2, Section 112.05, August 8, 1996.

<sup>&</sup>lt;sup>19</sup>City of Los Angeles, L.A. CEQA Thresholds Guide, 2006.

<sup>&</sup>lt;sup>20</sup>Federal Transit Administration, *Transit Noise and Vibration Impact Assessment*, May 2006.

<sup>&</sup>lt;sup>21</sup>Federal Railway Administration, *High-Speed Ground Transportation Noise and Vibration Impact Assessment*, October 2005.

# **Perceptible Vibration Changes**

In contrast to noise, ground-borne vibration is not a phenomenon that most people experience every day. The background vibration velocity level in residential areas is usually 50 RMS or lower, well below the threshold of perception for humans which is around 65 RMS.<sup>22</sup> Most perceptible indoor vibration is caused by sources within buildings, such as operation of mechanical equipment, movement of people, or slamming of doors. Typical outdoor sources of perceptible ground-borne vibration are construction equipment, steel-wheeled trains, and traffic on rough roads. If the roadway is smooth, the vibration from traffic is rarely perceptible.

## **Applicable Regulations**

There are no adopted City standards for ground-borne vibration.

### 4.2 EXISTING ENVIRONMENTAL SETTING

## **4.2.1 Existing Noise Environment**

The existing noise environment of the project area is characterized by vehicular traffic and noises typical to a dense urban area (e.g., sirens, horns, helicopters, etc.). Vehicular traffic is the primary source of noise in the project vicinity.

Sound measurements were taken using a SoundPro DL Sound Level Meter between 10:30 a.m. and 12:30 p.m. on October 29, 2009 to determine existing ambient daytime noise levels in the project vicinity. These readings were used to establish existing ambient noise conditions and to provide a baseline for evaluating construction and operational noise impacts. Noise monitoring locations are shown in **Figure 4-2**. As shown in **Table 4-1**, existing ambient sound levels range between 64.8 and 73.0 dBA L<sub>eq</sub>.

TABLE 4-1: EXISTING NOISE LEVELS						
Key to Figure 4-2	Noise Monitoring Location	Distant from Project Site (feet)	Sound Level (dBA, L <sub>eq</sub> )			
1	Angelus Temple	70	69.7			
2	Echo Park Recreation Center	430	66.4			
3	919 Glendale Boulevard (Multi-Family Residence)	70	73.0			
4	Saint Athanasius Episcopal Church	70	64.8			
SOURCE: TAHA, 2010.						

## 4.2.2 Existing Vibration Environment

There are not any stationary sources of vibration located near the project site. Heavy-duty trucks can generate ground-borne vibrations that vary depending on vehicle type, weight, and pavement conditions. Based on field observations, vibration levels from adjacent roadways are not typically perceptible at the project site.

<sup>&</sup>lt;sup>22</sup>Federal Transit Administration, *Transit Noise and Vibration Impact Assessment*, May 2006.



## LEGEND:



# Noise Monitoring Locations

- 1. Angelus Temple
- 2. Single- and Multi-Family Residences
- 3. Saint Athanasius Episcopal Church and Single- and Multi-Family Residences
- 4. Echo Park Recreation Center (Tennis Courts and Baseball Diamond)

SOURCE: TAHA, 2010

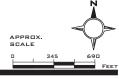


FIGURE 4-2



## 4.2.3 Sensitive Receptors

Noise- and vibration-sensitive land uses are locations where people reside or where the presence of unwanted sound could adversely affect the use of the land. Residences, schools, hospitals, guest lodging, libraries, and some passive recreation areas would each be considered noise- and vibration-sensitive and may warrant unique measures for protection from intruding noise. As shown in **Figure 3-3**, sensitive receptors near the project site include the following:

- Single- and multi-family residences located approximately 70 feet west of the project site
- Single- and multi-family residences located approximately 70 feet east of the project site
- Single- and multi-family residences located approximately 70 feet north of the project site
- Angelus Temple located approximately 70 feet north of the project site
- Saint Athanasius Episcopal Church located approximately 70 feet east of the project site
- Echo Park Recreation Center located approximately 95 feet south of the project site
- Echo Park Child Care Center located approximately 550 feet southeast of the project site

The above sensitive receptors represent the nearest sensitive receptors with the potential to be impacted by construction noise levels. Additional sensitive receptors are located in the surrounding community and may be impacted by the construction noise levels.

#### 4.3 METHODLOGY AND SIGNIFICANCE CRITERIA

## 4.3.1 Methodology

Construction noise levels are based on information obtained from the *L.A. CEQA Thresholds Guide*. The noise level during the construction period at each receptor location was calculated by (1) making a distance adjustment to the construction source sound level and (2) logarithmically adding the adjusted construction noise source level to the ambient noise level. Vibration levels were estimated based on information provided by the FTA.<sup>24</sup>

### 4.3.2 Significance Criteria

### Construction Phase Significance Criteria

Based on the City of Los Angeles *L.A. CEQA Threshold Guide*, the proposed project would result in significant construction noise impacts if:

- Construction activities lasting more than one day would exceed existing ambient noise levels by 10 dBA or more at a noise sensitive use;
- Construction activities lasting more than ten days in a three-month period would exceed existing ambient noise levels by 5 dBA or more at a noise sensitive use;
- Construction activities would exceed the ambient noise level by 5 dBA at a noise sensitive use between the hours of 9:00 p.m. and 7:00 a.m. Monday through Friday, before 8:00 a.m. or after 6:00 p.m. on Saturday, or anytime on Sunday; and/or

<sup>&</sup>lt;sup>23</sup>City of Los Angeles, L.A. CEQA Thresholds Guide, 2006.

<sup>&</sup>lt;sup>24</sup>Federal Transit Authority, *Transit Noise and Vibration Impact Assessment*, May 2006.

• The proposed project generates a mobile noise level increase that causes the ambient noise level measured at the property line of the affected uses to increase by 3 decibels L<sub>eq</sub> to or within the "normally unacceptable" or "clearly unacceptable" categories, as show in **Table 4-2**, or any 5-dBA or more increase in noise level.

## 4.3.3 Ground-borne Vibration Significance Criteria

There are no adopted State or City of Los Angeles ground-borne vibration standards. Based on federal guidelines, the proposed project would result in a significant construction vibration impact if:

 The proposed project would expose buildings to the FTA building damage threshold level of 0.3 inches per second.

### 4.4 ENVIRONMENTAL IMPACTS

## 4.4.1 Noise Impacts

## **Construction Phase Noise Impacts**

Construction of the proposed project would result in temporary increases in ambient noise levels in the project area on an intermittent basis. The increase in noise would occur during the approximate 26-month construction schedule. Noise levels would fluctuate depending on the construction phase, equipment type and duration of use, distance between the noise source and receptor, and presence or absence of noise attenuation barriers.

Construction activities typically require the use of numerous noise-generating equipment. Typical noise levels from various types of equipment that may be used during construction are listed in **Table 4-3**. The table shows noise levels at distances of 50 and 100 feet from the construction noise source.

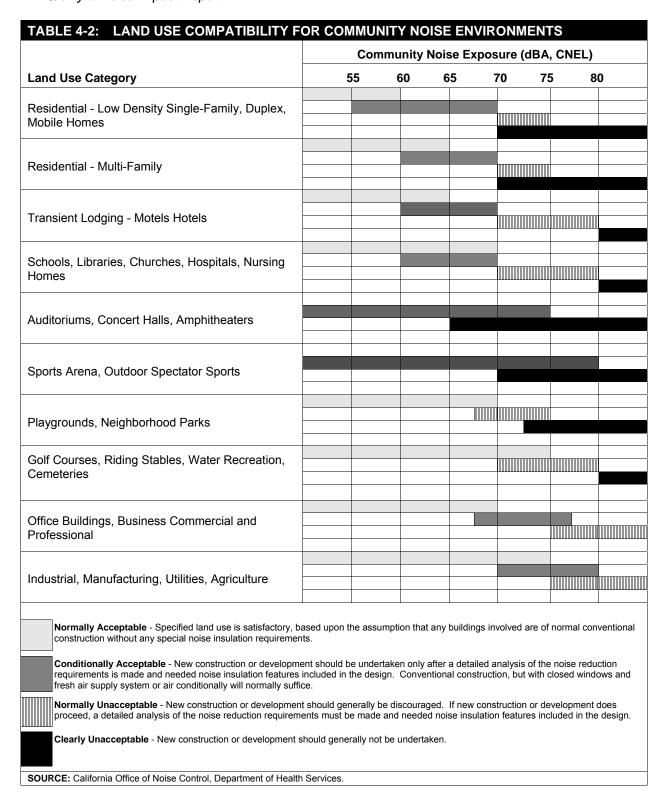


TABLE 4-3: MAXIMUM NOIS	E LEVELS OF COMMON CONSTR	UCTION MACHINES
	Noise Le	vel (dBA)
Noise Source	50 Feet /a/	100 Feet /a/
Front Loader	80	74
Trucks	89	83
Cranes (derrick)	88	82
Jackhammers	90	84
Generators	77	71
Back Hoe	84	78
Tractor	88	82
Scraper/Grader	87	81
Paver	87	81
Impact Pile Driving	101	95
Auger Drilling	77	71

/a/ Assumes a 6-dBA drop-off rate for noise generated by a "point source" and traveling over hard surfaces. Actual measured noise levels of the equipment listed in this table were taken at distances of ten and 30 feet from the noise source.

SOURCE: City of Los Angeles, L.A. CEQA Thresholds Guide, 2006.

The noise levels shown in **Table 4-4** take into account the likelihood that more than one piece of construction equipment would be in operation at the same time and lists the typical overall noise levels that would be expected for each phase of construction. The highest noise levels are expected to occur during the grading/excavation and finishing phases of construction. A typical piece of noisy equipment is assumed to be active for 40 percent of the eight-hour workday (consistent with the USEPA studies of construction noise), generating a noise level of 89 dBA L<sub>eq</sub> at a reference distance of 50 feet.

TABLE 4-4: OUTDOOR CONSTRUCTION NOISE	LEVELS
Construction Phase	Noise Level At 50 Feet (dBA)
Ground Clearing	84
Grading/Excavation	89
Foundations	78
Structural	85
Finishing	89
SOURCE: City of Los Angeles, L.A. CEQA Thresholds Guide, 2006.	

### **On-Site Construction Noise**

**Table 4-5** presents the estimated noise levels at sensitive receptors during construction activity. Noise level increases would range from approximately 1.7 to 21.3 dBA,  $L_{\rm eq}$ . The highest construction-related noise increase would occur at a single-family residence at east of the project site. Noise levels would exceed the 5-dBA significance threshold. Construction activity would result in a significant noise impact without mitigation.

TABLE 4-5: CONSTRUCTION NOIS	SE IMPACT	- UNMITIGATI	ED		
Sensitive Receptor	Distance (feet) /a/	Maximum Construction Noise Level (dBA) /b/	Existing Ambient (dBA, L <sub>eq</sub> ) /c/	New Ambient (dBA, L <sub>eq</sub> ) /d/	Increase
Single- and Multi-family residences east of the project site	70	86.1	64.8	86.1	21.3
Single- and Multi-family residences west of the project site	70	86.1	73.0	86.3	13.3
Single- and Multi-family residences north of the project site	70	86.1	69.7	86.2	16.5
Angelus Temple	70	86.1	69.7	86.2	16.5
Saint Athanasius Episcopal Church	70	86.1	64.8	86.1	21.3
Echo Park Recreation Center	95	78.4	66.4	78.7	12.3
Echo Park Child Care Center	550	63.2	66.4	68.1	1.7

<sup>/</sup>a/ Distance of noise source from receptor.

SOURCE: TAHA, 2010.

### **Off-Site Construction Mobile Noise**

Construction activity would include a substantial number of haul trucks. It was assumed that up to 85 delivery/haul trucks and 40 construction worker vehicles would be traveling to and from the project site daily. For a 10-hour construction workday, it is assumed that approximately up to 14 delivery/haul trucks per hour would be traveling on the proposed haul route.

The haul truck route travels along Glendale Boulevard, Echo Park Avenue, Park Avenue, and Bellevue Avenue, all which are segments adjacent to the Echo Park Lake. The baseline (2013) mobile noise level along these segments ranges from 60.2 to 71.4 dBA  $L_{\rm eq}$ . A haul truck noise analysis was completed using the FHWA RD-77-108 noise calculation formulas. **Table 4-6** shows that construction-related truck and worker vehicle travel would increase noise levels up to 3.4 dBA at Park Avenue between Glendale Boulevard and Echo Park Avenue. The new mobile noise level would be approximately 63.6 dBA  $L_{\rm eq}$ , which, in accordance with **Table 4-2**, is still an acceptable noise level for residences and churches. Construction-related mobile noise levels would not increase ambient noise levels measured at the property line of nearby sensitive receptors to increase by 3 decibels  $L_{\rm eq}$  to or within the "normally unacceptable" or "clearly unacceptable" categories. Construction-related truck and worker vehicle travel would result in a less-than-significant noise impact.

<sup>/</sup>b/ Construction noise source's sound level at receptor location with distance and building adjustment.

<sup>/</sup>c/ Pre-construction activity ambient sound level at receptor location.

<sup>/</sup>d/ New sound level at receptor location during the construction period, including noise from construction activity.

<sup>/</sup>e/ An incremental noise level increase of 5 dBA or more would result in a significant impact.

<sup>&</sup>lt;sup>25</sup>Assumes 40 construction workers per day with an average vehicle ridership of 1.

TABLE 4-6: OFF-SITE PROJE	CTCONSTRUCTIO	ON MOBILI	E NOISE IN	Estimated dBA,	L <sub>eq</sub>
Roadway Segment	Nearest Sensitive Receptor	Distance (feet)	Baseline (2013)	Project Construction	Construction Impact
Glendale Boulevard between Park and Bellevue Avenues	Single-Family Residences	30	71.4	71.8	0.4
Echo Park Avenue between Reservoir Street and Bellevue Avenue	Single- and Multi- Family Residences, St. Athanasius Episcopal Church	30	65.8	67.4	1.6
Park Avenue between Glendale Boulevard and Echo Park Avenue	Single- and Multi- Family Residences, Angelus Temple	40	60.2	63.6	3.4

# Construction Phase Noise Mitigation Measures

- **N1** All construction equipment shall be equipped with residential-grade mufflers and other suitable noise attenuation devices.
- **N2** Grading and construction contractors shall use quieter equipment as opposed to noisier equipment (such as rubber-tired equipment rather than metal-tracked equipment).
- N3 All residential units located within 500 feet of the construction site shall be sent a notice regarding the construction schedule of the proposed project. A sign, legible at a distance of 50 feet shall also be posted at the construction site. All notices and the signs shall indicate the dates and duration of construction activities, as well as provide a telephone number where residents can inquire about the construction process and register complaints.
- A "noise disturbance coordinator" shall be established. The disturbance coordinator shall be responsible for responding to any local complaints about construction noise. The disturbance coordinator shall determine the cause of the noise complaint (e.g., starting too early, bad muffler, etc.) and shall be required to implement reasonable measures such that the complaint is resolved. All notices that are sent to residential units within 500 feet of the construction site and all signs posted at the construction site shall list the telephone number for the disturbance coordinator.

# Impacts After Mitigation

Mitigation Measure **N1** would reduce noise levels by approximately 15 dBA. Mitigation Measures **N2** through **N4** would assist in attenuating construction noise levels. **Table 4-7** shows mitigated construction noise levels. Mitigated construction noise levels would still exceed the 5-dBA significance threshold at multiple sensitive receptors. Construction activity would result in a significant and unavoidable impact.

TABLE 4-7: CONSTRUCTION NOIS	SE IMPACT	- MITIGATED			
Sensitive Receptor	Distance (feet) /a/	Maximum Construction Noise Level (dBA) /b/	Existing Ambient (dBA, L <sub>eq</sub> ) /c/	New Ambient (dBA, L <sub>eq</sub> ) /d/	Increase
Single- and Multi-family residences east of the project site	70	71.1	64.8	72.0	7.2
Single- and Multi-family residences west of the project site	70	71.1	73.0	75.2	2.2
Single- and Multi-family residences north of the project site	70	71.1	69.7	73.5	3.8
Angelus Temple	70	71.1	69.7	73.5	3.8
Saint Athanasius Episcopal Church	70	71.1	64.8	72.0	7.2
Echo Park Recreation Center	95	63.4	66.4	68.2	1.8
Echo Park Child Care Center	550	48.2	66.4	66.5	0.1

<sup>/</sup>a/ Distance of noise source from receptor.

SOURCE: TAHA, 2010.

# **Operational Phase Noise Impacts**

The proposed project will make renovations to the existing lake, and will not develop any additional noise-generating land uses. In addition, operation of the proposed project is not anticipated to generate any additional vehicle trips. After rehabilitation activities are completed, Echo Lake Park will operate in a similar capacity as the existing facilities. It is not anticipated that operational noise would increase after the lake has reopened to the public, as no trips would be generated as a result of these renovations. Operational noise levels would result in a less-than-significant noise impact.

### **Operational Phase Noise Mitigation Measures**

Operational noise impacts would be less than significant, and no mitigation measures are required.

# **Impacts After Mitigation**

Not applicable. The project-related operational noise would result in a less-than-significant impact without mitigation.

# 4.4.2 Ground-borne Vibration Impacts

### **Construction Phase Ground-borne Vibration Impacts**

As shown in **Table 4-8**, use of heavy equipment (e.g., a large bulldozer) generates vibration levels of 0.089 inches per second at a distance of 25 feet. The nearest residential structures to the project site would be approximately 70 feet from occasional heavy equipment activity and could experience vibration levels of 0.019 inches per second. Vibration levels at these receptors would not exceed the potential building damage threshold of 0.3 inches per second.

<sup>/</sup>b/ Construction noise source's sound level at receptor location, with distance and building adjustment.

<sup>/</sup>c/ Pre-construction activity ambient sound level at receptor location.

<sup>/</sup>d/ New sound level at receptor location during the construction period, including noise from construction activity.

<sup>/</sup>e/ An incremental noise level increase of 5 dBA or more would result in a significant impact.

TABLE 4-8: VIBRATION VELOCITIES FOR CONSTRUCTION E	QUIPMENT
Equipment	PPV at 25 feet (Inches /Second) /a/
Large Bulldozer	0.089
Loaded Trucks	0.076
/a/ Fragile buildings can be exposed to ground-borne vibration levels of 0.5 inches per second w SOURCE: Federal Transit Authority, <i>Transit Noise and Vibration Impact Assessment</i> , May 2006	, ,

# **Construction Phase Ground-borne Vibration Mitigation Measures**

Construction phase ground-borne vibration impacts would be less than significant, and no mitigation measures are required.

# **Impacts After Mitigation**

Not applicable. Construction phase ground-borne vibration impacts would result in a less-than-significant impact without mitigation.

# **Operational Phase Ground-borne Vibration Impacts**

The proposed project would not include significant stationary sources of ground-borne vibration, such as heavy equipment operations. In addition, operation of the proposed project is not anticipated to generate any additional vehicle trips, and therefore no new sources of mobile vibration. Thus, operational vibration would result in a less-than-significant impact.

# **Operational Phase Ground-borne Vibration Mitigation Measures**

Operational ground-borne vibration impacts would be less than significant, and no mitigation measures are required.

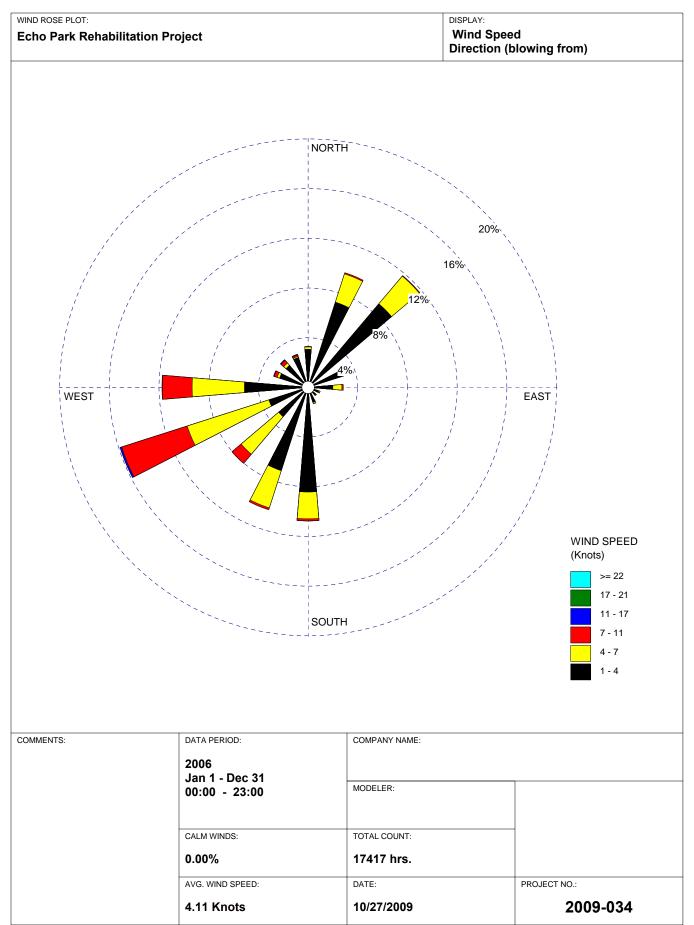
# **Impacts After Mitigation**

The project-related operational ground-borne vibration would result in a less-than-significant impact.

# 4.5 **CUMULATIVE IMPACTS**

The related project closest to the project site is Los Angeles Unified School District Central Region Elementary School #14 located approximately 1,000 feet west of the project site. Residences between the school and the project site would potentially be exposed to cumulative construction noise. The cumulative noise level at one of these residences would be less than 60 dBA when accounting for distance and building attenuation. The ambient noise level in this neighborhood is approximately 65 dBA  $L_{\rm eq}$ . Construction noise would not increase ambient noise levels by more than 5 dBA, and the proposed project would not contribute to a cumulatively considerable impact.

# Appendix A Wind and Climate Information



# LOS ANGELES CIVIC CENTE, CALIFORNIA

# Period of Record General Climate Summary - Temperature

				Sta	tion:(04511	(5) L	OS ANGEL	ES CIV	IC CE	ENTE					
					From	Year	=1906 To Y	ear=200	19						
	1	Month werag	•		Daily E	xtrem	es	Mo	nthly 1	Extreme	S		ax. mp.	M Tei	in. np.
	Max.	Min.	Mean	High	Date	Low	Date	Highest Mean	Year	Lowest Mean	Year	>= 90 F	<= 32 F	<= 32 F	<= 0 F
	F	F	F	F	dd/yyyy or yyyymmdd	F	dd/yyyy or yyyymmdd	F	-	F	-	# Days	# Days	# Days	# Days
January	66.3	48.3	57.3	95	18/1971	28	07/1913	65.9	1986	46.9	1949	0.1	0.0	0.1	0.0
February	67.3	49.6	58.4	95	20/1995	25	19/1911	65.3	1995	51.9	1911	0.1	0.0	0.0	0.0
March	68.8	51.1	60.0	98	26/1988	35	04/1976	66.0	1931	54.6	1945	0.2	0.0	0.0	0.0
April	71.0	53.4	62.2	106	06/1989	39	07/1975	69.6	1992	56.0	1975	0.8	0.0	0.0	0.0
May	72.9	56.5	64.7	102	16/1967	40	12/1933	72.6 1997		58.7	1917	0.9	0.0	0.0	0.0
June	77.0	59.7	68.3	112	26/1990	49	01/1917	77.4	1981	63.4	1944	1.3	0.0	0.0	0.0
July	82.3	63.1	72.7	107	01/1985	53	17/1907	79.9	2006	66.6	1944	3.2	0.0	0.0	0.0
August	83.0	63.8	73.4	105	06/1983	52	25/1909	80.8	1983	68.1	1914	4.0	0.0	0.0	0.0
September	81.8	62.6	72.2	110	01/1955	50	22/1921	81.3	1984	64.6	1933	4.9	0.0	0.0	0.0
October	77.6	58.6	68.1	108	03/1987	41	30/1971	74.2	1983	59.7	1916	3.1	0.0	0.0	0.0
November	72.8	53.3	63.1	100	01/1966	37	28/1919	68.9	1932	57.9	1906	0.8	0.0	0.0	0.0
December	67.4	49.1	58.2	92	08/1938	30	08/1978	64.2	1939	52.6	1916	0.0	0.0	0.0	0.0
Annual	74.0	55.8	64.9	112	19900626	25	19110219	68.9	1981	60.9	1916	19.4	0.0	0.1	0.0
Winter	67.0	49.0	58.0	95	19710118	25	19110219	63.3	1986	51.0	1949	0.2	0.0	0.1	0.0
Spring	70.9	53.7	62.3	106	19890406	35	19760304	67.8	1997	57.8	1917	1.9	0.0	0.0	0.0
Summer	80.8	62.2	71.5	112	19900626	49	19170601	77.6	1981	66.4	1916	8.5	0.0	0.0	0.0
Fall	77.4	58.2	67.8	110	19550901	37	19191128	72.2	1983	61.4	1916	8.8	0.0	0.0	0.0

Table updated on Sep 23, 2009

For monthly and annual means, thresholds, and sums:
Months with 5 or more missing days are not considered
Years with 1 or more missing months are not considered
Seasons are climatological not calendar seasons

Winter = Dec., Jan., and Feb. Spring = Mar., Apr., and May Summer = Jun., Jul., and Aug. Fall = Sep., Oct., and Nov.

Western Regional Climate Center, wrcc@dri.edu

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# LOS ANGELES CIVIC CENTE, CALIFORNIA

# Period of Record General Climate Summary - Precipitation

			St	tation			LOS ANGE			ENTE				
					Fro	m Ye	ear=1906 To	Year=2	2009					
						P	recipitation					Tota	Snov	vfall
	Mean	High	Year	Low	Year	1 I	Day Max.	>= 0.01 in.	>= 0.10 in.	>= 0.50 in.	>= 1.00 in.	Mean	High	Year
	in.	in.	-	in.	-	in. dd/yyyy or yyyymmdd		# Days	s # Days # Da		# Days	in.	in.	-
January	3.23	14.94	1969	0.00	1948	5.71	26/1956	6	4	2	1	0.0	0.3	1949
February	3.40	13.68	1998	0.00	1912	4.80	24/1913	6	5	2	1	0.0	0.0	1949
March	2.41	8.37	1983	0.00	1931	5.88	02/1938	6	4	2	1	0.0	0.0	1949
April	1.01	7.53	1926	0.00	1909	2.74	05/1926	3	2	1	0	0.0	0.2	1950
May	0.25	3.57	1921	0.00	1923	2.02	08/1977	1	1	0	0	0.0	0.0	1949
June	0.07	0.98	1999	0.00	1908	0.76	05/1993	1	0	0	0	0.0	0.0	1913
July	0.01	0.18	1986	0.00	1907	0.60	25/1906	0	0	0	0	0.0	0.0	1948
August	0.05	2.26	1977	0.00	1907	2.06	17/1977	0	0	0	0	0.0	0.0	1948
September	0.28	5.67	1939	0.00	1907	3.96	25/1939	1	1	0	0	0.0	0.0	1948
October	0.45	4.56	2004	0.00	1913	1.72	17/1934	2	1	0	0	0.0	0.0	1948
November	1.27	9.68	1965	0.00	1907	3.85	07/1966	3	2	1	0	0.0	0.0	1948
December	2.34	8.77	2004	0.00	1912	5.55	28/2004	5	4	2	1	0.0	0.0	1948
Annual	14.76	34.04	1983	3.85	1953	3 5.88 19380302		36	23	10	4	0.0	0.3	1949
Winter	8.97	29.11	2005	1.19	1924	4 5.71 19560126		18	13	6	3	0.0	0.3	1949
Spring	3.67	13.89	1983	0.00	1997	7 5.88 19380302		11	7	2	1	0.0	0.2	1950
Summer	0.12	2.26	1977	0.00	1912	2.06	19770817	1	0	0	0	0.0	0.0	1949
Fall	2.00	11.48	1965	0.00	1980	3.96	19390925	6	4	1	0	0.0	0.0	1948

Table updated on Sep 23, 2009

For monthly and annual means, thresholds, and sums: Months with 5 or more missing days are not considered Years with 1 or more missing months are not considered Seasons are climatological not calendar seasons

Winter = Dec., Jan., and Feb. Spring = Mar., Apr., and May Summer = Jun., Jul., and Aug. Fall = Sep., Oct., and Nov.

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Appendix B
SCAQMD Data

# 2006 AIR QUALITY SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

			Carl	on Mono									Nitrog	en Dioxide	c)		Sulfu	· Dioxide d)				
	2006									No	. Days St	andard E	xceeded									
				Max.	Max		Max.	Max.	Fourth	Health						Max	Max	Annual		Max.	Max.	Annual
			No.	Conc.	Conc.	No.	Conc.	Conc.	High	Advisory	Fee	deral	St	tate	No.	Conc.	Conc.	Average	No.	Conc.	Conc.	Average
	_ 0 0 0		Davs	in	in	Days	in	in	Conc.	≥ 0.15		> 0.08	> 0.09		Days	in	in	AAM	Days	in	in	AAM
Source	e/Receptor Area	Station	of	ppm	ppm	of	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	of	ppm	ppm	Conc.	of	ppm	ppm	Conc.
No.	Location	No.	Data	1-hour	8-hour	Data	1-hour	8-hour	8-hour	1-hour	1-hour		1-hour		Data	1-hour	24-hour	ppm	Data	1-hour	24-hour	ppm
	ANGELES COUNTY	110.	Dutt	1 Hour	o nour	Duu	1 Hour	o nour	o nour	1 Hour	1 Hour	o nour	1 11041	o nour	Dun	1 Hour	2 · nour	PP···	Dutt	1 Hour	2.11041	PP···
1	Central LA	087	362	3	2.6	362	0.11	0.079	0.077	0	0	0	8	4	360	0.11	0.06	0.0288	365	0.03	0.006	0.0019
2	Northwest Coastal LA County	091	365	3	2.0	365	0.11	0.074	0.069	0	0	0	3	0	365	0.08	0.05	0.0233				0.0017
3	Southwest Coastal LA County	820	363	3	2.3	360	0.10	0.066	0.062	0	0	0	0	0	351	0.10	0.05	0.0175	363	0.02	0.006	0.0020
4	South Coastal LA County 1	072	360	4	3.4	364	0.08	0.058	0.058	0	0	0	0	0	357	0.10	0.05	0.0215	364	0.03	0.010	0.0012
4	South Coastal LA County 2	077																				
6	West San Fernando Valley	074	365	5	3.4	361	0.16	0.108	0.105	1	6	17	32	39	363	0.07	0.04	0.0174				
7	East San Fernando Valley	069	365	4	3.5	365	0.17	0.128	0.099	2	6	12	25	23	365	0.10	0.05	0.0274	360	0.01	0.004	0.0006
8	West San Gabriel Valley	088	360	4	2.8	365	0.15	0.117	0.095	1	5	7	25	24	365	0.12	0.06	0.0245				
9	East San Gabriel Valley 1	060	365	2	1.7	364	0.17	0.120	0.091	2	7	10	23	19	365	0.11	0.07	0.0258				
9	East San Gabriel Valley 2	591	363	2	2.0	363	0.18	0.128	0.107	2	10	15	37	31	362	0.10	0.06	0.0206				
10	Pomona/Walnut Valley	075	365	3	2.1	365	0.15	0.128	0.109	2	9	16	32	30	365	0.10	0.06	0.0307				
11	South San Gabriel Valley	085	232*	3*	2.7*	250*	0.13*	0.095*	0.080*	0*	1*	3*	9*	5*	204*	0.10*	0.06*	0.0283*				
12	South Central LA County	084	365	8	6.4	365	0.09	0.066	0.064	0	0	0	0	0	363	0.14	0.08	0.0306				
13	Santa Clarita Valley	090	363	2	1.3	359	0.16	0.120	0.112	1	20	40	62	64	359	0.08	0.04	0.0184				
ORA	NGE COUNTY																					
16	North Orange County	3177	362	6	3.0	362	0.15	0.114	0.092	1	3	4	8	9	361	0.09	0.05	0.0224				
17	Central Orange County	3176	365	5	3.0	365	0.11	0.088	0.072	0	0	1	5	3	343	0.11	0.06	0.0197				
18	North Coastal Orange County	3195	365	4	3.0	365	0.07	0.064	0.062	0	0	0	0	0	361	0.10	0.05	0.0145	353	0.01	0.004	0.0013
19	Saddleback Valley	3812	365	2	1.8	356	0.12	0.105	0.092	0	0	6	13	17								
RIV	ERSIDE COUNTY																					
22	Norco/Corona	4155																				
23	Metropolitan Riverside County 1	4144	365	3	2.1	365	0.15	0.116	0.113	1	8	30	45	59	365	0.08	0.05	0.0199	365	0.01	0.004	0.0013
23	Metropolitan Riverside County 2	4146	365	4	2.3																	
23	Mira Loma	5214	364	4	2.7	364	0.16	0.119	0.107	1	4	25	39	48	332	0.08	0.05	0.0194				
24	Perris Valley	4149				351	0.17	0.122	0.114	3	12	53	76	84					<u>_</u>			
25	Lake Elsinore	4158	362	1	1.0	362	0.14	0.109	0.102	0	3	24	40	58	352	0.07	0.05	0.0151				
29	Banning Airport	4164				357	0.14	0.115	0.104	0	8	44	57	78	355	0.11	0.04	0.0161				
30	Coachella Valley 1**	4137	365	2	1.0	361	0.13	0.109	0.101	0	2	23	37	67	359	0.09	0.05	0.0103				
30	Coachella Valley 2**	4157				364	0.10	0.089	0.087	0	0	7	4	29								
SAN	BERNARDINO COUNTY																					
32	Northwest San Bernardino Valley	5175	360	3	1.8	365	0.17	0.130	0.114	2	14	25	50	54	337	0.10	0.07	0.0310				
33	Southwest San Bernardino Valley	5817																				
34	Central San Bernardino Valley 1	5197	365	3	2.0	361	0.16	0.123	0.116	1	12	29	47	49	362	0.09	0.06	0.0270	365	0.01	0.003	0.0019
34	Central San Bernardino Valley 2	5203	364	3	2.3	362	0.15	0.127	0.119	3	10	29	52	57	362	0.09	0.05	0.0252				
35	East San Bernardino Valley	5204				365	0.16	0.135	0.125	5	11	36	60	64								
37	Central San Bernardino Mountains	5181				365	0.16	0.142	0.112	2	9	59	71	96								
38	East San Bernardino Mountains	5818																				
	DISTRICT MAXIMUM			8	6.4		0.18	0.142	0.125	5	20	59	76	96		0.14	0.08	0.0310		0.03	0.010	0.0020
	SOUTH COAST AIR BASIN			8	6.4		0.18	0.142	0.125	10	35	86	102	121		0.14	0.08	0.0310		0.03	0.010	0.0020

ppm - Parts Per Million parts of air, by volume.

AAM = Annual Arithmetic Mean

-- - Pollutant not monitored.

\* Less than 12 full months of data. May not be representative.

\*\* Salton Sea Air Basin.



The map showing the locations of source/receptor areas can be accessed via the Internet at <a href="http://www.aqmd.gov/telemweb/areamap.aspx">http://www.aqmd.gov/telemweb/areamap.aspx</a>. Locations of source/receptor areas are shown on the "South Coast Air Quality Management District Air Monitoring Areas" map available free of charge from SCAQMD Public Information.

a) - The federal 8-hour standard (8-hour average CO > 9 ppm) and state 8-hour standard (8-hour average CO > 9.0 ppm) were not exceeded. The federal and state 1-hour standards (35 ppm and 20 ppm) were not exceeded, either.

b) - The federal 1-hour ozone standard was revoked and replaced by the 8-hour average ozone standard effective June 15, 2005. The 8-hour average California ozone standard of 0.07 ppm was established effective May 17, 2006.

c) - The state standard is 1-hour average NO<sub>2</sub> > 0.25 ppm. The federal standard is annual arithmetic mean NO<sub>2</sub> > 0.0534 ppm. Air Resources Board has approved to lower the NO<sub>2</sub> 1-hour standard to 0.18 ppm and establish a new annual standard of 0.030 ppm. The revisions are expected to become effective later in 2007.

d) - The state standards are 1-hour average  $SO_2 > 0.25$  ppm and 24-hour average  $SO_2 > 0.04$  ppm. The federal standards are annual arithmetic mean  $SO_2 > 0.03$  ppm, 24-hour average > 0.14 ppm, and 3-hour average > 0.50 ppm. The federal and state  $SO_2$  standards were not exceeded.

# 2006 AIR QUALITY SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

			Suspen	ded Particula	ates PM10 e)				Fine Particu	lates PM2.5	; f)		Pa	rticulates T	(SPg)	Le	adg)	Su	lfate g)
2006				No. (%)	Samples					No. (%)	Samples							No.	(%) Samples
				Exce	eeding				98th	Excee	eding								Exceeding
			Max.	Star	ndard	Annual		Max.	Percentile	Standard	Standard	Annual		Max.	Annual	Max.	Max.	Max.	Standard
		No.	Conc.	Federal	State	Average	No.	Conc.	Conc.	Federal i)	Federal i)	Averages	No.	Conc.	Average	Monthly	Quarterly	Conc.	State
		Days	in	> 150	> 50	AAM h)	Days	in	in	> 35	> 65	AAMj)	Days	in	AAM	Average	Average	in	≥ 25
Source/Receptor Area	Station	of	μg/m <sup>3</sup>	$\mu g/m^3$	μg/m <sup>3</sup>	Conc.	of	$\mu g/m^3$	μg/m <sup>3</sup>	$\mu g/m^3$	$\mu g/m^3$	Conc.	of	μg/m <sup>3</sup>	Conc.	Conc.k)	Conc. k)	μg/m <sup>3</sup>	μg/m <sup>3</sup>
No. Location	No.	Data	24-hour	24-hour	24-hour	$\mu g/m^3$	Data	24-hour	24-hour	24-hour	24-hour	$\mu g/m^3$	Data	24-hour	$\mu g/m^3$	$\mu g/m^3$	$\mu g/m^3$	24-hour	24-hour
LOS ANGELES COUNTY																			
1 Central LA	087	59	59	0	3(5.1)	30.3	330	56.2	38.9	11(3.3)	0	15.6	59	109	63.3	0.02	0.01	18.2	0
<ul><li>Northwest Coastal LA County</li><li>Southwest Coastal LA County</li></ul>	091 820	51	 45	0	0	26.5							56 56	76 84	40.2 43.1	0.01	0.01	12.2 13.6	0
4 South Coastal LA County 1	072	61	78	0	6(9.8)	31.1	290*	58.5*	34.9*	5(1.7)*	0*	14.2*	62	157	62.9	0.01	0.01	17.8	0
4 South Coastal LA County 2	077	58	117	ő	19(32.7)	45.0	320	53.6	35.3	6(1.9)	0	14.5	59	192	71.1	0.01	0.01	18.8	Ö
6 West San Fernando Valley	074						92	44.1	32.0	1(1.1)	0	12.9							
7 East San Fernando Valley	069	54	71	0	10(18.5)	35.6	104	50.7	43.4	6(5.8)	0	16.6							
8 West San Gabriel Valley	088						113	45.9	32.1	1(0.9)	0	13.4	60	123	42.8			28.7	1(1.7)
9 East San Gabriel Valley 1	060	58	81	0	7(12.1)	31.9	278*	52.8*	38.5*	8(2.9)*	0*	15.5*	59	142	68.4			20.8	0
9 East San Gabriel Valley 2	591																		
10 Pomona/Walnut Valley	075 085							72.2		7(6)	1(0.0)	167	 58	760	 79.3	0.02	0.02	20.6	1/1.7)
<ul><li>South San Gabriel Valley</li><li>South Central LA County</li></ul>	085						116 107	55.0	43.1 44.5	7(6) 4(3.7)	1(0.9) 0	16.7 16.7	58	768 147	79.3 68.4	0.03 0.02	0.02	28.6 24.1	1(1.7) 0
13 Santa Clarita Valley	090	58	53	0	1(1.7)	23.4		33.0		<del></del>						0.02		24.1	
ORANGE COUNTY	070	50	33		1(1.7)	23.4													
16 North Orange County	3177																		
17 Central Orange County	3176	56	104	0	7(12.5)	33.4	330	56.2	40.5	8(2.4)	0	14.1							
18 North Coastal Orange County	3195																		
19 Saddleback Valley	3812	50	57	0	1(2.0)	22.8	106	47.0	25.7	1(0.9)	0	11.0							
RIVERSIDE COUNTY																			
22 Norco/Corona	4155	57	74	0	10(17.5)	36.5													
23 Metropolitan Riverside County 1	4144	118	109	0	71(60.2)	54.4	300	68.5	53.7	32(10.7)	1(0.3)	19.0	59	169	91.2	0.01	0.01	10.8	0
23 Metropolitan Riverside County 2	4146		124		41(60.5)		105	55.3	47.7	9(8.6)	0	17.0	59	131	72.9	0.01	0.01	9.9	0
23 Mira Loma 24 Perris Valley	5214 4149	59 54	124 125	0	41(69.5) 19(35.2)	64.0 45.0	113	63.0	52.5	14(12.4)	0	20.6							
25 Lake Elsinore	4158																		
29 Banning Airport	4164	55	75	0	8(14.6)	31.1													
30 Coachella Valley 1**	4137	57	73+	0+	2(3.5)+	24.5+	111	24.8	15.9	0	0	7.7							
30 Coachella Valley 2**	4157	115	122+	0+	57(49.6)+	52.7+	107	24.3	19.1	0	0	9.5							
SAN BERNARDINO COUNTY																			
32 Northwest San Bernardino Valley	5175												58	105	54.6	0.01	0.01	9.1	0
33 Southwest San Bernardino Valley	5817	62	78	0	17(27.4)	42.3	107	53.7	41.5	7(6.5)	0	18.5							
34 Central San Bernardino Valley 1	5197	60	142	0	31(51.7)	53.5	112	52.6	43.8	7(6.3)	0	17.6	59	190	101.0			10.3	0
34 Central San Bernardino Valley 2	5203	57	92	0	24(42.1)	46.0	102	55.0	48.4	8(7.8)	0	17.8	54	174	87.0	0.02	0.01	11.0	0
35 East San Bernardino Valley 37 Central San Bernardino Mountains	5204	60	103	0	12(20.0)	36.2													
37 Central San Bernardino Mountains 38 East San Bernardino Mountains	5181 5818	58	63	0	1(1.7)	26.2	42*	40.1*	40.1*	1(2.4)*	0*	11.2*							
DISTRICT MAXIMUM	2010		142+	0+	71	64.0	42	72.2	53.7	32	1	20.6		768	101.0	0.03	0.02	28.7	
			142+	0+	75	64.0		72.2	53.7	32	1	20.6		768	101.0	0.03	0.02	28.7	1
SOUTH COAST AIR BASIN			142+	U+	13	04.0	<u> </u>	14.4	33.1	34	1	20.0	<u> </u>	/00	101.0	0.03	0.02	20.7	1

μg/m<sup>3</sup> - Micrograms per cubic meter of air

AAM - Annual Arithmetic Mean

-- - Pollutant not monitored

\* Less than 12 full months of data. May not be representative.

\*\* Salton Sea Air Basin. e) - PM10 samples were collected every 6 days at all sites except for Station Numbers 4144 and 4157 where samples were collected every 3 days.

f) - PM2.5 samples were collected every 3 days at all sites except for the following sites: Station Numbers 060, 072, 077, 087, 3176, and 4144 where samples were taken every day, and Station Number 5818 where samples were taken every 6 days.

- g) Total suspended particulates, lead, and sulfate were determined from samples collected every 6 days by the high volume sampler method, on glass fiber filter media.
- h) Federal annual PM10 standard (AAM > 50 μg/m³) was revoked effective December 17, 2006. State standard is annual average (AAM) > 20 μg/m³.
- i) U.S. EPA has revised the federal 24-hour PM2.5 standard from 65 µg/m³ to 35 µg/m³; effective December 17, 2006.
- j) Federal PM2.5 standard is annual average (AAM) >  $15 \mu g/m^3$ . State standard is annual average (AAM) >  $12 \mu g/m^3$ .
- k) Federal lead standard is quarterly average >  $1.5 \,\mu\text{g/m}^3$ ; and state standard is monthly average  $\geq 1.5 \,\mu\text{g/m}^3$ . No location exceeded lead standards. Maximum monthly and quarterly lead concentrations at special monitoring sites immediately downwind of stationary lead sources were 0.24 µg/m<sup>3</sup> and 0.22 µg/m<sup>3</sup>, respectively, both recorded at Central Los Angeles.
- + The data for the samples collected on a high-wind day (July 16, 2006) at Palm Springs and Indio (226 µg/m<sup>3</sup> and 313 µg/m<sup>3</sup>, respectively) were excluded in accordance with EPA's Natural Events Policy.



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# 2007 AIR QUALITY SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

	_									Nit	rogen Dio	oxide <sup>d)</sup>		Sulfur	Dioxide e	e)						
2007											No. I	Days Star	ndard Exce	eded								
2001				Max.	Max		Max.	Max.	Fourth	Health		Federal <sup>l</sup>	b)	Sta	te c)		Max	Annual		Max.	Max.	Annual
	Statio	on No.	No.	Conc.	Conc.	No.	Conc.	Conc.	High	Advisory						No.	Conc.	Average	No.	Conc.	Conc.	Average
Source/Receptor Area			Days	in	in	Days	in	in	Conc.	≥ 0.15	> 0.12		> 0.075	> 0.09	> 0.070	Days	in	AAM	Days	in	in	AAM
No. Location	State Code	District Code	of Data	ppm 1-hour	ppm 8-hour	of Data	ppm 1-hour	ppm 8-hour	ppm 8-hour	ppm 1-hour	ppm 1-hour	ppm 8-hour	ppm 8-hour	ppm 1-hour	ppm 8-hour	of Data	ppm 1-hour	Conc.	of Data	ppm 1-hour	ppm 24-hour	Conc.
LOS ANGELES COUNTY																						
1 Central LA	70087	087	359	3	2.2	355	0.115	0.102	0.072	0	0	2	3	3	6	360	0.10	0.0299	351	0.01	0.003	0.0009
2 Northwest Coastal LA County	70091	091	365	3	1.9	360	0.117	0.087	0.067	0	0	1	2	2	2	353	0.08	0.0200				
3 Southwest Coastal LA County	70111	820	361	3	2.4	361	0.087	0.074	0.066	0	0	0	0	0	1	331*	0.08	0.0140	361	0.02	0.009	0.0028
4 South Coastal LA County 1	70072	072	347*	3	2.6	365	0.099	0.073	0.056	0	0	0	0	1	1	365	0.11	0.0207	365	0.11	0.011	0.0027
4 South Coastal LA County 2	70110	077																				
6 West San Fernando Valley	70074	074	358	4	2.8	358	0.129	0.104	0.092	0	1	8	28	21	43	358	0.08	0.0186				
7 East San Fernando Valley	70069	069	365	4	2.8	365	0.116	0.096	0.088	0	0	6	13	13	19	363	0.09	0.0289	365	0.01	0.003	0.0010
8 West San Gabriel Valley	70088	088	365	3	2.4	365	0.149	0.100	0.089	0	3	6	11	13	21	365	0.09	0.0246				
9 East San Gabriel Valley 1	70060	060	365	3	2.0	365	0.158	0.112	0.096	1 0	3	13	20	22	28	365	0.12	0.0253				
9 East San Gabriel Valley 2	70591	591	365	2	2.0	364	0.147	0.116	0.104	0	3	14	26	25	40	365	0.11	0.0227				
10 Pomona/Walnut Valley	70075	075	365	3	2.1	365	0.153	0.108	0.102	1	2	10	18	19	25	365	0.10	0.0318				
11 South San Gabriel Valley	70185	085 084	365	5 8	2.9	364	0.135	0.100	0.079	0	2 0	2 0	5	6	9 2	361	0.11	0.0249 0.0291				
12 South Central LA County	70084		365	2	5.1	365	0.102	0.077	0.056	0	2	, ,	1 44	_		365 339*	0.10					
13 Santa Clarita Valley	70090	090	361		1.2	357	0.135	0.110	0.101	0		16	44	31	64	339**	0.08	0.0196				
ORANGE COUNTY														_								
16 North Orange County	30177	3177	360	6	3.3	365	0.152	0.107	0.082	1	1	2	8	7	9	365	0.08	0.0219				
17 Central Orange County 18 North Coastal Orange County	30178	3176	346*	4 5	2.9	365	0.127	0.099	0.073	0	0	1	1	2	7 2	359	0.10	0.0208	250	0.01	0.004	0.0010
<ul><li>18 North Coastal Orange County</li><li>19 Saddleback Valley</li></ul>	30195 30002	3195 3812	362 364	3	3.1 2.1	362 365	0.082 0.108	0.072 0.089	0.065 0.080	0	0	0 2	0 5	0 5	10	362	0.07	0.0132	358	0.01	0.004	0.0010
	30002	3012	304	J	2.1	303	0.100	0.009	0.000		0		- 3	3	10				1			
RIVERSIDE COUNTY 22 Norco/Corona	33155	4155																				
23 Metropolitan Riverside County 1	33144	4133	364	4	2.9	365	0.131	0.111	0.099	0	2	15	46	31	69	364	0.07	0.0206	323*	0.02	0.002	0.0017
23 Metropolitan Riverside County 2	33144	4146	365	4	2.1		0.131	0.111	0.099									0.0200	323	0.02	0.002	0.0017
23 Mira Loma	33140	5214	359	3	2.1	360	0.118	0.104	0.092	0	0	10	23	16	48	349*	0.07	0.0181				
24 Perris Valley	33149	4149				365	0.139	0.116	0.103	0	4	37	73	66	88							
25 Lake Elsinore	33158	4158	365	2	2.3	359	0.130	0.108	0.097	0	3	19	35	26	55	358	0.06	0.0174				
29 Banning Airport	33164	4164				365	0.129	0.113	0.095	0	1	12	43	28	63	363	0.08	0.0177				
30 Coachella Valley 1**	33137	4137	365	2	1.0	365	0.126	0.101	0.097	o o	1	20	58	29	83	365	0.06	0.0103				
30 Coachella Valley 2**	33155	4157				365	0.106	0.094	0.087	0	0	6	29	8	48							
SAN BERNARDINO COUNTY																						
32 Northwest San Bernardino Valley	36175	5175	365	2	1.6	365	0.145	0.115	0.112	0	7	18	35	32	55	327*	0.10	0.0276				
33 Southwest San Bernardino Valley	36025	5817																				
34 Central San Bernardino Valley 1	36197	5197	359	3	1.8	359	0.144	0.122	0.112	0	9	19	43	40	60	358	0.09	0.0239	359	0.01	0.004	0.0019
34 Central San Bernardino Valley 2	36203	5203	365	4	2.3	365	0.153	0.121	0.117	1	8	24	51	48	74	351	0.08	0.0245				
35 East San Bernardino Valley	36204	5204				365	0.149	0.124	0.112	0	7	25	58	54	79							
37 Central San Bernardino Mountains	36181	5181				365	0.171	0.137	0.126	4	13	59	93	67	115							
38 East San Bernardino Mountains	36001	5818																				
DISTRICT MAXIMUM				8	5.1		0.171	0.137	0.126	4	13	59	93	67	115		0.12	0.0318		0.11	0.011	0.0028
SOUTH COAST AIR BASIN				8	5.1		0.171	0.137	0.126	5	18	79	108	96	128		0.12	0.0318		0.11	0.011	0.0028
ppm - Parts Per Million parts of air, by volur	me		ΔΔ	M – Δnı	nual Arith	metic M	ean		- Pollutar	t not monit	ored											

ppm - Parts Per Million parts of air, by volume.

AAM = Annual Arithmetic Mean

-- - Pollutant not monitored.

\*\* Salton Sea Air Basin.



The map showing the locations of source/receptor areas can be accessed via the Internet at <a href="http://www.aqmd.gov/telemweb/areamap.aspx">http://www.aqmd.gov/telemweb/areamap.aspx</a>. Locations of source/receptor areas are shown on the "South Coast Air Quality Management District Air Monitoring Areas" map available free of charge from SCAQMD Public Information.

<sup>\*</sup> Less than 12 full months of data; may not be representative.

a) - The federal 8-hour standard (8-hour average CO > 9 ppm) and state 8-hour standard (8-hour average CO > 9.0 ppm) were not exceeded. The federal and state 1-hour standards (35 ppm and 20 ppm) were not exceeded, either.

b) - The federal 1-hour ozone standard was revoked and replaced by the 8-hour ozone standard effective June 15, 2005. U.S. EPA has revised the federal 8-hour ozone standard from 0.084 ppm to 0.075 ppm, effective May 27, 2008.

c) - The 8-hour average California ozone standard of 0.070 ppm was established effective May 17, 2006.

d) - The federal standard is annual arithmetic mean NO<sub>2</sub> > 0.0534 ppm. California Air Resources Board has revised the NO<sub>2</sub> 1-hour state standard from 0.25 ppm to 0.18 ppm and has established a new annual standard of 0.030 ppm, effective March 20, 2008.

e) - The state standards are 1-hour average  $SO_2 > 0.25$  ppm and 24-hour average  $SO_2 > 0.04$  ppm. The federal standards are annual arithmetic mean  $SO_2 > 0.03$  ppm, 24-hour average > 0.14 ppm, and 3-hour average > 0.50 ppm. The federal and state  $SO_2$  standards were not exceeded.

# 2007 AIR QUALITY

### SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

			Suspended Particulates PM10 f)						Fine Partic	ulates PM2.	5 <sup>g)</sup>			Particulate	es h)	Lead h)		Sulfate h)		
2007		on No.	No.	Max. Conc.	Exce	Samples eeding dards  State > 50	Annual Average Conc. i)	No.	Max. Conc.	98 <sup>th</sup> Percentile Conc. in	No. (%) S Excee Federal S Current > 35 <sup>j)</sup>	ding	Annual Average Conc. k)	No.	Max. Conc.	Annual Average Conc.	Max. Monthly Average	Max. Quarterly Average	Max. Conc. 1)	%Samples Exceeding State Standard ≥ 25
Source/Receptor Area	State	District	Days of	μg/m <sup>3</sup>	μg/m <sup>3</sup>	$\mu g/m^3$	(AAM)	Days of	$\mu g/m^3$	$\mu g/m^3$	$\mu g/m^3$	$\mu g/m^3$	(AAM)	Days of	$\mu g/m^3$	(AAM)	Conc. I)	Conc. l)	$\mu g/m^3$	μg/m <sup>3</sup>
No. Location	Code	Code	Data	24-hour	24-hour	24-hour	μg/m <sup>3</sup>	Data	24-hour	24-hour	24-hour	24-hour	μg/m <sup>3</sup>	Data	24-hour	μg/m <sup>3</sup>	$\mu g/m^3$	$\mu g/m^3$	24-hour	24-hour
LOS ANGELES COUNTY																				
1 Central LA	70087	087	57	78	0	5(9)	33.3	324	64.2	51.2	20(0.6)	0	16.8	58	194	73.5				
2 Northwest Coastal LA County	70091	091												57	180	57.6				
3 Southwest Coastal LA County	70111	820	56	96	0	2(4)	27.7							55	286	51.8				
4 South Coastal LA County 1	70072	072	58	75+	0+	5(9)+	30.2+	332	82.9	40.8	12(3.6)	1(0.3)	14.6	59	732	76.5				
4 South Coastal LA County 2	70110	077 074	57	123+	0+	17(30)+	41.7+	326 95	68.0	33.7	6(1.8)	1(0.3)	13.7	58	694	79.4				
6 West San Fernando Valley	70074			100		11(20)	40.0		43.3	33.4	1(1.1)	0	13.1							
<ul><li>7 East San Fernando Valley</li><li>8 West San Gabriel Valley</li></ul>	70069 70088	069 088	55	109	0	11(20)	40.0	98 108	56.5 68.9	47.7 45.4	9(9.2) 3(2.8)	1(0.9)	16.8 14.3	56	123	46.3				
9 East San Gabriel Valley 1	70060	060	57	83+	0+	11(19)+	35.6+	292*	63.8	49.3	19(6.5)	0	15.9	58	243	77.8				
9 East San Gabriel Valley 2	70591	591													2-13					
10 Pomona/Walnut Valley	70075	075																		
11 South San Gabriel Valley	70185	085						101	63.6	49.5	5(5.0)	0	16.7	55	196	76.0				
12 South Central LA County	70084	084						106	49.0	46.1	4(3.8)	0	15.9	59	327	78.8				
13 Santa Clarita Valley	70090	090	58	131+	0+	5(9)+	29.9+				′									
ORANGE COUNTY																				
16 North Orange County	30177	3177																		
17 Central Orange County	30178	3176	59	75+	0+	5(9)+	31.0+	336	79.4	46.5	14(4.2)	1(0.3)	14.5							
18 North Coastal Orange County	30195	3195																		
19 Saddleback Valley	30002	3812	58	74	0	3(5)	23.0	98	46.9	35.0	2(2.0)	0	11.3							
RIVERSIDE COUNTY																				
22 Norco/Corona	33155	4155	59	93+	0+	10(17)+	39.6+													
23 Metropolitan Riverside County 1	33144	4144	116	118+	0+	66(51)+	54.7+	295*	75.7	54.3	33(11.2)	3(1.0)	19.1	57	237	111.0				
23 Metropolitan Riverside County 2 23 Mira Loma	33146	4146	 56	142	0	41(72)	 C0.5	101	68.6	57.3	8(7.9)	1(1.0)	18.1	60	674	88.9				
24 Perris Valley	33165 33149	5214 4149	59	142 120+	0+	41(73) 32(54)+	68.5 54.8+	110	69.7	60.1	13(11.8)	1(0.9)	21.0							
25 Lake Elsinore	33158	4158																		
29 Banning Airport	33164	4164	49*	78	0	7(14)	33.3													
30 Coachella Valley 1**	33137	4137	55	83	0	6(11)	30.5	104	32.5	20.5	0	0	8.7							
30 Coachella Valley 2**	33155	4157	87*	146+	0+	51(59)+	53.5+	97	26.8	26.5	0	0	9.8							
SAN BERNARDINO COUNTY																				
32 Northwest San Bernardino Valley	36175	5175												60	206	63.5				
33 Southwest San Bernardino Valley	36025	5817	58	115+	0+	14(24)+	43.4+	102	72.8	53.0	6(5.9)	1(1.0)	17.9							
34 Central San Bernardino Valley 1	36197	5197	58	111+	0+	33(57)+	54.9+	107	77.5	64.9	10(9.3)	2(1.9)	19.0	58	242	96.2	<b>_</b>			
34 Central San Bernardino Valley 2	36203	5203	58	136+	0+	28(48)+	51.4+	99	72.1	68.4	11(11.1)	3(3.0)	18.3	59	536	106.9				
35 East San Bernardino Valley	36204	5204	60	97	0	19(32)	39.7													
37 Central San Bernardino Mountains	36181	5181	54	89	0	2(4)	27.2	54	45.4	24.0	1(1.0)	0	10.4							
38 East San Bernardino Mountains	36001	5818						54	45.4	34.0	1(1.9)	-	10.4						1	
DISTRICT MAXIMUM				146+	0+	66+	68.5+		82.9	68.4	33	3	21.0		732	111.0	-			
SOUTH COAST AIR BASIN				142+	0+	79+	68.5+	Deli	82.9	68.4	48	8	21.0	<u> </u>	732	111.0				

μg/m<sup>3</sup> - Micrograms per cubic meter of air.

AAM = Annual Arithmetic Mean

-- - Pollutant not monitored.

f) - PM10 samples were collected every 6 days at all sites except for Station Numbers 4144 and 4157 where samples were collected every 3 days.



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<sup>\*</sup> Less than 12 full months of data; may not be representative.

<sup>\*\*</sup> Salton Sea Air Basin.

g) - PM2.5 samples were collected every 3 days at all sites except for the following sites: Station Numbers 060, 072, 077, 087, 3176, and 4144 where samples were taken every day, and Station Number 5818 where samples were taken every 6 days.

h) - Total suspended particulates, lead, and sulfate were determined from samples collected every 6 days by the high volume sampler method, on glass fiber filter media.

i) - Federal annual PM10 standard (AAM > 50 μg/m³) was revoked effective December 17, 2006. State standard is annual average (AAM) > 20 μg/m³.

j) - U.S. EPA has revised the federal 24-hour PM2.5 standard from 65 µg/m<sup>3</sup> to 35 µg/m<sup>3</sup>; effective December 17, 2006.

k) - Federal PM2.5 standard is annual average (AAM) > 15  $\mu$ g/m<sup>3</sup>. State standard is annual average (AAM) > 12  $\mu$ g/m<sup>3</sup>.

Federal lead standard is quarterly average > 1.5 μg/m<sup>3</sup>; and state standard is monthly average ≥ 1.5 μg/m<sup>3</sup>. Lead and sulfate data analysis is incomplete and data is not available at this time.

<sup>+ -</sup> The following PM10 data samples were excluded from compliance consideration in accordance with the EPA Exceptional Event Regulation: 210 and 157 ug/m3 on March 22 and April 6, respectively, at Coachella Valley 2 (high wind events); 167 ug/m3 on April 12 at Perris Valley (high wind event); 165 and 155 ug/m3 on July 5 at East San Gabriel 1 and Central San Bernardino Valley 1, respectively (fireworks displays); and high concentration throughout the District on October 21, with a maximum concentration of 559 ug/m3 at Metropolitan Riverside County 1 (high wind and wildfire event).

# 2008 AIR QUALITY SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

0000			Carbon Monoxide a)							Ozo	one					Nit	rogen Dio	xide <sup>d)</sup>		Sulfur	Dioxide e	e)
2008											No. I	Days Stan	dard Exce	eded								
4000				Max.	Max		Max.	Max.	Fourth	Health	_	Federal b	p)	Sta	te <sup>c)</sup>		Max	Annual		Max.	Max.	Annual
	Statio	on No.	No.	Conc.	Conc.	No.	Conc.	Conc.	High	Advisory						No.	Conc.	Average	No.	Conc.	Conc.	Average
Source/Receptor Area	~		Days	in	in	Days	in	in	Conc.	≥ 0.150	> 0.12	> 0.08	> 0.075	> 0.09	> 0.070	Days	in	AAM	Days	in	in	AAM
No. Location	State Code	District Code	of Data	ppm 1-hour	ppm 8-hour	of Data	ppm 1-hour	ppm 8-hour	ppm 8-hour	ppm 1-hour	ppm 1-hour	ppm 8-hour	ppm 8-hour	ppm 1-hour	ppm 8-hour	of Data	ppm 1-hour	Conc.	of Data	ppm 1-hour	ppm 24-hour	Conc.
LOS ANGELES COUNTY																						
1 Central LA	70087	087	366	3	2.1	356	0.109	0.090	0.073	0	0	1	3	3	7	343	0.12	0.0275	366	0.01	0.002	0.0003
2 Northwest Coastal LA County	70091	091	366	3	2.0	366	0.11	0.097	0.073	0	0	1	2	3	8	364	0.09	0.0184				
3 Southwest Coastal LA County	70111	820	358	4	2.5	360	0.086	0.075	0.065	0	0	0	0	0	1	359	0.10	0.0143	357	0.02	0.005	0.0014
4 South Coastal LA County 1	70072	072	366	3	2.6	366	0.093	0.074	0.064	0	0	0	0	0	1	366	0.13	0.0208	366	0.09	0.012	0.0022
4 South Coastal LA County 2	70110	077													<u> </u>							
6 West San Fernando Valley	70074	074	366	4	2.9	366	0.123	0.103	0.095	0	0	14	25	23	40	366	0.09	0.0180				
7 East San Fernando Valley	70069	069	366	3	2.6	366	0.133	0.109	0.092	0	1	8	17	20	35	364	0.11	0.0285	366	0.01	0.003	0.0008
8 West San Gabriel Valley	70088	088	366	3	2.1	366	0.122	0.100	0.091	0	0	6	16	16	26	365	0.11	0.0235				
9 East San Gabriel Valley 1	70060	060	366	2	1.6	366	0.135	0.111	0.101	0	7	14	28	34	39	366	0.10	0.0230				
9 East San Gabriel Valley 2	70591	591	366	3	3.0	366	0.156	0.118	0.112	2	12	25	45	48	61	366	0.10	0.0182				
10 Pomona/Walnut Valley	70075	075	366	3	2.0	366	0.141	0.110	0.100	0	5	19	35	32	47	366	0.11	0.0302				
11 South San Gabriel Valley	70185	085	357	3	2.1	366	0.107	0.093	0.077	0	0	1	5	7	13	341	0.10	0.0263				
12 South Central LA County	70084	084	310*	6*	4.3*	310*	0.078*	0.060*	0.055*	0*	0*	0*	0*	0*	0*	305*	0.12*	0.0301*				
13 Santa Clarita Valley	70090	090	363	2	1.1	363	0.160	0.131	0.108	2	8	35	60	54	81	363	0.07	0.0165				
ORANGE COUNTY																						
16 North Orange County	30177	3177	366	5	2.9	366	0.104	0.084	0.078	0	0	0	5	7	15	361	0.09	0.0206				
17 Central Orange County	30178	3176	366	4	3.6	366	0.105	0.086	0.076	0	0	1	4	2	10	366	0.09	0.0203				
18 North Coastal Orange County	30195	3195	366	3	2.0	366	0.094	0.079	0.075	0	0	0	3	0	6	365	0.08	0.0132	366	0.01	0.003	0.0011
19 Saddleback Valley	30002	3812	365	2	1.1	365	0.118	0.104	0.092	0	0	6	15	9	25							
RIVERSIDE COUNTY																						
22 Norco/Corona	33155	4155																				
23 Metropolitan Riverside County 1	33144	4144	366	3	2.0	366	0.146	0.116	0.111	0	8	38	64	54	88	366	0.09	0.0192	366	0.01	0.003	0.0009
23 Metropolitan Riverside County 2	33146	4146	366	7	2.0											70*	0.09*	0.0258*				
23 Mira Loma	33165	5214	366	3	1.9	366	0.135	0.107	0.104	0	4	23	47	38	62	366	0.10	0.0174				
24 Perris Valley	33149	4149				366	0.142	0.114	0.106	0	4	41	77	65	94							
25 Lake Elsinore	33158	4158	365	1	1.0	365	0.139	0.118	0.108	0	6	32	69	49	92	362	0.06	0.0129				
29 Banning Airport	33164	4164				365	0.149	0.120	0.108	0	10	45	74	57	95	366	0.08	0.0128				
30 Coachella Valley 1**	33137	4137	366	1	0.6	366	0.11	0.101	0.098	0	0	20	51	26	70	366	0.05	0.0093				
30 Coachella Valley 2**	33155	4157				355	0.12	0.092	0.090	0	0	11	27	11	44							
SAN BERNARDINO COUNTY																						
32 Northwest San Bernardino Valley	36175	5175	365	2	1.6	365	0.155	0.122	0.111	2	9	30	50	51	65	365	0.09	0.0235				
33 Southwest San Bernardino Valley	36025	5817						-														
34 Central San Bernardino Valley 1	36197	5197	363	2	1.9	364	0.162	0.124	0.111	1	8	35	58	55	82	364	0.10	0.0207	364	0.01	0.003	0.0018
34 Central San Bernardino Valley 2	36203	5203	366	2	1.8	366	0.157	0.122	0.113	2	11	43	62	62	90	366	0.09	0.0217				
35 East San Bernardino Valley	36204	5204				366	0.154	0.120	0.112	1	12	50	75	72	100							
37 Central San Bernardino Mountains	36181	5181				362	0.176	0.126	0.120	2	16	67	97	78	115							
38 East San Bernardino Mountains	36001	5818																				
DISTRICT MAXIMUM			366	7	4.3	366	0.176	0.131	0.120	2	17	75	97	79	115		0.13	0.0302		0.09	0.012	0.0022
SOUTH COAST AIR BASIN	•			7	4.3		0.176	0.131	0.120	7	28	80	120	102	140		0.13	0.0302		0.09	0.012	0.0022
ppm - Parts Per Million parts of air, by yolur	no		Λ Λ	M - An	nual Arith	metic M	200		Pollutar	nt not monit	orad											

ppm - Parts Per Million parts of air, by volume.

a) - The federal 8-hour standard (8-hour average CO > 9 ppm) and state 8-hour standard (8-hour average CO > 9.0 ppm) were not exceeded. The federal and state 1-hour standards (35 ppm and 20 ppm) were not exceeded, either.

- c) The 8-hour average California ozone standard of 0.070 ppm was established effective May 17, 2006.
- d) The federal standard is annual arithmetic mean NO<sub>2</sub> > 0.0534 ppm. California Air Resources Board has revised the NO<sub>2</sub> 1-hour state standard from 0.25 ppm to 0.18 ppm and has established a new annual standard of 0.030 ppm, effective March 20, 2008.
- e) The state standards are 1-hour average  $SO_2 > 0.25$  ppm and 24-hour average  $SO_2 > 0.04$  ppm. The federal standards are annual arithmetic mean  $SO_2 > 0.03$  ppm, 24-hour average > 0.14 ppm, and 3-hour average > 0.50 ppm. The federal and state  $SO_2$  standards were not exceeded.



The map showing the locations of source/receptor areas can be accessed via the Internet at <a href="http://www.aqmd.gov/telemweb/areamap.aspx">http://www.aqmd.gov/telemweb/areamap.aspx</a>. Locations of source/receptor areas are shown on the "South Coast Air Quality Management District Air Monitoring Areas" map available free of charge from SCAQMD Public Information.

\*\* Salton Sea Air Basin.

<sup>\*</sup> Less than 12 full months of data; may not be representative.

b) - The federal 1-hour ozone standard was revoked and replaced by the 8-hour average ozone standard effective June 15, 2005. U.S. EPA has revised the federal 8-hour ozone standard from 0.084 ppm to 0.075 ppm, effective May 27, 2008.

# 2008 AIR QUALITY SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

-			Suspended Particulates PM10 f)					Fine Particulates PM2.5 g)					Particulates TSP h)			Lead h)		Sulfate h)		
2008				Max.	No. (%	) Samples	Annual Averag		Max.	98 <sup>th</sup>	No. (%) Exce	Samples eding Standard	Annual	r	Max.	Annual	Max.	Max.	Max.	%Samples Exceeding State
			No.	Conc.	Federal	State	e i)	No.	Conc.	Percentile	Current	Old	Average	No.	Conc.	Average	Monthly	Quarterly	Conc.	Standard
	Statio	n No.	Days	in	> 150	> 50	Conc. 1)	Days	in	Conc. in	> 35 <sup>j)</sup>	> 65 <sup>j)</sup>	Conc. k)	Days	in	Conc.	Average	Average	in	≥ 25
Source/Receptor Area	State	District	of	μg/m <sup>3</sup>	μg/m <sup>3</sup>	μg/m <sup>3</sup> 24-	(AAM)	of	μg/m <sup>3</sup>	μg/m <sup>3</sup>	μg/m <sup>3</sup>	μg/m <sup>3</sup>	(AAM)	of	μg/m <sup>3</sup>	(AAM)	Conc. 1)	Conc. 1)	$\mu g/m^3$	μg/m <sup>3</sup>
No. Location	Code	Code	Data	24-hour	24-hour	hour	μg/m <sup>3</sup>	Data	24-hour	24-hour	24-hour	24-hour	μg/m <sup>3</sup>	Data	24-hour	μg/m <sup>3</sup>	μg/m <sup>3</sup>	μg/m <sup>3</sup>	24-hour	24-hour
LOS ANGELES COUNTY													\							
1 Central LA	70087	087	42*	66*	0*	3(7%)*	32.2*	337	78.3	40.4	10(3.0)	1(0.3)	15.7							
2 Northwest Coastal LA County	70091	091																		
3 Southwest Coastal LA County 4 South Coastal LA County 1	70111 70072	820 072	60 57	50 62	0	0(0%)	25.6	246	57.2	38.9	8(2.3)	0	14.2							
4 South Coastal LA County 1 4 South Coastal LA County 2	70072	072	58	81	0	1(2%) 9(16%)	29.1 35.8	346 349	60.9	36.4	7(2.0)	0	14.2 13.7							
6 West San Fernando Valley	70074	074						113	50.5	26.2	2(1.8)	0	11.9	<del> </del>			<b>-</b>		-	
7 East San Fernando Valley	70074	069	54	66	0	7(13%)	35.6	116	57.5	34.6	2(1.7)	0	14.1							
8 West San Gabriel Valley	70088	088				7(1370)		118	66.0	32.1	2(1.7)	1(0.9)	12.9							
9 East San Gabriel Valley 1	70060	060	49	98	0	13(27%)	35.3	321	53.1	34.8	5(1.6)	0	14.1							
9 East San Gabriel Valley 2	70591	591				\ \														
10 Pomona/Walnut Valley	70075	075														•				
11 South San Gabriel Valley	70185	085						114.	47.3	38.0	4(3.5)	0	15.0							
12 South Central LA County	70084	084						118	44.2	36.5	3(2.5)	0	15.5							
13 Santa Clarita Valley	70090	090	57	91	0	2(4%)	25.8													
ORANGE COUNTY																				
16 North Orange County	30177	3177							1			<b>—</b>								
17 Central Orange County	30178	3176	58	61	0	3(5%)	28.6	336	67.9	39.4	13(3.9)	1(0.3)	13.7							
18 North Coastal Orange County	30195	3195						<u> </u>			-									
19 Saddleback Valley	30002	3812	55	42	0	0(0%)	22.6	120	32.6	27.1	0	0	10.4							
RIVERSIDE COUNTY									`											
22 Norco/Corona	33155	4155	61	86	0	9(15%)	34.4		-											
23 Metropolitan Riverside County 1	33144	4144	119	115	0	49(41%)	47.0	348	57.7	41.5	14(4.0)	0	16.4							
<ul><li>23 Metropolitan Riverside County 2</li><li>23 Mira Loma</li></ul>	33146 33165	4146 5214	61	135	0	35(57%)	57.4	116 111	43.0 50.9	39.1 47.1	4(3.4)	0	13.4 18.2							
24 Perris Valley	33149	4149	 45*	 85*	0*	12(27%)*	38.3*	111	30.9	47.1	10(9.0)		10.2							
25 Lake Elsinore	33158	4158				12(27/0)								<b>†</b>		•				
29 Banning Airport	33164	4164	56	51	0	1(2%)	26.1													
30 Coachella Valley 1**	33137	4137	52	75	0	4(8%)	24.0	110	18.1	17.1	0	0	7.2							
30 Coachella Valley 2**	33157	4157	114	128	0	27(24%)	39.9	113	21.6	18.8	0	0	8.4							
SAN BERNARDINO COUNTY																			Ì	
32 Northwest San Bernardino Valley	36175	5175				-:-														
33 Southwest San Bernardino Valley	36025	5817	62	90	0	15(24%)	38.8	113	54.2	45.0	6(5.3)	0	15.8							
34 Central San Bernardino Valley 1	36197	5197	60	75	0	14(23%)	40.3	112	49.0	47.1	6(5.4)	0	15.4							
34 Central San Bernardino Valley 2	36203	5203	60	76	0	19(32%)	42.7	110	43.5	40.1	3(2.7)	0	13.5	<b>,</b>		<b>-</b> \$1101011111111111111111111111111111111				
35 East San Bernardino Valley	36204	5204	61	58	0	4(7%)	29.0				'									
37 Central San Bernardino Mountains	36181	5181	46	46	0	0(0%)	25.0													
38 East San Bernardino Mountains	36001	5818				<u>-</u>		58	36.8	33.3	1(1.7)	0	9.2							
DISTRICT MAXIMUM				135	0	59	57.4		78.3	47.1	14	1	18.2							
SOUTH COAST AIR BASIN				135	0	68	57.4		78.3	47.1	28	2	18.2							
ug/m <sup>3</sup> - Micrograms per cubic meter of air			Λ	$\Delta M - \Delta nnn$	al A mithana	tio Moon		Dol	lutant not r	nonitomad				_					_	

μg/m<sup>3</sup> - Micrograms per cubic meter of air.

AAM = Annual Arithmetic Mean

-- - Pollutant not monitored.

f) - PM10 samples were collected every 6 days at all sites except for Station Numbers 4144 and 4157 where samples were collected every 3 days.

- h) Total suspended particulates, lead, and sulfate were determined from samples collected every 6 days by the high volume sampler method, on glass fiber filter media.
- i) Federal annual PM10 standard (AAM > 50 μg/m³) was revoked effective December 17, 2006. State standard is annual average (AAM) > 20 μg/m³.
- j) U.S. EPA has revised the federal 24-hour PM2.5 standard from 65 μg/m³ to 35 μg/m³; effective December 17, 2006.
- k) Federal PM2.5 standard is annual average (AAM) > 15 μg/m<sup>3</sup>. State standard is annual average (AAM) > 12 μg/m<sup>3</sup>.
- l) Federal lead standard is quarterly average > 1.5 μg/m<sup>3</sup>, and state standard is monthly average ≥ 1.5 μg/m<sup>3</sup>. U.S. EPA has established the federal standard of 0.15 ug/m<sup>3</sup>, rolling 3-month average, as of October 15, 2008.

\*\* Salton Sea Air Basin.



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<sup>\*</sup> Less than 12 full months of data; may not be representative.

g) - PM2.5 samples were collected every 3 days at all sites except for the following sites: Station Numbers 060, 072, 077, 087, 3176, and 4144 where samples were taken every 6 days.

# Appendix C

EMFAC 2007 & CAL3QHC Output Files

# Concentrations of CO for Project

2009	Exist	ina
2000	LAISE	y

	1-Hour Bckgrnd Conc.	8-Hour Bckgrnd Conc.	Model RESULTS	Parts Pe	er Million
Intersection			1-hour	1-hour	8-hour
Glendale & Bellevue	3	2.6	1.2	4	3.4
Glendale & Temple - AM	3	2.6	1.1	4	3.4
Glendale & Temple - PM	3	2.6	1.1	4	3.4

# 2013 Baseline

	1-Hour Bckgrnd	8-Hour Bckgrnd	Model		
	Conc.	Conc.	RESULTS	Parts Pe	er Million
Intersection			1-hour	1-hour	8-hour
Glendale & Bellevue	2	2	1.1	3	2.8
Glendale & Temple - AM	2	2	1	3	2.7
Glendale & Temple - PM	2	2	1	3	2.7

2013 Project

	1-Hour Bckgrnd Conc.	8-Hour Bckgrnd Conc.	Model RESULTS	Parts Pe	er Million
Intersection			1-hour	1-hour	8-hour
Glendale & Bellevue	2	2	1.1	3	2.8
Glendale & Temple - AM	2	2	1	3	2.7
Glendale & Temple - PM	2	2	1	3	2.7

	State Standard			20	9.0
--	----------------	--	--	----	-----

RUN: Glendale & Bellevue - EX - AM JOB: Glendale & Bellevue - EX - AM

DATE : 1/21/10 TIME : 16:40: 6

The MODE flag has been set to C for calculating CO averages.

SITE & METEOROLOGICAL VARIABLES

LINK VARIABLES

	LINK DESCRIPTION	*	LI	NK COORDIN	ATES (FT)		*	LENGTH	BRG TYPE	VPH	EF	H W	V/C	QUEUE
		*	X1	Y1	X2	Y2	*	(FT)	(DEG)		(G/MI)	(FT) (FT)		
(VEH)														
		*					-*							
	1. nba	*	512.0	.0	512.0	500.0	*	500.	360. AG	691.	4.1	.0 56.0		
	2. nbd	*	512.0	500.0	512.0	1000.0	*	500.	360. AG	571.	4.1	.0 44.0		
	3. nbq	*	512.0	500.0	512.0	487.4	*	13.	180. AG	6.	100.0	.0 36.0	.19	.6
	4. sba	*	488.0	1000.0	488.0	500.0	*	500.	180. AG	1924.	4.1	.0 56.0		
	5. sbd	*	488.0	500.0	488.0	.0	*	500.	180. AG	2352.	4.1	.0 44.0		
	6. sbq	*	488.0	536.0	488.0	571.1	*	35.	360. AG	6.	100.0	.0 36.0	.53	1.8
	7. ebd	*	500.0	500.0	1000.0	500.0	*	500.	90. AG	257.	4.1	.0 32.0		
	8. wba	*	1000.0	518.0	500.0	518.0	*	500.	270. AG	565.	4.1	.0 56.0		
	9. wbq	*	524.0	518.0	601.1	518.0	*	77.	90. AG	31.	100.0	.0 36.0	.88	3.9

JOB: Glendale & Bellevue - EX - AM RUN: Glendale & Bellevue - EX - AM

DATE : 1/21/10 TIME : 16:40: 6

ADDITIONAL QUEUE LINK PARAMETERS

LINK DESCRIPTION \* CYCL
\* LENG CLEARANCE APPROACH SATURATION IDLE SIGNAL ARRIVAL LOST TIME VOL FLOW RATE EM FAC TYPE RATE (SEC) (VPH) (VPH) (gm/hr) CYCLE RED TIME (SEC) (SEC) 60 10 10 47 3.0 3.0 3.0 3 3 3 3 3 3 3. nbq 691 1600 4.84 1924 6. sbq 9. wbq 60 1600 4.84 4.84 60 565 1600

		*	COOR	DINATES (FT	')	*
	RECEPTOR	*	X	Y	Z	*
		*				*
1.	nw	*	466.0	546.0	5.4	*
2.	ne	*	534.0	546.0	5.4	*
3.	SW	*	466.0	490.0	5.4	*
4.	se	*	534.0	490.0	5.4	*

JOB: Glendale & Bellevue - EX - AM

RUN: Glendale & Bellevue - EX - AM

MODEL RESULTS

REMARKS: In search of the angle corresponding to the maximum concentration, only the first angle, of the angles with same maximum concentrations, is indicated as maximum.

WIND ANGLE RANGE: 0.-360.

WIND ANGLE	*		TRATIC	ON	
(DEGR)		REC1	(PPM) REC2	REC3	REC4
	*.				
0.	*	. 7	. 3	. 6	.6
10.	*	. 8	. 0	. 9	. 2
20.	*	.6	.0	.7	. 2
30.	*	.5	.0	.5	. 2
40.	*	. 4	.0	.5	. 2
50.	*	. 4	.0	. 4	. 2
60.	*	. 4	.0	.6	.3
70.	*	. 4	.0	.5	. 4
80.	*	. 3	.0	.7	.3
90.	*	. 4	.1	.6	. 2
100.	*	.7	. 2	. 4	.1
110.	*	.6	. 3	. 4	.0
120.	*	.5	. 2	. 4	.0
130.	*	. 4	. 2	.5	.0
140.	*	.5	. 2	. 5	.0
150.	*	.6	. 2	.6	.0
160.	*	.7	. 2	.8	.0
170.	*	1.1	. 2	1.2	.1
180.	*	. 9	.6	. 8	. 4
190.	*	. 2	1.0	.1	. 8
200.	*	.1	. 7	.0	.7
210.	*	. 0	. 7	.0	.6
220.	*	. 0	. 5	.0	. 4
230. 240.	*	.0	.5	. 0	. 4
250.	*	.0	. 4	.0	.4
260.	*	.0	.3	.0	.4
270.	*	.0	.3	.0	.3
280.	*	.0	.3	.0	. 4
290.	*	.0	.3	.0	. 4
300.	*	.0	. 3	.0	. 4
310.	*	.1	. 4	.0	. 4
320.	*	.1	. 4	.0	.5
330.	*	.1	. 4	.0	.5
340.	*	.1	. 6	.1	.6
350.	*	. 2	. 6	. 2	.8
360.	*	.7	. 3	.6	.6
MAX	*	1.1	1.0	1.2	.8
DEGR.	*	170	190	170	350

THE HIGHEST CONCENTRATION OF  $1.20~{
m PPM}$  OCCURRED AT RECEPTOR REC3 .

RUN: Glendale & Bellevue - NP - AM JOB: Glendale & Bellevue - NP - AM

DATE : 1/21/10 TIME : 16:46:25

The MODE flag has been set to C for calculating CO averages.

SITE & METEOROLOGICAL VARIABLES

LINK VARIABLES

T TIME DEGGET TO	TTON *					*		55.0 miles	*****			** / 6	0
LINK DESCRIP	I.TON ,		INK COORDIN	- ,			LENGTH	BRG TYPE	VPH	EF	H W	V/C	QUEUE
	*	X1	Y1	X2	Y2	*	(FT)	(DEG)		(G/MI)	(FT) (FT)		
(VEH)													
	*_					*							
1. nba	*	512.0	.0	512.0	500.0	*	500.	360. AG	821.	2.9	.0 56.0		
2. nbd	*	512.0	500.0	512.0	1000.0	*	500.	360. AG	755.	2.9	.0 44.0		
3. nbq	*	512.0	500.0	512.0	485.1	*	15.	180. AG	6.	100.0	.0 36.0	.23	. 8
4. sba	*	488.0	1000.0	488.0	500.0	*	500.	180. AG	2062.	2.9	.0 56.0		
5. sbd	*	488.0	500.0	488.0	.0	*	500.	180. AG	539.	2.9	.0 44.0		
6. sbq	*	488.0	536.0	488.0	573.6	*	38.	360. AG	6.	100.0	.0 36.0	.57	1.9
7. ebd	*	500.0	500.0	1000.0	500.0	*	500.	90. AG	2235.	2.9	.0 32.0		
8. wba	*	1000.0	518.0	500.0	518.0	*	500.	270. AG	646.	2.9	.0 56.0		
9. wbq	*	524.0	518.0	671.1	518.0	*	147.	90. AG	30.	100.0	.0 36.0	1.01	7.5

PAGE 2

RUN: Glendale & Bellevue - NP - AM JOB: Glendale & Bellevue - NP - AM

DATE : 1/21/10 TIME : 16:46:25

ADDITIONAL QUEUE LINK PARAMETERS

LINK DESCRIPTION	* * *	CYCLE LENGTH (SEC)	RED TIME (SEC)	CLEARANCE LOST TIME (SEC)	APPROACH VOL (VPH)	SATURATION FLOW RATE (VPH)	IDLE EM FAC (gm/hr)	SIGNAL TYPE	ARRIVAL RATE
3. nbq	*	60	10	3.0	821	1600	4.83	3	3
6. sbq	*	60	10	3.0	2062	1600	4.83	3	3
9. wbq	*	60	47	3.0	646	1600	4.83	3	3

	*	COOR	DINATES (FI	')	*
RECEPTOR	*	X	Y	Z	*
	*				-*
1. nw	*	466.0	546.0	5.4	*
2. ne	*	534.0	546.0	5.4	*
3. sw	*	466.0	490.0	5.4	*
4. se	*	534.0	490.0	5.4	*

JOB: Glendale & Bellevue - NP - AM

RUN: Glendale & Bellevue - NP - AM

MODEL RESULTS

REMARKS: In search of the angle corresponding to the maximum concentration, only the first angle, of the angles with same maximum concentrations, is indicated as maximum.

WIND ANGLE RANGE: 0.-360.

WIND *	COLICE	NTRATIO	ON	
(DEGR)*		REC2	REC3	REC4
*				
0. *	. 5	. 3	. 5	.7
10. *	.7	.0	.6	. 4
20. *		.0	. 4	. 4
30. *		.0	. 3	. 4
40. *		.0	. 3	.5
50. *		.0	. 3	.5
60. *		.0	. 5	.6
70. *		.0	.5	.8
80. *		. 0	.7	1.1
90. *		. 2	. 9	. 9
100. *	. 0	.6	. 4	. 4
110.	. 0	. 6	. 2	.1
120.	. ,	. 4	. 2	.1
130.		. 4	. 2	.1
110.		. 4	. 2	.1
150.		. 4	.2	.0
100.	. 4	. 4		.0
170.		. 4	. 3	.1
180. * 190. *		. 8	.1	.2
200. *	. 1	.6	.0	.3
210. *	. 1	. 5	.0	. 2
220. *	. 0	. 4	.0	.3
230. *		.2	.0	.2
240. *	.0	.3	.0	.2
250. *		.3	.0	.2
260. *		.3	.0	.3
270. *		.3	.0	.4
280. *		. 3	.0	. 5
290. *	. 0	. 3	. 0	. 5
300. *	. 0	. 3	. 0	. 5
310. *	. 0	. 3	. 0	. 6
320. *	.0	. 3	.0	.7
330. *	.0	. 3	.0	.6
340. *	.1	.5	.0	.7
350. *	. 2	.5	. 2	.9
360. *	.5	. 3	.5	.7
* MAX *	.8	.8	.9	1.1
DEGR. *	100	190	90	80
DEGIC.	100	100	50	30

THE HIGHEST CONCENTRATION OF  $\phantom{0}$  1.10 PPM OCCURRED AT RECEPTOR REC4 .

RUN: Glendale & Bellevue - WP - AM JOB: Glendale & Bellevue - WP - AM

DATE : 1/21/10 TIME : 16:48:18

The MODE flag has been set to C for calculating CO averages.

SITE & METEOROLOGICAL VARIABLES

LINK VARIABLES

	LINK DESCRIPTION	*	LI	NK COORDIN	ATES (FT)	*	LENGTH	BRG TYPE	VPH	EF	H W	V/C	QUEUE
		*	X1	Y1	X2	Y2 *	(FT)	(DEG)		(G/MI)	(FT) (FT	)	
(VEH)													
		*				*							
	1. nba	*	512.0	.0	512.0	500.0 *	500.	360. AG	848.	2.9	.0 56.0		
	2. nbd	*	512.0	500.0	512.0	1000.0 *	500.	360. AG	768.	2.9	.0 44.0		
	3. nbq	*	512.0	500.0	512.0	484.6 *	15.	180. AG	6.	100.0	.0 36.0	.24	. 8
	4. sba	*	488.0	1000.0	488.0	500.0 *	500.	180. AG	2062.	2.9	.0 56.0		
	5. sbd	*	488.0	500.0	488.0	.0 *	500.	180. AG	548.	2.9	.0 44.0		
	6. sbq	*	488.0	536.0	488.0	573.6 *	38.	360. AG	6.	100.0	.0 36.0	.57	1.9
	7. ebd	*	500.0	500.0	1000.0	500.0 *	500.	90. AG	2249.	2.9	.0 32.0		
	8. wba	*	1000.0	518.0	500.0	518.0 *	500.	270. AG	655.	2.9	.0 56.0		
	9. wbq	*	524.0	518.0	702.4	518.0 *	178.	90. AG	30.	100.0	.0 36.0	1.02	9.1

RUN: Glendale & Bellevue - WP - AM JOB: Glendale & Bellevue - WP - AM

DATE : 1/21/10 TIME : 16:48:18

ADDITIONAL QUEUE LINK PARAMETERS

LINK DESCRIPTION	* * *	CYCLE LENGTH (SEC)	RED TIME (SEC)	CLEARANCE LOST TIME (SEC)	APPROACH VOL (VPH)	SATURATION FLOW RATE (VPH)	IDLE EM FAC (gm/hr)	SIGNAL TYPE	ARRIVAL RATE
3. nbq	* *	60	10	3.0	848	1600	4.83	3	3
6. sbq		60	10	3.0	2062	1600	4.83	3	3
9. wbq		60	47	3.0	655	1600	4.83	3	3

_								
		*	COOR	COORDINATES (FT)				
	RECEPTOR	*	X	Y	Z	*		
		*				*		
1.	nw	*	466.0	546.0	5.4	*		
2.	ne	*	534.0	546.0	5.4	*		
3.	sw	*	466.0	490.0	5.4	*		
4.	se	*	534.0	490.0	5.4	*		

JOB: Glendale & Bellevue - WP - AM RUN: Glendale & Bellevue - WP - AM

MODEL RESULTS

REMARKS: In search of the angle corresponding to the maximum concentration, only the first angle, of the angles with same maximum concentrations, is indicated as maximum.

WIND ANGLE RANGE: 0.-360.

WIND *	* CONCENTRATION									
ANGLE '	r .	(PPM)								
(DEGR)	REC1	REC2	REC3	REC4						
0. *			. 5	.7						
10. *			. 6	. 4						
20.			. 4	. 4						
30.			. 3	. 4						
40.			. 3	.5						
50.			. 3	.5						
00.			. 5	.6						
70.			. 5	.8						
80.			. 8	1.1						
90.			1.0	.9						
100.			. 4	. 4						
110.			. 2	.1						
120.			. 2	.1						
130.			. 2	.1						
110.			. 2	.1						
100.			. 2	.0						
100.			. 2	.0						
170.			. 3	.1						
100.			.1	.2						
190.			. 0	.3						
200.			.0	. 3						
220.			.0	.2						
230.			.0	. 2						
240.			.0	.2						
250.			.0	.2						
260.			.0	.3						
270.			.0	.4						
280.			.0	.5						
290.			.0	.5						
300.			.0	.5						
310.			.0	. 6						
320.			.0	.7						
330.			. 0	.6						
340.			.0	.7						
350.		2 .5	. 2	.9						
360.	٠.	5 .3	.5	.7						
MAX			1.0	1.1						
DEGR. '	100	190	90	80						

THE HIGHEST CONCENTRATION OF  $1.10~{\rm PPM}$  OCCURRED AT RECEPTOR REC4 .

RUN: Glendale & Temple - EX - AM JOB: Glendale & Temple - EX - AM

DATE : 1/25/10 TIME : 10:36: 4

The MODE flag has been set to C for calculating CO averages.

SITE & METEOROLOGICAL VARIABLES

LINK VARIABLES

	LINK DESCRIPTION	*	I	LINK COORDIN	ATES (FT)		*	LENGTH	BRG TYPE	VPH	EF	H W	V/C	QUEUE
		*	X1	Y1	X2	Y2	*	(FT)	(DEG)		(G/MI)	(FT) (FT)		
(VEH)														
		*_					*							
	1. nba	*	518.0	.0	518.0	500.0	*	500.	360. AG	508.	4.1	.0 56.0		
	2. nbd	*	518.0	500.0	518.0	1000.0	*	500.	360. AG	725.	4.1	.0 44.0		
	3. nbq	*	518.0	464.0	518.0	445.5	*	18.	180. AG	13.	100.0	.0 36.0	.18	.9
	4. sba	*	482.0	1000.0	482.0	500.0	*	500.	180. AG	2234.	4.1	.0 56.0		
	5. sbd	*	482.0	500.0	482.0	.0	*	500.	180. AG	2061.	4.1	.0 44.0		
	6. sbq	*	482.0	536.0	482.0	623.5	*	88.	360. AG	13.	100.0	.0 36.0	.80	4.4
	7. eba	*	.0	482.0	500.0	482.0	*	500.	90. AG	872.	4.1	.0 56.0		
	8. ebd	*	500.0	482.0	1000.0	482.0	*	500.	90. AG	730.	4.1	.0 44.0		
	9. ebq	*	464.0	482.0	405.3	482.0	*	59.	270. AG	24.	100.0	.0 36.0	.61	3.0
	10. wba	*	1000.0	518.0	500.0	518.0	*	500.	270. AG	627.	4.1	.0 56.0		
	11. wbd	*	500.0	518.0	.0	518.0	*	500.	270. AG	725.	4.1	.0 44.0		
	12. wbg	*	536.0	518.0	578.3	518.0	*	42.	90. AG	24.	100.0	.0 36.0	.44	2.1

RUN: Glendale & Temple - EX - AM JOB: Glendale & Temple - EX - AM

DATE : 1/25/10 TIME : 10:36: 4

ADDITIONAL QUEUE LINK PARAMETERS

LINK DESCRIPTION	*	CYCLE	RED	CLEARANCE	APPROACH	SATURATION	IDLE	SIGNAL	ARRIVAL
	*	LENGTH	TIME	LOST TIME	VOL	FLOW RATE	EM FAC	TYPE	RATE
	*	(SEC)	(SEC)	(SEC)	(VPH)	(VPH)	(gm/hr)		
	*								
3. nbq	*	60	20	3.0	508	1600	4.84	3	3
6. sbq	*	60	20	3.0	2234	1600	4.84	3	3
9. ebq	*	60	37	3.0	872	1600	4.84	3	3
12. wbq	*	60	37	3.0	627	1600	4.84	3	3

		* COORDINATES (FT)						
	RECEPTOR	*	X	Y	Z	*		
		-*				-*		
1.	NW	*	454.0	546.0	5.4	*		
2.	NE	*	546.0	546.0	5.4	*		
3.	SW	*	454.0	454.0	5.4	*		
4.	SE	*	546.0	454.0	5.4	*		

JOB: Glendale & Temple - EX - AM

RUN: Glendale & Temple - EX - AM

MODEL RESULTS

REMARKS: In search of the angle corresponding to the maximum concentration, only the first angle, of the angles with same maximum concentrations, is indicated as maximum.

WIND ANGLE RANGE: 0.-360.

WIND	*	CONCEN	TRATIO	ON	
ичопп	*		PPM)		
(DEGR)	*	REC1	REC2	REC3	REC4
	* -				
0.	*	. 6	. 2	. 8	. 4
±0.	*	. 9	.0	1.1	. 3
20.	*	.7	.0	. 9	. 2
50.	*	.7	. 0	. 7	. 2
<del>1</del> 0.	*	.6	.0	.6	. 2
50.	*	. 4	. 0	. 5	. 2
00.	*	. 4	. 0	. 6	.2
,	*	. 4	.0	. 6	. 3
00.	*	. 4	.0	.7	. 3
50.	*	.5	. 2	.5	.1
100.	*	.7	. 3	. 3	.0
110.	*	.7	.3	. 4	.0
120.	*	.7	. 2	. 4	.0
150.	*	.5	.3	. 4	.0
110.	*	. 6	. 3	. 4	.0
150.	*	.8	.3	.5	.0
100.	*	. 9	.3	.6	.0
1/0.	*	1.1	. 3	. 8	.0
100.	*	. 7	. 5	. 4	. 2
190.	*	. 3	. 7	. 0	.5
200.	*	. 3	. 7	.0	. 4
210.	*	.2	. 6	.0	. 4
220.	*		. 5	.0	.3
250.	*	.2	.5	.0	.3
	*	.3	. 6	.0	.3
	*	.3	.7	.0	.3
200.	*	.1	. 4	.2	.5
	*	.0	. 3	. 4	.6
	*	.0	.3	. 3	.6
	*	. 0	. 3	. 4	.7
	*	. 0	. 3	. 4	. 5
	*	.0	. 4	. 3	. 4
	*	. 0	. 4	. 3	. 6
340.	*	. 0	. 6	. 3	. 8
350.	*	.1	.5	. 4	.8
360.	*	.6	. 2	.8	. 4
MAX	* - *	1.1	.7	1.1	.8
	*	170	190	10	340

THE HIGHEST CONCENTRATION OF  $\phantom{0}$  1.10 PPM OCCURRED AT RECEPTOR REC3 .

RUN: Glendale & Temple - NP - AM JOB: Glendale & Temple - NP - AM

DATE : 1/25/10 TIME : 10:39:10

The MODE flag has been set to C for calculating CO averages.

SITE & METEOROLOGICAL VARIABLES

LINK VARIABLES

	LINK DESCRIPTION	*	L	INK COORDIN	MATES (FT)		*	LENGTH	BRG TYPE	VPH	EF	H W	V/C	QUEUE
		*	X1	Y1	X2	Y2	*	(FT)	(DEG)		(G/MI)	(FT) (FT)		
(VEH)														
		*_					*							
	1. nba	*	518.0	.0	518.0	500.0	*	500.	360. AG	645.	2.9	.0 56.0		
	2. nbd	*	518.0	500.0	518.0	1000.0	*	500.	360. AG	856.	2.9	.0 44.0		
	3. nbq	*	518.0	464.0	518.0	440.5	*	24.	180. AG	13.	100.0	.0 36.0	.23	1.2
	4. sba	*	482.0	1000.0	482.0	500.0	*	500.	180. AG	2367.	2.9	.0 56.0		
	5. sbd	*	482.0	500.0	482.0	.0	*	500.	180. AG	2198.	2.9	.0 44.0		
	6. sbq	*	482.0	536.0	482.0	640.5	*	104.	360. AG	13.	100.0	.0 36.0	.85	5.3
	7. eba	*	.0	482.0	500.0	482.0	*	500.	90. AG	940.	2.9	.0 56.0		
	8. ebd	*	500.0	482.0	1000.0	482.0	*	500.	90. AG	789.	2.9	.0 44.0		
	9. ebq	*	464.0	482.0	400.7	482.0	*	63.	270. AG	24.	100.0	.0 36.0	.65	3.2
	10. wba	*	1000.0	518.0	500.0	518.0	*	500.	270. AG	672.	2.9	.0 56.0		
	11. wbd	*	500.0	518.0	.0	518.0	*	500.	270. AG	781.	2.9	.0 44.0		
	12. wbq	*	536.0	518.0	581.3	518.0	*	45.	90. AG	24.	100.0	.0 36.0	.47	2.3

JOB: Glendale & Temple - NP - AM RUN: Glendale & Temple - NP - AM

DATE : 1/25/10 TIME : 10:39:10

ADDITIONAL QUEUE LINK PARAMETERS

:	LINK DESCRIPTION	*	CYCLE	RED	CLEARANCE	APPROACH	SATURATION	IDLE	SIGNAL	ARRIVAL
		*	LENGTH	TIME	LOST TIME	VOL	FLOW RATE	EM FAC	TYPE	RATE
		*	(SEC)	(SEC)	(SEC)	(VPH)	(VPH)	(gm/hr)		
		_*								
3.	nbq	*	60	20	3.0	645	1600	4.83	3	3
6.	sbq	*	60	20	3.0	2367	1600	4.83	3	3
9.	ebq	*	60	37	3.0	940	1600	4.83	3	3
12.	wbq	*	60	37	3.0	672	1600	4.83	3	3

		*	COORDI	NATES (FT)		*
	RECEPTOR	*	X	Y	Z	*
		_*				. *
1.	NW	*	454.0	546.0	5.4	*
2.	NE	*	546.0	546.0	5.4	*
3.	SW	*	454.0	454.0	5.4	*
4.	SE	*	546.0	454.0	5.4	*

JOB: Glendale & Temple - NP - AM

RUN: Glendale & Temple - NP - AM

MODEL RESULTS

REMARKS: In search of the angle corresponding to the maximum concentration, only the first angle, of the angles with same maximum concentrations, is indicated as maximum.

WIND ANGLE RANGE: 0.-360.

WIND * CONCENTRATION									
ANGLE (DEGR)	*	REC1	PPM) REC2	REC3	REC4				
(DEGR)	*.	RECI	RECZ	REC3	REC4				
0.	*	. 4	. 1	. 7	. 3				
10.	*	.7	.0	1.0	. 2				
20.	*	.7	.0	.7	.1				
30.	*	.5	.0	.6	. 2				
40.	*	.5	.0	.5	. 2				
50.	*	. 4	. 0	. 3	. 2				
60.	*	. 3	. 0	. 5	. 2				
70.	*	. 3	. 0	. 5	. 2				
80.	*	. 3	. 0	. 6	.3				
90.	*	. 4	.1	.3	.1				
100.	*	.5	. 3	. 2	.0				
110.	*	.5	. 2	. 2	.0				
120.	*	. 4	. 2	. 3	.0				
130.	*	. 4	. 3	.3	.0				
140.	*	. 4	. 3	. 4	.0				
150.	*	.6	. 3	. 4	.0				
160.	*	.8	. 3	.5	.0				
170.	*	1.0	. 3	.6	.0				
180.	*	.6	. 5	. 3	.1				
190.	*	. 3	. 6	.0	. 4				
200.	*	. 3	. 7	.0	. 4				
210.	*	. 3	. 4	.0	.3				
220.	*	. 2	. 4	.0	.3				
230.	*	. 2	. 5	.0	.3				
240.	*	. 2	. 5	. 0	.3				
250.	*	. 2	. 5	.0	.3				
260.	*	. 3	.6	. 0	. 2				
270.	*	.1	. 4	. 2	. 3				
280.	*	. 0	. 3	. 3	. 6				
290.	*	. 0	. 3	. 3	. 4				
300.	*	. 0	. 3	. 3	. 6				
310.	*	.0	. 3	. 3	. 5				
320.	*	.0	. 3	. 3	. 4				
330.	*	.0	. 3	. 3	. 5				
340.	*	.0	.5	. 3	. 5				
350.	*	.1	.4	. 3	.6				
360.	*	. 4	.1	7	.3				
MAX	*	1.0	.7	1.0	.6				
DEGR.	*	170	200	10	280				
			200		200				

THE HIGHEST CONCENTRATION OF  $$1.00\ \mbox{PPM}$$  OCCURRED AT RECEPTOR REC3 .

RUN: Glendale & Temple - WP - AM JOB: Glendale & Temple - WP - AM

DATE : 1/25/10 TIME : 10:40:35

The MODE flag has been set to C for calculating CO averages.

SITE & METEOROLOGICAL VARIABLES

LINK VARIABLES

	LINK DESCRIPTION	*	L	INK COORDIN	ATES (FT)		* LENGT	H BRG TYPE	VPH	EF	H W	V/C QUEUE
		*	X1	Y1	X2	Y2	* (FT)	(DEG)		(G/MI)	(FT) (FT)	
(VEH)												
		*-					*					
	1. nba	*	518.0	.0	518.0	500.0	* 500.	360. AG	651.	2.9	.0 56.0	
	2. nbd	*	518.0	500.0	518.0	1000.0	* 500.	360. AG	882.	2.9	.0 44.0	
	3. nbq	*	518.0	464.0	518.0	440.3	* 24.	180. AG	13.	100.0	.0 36.0	.23 1.2
	4. sba	*	482.0	1000.0	482.0	500.0	* 500.	180. AG	2367.	2.9	.0 56.0	
	5. sbd	*	482.0	500.0	482.0	.0	* 500.	180. AG	2198.	2.9	.0 44.0	
	6. sbq	*	482.0	536.0	482.0	640.5	* 104.	360. AG	13.	100.0	.0 36.0	.85 5.3
	7. eba	*	.0	482.0	500.0	482.0	* 500.	90. AG	958.	2.9	.0 56.0	
	8. ebd	*	500.0	482.0	1000.0	482.0	* 500.	90. AG	789.	2.9	.0 44.0	
	9. ebq	*	464.0	482.0	399.5	482.0	* 65.	270. AG	24.	100.0	.0 36.0	.67 3.3
	10. wba	*	1000.0	518.0	500.0	518.0	* 500.	270. AG	674.	2.9	.0 56.0	
	11. wbd	*	500.0	518.0	.0	518.0	* 500.	270. AG	781.	2.9	.0 44.0	
	12. wbq	*	536.0	518.0	581.3	518.0	* 45.	90. AG	24.	100.0	.0 36.0	.47 2.3

JOB: Glendale & Temple - WP - AM RUN: Glendale & Temple - WP - AM

DATE : 1/25/10 TIME : 10:40:35

ADDITIONAL QUEUE LINK PARAMETERS

LINK DESCRIPTION	* * *	CYCLE LENGTH (SEC)	RED TIME (SEC)	CLEARANCE LOST TIME (SEC)	APPROACH VOL (VPH)	SATURATION FLOW RATE (VPH)	IDLE EM FAC (gm/hr)	SIGNAL TYPE	ARRIVAL RATE
3. nbq	*	60	20	3.0	651	1600	4.83	3	3
6. sbq	*	60	20	3.0	2367	1600	4.83	3	3
9. ebq	*	60	37	3.0	958	1600	4.83	3	3
12. wbq	*	60	37	3.0	674	1600	4.83	3	3

		*	COOR	DINATES (FT	')	*
	RECEPTOR	*	X	Y	Z	*
		*_				_*
1.	NW	*	454.0	546.0	5.4	*
2.	NE	*	546.0	546.0	5.4	*
3.	SW	*	454.0	454.0	5.4	*
4.	SE	*	546.0	454.0	5.4	*

JOB: Glendale & Temple - WP - AM

RUN: Glendale & Temple - WP - AM

MODEL RESULTS

REMARKS: In search of the angle corresponding to the maximum concentration, only the first angle, of the angles with same maximum concentrations, is indicated as maximum.

WIND ANGLE RANGE: 0.-360.

*******	WIND * CONCENTRATION										
ичопп	*	(	PPM)								
(DEGR)	*	REC1	REC2	REC3	REC4						
	* -										
0.	*	. 4	. 1	.7	. 3						
10.	*	.7	.0	1.0	.2						
20.	*	.7	.0	.7	.1						
30.	*	. 5	. 0	. 6	.2						
40.	*	.5	.0	. 5	.2						
50.	*	. 4	. 0	. 3	. 2						
60.	*	. 3	. 0	.5	. 2						
70.	*	.3	. 0	. 5	.2						
80.	*	. 3	.0	. 6	. 3						
90.	*	. 4	.1	. 3	.1						
100.	*	.5	. 3	. 2	.0						
110.	*	. 5	. 2	. 2	.0						
120.	*	. 4	. 2	. 3	.0						
130.	*	. 4	. 3	. 3	.0						
140.	*	. 4	. 3	. 4	.0						
150.	*	.6	. 3	. 4	.0						
100.	*	.8	. 3	.5	.0						
170.	*	1.0	. 3	. 6	.0						
180.	*	. 6	. 5	. 3	.1						
100.	*	. 3	. 6	. 0	. 4						
200.	*	. 3	. 7	. 0	. 4						
210.		.3	. 4	.0	.3						
220.	*	. 2	. 4	. 0	. 3						
250.	*	.2	. 5	.0	.3						
210.	*	.2	. 5	.0							
	*	.2	.5	.0	.3						
260. 270.	*	.1	. 4	.0	.2						
270.	*	.0	.4	. 2	.6						
290.	*	.0	. 3	.3	. 4						
	*	.0	. 3	.3	.6						
	*	.0	.3	.3	.5						
320.	*	.0	.3	.3	. 4						
330.	*	.0	.3	.3	.5						
340.	*	.0	.5	.3	.5						
350.	*	.1	. 4	.3	.6						
360.	*	. 4	.1	.7	.3						
	*.			. , 							
MAX	*	1.0	.7	1.0	.6						
	*	170	200	10	280						

THE HIGHEST CONCENTRATION OF  $$1.00\ \mbox{PPM}$$  OCCURRED AT RECEPTOR REC3 .

RUN: Glendale & Temple - EX - PM JOB: Glendale & Temple - EX - PM

DATE : 1/25/10 TIME : 10:42:34

The MODE flag has been set to C for calculating CO averages.

SITE & METEOROLOGICAL VARIABLES

LINK VARIABLES

	LINK DESCRIPTION	*	L	INK COORDIN	MATES (FT)		*	LENGTH	BRG TYPE	VPH	EF	H W	V/C	QUEUE
		*	X1	Y1	X2	Y2	*	(FT)	(DEG)		(G/MI)	(FT) (FT)		
(VEH)														
		*-					*							
	1. nba	*	518.0	.0	518.0	500.0	*	500.	360. AG	1545.	4.1	.0 56.0		
	2. nbd	*	518.0	500.0	518.0	1000.0	*	500.	360. AG	1999.	4.1	.0 44.0		
	3. nbq	*	518.0	464.0	518.0	396.4	*	68.	180. AG	16.	100.0	.0 36.0	.62	3.4
	4. sba	*	482.0	1000.0	482.0	500.0	*	500.	180. AG	1180.	4.1	.0 56.0		
	5. sbd	*	482.0	500.0	482.0	.0	*	500.	180. AG	1026.	4.1	.0 44.0		
	6. sbq	*	482.0	536.0	482.0	587.6	*	52.	360. AG	16.	100.0	.0 36.0	.48	2.6
	7. eba	*	. 0	482.0	500.0	482.0	*	500.	90. AG	1133.	4.1	.0 56.0		
	8. ebd	*	500.0	482.0	1000.0	482.0	*	500.	90. AG	817.	4.1	.0 44.0		
	9. ebq	*	464.0	482.0	396.0	482.0	*	68.	270. AG	21.	100.0	.0 36.0	.64	3.5
	10. wba	*	1000.0	518.0	500.0	518.0	*	500.	270. AG	825.	4.1	.0 56.0		
	11. wbd	*	500.0	518.0	.0	518.0	*	500.	270. AG	841.	4.1	.0 44.0		
	12. wbq	*	536.0	518.0	585.6	518.0	*	50.	90. AG	21.	100.0	.0 36.0	.47	2.5

JOB: Glendale & Temple - EX - PM RUN: Glendale & Temple - EX - PM

DATE : 1/25/10 TIME : 10:42:34

ADDITIONAL QUEUE LINK PARAMETERS

LINK DESCRIPTION	*	CYCLE	RED	CLEARANCE	APPROACH	SATURATION	IDLE	SIGNAL	ARRIVAL
	*	LENGTH	TIME	LOST TIME	VOL	FLOW RATE	EM FAC	TYPE	RATE
	*	(SEC)	(SEC)	(SEC)	(VPH)	(VPH)	(gm/hr)		
	*								
3. nbq	*	60	24	3.0	1545	1600	4.84	3	3
6. sbq	*	60	24	3.0	1180	1600	4.84	3	3
9. ebq	*	60	33	3.0	1133	1600	4.84	3	3
12. wbq	*	60	33	3.0	825	1600	4.84	3	3

		*	COORDI	NATES (FT)		*
	RECEPTOR	*	X	Y	Z	*
		_*				. *
1.	NW	*	454.0	546.0	5.4	*
2.	NE	*	546.0	546.0	5.4	*
3.	SW	*	454.0	454.0	5.4	*
4.	SE	*	546.0	454.0	5.4	*

JOB: Glendale & Temple - EX - PM

RUN: Glendale & Temple - EX - PM

MODEL RESULTS

REMARKS: In search of the angle corresponding to the maximum concentration, only the first angle, of the angles with same maximum concentrations, is indicated as maximum.

WIND ANGLE RANGE: 0.-360.

WIND	*	* CONCENTRATION									
ANGLE	E * (PPM)										
(DEGR)	*	REC1	REC2	REC3	REC4						
	*.										
0.	*	. 4	. 4	. 8	.7						
10.	*	.7	.0	1.0	. 2						
20.	*	. 6	.0	. 8	. 2						
30.	*	. 5	.0	. 8	. 2						
40.	*	. 4	.0	.7	. 2						
50.	*	.5	.0	. 5	. 2						
60.	*	.5	.0	. 6	. 3						
70.	*	. 4	.0	.5	. 3						
80.	*	. 4	.0	. 6	. 4						
90.	*	.6	. 2	.5	.1						
100.	*	.7	. 4	. 2	.0						
110.	*	.7	. 3	.3	.0						
120.	*	.7	. 3	. 3	.0						
130.	*	.6	.3	. 4	.0						
140.	*	.7	.3	. 4	.0						
150.	*	.6	. 3	. 4	.0						
160.	*	. 8	.3	.6	.0						
170.	*	. 9	.3	. 5	.1						
180.	*	.6	.6	. 2	. 4						
190.	*	. 2	1.0	. 0	.7						
200.	*	. 2	. 9	.0	.6						
210.	*	. 2	. 6	.0	.5						
220.	*	. 2	. 7	.0	.5						
230.	*	. 2	. 7	.0	. 4						
240.	*	. 4	. 8	.0	. 4						
250.	*	. 4 . 5	.8	.0	.3						
260. 270.	*	.1	.6	.1	.5						
280.	*	.0	. 4	.5	.7						
290.	*	.0	.4	.4	.7						
300.	*	.0	.4	.4	.6						
310.	*	.0	. 4	. 4	.6						
320.	*	.0	.4	.4	.6						
330.	*	.0	. 6	. 4	.8						
340.	*	.0	.7	.3	1.0						
350.	*	.1	.9	.3	1.1						
360.	*	. 4	. 4	.8	.7						
	. * .										
MAX	*	.9	1.0	1.0	1.1						
DEGR.	*	170	190	10	350						

THE HIGHEST CONCENTRATION OF  $1.10~{\rm PPM}$  OCCURRED AT RECEPTOR REC4 .

RUN: Glendale & Temple - NP - PM JOB: Glendale & Temple - NP - PM

DATE : 1/25/10 TIME : 10:44:37

The MODE flag has been set to C for calculating CO averages.

SITE & METEOROLOGICAL VARIABLES

LINK VARIABLES

	LINK DESCRIPTION	*	L	INK COORDIN	IATES (FT)		*	LENGTH	BRG TYPE	VPH	EF	H W	V/C	QUEUE
		*	X1	Y1	X2	Y2	*	(FT)	(DEG)		(G/MI)	(FT) (FT)		
(VEH)														
		*-					*							
	1. nba	*	518.0	.0	518.0	500.0	*	500.	360. AG	1709.	2.9	.0 56.0		
	2. nbd	*	518.0	500.0	518.0	1000.0	*	500.	360. AG	2165.	2.9	.0 44.0		
	3. nbq	*	518.0	464.0	518.0	392.4	*	72.	180. AG	15.	100.0	.0 36.0	.67	3.6
	4. sba	*	482.0	1000.0	482.0	500.0	*	500.	180. AG	1362.	2.9	.0 56.0		
	5. sbd	*	482.0	500.0	482.0	.0	*	500.	180. AG	1220.	2.9	.0 44.0		
	6. sbq	*	482.0	536.0	482.0	593.1	*	57.	360. AG	15.	100.0	.0 36.0	.53	2.9
	7. eba	*	.0	482.0	500.0	482.0	*	500.	90. AG	1246.	2.9	.0 56.0		
	8. ebd	*	500.0	482.0	1000.0	482.0	*	500.	90. AG	879.	2.9	.0 44.0		
	9. ebq	*	464.0	482.0	382.8	482.0	*	81.	270. AG	22.	100.0	.0 36.0	.74	4.1
	10. wba	*	1000.0	518.0	500.0	518.0	*	500.	270. AG	877.	2.9	.0 56.0		
	11. wbd	*	500.0	518.0	.0	518.0	*	500.	270. AG	830.	2.9	.0 44.0		
	12. wbq	*	536.0	518.0	590.3	518.0	*	54.	90. AG	22.	100.0	.0 36.0	.52	2.8

JOB: Glendale & Temple - NP - PM RUN: Glendale & Temple - NP - PM

DATE : 1/25/10 TIME : 10:44:37

ADDITIONAL QUEUE LINK PARAMETERS

LINK DESCRIPTION	* * *	CYCLE LENGTH (SEC)	RED TIME (SEC)	CLEARANCE LOST TIME (SEC)	APPROACH VOL (VPH)	SATURATION FLOW RATE (VPH)	IDLE EM FAC (gm/hr)	SIGNAL TYPE	ARRIVAL RATE
3. nbq	*	60	23	3.0	1709	1600	4.83	3	3
6. sbq	*	60	23	3.0	1362	1600	4.83	3	3
9. ebq	*	60	34	3.0	1246	1600	4.83	3	3
12. wbq	*	60	34	3.0	877	1600	4.83	3	3

		*	COORI	INATES (FT)		*
	RECEPTOR	*	X	Y	Z	*
		-*				-*
1.	NW	*	454.0	546.0	5.4	*
2.	NE	*	546.0	546.0	5.4	*
3.	SW	*	454.0	454.0	5.4	*
4.	SE	*	546.0	454.0	5.4	*

JOB: Glendale & Temple - NP - PM

RUN: Glendale & Temple - NP - PM

MODEL RESULTS

REMARKS: In search of the angle corresponding to the maximum concentration, only the first angle, of the angles with same maximum concentrations, is indicated as maximum.

WIND ANGLE RANGE: 0.-360.

WIND * CONCENTRATION								
ANGLE	*	(PPM)						
(DEGR)	*	REC1	REC2	REC3	REC4			
	*.							
0.	*	. 2	. 3	. 6	.6			
10.	*	.6	.0	. 8	. 2			
20.	*	. 5	.0	. 8	. 2			
50.	*	. 4	.0	.5	. 2			
10.	*	. 5	.0	. 4	. 2			
50.	*	.5	.0	.5	. 2			
00.	*	. 3	.0	.5	.2			
,	*	. 3	.0	.5	. 3			
00.	*	. 2	. 0	.6	. 3			
50.	*	. 3	. 2	. 4	.1			
100.	*	. 5	. 3	. 2	.0			
IIU.	*	. 5	. 3	. 2	.0			
120.	*	.5	. 3	. 2	.0			
130.	*	. 5	. 3	. 2	.0			
110.		. 3	. 3	. 2	.0			
130.	*	.6	. 3	. 4	.0			
100.	*	. 7	. 3	. 4	.0			
170.	*	. 8	. 3	.5	.1			
100.	*	.6	. 6 . 8	. 2	.3			
100.	*	. 2	. 8	.0	.5			
200.	*	.3	.5	.0	.4			
210.	*	. 2	.6	.0	.4			
220.	*	.2	.5	. 0	.4			
250.	*	. 2	.6	.0	.3			
	*	.3	.7	.0	.3			
250.	*	.3	. 7	.0	.3			
	*	.1	. 4	. 2	.5			
	*	.0	. 3	. 4	.8			
	*	. 0	. 3	. 4	.7			
	*	. 0	. 3	. 4	.6			
310.	*	.0	. 3	. 4	.5			
320.	*	. 0	. 4	. 3	.5			
330.	*	.0	. 4	. 3	. 4			
340.	*	.0	.6	. 3	.8			
350.	*	.0	. 6	. 3	1.0			
360.	*	. 2	.3	.6	.6			
	*.							
MAX	*	.8	. 8	. 8	1.0			
DEGR.	*	170	190	10	350			

THE HIGHEST CONCENTRATION OF  $1.00\ \text{PPM}$  OCCURRED AT RECEPTOR REC4 .

JOB: Glendale & Temple - WP - PM RUN: Glendale & Temple - WP - PM

DATE : 1/25/10 TIME : 10:46:54

The MODE flag has been set to C for calculating CO averages.

SITE & METEOROLOGICAL VARIABLES

LINK VARIABLES

	LINK DESCRIPTION	*	L	INK COORDIN	IATES (FT)		*	LENGTH	BRG TYPE	VPH	EF	H W	V/C	QUEUE
		*	X1	Y1	X2	Y2	*	(FT)	(DEG)		(G/MI)	(FT) (FT)		
(VEH)														
		*-					*							
	1. nba	*	518.0	.0	518.0	500.0	*	500.	360. AG	1709.	2.9	.0 56.0		
	2. nbd	*	518.0	500.0	518.0	1000.0	*	500.	360. AG	2179.	2.9	.0 44.0		
	3. nbq	*	518.0	464.0	518.0	392.4	*	72.	180. AG	15.	100.0	.0 36.0	.67	3.6
	4. sba	*	482.0	1000.0	482.0	500.0	*	500.	180. AG	1372.	2.9	.0 56.0		
	5. sbd	*	482.0	500.0	482.0	.0	*	500.	180. AG	1226.	2.9	.0 44.0		
	6. sbq	*	482.0	536.0	482.0	593.5	*	57.	360. AG	15.	100.0	.0 36.0	.54	2.9
	7. eba	*	. 0	482.0	500.0	482.0	*	500.	90. AG	1260.	2.9	.0 56.0		
	8. ebd	*	500.0	482.0	1000.0	482.0	*	500.	90. AG	881.	2.9	.0 44.0		
	9. ebq	*	464.0	482.0	380.9	482.0	*	83.	270. AG	22.	100.0	.0 36.0	.75	4.2
	10. wba	*	1000.0	518.0	500.0	518.0	*	500.	270. AG	877.	2.9	.0 56.0		
	11. wbd	*	500.0	518.0	.0	518.0	*	500.	270. AG	932.	2.9	.0 44.0		
	12. wbq	*	536.0	518.0	590.3	518.0	*	54.	90. AG	22.	100.0	.0 36.0	.52	2.8

PAGE 2

JOB: Glendale & Temple - WP - PM RUN: Glendale & Temple - WP - PM

DATE : 1/25/10 TIME : 10:46:54

ADDITIONAL QUEUE LINK PARAMETERS

LINK DESCRIPTION	* * *	CYCLE LENGTH (SEC)	RED TIME (SEC)	CLEARANCE LOST TIME (SEC)	APPROACH VOL (VPH)	SATURATION FLOW RATE (VPH)	IDLE EM FAC (gm/hr)	SIGNAL TYPE	ARRIVAL RATE
3. nbq	*	60	23	3.0	1709	1600	4.83	3	3
6. sbq	*	60	23	3.0	1372	1600	4.83	3	3
9. ebq	*	60	34	3.0	1260	1600	4.83	3	3
12. wbq	*	60	34	3.0	877	1600	4.83	3	3

		*	COORD	INATES (FT)		*
	RECEPTOR	*	X	Y	Z	*
		_*				- *
1.	NW	*	454.0	546.0	5.4	*
2.	NE	*	546.0	546.0	5.4	*
3.	SW	*	454.0	454.0	5.4	*
4.	SE	*	546.0	454.0	5.4	*

JOB: Glendale & Temple - WP - PM

RUN: Glendale & Temple - WP - PM

MODEL RESULTS

REMARKS: In search of the angle corresponding to the maximum concentration, only the first angle, of the angles with same maximum concentrations, is indicated as maximum.

WIND ANGLE RANGE: 0.-360.

WIND	*	CONCENTRATION								
ANGLE	*	(PPM)								
(DEGR)	*	REC1	REC2	REC3	REC4					
	*.									
0.	*	. 2	. 3	.6	.6					
10.	*	. 6	.0	. 8	. 2					
20.	*	. 5	.0	. 8	. 2					
30.	*	. 4	.0	.6	. 2					
40.	*	. 5	.0	.5	. 2					
50.	*	. 5	.0	.5	. 2					
60.	*	. 3	.0	.5	. 2					
70.	*	. 3	.0	.5	.3					
80.	*	. 2	.0	.6	.3					
90.	*	. 3	. 2	. 4	.1					
100.	*	.5	. 3	. 2	.0					
110.	*	.5	. 3	. 2	.0					
120.	*	.5	. 3	. 2	.0					
130.	*	.5	. 3	. 2	.0					
110.	*	. 3	. 3	. 2	.0					
150.	*	.6	. 3	. 4	.0					
160.	*	.7	. 3	. 4	.0					
170.	*	. 8	. 3	.5	.1					
180.	*	.6	.6	. 2	.3					
190.	*	. 2	. 8	.0	.5					
200.	*	. 3	.6	.0	. 4					
210.	*	. 3	. 5	.0	. 4					
220.	*	. 2	. 6	. 0	. 4					
230.	*	. 2	. 5	.0	. 4					
240.	*	. 2	. 6	.0	. 3					
250.	*	. 3	. 7	. 0	.3					
260.	*	. 3	. 7	. 0	. 3					
270.	*	.1	. 4	. 2	. 5					
280.	*	. 0	. 3	. 4	. 8					
250.	*	. 0	. 3	. 4	.7					
300.		.0	. 3	. 4	. 6					
310.	*	. 0	. 3	. 4	. 5					
320.		.0		. 3	. 5					
330.	*	.0	. 4	. 3	. 4					
340.	*	.0	.6	. 3	.8					
350.	*	.0	.6	. 3	1.0					
360.	<u>*</u>	. 2	. 3	. 6	.6					
MAX	*	.8	.8	.8	1.0					
DEGR.	*	170	190	10	350					
DIOI.		1,0	100	10	330					

THE HIGHEST CONCENTRATION OF 1.00 PPM OCCURRED AT RECEPTOR REC4 .

# Appendix D

Construction Emission Calculations and Output Files

#### **Construction - UNMITIGATED**

#### Echo Park Lake Rehabilitation Project - CONSTRUCTION EMISSIONS

EQUIPMENT			Equipment Emiss	sions (ppd)					
	# Equipment	Hours/Day	ROG	со	NOX	sox	PM10	PM2.5	CO2
Construction					•				
Heavy Equipment	10	10	16.66	53.04	151.48	0.15	6.65	6.12	14,119.41
TO	'AL 10		16.66	53.04	151.48	0.15	6.65	6.12	14,119.41

WORKER VEHICLES			Worker Vehicle Emissions (ppd)						
	# of Workers	Total VMT/Day	ROG	со	NOX	sox	PM10	PM2.5	CO2
Construction	40	1,064.00	0.30	6.46	0.56	0.008	0.027	0.025	893.6
Cars	20.0	532.00	0.10	2.42	0.21	0.004	0.012	0.011	398.1
Trucks	20.0	532.00	0.20	4.04	0.35	0.005	0.015	0.014	495.4

HEAVY-DUTY TRUCK TRIPS  Heavy-duty Truck Emissions (ppd)						•					
			Round Trip								
		Trips per Day	Length	VMT/day	ROG	СО	NOX	sox	PM10	PM2.5	CO2
				•			•	•			
С	construction	85	30	2,550	7.38	39.22	76.70	0.10	2.93	2.70	10,521.17

FUGITIVE DUST			
	Max Daily Demo		
	(ft <sup>3</sup> )	PM10	PM2.5
Soil Removal [1]	6,000	2.52	0.52
	Max Daily Grading		
	(acres)	PM10	PM2.5
Grading [2]	5.00	74.5	15.5

TOTAL EMISSIONS				Emissions (ppd)			
	ROG	co	NOX	SOX	PM10	PM2.5	CO2
Construction	24.33	98.71	228.74	0.26	86.62	24.86	25,534.15
On-Site	16.66	53.04	151.48	0.15	83.66	22.13	14,119.41
Off-Site	7.68	45.68	77.26	0.11	2.96	2.72	11,414.75
Regional Daily Maximum	24	99	229	0	86.6	24.9	•
REGIONAL THRESHOLD	75	550	100	150	150	55	
IMPACT?	No	No	Yes	No	No	No	
On-Site Daily Maximum	17	53	151	0	84	22	

<sup>[1]</sup> Used URBEMIS2007's rate for demolition dust. PM10 pounds/day = (0.00042 pounds/cubic feet) \* (total cubic feet of material in one day).

<sup>[2]</sup> Used UREBEMIS2007's rate for grading dust of 38.2 pounds per acre, and applied 61% reduction based on Rule 403 compliance.

# Appendix E

Health Risk Assessment Dispersion Modeling

### **HEALTH RISK ASSESSMENT**

**Project Alternative** 

PROJECT: Echo Park Lake PROJECT NO: 2009-034

**Annual Average Receptor Concentration** 

Pollutant	micrograms/cubic meter
Diesel Particular Matter (DPM)	0.85218

#### **EXCESS CANCER RISK CALCULATION**

**Lifetime Exposure Adjustment (LEA)** 

Receptor:	Sensitive Receptors
hours per day	10
days per week	5
weeks per year	48
years	2.17
LEA	0.008503401

Unit Risk Factor (URF) for DPM	0.0003

#### **FINDINGS**

Receptor:	Sensitive Receptors		
Excess Cancer Risk			
Excess Cancer Risk (Per 1	2.1739		
Million Persons)	2.1739		
SCAQMD Threshold	>= 10 in 1 million		
Exceed Threshold?	No		

#### Formulas:

Cancer Risk = DPM Conc x DPM URF x LEA

DPM = Diesel Particulate Matter

URF = Unit Risk Factor

LEA = Lifetime Exposure Adjustment

Source: SCAQMD Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Idle Emissions for CEQA Air Quality Analysis, August 2003; California Air Resources Board, Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values, April 25, 2005

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** AERMOD Input Produced by:

** AERMOD View Ver. 6.2.1

** Lakes Environmental Software Inc.

** Date: 4/20/2010

** File: J:\Projects\LADWP Echo Park Lake Rehabilitation Project 2009-034\Air Quality\Haul Truck HRA\HRA\HRA.ADI

**
  .....
  STARTING
TITLEONE Echo Park Lake Rehabilitation
TITLETWO HRA - PM Diesel (Unmitigated)
MODELOPT DFAULT CONC
AVERTIME ANNUAL
  URBANOPT 9862049 LA
POLLUTID DPM
RUNORNOT RUN
CO FINISHED
  *********
  SO STARTING
** Source Location **

** Source ID - Type - X Coord. - Y Coord. **
LOCATION SITE AREAPOLY 383597.686 3771297.106 0.0
  ** DESCRISC Equipment Emissions
LOCATION HAULIDLE AREAPOLY 383597.686 3771297.106 0.0
** DESCRRC Equipment Emissions
LOCATION HAULIDLE AREAPOLY 383597.686 3771297.106 0.

** DESCRSRC Haul Truck Idle

** Line Source represented by Separated Volume Sources

****
LINE Source ID = HAUL
DESCRSRC haul route

** Length of Side = 10.00

** Emission Rate = 0.004766

** Elevated

** Vertical Dimension = 1.16

** SZINIT = 0.27

** Nodes = 11

** 383551.78, 3770631.65, 0.00, 1.52, 0.0

** 383535.72, 3770633.70, 0.00, 1.52, 2.88

** 383525.47, 3770633.70, 0.00, 1.52, 2.88

** 383525.47, 3770633.70, 0.00, 1.52, 8.75

** 383497.78, 3770627.89, 0.00, 1.52, 8.75

** 383483.08, 3770593.71, 0.00, 1.52, 6.94

** 383595.53, 3770715.05, 0.00, 1.52, 8.73

** 383769.85, 3770623.45, 0.00, 1.52, 9.16

** 383769.85, 3770623.45, 0.00, 1.52, 9.16

** 383790.29, 3771008.25, 0.00, 1.52, 7.63

** LOCATION L0000001 VOLUME 383546.820 3770632.368 0.0
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```
LOCATION L0000054 VOLUME 383788.122 37710988.940 0.0

LOCATION L0000055 VOLUME 383788.122 3771003.740 0.0

** End of Line Source

** Source Parameters **

SKCRARAM SITE 6.6358-07 5.000 11 1.163

AREAVERT SITE 383679.566 3771271.914 383782.090 3771336.468

AREAVERT SITE 383679.566 3771271.914 383782.090 3771336.468

AREAVERT SITE 383679.559 3771271.914 383782.063 3770717.963

AREAVERT SITE 383676.581 3776635.822 383599.260 3770717.964

SRCCPARAM HANLIDLE 6.0768-10 5.000 11 1.163

AREAVERT SITE 38369.111 3771231.71297.105 383622.090 3771336.468

AREAVERT HANLIDLE 38357.668 3771271.971.016 383622.090 3771336.468

AREAVERT HANLIDLE 38357.668 3771271.971.016 383622.090 3771336.468

AREAVERT HANLIDLE 383597.668 3771271.979.105 383622.090 3771336.468

AREAVERT HANLIDLE 383597.686 3771271.979.105 383622.090 37713727.048

SRCPARAM HANLIDLE 383597.686 3771271.979.106 383622.090 3771378.648

AREAVERT HAULIDLE 383596.113 3771237.105.033 383555.877 3771127.086.588

AREAVERT HAULIDLE 383596.113 3771237.105.033 383555.877 3771127.848

AREAVERT HAULIDLE 383596.111 3771231.764

SRCPARAM L0000000 8.665454545455555-5 1.52 2.88 0.27

SRCPARAM L0000000 8.665454545455555-5 1.52 2.88 0.27

SRCPARAM L0000000 8.665454545455555-5 1.52 2.88 0.27

SRCPARAM L0000000 8.665454545455555-5 1.52 8.75 0.27

SRCPARAM L0000000 8.665454545455555-5 1.52 8.70 0.27

SRCPARAM L0000000 8.665454545455555-5 1.52 8.70 0.27

SRCPARAM L0000000 8.66545454545555-5 1.52 8.74 0.27

SRCPARAM L0000000 8.66545454545555-5 1.52 8.73 0.27

SRCPARAM L0000000 8.66545454545555-5 1.52 8.73 0.27

SRCPARAM L0000000 8.66545454545555-5 1.52 8.73 0.27

SRCPARAM L000000 8.66545454545555-5 1.52 8.73 0.27

SRCPARAM L000000 8.66545454545555-5 1.52 8.73 0.27

SRCPARAM L000000 8.66545454545555-5 1.52 9.04 0.27

SRCPARAM L0
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URBANSRC L0000005

URBANSRC L0000007

URBANSRC L0000007

URBANSRC L0000008
                                  URBANSRC L0000009
URBANSRC L0000010
                                URBANSRC L0000010

URBANSRC L0000011

URBANSRC L0000012

URBANSRC L0000013

URBANSRC L0000014

URBANSRC L0000015
                                  URBANSRC L0000016
URBANSRC L0000017
                                URBANSRC L0000017

URBANSRC L0000018

URBANSRC L0000020

URBANSRC L0000021

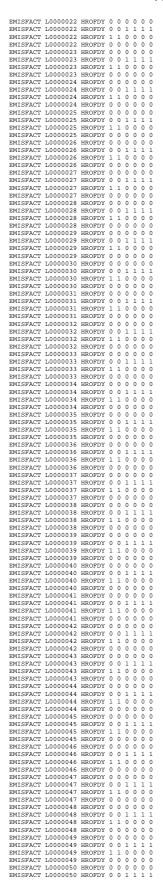
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URBANSRC L0000022

URBANSRC L0000023
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                                  URBANSRC L0000025
URBANSRC L0000026
URBANSRC L0000027
URBANSRC L0000028
                                  URBANSRC L0000029
                                  URBANSRC L0000030
                                  URBANSRC L0000031
URBANSRC L0000032
                                  URBANSRC L0000032
URBANSRC L0000034
URBANSRC L0000035
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URBANSRC L0000037
                                    URBANSRC L0000038
URBANSRC L0000039
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URBANSRC L0000041
URBANSRC L0000042
URBANSRC L0000043
URBANSRC L0000044
URBANSRC L0000045
URBANSRC L0000045
       URBANSRC L0000047
URBANSRC L0000048
      URBANSRC L0000048
URBANSRC L0000049
URBANSRC L0000050
URBANSRC L0000051
URBANSRC L0000052
URBANSRC L0000053
URBANSRC L0000054
URBANSRC L0000055
** Variable Emissions Type: "By Hour-of-Day"
** Variable Emission Scenario: "Equipment"
EMISFACT SITE HROFDY 0 0 0 0 0 0
EMISFACT SITE HROFDY 1 1 1 1 1 1
EMISFACT SITE HROFDY 1 1 1 1 1 0 0
       EMISFACT SITE HROFDY 0 0 0 0 0 0
** Variable Emissions Type: "By Hour-of-Day"

** Variable Emission Scenario: "Haul Schedule"
EMISFACT HAULIDLE HROFPY 0 0 0 0 0 0
EMISFACT HAULIDLE HROFPY 0 0 1 1 1 1
EMISFACT HAULIDLE HROFPY 1 1 0 0 0 0
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EMISFACT L0000050 HROFDY 1 1 0 0 0 0 EMISFACT L0000050 HROFDY 0 0 0 0 0 0
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      SRCGROUP ONSITE SITE
SRCGROUP HAULIDLE
SRCGROUP HAULIDLE HAULIDLE
SRCGROUP HAULROUT L0000001 L0000002 L0000003 L0000004 L0000005 L0000006
SRCGROUP HAULROUT L0000007 L0000008 L0000009 L0000010 L0000011 L0000012
SRCGROUP HAULROUT L0000013 L0000014 L0000015 L0000016 L0000017 L0000018
SRCGROUP HAULROUT L0000019 L0000020 L0000021 L0000022 L0000023 L0000024
SRCGROUP HAULROUT L0000015 L0000026 L0000027 L0000028 L0000029 L0000030
       SRCGROUP HAULROUT L0000031 L0000032 L0000033 L0000034 L0000035 L0000036 SRCGROUP HAULROUT L0000037 L0000038 L0000039 L0000040 L0000041 L0000042
       SRCGROUP HAULROUT L0000043 L0000034 L0000035 L0000035 L0000034 L0000045 L0000047 L0000048 SRCGROUP HAULROUT L0000049 L0000050 L0000051 L0000052 L0000053 L0000054 SRCGROUP HAULROUT L0000055 SRCGROUP HAULROUT L0000055 SRCGROUP ALL
 SO FINISHED
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RE STARTING
RE STARTING
** DESCREC *temple* *Angelus Temple*
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** DESCREC *CHURCH* *Episcopal Church*
DISCCART 383792.56 3770989.19 0.00 0.00
** DESCREC *REC_CTR* *Receptors generated from Uniform Cartesian Grid*
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DISCCART 383667.36 3770537.
** DESCREEC "GRID" "Grid Receptors"
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DISCCART 382802.04 3769951.5
DISCCART 382802.04 3769951.5
DISCCART 382902.04 3769951.5
DISCCART 382902.04 3769951.5
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       DISCCART
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                                                             3769951.94
       DISCCART
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                                                             3769951.94
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383102.04
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       DISCCART
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       DISCOART
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383902.04
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3770001.94
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DISCCART	383202.04	3770051.94	0.00	0.00
DISCCART	383252.04	3770051.94	0.00	0.00
DISCCART	383302.04	3770051.94	0.00	0.00
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DISCCART	383602.04	3770051.94	0.00	0.00
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DISCCART	383752.04	3770051.94	0.00	0.00
DISCCART	383802.04	3770051.94	0.00	0.00
DISCCART	383852.04	3770051.94	0.00	0.00
DISCCART	383902.04	3770051.94	0.00	0.00
DISCCART	383952.04	3770051.94	0.00	0.00
DISCCART	384002.04	3770051.94		
	384002.04		0.00	0.00
DISCCART		3770051.94	0.00	0.00
DISCCART	384102.04	3770051.94	0.00	0.00
DISCCART	384152.04	3770051.94	0.00	0.00
DISCCART	384202.04	3770051.94	0.00	0.00
DISCCART	384252.04	3770051.94	0.00	0.00
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		3770051.94	0.00	0.00
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	383452.04			
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DISCCART	382802.04	3770151.94	0.00	0.00
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DISCCART				
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DISCCART		3770151.94	0.00	0.00
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DISCOND	383552.04		0 00	0 00
DISCCART DISCCART	383552.04 383602.04	3770151.94 3770151.94	0.00	0.00

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DISCCART	384302.04	3770251.94 3770251.94	0.00	0.00
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DISCCART	304402.04	3//0231.54	0.00	0.00
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DISCCART	384702.04	3770251 04	0 00	0.00
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DISCCART	383152.04 383202.04 383252.04	3770301.94	0.00	0.00
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DIUCCHILI	555502.04	35301.34	0.00	0.00

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DISCCART	384202.04	3770501.94	0.00	0.00
DISCCART	384252.04	3770501.94	0.00	0.00
DISCCART	384302.04	3770501.94	0.00	0.00
DISCCART	384352.04	3770501.94	0.00	0.00
DISCCART	384402.04	3770501.94	0.00	0.00
DISCCART	384452.04	3770501.94	0.00	0.00
DISCCART	384502.04	3770501.94	0.00	0.00
DISCCART	384552.04	3770501.94	0.00	0.00
DISCCART	384602.04	3770501.94	0.00	0.00
DISCCART	384652.04	3770501.94	0.00	0.00
DISCCART	384702.04	3770501.94	0.00	0.00
DISCCART	382752.04	3770551.94	0.00	0.00
DISCCART	382802.04	3770551.94	0.00	0.00
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DISCCART	382902.04	3770551.94	0.00	0.00
DISCCART	382952.04	3770551.94	0.00	0.00
DISCCART	383002.04	3770551.94	0.00	0.00
DISCCART	383052.04	3770551.94	0.00	0.00
DISCCART	383102.04	3770551.94	0.00	0.00
DISCCART	383152.04	3770551.94	0.00	0.00
DISCCART		3770551.94	0.00	
DISCCART	383252.04	3770551.94		0.00
DISCOART	383252.04 383302.04		0.00	
DISCCART	383302.04	3770551.94	0.00	0.00
DISCCART	383352.04	3770551.94	0.00	0.00
DISCCART	383402.04	3770551.94	0.00	0.00
DISCCART	383452.04	3770551.94	0.00	0.00
DISCCART	383502.04	3770551.94	0.00	0.00
DISCCART	383552.04	3770551.94	0.00	0.00
DISCCART	383602.04	3770551.94	0.00	0.00
DISCCART			0.00	0.00
DISCCART	383652.04 383702.04	3770551.94 3770551.94 3770551.94	0.00	0.00
DISCCART	383752.04	3770551.94	0.00	0.00
DISCCART	383802.04	3770551.94	0.00	0.00
DISCCART	383852.04	3770551.94	0.00	0.00
	383852.04			
DISCCART		3770551.94	0.00	0.00
DISCCART	383952.04	3770551.94	0.00	0.00
DISCCART	384002.04	3770551.94	0.00	0.00
DISCCART	384052.04	3770551.94	0.00	0.00
DISCCART	384102.04	3770551.94	0.00	0.00
DISCCART	384152.04	3770551.94	0.00	0.00
DISCCART	384202.04	3770551.94	0.00	0.00
DISCCART	384252.04	3770551.94	0.00	0.00
DISCCART	384302.04	3770551.94	0.00	0.00
DISCCART	384352.04	3770551.94	0.00	0.00
DISCCART	384402.04	3770551.94	0.00	0.00
DISCCART	384452.04	3770551.94	0.00	0.00
DISCCART	384502.04	3770551.94	0.00	0.00
	384502.04	3770551.94		
DISCCART DISCCART	384552.04		0.00	0.00
DISCCART				0.00
B # 0	384602.04	3770551.94	0.00	
DISCCART DISCCART	384602.04 384652.04 384702.04	3770551.94 3770551.94 3770551.94	0.00	0.00

DISCCART	382752.04	3770601.94	0.00	0.00
DISCCART	382802.04	3770601.94	0.00	0.00
DISCCART				
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DISCCART	382902.04	3770601.94	0.00	0.00
DISCCART	382952.04	3770601.94	0.00	0.00
DISCCART	383002.04	3770601.94	0.00	0.00
DISCCART	383052.04	3770601.94	0.00	0.00
DISCCART	383102.04	3770601.94	0.00	0.00
DISCCART	383152.04	3770601.94	0.00	0.00
DISCCART	383202.04	3770601.94	0.00	0.00
DISCCART	383252.04	3770601.94	0.00	0.00
DISCCART	383302.04	3770601.94	0.00	0.00
DISCCART	383352.04	3770601.94	0.00	0.00
DISCCART	383402.04	3770601.94	0.00	0.00
	383452.04	3770601.94		
DISCCART			0.00	0.00
DISCCART	383502.04	3770601.94	0.00	0.00
DISCCART	383552.04	3770601.94	0.00	0.00
DISCCART	383602.04	3770601.94	0.00	0.00
DISCCART	383652.04	3770601.94	0.00	0.00
DISCCART	383702.04	3770601.94	0.00	0.00
DISCCART	383752.04	3770601.94	0.00	0.00
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DISCCART	383802.04	3770601.94	0.00	0.00
DISCCART	383852.04	3770601.94	0.00	0.00
DISCCART	383902.04	3770601.94	0.00	0.00
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DISCCART	384102.04	3770601.94	0.00	0.00
	304102.04			
DISCCART	384152.04	3770601.94	0.00	0.00
DISCCART	384202.04	3770601.94	0.00	0.00
DISCCART	384252.04	3770601.94	0.00	0.00
DISCCART	384302.04	3770601.94	0.00	0.00
DISCCART	384352.04	3770601.94	0.00	0.00
DISCCART	384402.04	3770601.94	0.00	0.00
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DISCCART	384452.04	3770601.94	0.00	
DISCCART	384502.04	3770601.94	0.00	0.00
DISCCART	384552.04	3770601.94	0.00	0.00
DISCCART	384602.04	3770601.94	0.00	0.00
DISCCART	384652.04	3770601.94	0.00	0.00
DISCCART	384702.04	3770601.94	0.00	0.00
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DISCCART	382752.04	3770651.94		
DISCCART	382802.04		0.00	0.00
DISCCART	382852.04	3770651.94	0.00	0.00
DISCCART	382902.04	3770651.94	0.00	0.00
DISCCART	382952.04	3770651.94	0.00	0.00
DISCCART	383002.04	3770651.94	0.00	0.00
DISCCART	383052.04	3770651.94	0.00	0.00
DISCCART	383102.04		0.00	0.00
		3770651.94		
DISCCART	383152.04	3770651.94	0.00	0.00
DISCCART	383202.04	3770651.94	0.00	0.00
DISCCART	383252.04	3770651.94	0.00	0.00
DISCCART	383302.04	3770651.94	0.00	0.00
DISCCART	383352.04	3770651.94	0.00	0.00
DISCCART	383402.04	3770651.94	0.00	0.00
DISCCART	383452.04	3770651.94	0.00	0.00
DISCCART	383502.04	3770651.94	0.00	0.00
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DISCCART	383602.04	3770651.94	0.00	0.00
DISCCART	383652.04	3770651.94	0.00	0.00
DISCCART	383702.04	3770651.94	0.00	0.00
DISCCART	383802.04	3770651.94	0.00	0.00
DISCCART	383852.04	3770651.94	0.00	0.00
DISCCART	383902.04	3770651.94	0.00	0.00
DISCCART	383952.04	3770651.94	0.00	0.00
DISCCART	384002.04	3770651.94	0.00	0.00
DISCCART	384052.04	3770651.94	0.00	0.00
DISCCART	384102.04	3770651.94	0.00	0.00
	384152.04			
DISCCART		3770651.94	0.00	0.00
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DISCCART	384302.04	3770651.94	0.00	0.00
DISCCART	384352.04	3770651.94	0.00	0.00
DISCOART	384402.04	3770651.94	0.00	0.00
DISCCART	384452.04	3770651.94	0.00	0.00
DISCCART	384502.04	3770651.94	0.00	0.00
DISCCART	384552.04	3770651.94	0.00	0.00
DISCCART	384602.04	3770651.94	0.00	0.00
DISCCART	384652.04	3770651.94	0.00	0.00
DISCCART	384702.04	3770651.94	0.00	0.00
DISCCART	382752.04	3770701.94	0.00	0.00
DISCCART	382802.04	3770701.94	0.00	0.00
DISCCART	382852.04	3770701.94	0.00	0.00
	382852.04	3770701.94	0.00	
DISCCART				0.00
DISCCART	382952.04	3770701.94	0.00	0.00
DISCCART	383002.04	3770701.94	0.00	0.00
DISCCART	383052.04	3770701.94	0.00	0.00
DISCCART	383102.04	3770701.94	0.00	0.00
DISCCART	383152.04	3770701.94	0.00	0.00
DISCCART	383202.04		0.00	0.00
		3770701.94		
DISCCART	383252.04	3770701.94	0.00	0.00
DISCCART	383302.04	3770701.94	0.00	0.00
DISCCART	383352.04	3770701.94	0.00	0.00
DISCCART		3770701.94	0.00	0.00
DISCCART	383402.04 383452.04	3770701.94	0.00	0.00
DISCCART		3770701.94	0.00	0.00
DISCCART	383552.04	3770701.94	0.00	0.00
DISCCART	383802.04	3770701.94	0.00	0.00
DISCCART	383852.04	3770701.94	0.00	0.00
	383902.04			
DISCCART		3770701.94	0.00	0.00
DISCCART	383952.04	3770701.94	0.00	0.00
DISCCART	384002.04	3770701.94	0.00	0.00
DISCCART	384052.04	3770701.94	0.00	0.00
DISCCART	384102.04	3770701.94	0.00	0.00
DISCCART	384152.04	3770701.94	0.00	0.00
DISCCART	384202.04	3770701.94	0.00	0.00
DISCCART		3770701.94	0.00	0.00
	JUMZJZ.U4			
DISCCART	204200 01	3770701.94	0.00	0.00
DISCCART	384302.04			0.00
	384352.04	3770701.94	0.00	
DISCCART	384352.04 384402.04	3770701.94 3770701.94	0.00	0.00
DISCCART	384352.04 384402.04 384452.04	3770701.94 3770701.94 3770701.94	0.00	0.00
DISCCART DISCCART	384352.04 384402.04 384452.04	3770701.94 3770701.94 3770701.94 3770701.94	0.00	0.00
DISCCART DISCCART DISCCART	384352.04 384402.04 384452.04	3770701.94 3770701.94 3770701.94 3770701.94 3770701.94	0.00 0.00 0.00	0.00
DISCCART DISCCART DISCCART	384352.04 384402.04 384452.04 384502.04 384552.04	3770701.94 3770701.94 3770701.94 3770701.94 3770701.94	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
DISCCART DISCCART	384352.04 384402.04 384452.04	3770701.94 3770701.94 3770701.94 3770701.94	0.00 0.00 0.00	0.00 0.00 0.00

DISCCART	384702.04	3770701.94	0.00	0.00
DISCCART				
	382752.04	3770751.94	0.00	0.00
DISCCART	382802.04	3770751.94	0.00	0.00
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DISCCART	382902.04	3770751.94	0.00	0.00
DISCCART	382952.04	3770751.94	0.00	0.00
DISCCART	383002.04	3770751.94	0.00	0.00
DISCCART	383052.04	3770751.94	0.00	0.00
DISCCART	383102.04	3770751.94	0.00	0.00
DISCCART	383152.04	3770751.94	0.00	0.00
DISCCART	383202.04	3770751.94	0.00	0.00
DISCCART	383252.04	3770751.94	0.00	0.00
DISCCART	383302.04	3770751.94	0.00	0.00
DISCCART	383352.04	3770751.94	0.00	0.00
DISCCART	383402.04	3770751.94	0.00	0.00
DISCCART	383452.04	3770751.94	0.00	0.00
DISCCART	383502.04	3770751.94	0.00	0.00
DISCCART	383552.04	3770751.94	0.00	0.00
DISCCART	383802.04	3770751.94	0.00	0.00
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DISCCART	383952.04	3770751.94	0.00	0.00
DISCCART	384002.04	3770751.94	0.00	0.00
DISCCART	384052.04	3770751.94	0.00	0.00
DISCCART	384102.04	3770751.94	0.00	0.00
DISCCART	384152.04	3770751.94	0.00	0.00
DISCCART	384202.04	3770751.94	0.00	0.00
DISCCART	384252.04	3770751.94	0.00	0.00
DISCCART	384302.04	3770751.94	0.00	0.00
	384352.04		0.00	0.00
DISCCART		3770751.94		
DISCCART	384402.04	3770751.94	0.00	0.00
DISCCART	384452.04	3770751.94	0.00	0.00
DISCCART	384502.04	3770751.94	0.00	0.00
DISCCART	384552.04	3770751.94	0.00	0.00
DISCCART	384602.04	3770751.94	0.00	0.00
DISCCART	384652.04	3770751.94	0.00	0.00
DISCCART	384702.04	3770751.94	0.00	0.00
DISCCART	382752.04	3770801.94	0.00	0.00
DISCCART	382802.04	3770801.94	0.00	0.00
	382802.04	3770801.94		0.00
DISCCART			0.00	
DISCCART	382902.04	3770801.94	0.00	0.00
DISCCART	382952.04	3770801.94	0.00	0.00
DISCCART	383002.04	3770801.94	0.00	0.00
DISCCART	383052.04	3770801.94	0.00	0.00
DISCCART	383102.04	3770801.94	0.00	0.00
DISCCART	383152.04	3770801.94	0.00	0.00
DISCCART	383202.04	3770801.94	0.00	0.00
DISCCART	383252.04	3770801.94	0.00	0.00
DISCCART	383302.04	3770801.94	0.00	0.00
DISCCART	383352.04	3770801.94	0.00	0.00
DISCCART	383402.04	3770801.94	0.00	0.00
DISCCART	383452.04	3770801.94	0.00	0.00
DISCCART	383502.04	3770801.94	0.00	0.00
DISCCART	383552.04	3770801.94	0.00	0.00
DISCCART	383802.04	3770801.94	0.00	0.00
DISCCART	383852.04	3770801.94	0.00	0.00
DISCCART	383902.04	3770801.94	0.00	0.00
DISCCART	383952.04	3770801.94	0.00	0.00
DISCCART	384002.04	3770801.94	0.00	0.00
DISCCART	384052.04	3770801.94	0.00	0.00
DISCCART	384102.04			
		3770801.94	0.00	0.00
DISCCART	384152.04	3770801.94	0.00	0.00
DISCCART	384202.04	3770801.94	0.00	0.00
DISCCART	384252.04	3770801.94	0.00	0.00
DISCCART	384302.04	3770801.94	0.00	0.00
DISCCART	384352.04	3770801.94	0.00	0.00
DISCCART	384402.04	3770801.94	0.00	0.00
DISCCART	384452.04	3770801.94	0.00	0.00
DISCCART	384502.04	3770801.94	0.00	0.00
DISCCART	384552.04	3770801.94	0.00	0.00
DISCCART	384602.04	3770801.94	0.00	0.00
			0.00	0.00
DISCCART	384652.04	3770801.94		
DISCCART	384702.04	3770801.94	0.00	0.00
DISCCART	382752.04	3770851.94	0.00	0.00
DISCCART	382802.04	3770851.94	0.00	0.00
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DISCCART	382902.04	3770851.94	0.00	0.00
DISCCART	382952.04	3770851.94	0.00	0.00
DISCCART	383002.04	3770851.94	0.00	0.00
DISCCART	383052.04	3770851.94	0.00	0.00
DISCCART	383102.04	3770851.94	0.00	0.00
DISCCART	383152.04	3770851.94	0.00	0.00
DISCCART	383202.04	3770851.94	0.00	0.00
DISCCART		3770851.94	0.00	0.00
DISCCART	383252.04	3770851.94	0.00	0.00
DISCCART	383352.04	3770851.94	0.00	
DISCCART	383352.04	3770851.94		0.00
			0.00	0.00
DISCCART	383452.04	3770851.94	0.00	0.00
DISCCART	383502.04	3770851.94	0.00	0.00
DISCCART	383552.04	3770851.94	0.00	0.00
DISCCART	383802.04	3770851.94	0.00	0.00
DISCCART	383852.04	3770851.94	0.00	0.00
DISCCART			0.00	0.00
DISCCART	383952.04	3770851.94 3770851.94 3770851.94	0.00	0.00
DISCCART	384002.04	3770851.94	0.00	0.00
DISCCART	384052.04	3770851.94	0.00	0.00
DISCCART	384102.04	3770851.94	0.00	0.00
DISCCART	384152.04	3770851.94	0.00	0.00
DISCCART		3770851.94		
	384202.04		0.00	0.00
DISCCART	384252.04	3770851.94	0.00	0.00
DISCCART	384302.04	3770851.94	0.00	0.00
DISCCART	384352.04	3770851.94	0.00	0.00
DISCCART	384402.04	3770851.94	0.00	0.00
DISCCART	304402.04		0.00	0.00
DISCCART	384452.04	3770851.94		0.00
	384452.04 384502.04	3770851.94	0.00	
DISCCART	384452.04 384502.04	3770851.94	0.00	0.00
DISCCART	384452.04 384502.04	3770851.94		
DISCCART	384452.04 384502.04 384552.04 384602.04	3770851.94 3770851.94 3770851.94	0.00	0.00
DISCCART	38452.04 384502.04 384552.04 384602.04 384652.04	3770851.94 3770851.94 3770851.94 3770851.94	0.00 0.00 0.00	0.00 0.00 0.00
DISCCART DISCCART DISCCART	384452.04 384502.04 384552.04 384602.04 384652.04 384702.04	3770851.94 3770851.94 3770851.94 3770851.94 3770851.94	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
DISCCART DISCCART DISCCART DISCCART	384452.04 384502.04 384552.04 384602.04 384652.04 384702.04 382752.04	3770851.94 3770851.94 3770851.94 3770851.94 3770851.94 3770901.94	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
DISCCART DISCCART DISCCART DISCCART DISCCART	384452.04 384502.04 384552.04 384602.04 384652.04 384702.04 382752.04	3770851.94 3770851.94 3770851.94 3770851.94 3770851.94 3770901.94	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
DISCCART DISCCART DISCCART DISCCART DISCCART DISCCART	384452.04 384502.04 384552.04 384652.04 384652.04 384702.04 382752.04 382852.04	3770851.94 3770851.94 3770851.94 3770851.94 3770901.94 3770901.94 3770901.94	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
DISCCART DISCCART DISCCART DISCCART DISCCART	384452.04 384502.04 384552.04 384602.04 384652.04 384702.04 382752.04	3770851.94 3770851.94 3770851.94 3770851.94 3770851.94 3770901.94	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00

DISCCART	383002.04	3770901.94	0.00	0.00
DISCCART	383052.04	3770901.94	0.00	0.00
DISCCART	383102.04	3770901.94	0.00	0.00
DISCCART	383152.04	3770901.94	0.00	0.00
DISCCART	383202.04	3770901.94	0.00	0.00
DISCCART	383252.04	3770901.94	0.00	0.00
DISCCART	383302.04	3770901.94	0.00	0.00
DISCCART	383352.04	3770901.94	0.00	0.00
DISCCART	383402.04	3770901.94	0.00	0.00
DISCCART	383452.04	3770901.94	0.00	0.00
DISCCART	383502.04	3770901.94	0.00	0.00
DISCCART	383552.04	3770901.94	0.00	0.00
DISCCART	383802.04	3770901.94	0.00	0.00
DISCCART	383852.04	3770901.94	0.00	0.00
DISCCART	383902.04	3770901.94	0.00	0.00
DISCCART	383952.04	3770901.94	0.00	0.00
DISCCART	384002.04	3770901.94	0.00	0.00
DISCCART	384052.04	3770901.94	0.00	0.00
DISCCART	384102.04	3770901.94	0.00	0.00
DISCCART	384152.04	3770901.94	0.00	0.00
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DISCCART	384402.04	3770901.94	0.00	0.00
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DISCCART	384652.04	3770901.94	0.00	0.00
DISCCART	384702.04	3770901.94	0.00	0.00
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DISCCART	382952.04	3770951.94	0.00	0.00
DISCCART	383002.04	3770951.94	0.00	0.00
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DISCCART	383152.04	3770951.94	0.00	0.00
DISCCART	383202.04	3770951.94	0.00	0.00
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DISCCART	383452.04	3770951.94	0.00	0.00
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DISCCART	384152.04	3770951.94 3770951.94	0.00	0.00
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DISCCART				0.00
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DISCCART DISCCART	383202.04 383252.04	3771051.94 3771051.94	0.00	0.00
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DISCCART	383202.04	3771151.94	0.00	0.00
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DISCCART	384252.04	3771151.94 3771151.94	0.00	0.00
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DISCCART	383852.04 383902.04 383952.04	3771201.94	0.00	0.00
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DISCCART	384202.04	3771251.94	0.00	
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DISCCART	383902.04	3771301.94	0.00	0.00
DISCCART	383952.04	3771301.94	0.00	0.00
DISCCART	384002.04	3771301.94	0.00	0.00
DISCCART	384052.04	3771301.94	0.00	0.00
		3//1301.94		
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DISCCART	384402.04	3771301.94	0.00	0.00
DISCCART	384452.04	3771301.94	0.00	
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DISCCART	384502.04	3771301.94	0.00	0.00
DISCCART	384552.04	3771301.94	0.00	0.00
DISCCART	384602.04	3771301.94	0.00	0.00
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DISCCART	383802.04	3771351.94	0.00	0.00
DISCCART	383902.04	3771351.94	0.00	0.00
DISCCART	383952.04	3771351.94	0.00	0.00

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DISCCART	384352.04	3771351.94	0.00	0.00
DISCCART	384402.04	3771351.94	0.00	0.00
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DISCCART	384452.04	3771351.94	0.00	
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DISCCART	384552.04	3771351.94	0.00	0.00
DISCCART	384602.04	3771351.94	0.00	0.00
DISCCART	384652.04	3771351.94	0.00	0.00
		3771351.94		
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DISCCART	382752.04	3771401.94	0.00	0.00
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DISCCART	384052.04	3771401.94	0.00	0.00
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	202052 04	2771501.94		
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DISCCART	383452.04	3771501.74	0.00	0.00
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PISCUART		3771501 04	0 00	
DIGGGIO		3771501.94	0.00	0.00
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DISCCART	383002.04	3771801.94	0.00	0.00
PIULUMKI	202022.04	J//10U1.94	0.00	0.00

DISCCART	383102.04	3771801.94	0.00	0.00
DISCCART	383152.04	3771801.94	0.00	0.00
DISCCART	383202.04	3771801.94	0.00	0.00
DISCCART	383252.04	3771801.94	0.00	0.00
DISCCART	383302.04	3771801.94	0.00	0.00
DISCCART	383352.04	3771801.94	0.00	0.00
DISCCART	383402.04	3771801.94	0.00	0.00
DISCCART	383452.04	3771801.94	0.00	0.00
DISCCART	383502.04	3771801.94	0.00	0.00
DISCCART	383552.04	3771801.94	0.00	0.00
DISCCART	383602.04	3771801.94	0.00	0.00
DISCCART	383652.04	3771801.94	0.00	0.00
DISCCART	383702.04 383752.04	3771801.94	0.00	0.00
DISCCART DISCCART	383802.04	3771801.94 3771801.94	0.00	0.00
DISCCART	383852.04	3771801.94	0.00	0.00
DISCCART	383902.04	3771801.94	0.00	0.00
DISCCART	383952.04	3771801.94	0.00	0.00
DISCCART	384002.04	3771801.94	0.00	0.00
DISCCART	384052.04	3771801.94	0.00	0.00
DISCCART	384102.04	3771801.94	0.00	0.00
DISCCART	384152.04	3771801.94	0.00	0.00
DISCCART	384202.04	3771801.94	0.00	0.00
DISCCART	384252.04	3771801.94	0.00	0.00
DISCCART	384302.04	3771801.94	0.00	0.00
DISCCART	384352.04	3771801.94	0.00	0.00
DISCCART	384402.04	3771801.94	0.00	0.00
DISCCART	384452.04 384502.04	3771801.94	0.00	0.00
DISCCART	384552.04	3771801.94 3771801.94	0.00	0.00
DISCCART	384602.04	3771801.94	0.00	0.00
DISCCART	384652.04	3771801.94	0.00	0.00
DISCCART	384702.04	3771801.94	0.00	0.00
DISCCART	382752.04	3771851.94	0.00	0.00
DISCCART	382802.04	3771851.94	0.00	0.00
DISCCART	382852.04	3771851.94	0.00	0.00
DISCCART	382902.04	3771851.94	0.00	0.00
DISCCART	382952.04	3771851.94	0.00	0.00
DISCCART	383002.04	3771851.94	0.00	0.00
DISCCART	383052.04	3771851.94	0.00	0.00
DISCCART	383102.04	3771851.94	0.00	0.00
DISCCART	383152.04	3771851.94	0.00	0.00
DISCCART	383202.04	3771851.94	0.00	0.00
DISCCART	383252.04	3771851.94 3771851.94	0.00	0.00
DISCCART	383302.04 383352.04	3771851.94	0.00	0.00
DISCCART	383402.04	3771851.94	0.00	0.00
DISCCART	383452.04	3771851.94	0.00	0.00
DISCCART	383502.04	3771851.94	0.00	0.00
DISCCART	383552.04	3771851.94	0.00	0.00
DISCCART	383602.04	3771851.94	0.00	0.00
DISCCART	383652.04	3771851.94	0.00	0.00
DISCCART	383702.04	3771851.94	0.00	0.00
DISCCART	383752.04	3771851.94	0.00	0.00
DISCCART	383802.04	3771851.94	0.00	0.00
DISCCART	383852.04	3771851.94	0.00	0.00
DISCCART	383902.04	3771851.94	0.00	0.00
DISCCART	383952.04	3771851.94	0.00	0.00
DISCCART	384002.04	3771851.94	0.00	0.00
DISCCART	384052.04	3771851.94	0.00	0.00
DISCCART	384102.04 384152.04	3771851.94 3771851.94	0.00	0.00
DISCCART	384202.04	3771851.94	0.00	0.00
DISCCART	384252.04	3771851.94	0.00	0.00
DISCCART	384302.04	3771851.94	0.00	0.00
DISCCART	384352.04	3771851.94	0.00	0.00
DISCCART	384402.04	3771851.94	0.00	0.00
DISCCART	384452.04	3771851.94	0.00	0.00
DISCCART	384502.04	3771851.94	0.00	0.00
DISCCART	384552.04	3771851.94	0.00	0.00
DISCCART	384602.04	3771851.94	0.00	0.00
DISCCART	384652.04	3771851.94	0.00	0.00
DISCCART	384702.04	3771851.94	0.00	0.00
DISCCART	382752.04	3771901.94	0.00	0.00
DISCCART	382802.04	3771901.94	0.00	0.00
DISCCART DISCCART	382852.04 382902.04	3771901.94	0.00	0.00
DISCCART	382902.04	3771901.94 3771901.94	0.00	0.00
DISCCART	383002.04	3771901.94	0.00	0.00
DISCCART	383052.04	3771901.94	0.00	0.00
DISCCART	383102.04	3771901.94	0.00	0.00
DISCCART	383152.04	3771901.94	0.00	0.00
DISCCART	383202.04	3771901.94	0.00	0.00
DISCCART	383252.04	3771901.94	0.00	0.00
DISCCART	383302.04	3771901.94	0.00	0.00
DISCCART	383352.04	3771901.94	0.00	0.00
DISCCART	383352.04 383402.04 383452.04	3771901.94	0.00	0.00
DISCCART	383452.04 383502.04	3771901.94 3771901.94	0.00	0.00
DISCCART	383552.04	3771901.94	0.00	0.00
DISCCART	383602.04	3771901.94	0.00	0.00
DISCCART	383652.04	3771901.94	0.00	0.00
DISCCART	383702.04	3771901.94	0.00	0.00
DISCCART		3771901.94	0.00	0.00
DISCCART	383752.04 383802.04 383852.04	3771901.94	0.00	0.00
DISCCART	303032.01	3771901.94	0.00	0.00
DISCCART	383902.04	3771901.94 3771901.94 3771901.94 3771901.94 3771901.94	0.00	0.00
DISCCART	383952.04		0.00	0.00
DISCCART	384002.04	3771901.94	0.00	0.00
DISCCART	384052.04 384102.04	3771901.94	0.00	0.00
DISCCART	384102.04	3771901.94 3771901.94	0.00	0.00
DISCCART	384152.04	3771901.94	0.00	0.00
DISCCART	204050 04		0.00	0.00
DISCCART	384302.04	3771901.94 3771901.94	0.00	0.00
DISCCART	304332.04	3771901.94	0.00	0.00
DISCCART	384402.04	3771901.94	0.00	0.00
DISCCART	384452.04	3771901.94	0.00	0.00
DISCCART	384502.04	3771901.94	0.00	0.00
DISCCART	384552.04	3771901.94	0.00	0.00
DISCCART	384602.04	3771901.94	0.00	0.00
DISCCART	384652.04	3771901.94 3771901.94 3771901.94	0.00	0.00
DISCCART	384702.04	3771901.94	0.00	0.00
RE FINISHED				

```
**
 ** AERMOD Meteorology Pathway
me STARTING
SURFFILE cela.SFC
PROFFILE cela.PFL
SURFDATA 0 2006
UAIRDATA 3190 2006
PROFBASE 87 METERS
ME FINISHED
***
 Auto-Generated Plotfiles
PLOTFILE ANNUAL ALL HRA.AD\ANOOGALL.PLT
 PLOTFILE ANNUAL OnSite HRA.AD\ANNOGOO1.PLT
PLOTFILE ANNUAL Haulidle HRA.AD\ANOOGO02.PLT
PLOTFILE ANNUAL Haulrout HRA.AD\ANOOGO03.PLT
OU FINISHED
 ********
  *** SETUP Finishes Successfully ***
   DFAULT ELEV
  *** MODEL SETUP OPTIONS SUMMARY ***
 **Model Is Setup For Calculation of Average CONCentration Values.
        -- DEPOSITION LOGIC
 -- DEPOSITION LOGIC --
**Model Uses NO DRY DEPLETION. DDPLETE = F
**Model Uses NO WET DEPLETION. WDPLETE = F
**NO GAS DRY DEPOSITION Data Provided.
 **Model Uses URBAN Dispersion Algorithm for the SBL for 57 Source(s), for Total of 1 Urban Area(s):

Urban Population = 9862049.0; Urban Roughness Length = 1.000 m
 **Model Uses Regulatory DEFAULT Options:

1. Stack-tip Downwash.

2. Model Accounts for ELEVated Terrain Effects.

3. Use Calms Processing Routine.

4. Use Missing Data Processing Routine.

5. No Exponential Decay for URBAN/Non-SO2
 **Model Assumes No FLAGPOLE Receptor Heights.
 **Model Calculates ANNUAL Averages Only
  **This Run Includes: 57 Source(s);
                                                                                                  4 Source Group(s); and 1548 Receptor(s)
  **The Model Assumes A Pollutant Type of: DPM
  **Model Set To Continue RUNning After the Setup Testing.
  **Output Options Selected:

Model Outputs Tables of ANNUAL Averages by Receptor

Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
 **NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours
                                                                                                                                               m for Missing Hours
b for Both Calm and Missing Hours
 **Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 87.00; Decay Coef. = 0.000; Rot. Emission Units = GRAMS/SEC; Emission Rate Unit Factor = Output Units = MICROGRAMS/M**3
                                                                                                                                                                                                                                         ; Rot. Angle
  **Approximate Storage Requirements of Model = 1.4 MB of RAM.
   **MODELOPTs:
                                                                                                                                                                                                                                                                                    PAGE
                                                              DFAULT ELEV
                                                                                                                 *** VOLUME SOURCE DATA ***
                                                                                                                 BASE RELEASE INIT. INIT. URBAN EMISSION RATE
                             NUMBER EMISSION RATE
                                NUMBER EMISSION RAID
PART. (GRAMS/SEC) X Y ELEV. HEIGHT SY SZ
CATS. (METERS) (METERS) (METERS) (METERS) (METERS) (METERS) (METERS)
          SOURCE
                                                                                                                                                                                                              SOURCE SCALAR VARY
                              0 0.86655E-04 383546.8 3770633.2 0 0.86655E-04 383540.7 3770633.2 0 0.86655E-04 383540.5 3770633.2 0 0.86655E-04 383540.5 3770633.0 0 0.86655E-04 383510.6 3770623.0 0 0.86655E-04 383492.9 3770613.0 0 0.86655E-04 383495.6 3770598.0 0 0.86655E-04 383495.6 3770598.0 0 0.86655E-04 383495.6 3770598.0 0 0.86655E-04 383512.8 3770598.0 0 0.86655E-04 383512.8 3770578.2 0 0.86655E-04 383547.2 3770576.8 0 0.86655E-04 383547.3 3770575.2 0 0.86655E-04 383547.3 3770555.2 0 0.86655E-04 383561.3 3770555.2 0 0.86655E-04 383610.3 3770598.8 
      L0000001
L0000002
L0000003
                                                                                                                             0.0
                                                                                                                                                    1.52
1.52
                                                                                                                                                                         2.88
4.78
                                                                                                                                                                                              0.27
0.27
                                                                                                                                                                                                                   YES
                                                                                                                                                                                                                                    HROFDY
      L0000004
                                                                                                                                                    1.52
                                                                                                                                                                                                                                    HROFDY
      T-0000005
     L0000005
L0000007
L0000008
L0000009
                                                                                                                                                     1.52
                                                                                                                                                                                                                    YES
      L0000010
      T-0000011
                                                                                                                                                     1.52
                                                                                                                                                                                                                                    HROFDY
      L0000012
      L0000012
L0000013
L0000014
L0000015
      L0000016
                                                                                                                                                     1.52
                                                                                                                                                                                                                    YES
                                                                                                                                                                                                                                    HROFDY
      L0000017
                                                                                                                                                                                                                                    HROFDY
      T-0000018
                                                                                                                                                     1.52
```

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0 0.86655E-04 383607.5 3770635.8
0 0.86655E-04 383604.7 3770654.5
0 0.86655E-04 383601.9 3770673.0
0 0.86655E-04 383699.1 377091.5
0 0.86655E-04 383699.1 3770710.0
0 0.86655E-04 383696.3 3770710.0
0 0.86655E-04 383626.0 3770699.0
0 0.86655E-04 383643.4 3770689.8
0 0.86655E-04 383643.4 3770689.8
                                                                                                                                       0.0
                                                                                                                                                          1.52
     L0000021
                                                                                                                                                                                                      0.27
0.27
0.27
0.27
     L0000022
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                                                                                                                                                          1.52
                                                                                                                                                                                8.73
                                                                                                                                                                                                                            YES
                                                                                                                                                                                                                                            HROFDY
      1.0000022
     L0000023
L0000024
L0000025
L0000026
L0000027
  L0000027 0 0 .86655E-04 383643.4 3770689.8 0.0 1.52  
L0000028 0 0 .86655E-04 383660.8 3770680.8 0.0 1.52  
L0000029 0 0.86655E-04 383678.2 3770671.5 0.0 1.52  
L0000031 0 0.86655E-04 383678.2 3770671.5 0.0 1.52  
L0000031 0 0.86655E-04 383730.6 3770644.0 0.0 1.52  
L0000032 0 0.86655E-04 383730.6 3770644.0 0.0 1.52  
L0000033 0 0.86655E-04 383730.6 3770644.0 0.0 1.52  
L0000034 0 0.86655E-04 383736.3 3770652.5 0.0 1.52  
L0000035 0 0.86655E-04 383769.2 3770653.0 0.0 1.52  
L0000036 0 0.86655E-04 383769.2 3770657.2 0.0 1.52  
L0000037 0 0.86655E-04 383769.2 3770657.2 0.0 1.52  
L0000038 0 0.86655E-04 383767.3 3770676.8 0.0 1.52  
L0000038 0 0.86655E-04 383767.3 3770676.8 0.0 1.52  
L0000039 0 0.86655E-04 383765.4 3770715.5 0.0 1.52  
L00000040 0 0.86655E-04 383765.4 3770715.5 0.0 1.52  
L0000040 VERSION 07026 ***  
*** AERMOD - VERSION 07026 ***  
*** HRA - PM Diesel (Unmitigated)
                                                                                                                                                          1.52
                                                                                                                                                                                                                           YES
                                                                                                                                                                                                                                            HROFDY
                                                                                                                                                                                                                           YES
                                                                                                                                                                                                                                            HROFDY
                                                                                                                                                                                                                                            HROFDY
                                                                                                                                                                                                                                            HROFDY
HROFDY
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                                                                                                                                                                                                                                            HROFDY
                                                                                                                                                                                                                                             HROFDY
                                                                                                                                                                                                                           YES
YES
YES
YES
                                                                                                                                                                                                      0.27
                                                                                                                                                                                                                                            HROFDY
                                                                                                                                                                                                                                           HROFDY
HROFDY
HROFDY
                                                                                                                                                                                                                           YES
                                                                                                                                                                                                                                                                                              04/20/10
                                                                                                                                                                                                                                                                                               11:23:25
 **MODELOPTs:
                                                                  DFAULT ELEV
                                                                                                                     *** VOLUME SOURCE DATA ***
                                                                                                                          BASE RELEASE INIT.
                              NUMBER EMISSION RATE
                                                                                                                                                                                                 INIT. URBAN EMISSION RATE
                                 NUMBER EMISSION RATE
PART. (GRAMS/SEC) X Y ELEV. HEIGHT SY SZ
CATS. (METERS) (METERS) (METERS) (METERS) (METERS) (METERS)
          SOURCE
 0 0.86655E-04 383763.5 3770754.5
     L0000041
                                                                                                                                                                                9.04
                                                                                                                                                                                                      0.27
                                                                                                                                                                                                                           YES
                                                                                                                                                                                                                                            HROFDY
                                                                                                                                                                                9.04
                                                                                                                                                                                                                                            HROFDY
                                                                                                                                                                                                                                            HROFDY
                                                                                                                                                                                9.04
                                                                                                                                                                                                                            YES
                                                                                                                                                                                                                                            HROFDY
                                                                                                                                                                                9.04
                                                                                                                                                                                                                            YES
                                                                                                                                                                                                                                            HROFDY
                                                                                                                                                                                9.04
                                                                                                                                                                                                                            YES
                                                                                                                                                                                                                                            HROFDY
                                                                                                                                                                                                                            YES
                                                                                                                                                                                7.63
                                                                                                                                                                                                                           YES
                                                                                                                                                                                                                                           HROFDY
                                                                                                                                                                                                                                                                                              04/20/10
                                                                                                                                                                                                                                                                                               11:23:25
PAGE 4
 **MODELOPTs:
                                                                  DFAULT ELEV
                                                                                                                *** AREAPOLY SOURCE DATA ***
                               NUMBER EMISSION RATE LOCATION OF AREA BASE RELEASE NUMBER PART. (GRAMS/SEC X Y ELEV. HEIGHT OF VERTS. CATS. /METER**2) (METERS) (METERS) (METERS) (METERS)
                                                                                                                                                                                                      INIT. URBAN EMISSION RATE
SZ SOURCE SCALAR VARY
                                                                                                                                                                                                     SZ
(METERS)
                                                                                                                                                                                                                                                     BY
-
   SITE 0 0.66350E-06 383597.7 3771297.0 0.0 5.00 HAULIDLE 0 0.60760E-09 383597.7 3771297.0 0.0 5.00 *** AERMOD - VERSION 07026 *** *** ECho Park Lake Rehabilitation *** HRA - PM Diesel (Unmitigated)
                                                                                                                                                                                                                                                                                              04/20/10
                                                                  DFAULT ELEV
CONC
                                                                                                     *** SOURCE IDS DEFINING SOURCE GROUPS ***
  ONSITE SITE ,
   HAULIDLE HAULIDLE.
   HAULROUT L0000001, L0000002, L0000003, L0000004, L0000005, L0000006, L0000007, L0000008, L0000009, L0000010, L0000011, L0000012,
                          \texttt{L0000013, L0000014, L0000015, L0000016, L0000017, L0000018, L0000019, L0000020, L0000021, L0000022, L0000023, L0000024, L0000024, L0000024, L0000024, L0000024, L0000024, L0000024, L0000018, L00000018, L0000018, 
                         L0000025, L0000026, L0000027, L0000028, L0000029, L0000030, L0000031, L0000032, L0000033, L0000034, L0000035, L0000036,
                         L0000037, L0000038, L0000039, L0000040, L0000041, L0000042, L0000043, L0000044, L0000045, L0000046, L0000047, L0000048,
                         L0000049, L0000050, L0000051, L0000052, L0000053, L0000054, L0000055,
                                            , HAULIDLE, L0000001, L0000002, L0000003, L0000004, L0000005, L0000006, L0000007, L0000008, L0000009, L0000010,
                         L0000011, L0000012, L0000013, L0000014, L0000015, L0000016, L0000017, L0000018, L0000019, L0000020, L0000021, L0000022,
                         L0000023, L0000024, L0000025, L0000026, L0000027, L0000028, L0000029, L0000030, L0000031, L0000032, L0000033, L0000034,
                         L0000035, L0000036, L0000037, L0000038, L0000039, L0000040, L0000041, L0000042, L0000043, L0000044, L0000045, L0000046
   L0000047, L0000048, L0000049, L0000050, L0000051, L0000052, L0000053, L0000054, L0000055,

*** AERMOD - VERSION 07026 *** 

*** Echo Park Lake Rehabilitation

*** HRA - PM Diesel (Ummitigated)
                                                                                                                                                                                                                                                                                              04/20/10
                                                                                                                                                                                                                                                                                              11:23:25
 **MODELOPTs:
                                                                 DFAULT ELEV
                                                               * SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *
                                                                                                                                                  HOUR SCATAR
         HOTTE SCATAR
                                                   HOUR SCALAR
                                                                                                  HOUR SCALAR
                                                                                                                                                                                                   HOTTE SCALAR
                                                                                                                                                                                                                                                         HOTTE SCATAR
```

Company   Comp												
1 1000001-00 1 24 1000001-00 1 3 1000001-00 1 4 1000001-00 1 22 1000001-00 1 24 1000001-00 1 15 1000001-00 1 15 1000001-00 1 15 1000001-00 1 15 1000001-00 1 15 1000001-00 1 15 1000001-00 1 15 1000001-00 1 15 1000001-00 1 15 1000001-00 1 15 1000001-00 1 15 1000001-00 1 15 1000001-00 1 15 1000001-00 1 15 1000001-00 1 15 1000001-00 1 1 1000001-00 1 1 1000001-00 1 1 1000001-00 1 1 1000001-00 1 1 1000001-00 1 1 1000001-00 1 1 1000001-00 1 1 1 1		ormn .	20110 011									
15 - 0.000081-00	OURCE ID	= SITE ;	SOURCE 2	.00000E+00	3 DLY :	.00000E+00	4	.00000E+00	5	.00000E+00	6	.00000E+00
15 - 0.000081-00	7	.10000E+01	8	.10000E+01	9 15	.10000E+01	10	.10000E+01	11	.10000E+01	12	.10000E+01
1 000008-10 14 0.00008-10 13 .00008-10 0 4 .00008-10 23 .00008-10 16 .00008-10 17 13 .00008-10 18 .00008-10 1	19	.00000E+00	20	.00000E+00	21	.00000E+00	22	.00000E+00	23	.00000E+00	24	.00000E+00
1 000008-10 14 0.00008-10 13 .00008-10 0 4 .00008-10 23 .00008-10 16 .00008-10 17 13 .00008-10 18 .00008-10 1												
Comparison	OURCE ID	= HAULIDLE ;	SOURCE	TYPE = AREAPO	OLY:	000007.00	4	0000000.00	-	0000000.00		0000000.00
Comparison	7	.00000E+00	8	.00000E+00	9	.10000E+01	10	.10000E+00	11	.10000E+00	12	.10000E+01
Comparison	13	.10000E+01	14	.10000E+01	15 21	.00000E+00	16 22	.00000E+00	17	.00000E+00	18	.00000E+00
1 0.000004-00 1 14 1.00006-00 2 0.000008-00 12 0.00008-00 12 0.00008-00 12 0.00008-00 13 0.00008-00 13 0.00008-00 12 0.00008-00 13 0.00008-00 12 0.00008-00 13 0.00008-00	13	.000000	20	.000000+00	21	.000000	22	.000000	23	.000000	24	.000000
1 0.000004-00 1 14 1.00006-00 2 0.000008-00 12 0.00008-00 12 0.00008-00 12 0.00008-00 13 0.00008-00 13 0.00008-00 12 0.00008-00 13 0.00008-00 12 0.00008-00 13 0.00008-00	OURCE ID	= L0000001 ;	SOURCE	TYPE = VOLUM	E :							
CREEK ID = L00000002   SOURCE TYPE = VOLIME	1	.00000E+00	2	.00000E+00	3	.00000E+00	4	.00000E+00	5	.00000E+00	6	.00000E+00
CREEK ID = L00000002   SOURCE TYPE = VOLIME	13	.10000E+01	14	.10000E+01	15	.00000E+00	16	.00000E+01	17	.00000E+01	18	.00000E+01
1 0.0000F1-00	19	.00000E+00	20	.00000E+00	21	.00000E+00	22	.00000E+00	23	.00000E+00	24	.00000E+00
1 0.0000F1-00												
1.	OURCE ID	= L0000002 ;	SOURCE 2	TYPE = VOLUMI	E :	.00000E+00	4	.00000E+00	5	.00000E+00	6	.00000E+00
WRICE ID - 1,00000003 : SOURCE TYPE - VOLUME : 1	7	.00000E+00	8	.00000E+00	9	.10000E+01	10	.10000E+01	11	.10000E+01	12	.10000E+01
WRICE ID - 1,00000003 : SOURCE TYPE - VOLUME : 1	13 19	.10000E+01	20	.10000E+01	21	.00000E+00	16 22	.00000E+00	23	.00000E+00	18 24	.00000E+00
1 .00000F-00   2 .00000F-00   3 .00000F-00   4 .00000F-00   22 .00000F-00   24 .00000F-00   10 .0000F-00   12 .0000F-00   12 .00000F-00   12 .0000F-00   13 .0000F-00   13 .0000F-00   14 .0000F-00   14 .0000F-00   15 .0000F-00   14 .0000F-00   15 .0000F-00   16												
19 .00000F-00 20 .00000F-00 21 .00000F-00 22 .00000F-00 23 .00000F-00 24 .0000F-00 20 .00000F-00 21 .00000F-00 22 .00000F-00 22 .00000F-00 23 .00000F-00 22 .00000F-00 24 .00000F-00 24 .00000F-00 25 .00000F-00 26 .00000F-00 27 .00000F-00 27 .00000F-00 28	OURCE ID	= L0000003 ;	SOURCE	TYPE = VOLUM	E :							
19 .00000F-00 20 .00000F-00 21 .00000F-00 22 .00000F-00 23 .00000F-00 24 .0000F-00 20 .00000F-00 21 .00000F-00 22 .00000F-00 22 .00000F-00 23 .00000F-00 22 .00000F-00 24 .00000F-00 24 .00000F-00 25 .00000F-00 26 .00000F-00 27 .00000F-00 27 .00000F-00 28	1 7	.00000E+00	2	.00000E+00	3	.00000E+00	10	.00000E+00	5 11	.00000E+00	6 12	.00000E+00
MODELOFFE:	13	.10000E+01	14	.10000E+01	15	.00000E+00	16	.00000E+00	17	.00000E+00	18	.00000E+00
WIRE   PADE	19	.00000E+00	20	.00000E+00	21	.00000E+00	22	.00000E+00	23	.00000E+00	24	.00000E+00
**************************************	** AERM	OD - VERSION	07026 **									04/20
**SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *  **MOUR SCALAR HOUR S	MODELOP'	rs:		*** HKA -	- PM L	olesel (Unmiti	.gated)				•	11.20
NUCCE ID = L00010064; SOURCE TYPE = VOLUME : 1	ONC		DF	FAULT ELEV								
URICE ID = L0000004			* 5	SOURCE EMISSION	N RATE	SCALARS WHIC	H VARY	FOR EACH HOU	R OF THE	DAY *		
URCE ID = L0000004 / SOURCE TYPE = VOLIME :  1 .000008-00 2 .000008-00 3 .000008-00 4 .000008-01 15 .000008-01 6 .000008-00 7 .000008-01 8 .000008-00 9 .100008-01 16 .000008-01 11 .100008-01 12 .100008-01 13 .100008-01 12 .00008-00 15 .00008-00 15 .00008-00 12 .00008-00 12 .00008-00 12 .00008-00 12 .00008-00 12 .00008-00 12 .00008-00 12 .00008-00 12 .00008-00 12 .00008-00 12 .00008-00 12 .00008-00 12 .00008-00 12 .00008-00 12 .00008-00 12 .00008-00 12 .00008-00 13 .00008-00 15 .00008-00 12 .00008-00 12 .00008-00 13 .00008-00 15 .00008-00 15 .00008-00 12 .00008-00 13 .00008-00 15 .00008-00 15 .00008-00 12 .00008-00 13 .00008-00 15 .00008-00 12 .00008-00 13 .00008-00 13 .00008-00 15 .00008-00 12 .00008-00 13 .00008-00 13 .00008-00 15 .00008-00 12 .00008-00 13 .00008-00 13 .00008-00 15 .00008-00 18 .00008-00 13 .00008-00 13 .00008-00 12 .00008-00 17 .00008-00 18 .00008-00 13 .00008-00 12 .00008-00 13 .00008-00 12 .00008-00 12 .00008-00 13 .00008-00 12 .00008-00 13 .00008-00 12 .00008-00 13 .00008-00 14 .00008-00 15 .00008-00 16 .00008-00 15 .00008-00 15 .00008-00 16 .00008-00 15 .00008-00 16 .00008-00 16 .00008-00 15 .00008-00 16 .000												
1 .000008+00	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1 .000000F-00												
1 .000008+00	URCE ID	= T.0000004 ;	SOURCE	TYPE = VOLUM	R :							
13 1.00008-01 14 1.00008-01 15 1.000008-00 12 0.00008-00 17 0.00008-00 18 0.00008-00 19 0.00008-00 21 0.00008-00 22 0.00008-00 22 0.00008-00 23 0.00008-00  UNCE ID * L000008-0	1	.00000E+00	2	.00000E+00	3	.00000E+00	4	.00000E+00	5	.00000E+00	6	.00000E+00
19	13	.00000E+00	8 14	.00000E+00	15	.10000E+01	10 16	.10000E+01	11	.10000E+01	12	.10000E+01
1 .000008+00   2 .000008+00   9 .100008+00   4 .00008+00   11 .10008+01   12 .100008+01   13 .00008+01   13 .00008+01   14 .100008+01   15 .000008+00   16 .00008+00   17 .00008+00   24 .00008+00   19 .00008+00   24 .00008+00   24 .00008+00   24 .00008+00   27 .00008+00   24 .00008+00   28 .00008+00   28 .00008+00   28 .00008+00   28 .00008+00   28 .00008+00   29 .00008+00   29 .00008+00   20 .00008+00   20 .00008+00   20 .00008+00   3 .00008+00   4 .00008+01   11 .10008+01   12 .10008+01   13 .10008+01   14 .10008+01   15 .00008+00   16 .00008+00   17 .00008+00   28 .00008+00   29 .00008+00   29 .00008+00   20 .00												
1 .000008+00   2 .000008+00   9 .100008+00   4 .00008+00   11 .10008+01   12 .100008+01   13 .00008+01   13 .00008+01   14 .100008+01   15 .000008+00   16 .00008+00   17 .00008+00   24 .00008+00   19 .00008+00   24 .00008+00   24 .00008+00   24 .00008+00   27 .00008+00   24 .00008+00   28 .00008+00   28 .00008+00   28 .00008+00   28 .00008+00   28 .00008+00   29 .00008+00   29 .00008+00   20 .00008+00   20 .00008+00   20 .00008+00   3 .00008+00   4 .00008+01   11 .10008+01   12 .10008+01   13 .10008+01   14 .10008+01   15 .00008+00   16 .00008+00   17 .00008+00   28 .00008+00   29 .00008+00   29 .00008+00   20 .00												
13 .00008+01 14 .100008+00 25 .00008+00 16 .000008+00 17 .000008+00 24 .000008+00 19 .000008+00 20 .000008+00 21 .000008+00 22 .000008+00 23 .000008+00 24 .000008+00  UNCER ID = L0000006 ; SOURCE TYPE = VOLUME :  1 .000008+00 2 .000008+00 9 .100008+00 4 .000008+00 5 .00008+00 6 .000008+00 17 .000008+00 14 .100008+01 15 .000008+00 16 .000008+00 17 .000008+00 18 .000008+00 19 .000008+00 20 .000008+00 91 .000008+00 16 .000008+00 17 .000008+00 18 .000008+00 19 .000008+00 20 .000008+00 31 .000008+00 12 .000008+00 23 .000008+00 24 .000008+00  UNCER ID = L0000007 ; SOURCE TYPE = VOLUME :  1 .00008+00 2 .00008+00 3 .000008+00 5 .00008+00 5 .00008+00 6 .00008+00 13 .100008+01 14 .10008+01 15 .000008+00 17 .00008+00 18 .00008+00 19 .000008+00 2 .000008+00 3 .00008+00 17 .00008+00 18 .00008+00 19 .000008+00 2 .00008+00 3 .00008+00 17 .00008+00 18 .00008+00 19 .000008+00 20 .00008+00 3 .00008+00 17 .00008+00 18 .00008+00 19 .000008+00 20 .00008+00 3 .000008+00 17 .00008+00 18 .00008+00 19 .000008+00 20 .00008+00 3 .000008+00 17 .00008+00 18 .00008+00 19 .000008+00 20 .00008+00 3 .00008+00 17 .00008+00 18 .00008+00 19 .000008+00 20 .00008+00 3 .00008+00 5 .00008+00 24 .00008+00 19 .000008+00 20 .00008+00 3 .00008+00 11 .00008+00 17 .00008+00 18 .00008+00 19 .000008+00 20 .00008+00 3 .00008+00 11 .00008+00 11 .00008+00 18 .00008+00 19 .000008+00 20 .00008+00 3 .00008+00 22 .00008+00 23 .00008+00 24 .00008+00 19 .000008+00 20 .00008+00 3 .00008+00 10 .00008+00 17 .00008+00 18 .00008+00 19 .000008+00 20 .00008+00 3 .00008+00 23 .00008+00 11 .10008+01 11 .10008+01 12 .100008+01 19 .00008+00 19	URCE ID	= L0000005 ;	SOURCE	TYPE = VOLUMI	E :	00000E+00	4	00000E+00	5	00000E+00	6	00000E+00
UNCE ID = L0000006; SUURCE TYPE = VOLUME :  1	7	.00000E+00	8	.00000E+00	9	.10000E+01	10	.10000E+01	11	.10000E+01	12	.10000E+01
UNCE ID = L0000006; SUURCE TYPE = VOLUME :  1	13	.10000E+01	14 20	.10000E+01	15 21	.00000E+00	16 22	.00000E+00	17 23	.00000E+00	18	.00000E+00
1 .000008+00 2 .000008+00 3 .000008+00 4 .000008+00 5 .000008+00 6 .000008+00 17 .000008+00 18 .000008+00 19 .000008+00 11 .00008+01 10 .100008+01 11 .100008+01 12 .100008+01 13 .100008+01 14 .100008+01 15 .000008+00 16 .000008+00 17 .000008+00 18 .000008+00 19 .000008+00 20 .000008+00 21 .000008+00 12 .000008+00 23 .000008+00 24 .000008+00 19 .000008+00 20 .000008+00 21 .000008+00 17 .000008+00 18 .000008+00 17 .000008+00 18 .000008+00 19 .000008+00 19 .000008+00 19 .000008+00 19 .000008+00 19 .000008+00 19 .000008+00 19 .000008+00 18 .000008+00 19 .000008+00 10 .000008+00 19 .000008+00 10 .00000		.000001.00	20	.000002100		.000001		.000002.00	23	.000002.00		.000002.00
DURCE ID = L0000007 ; SOURCE TYPE = VOLUME :  1	OURCE ID	= L0000006 ;	SOURCE	TYPE = VOLUM	E :							
DURCE ID = L0000007 ; SOURCE TYPE = VOLUME :  1	1	.00000E+00	2	.00000E+00	3	.00000E+00	4	.00000E+00	5	.00000E+00	6	.00000E+00
DURCE ID = L0000007 ; SOURCE TYPE = VOLUME :  1	13	.10000E+01	14	.10000E+01	15	.00000E+00	16	.00000E+00	17	.00000E+00	18	.00000E+00
1 .00000E+00 2 .00000E+00 3 .00000E+00 4 .00000E+00 5 .00000E+00 6 .00000E+01 17 .00000E+01 11 .10000E+01 13 .10000E+01 13 .10000E+01 14 .10000E+01 15 .00000E+00 16 .00000E+00 17 .00000E+00 18 .00000E+00 19 .00000E+00 20 .00000E+00 21 .00000E+00 16 .00000E+00 17 .00000E+00 18 .00000E+00 19 .00000E+00 21 .00000E+00 22 .00000E+00 23 .00000E+00 24 .00000E+00 24 .00000E+00 24 .00000E+00 25 .0000E+00 24 .00000E+00 25 .0000E+00 24 .00000E+00 25 .0000E+00 24 .00000E+00 25 .0000E+00 26 .0000E+00 27 .0000E+00 20 .0000E+00 22 .00000E+00 16 .0000E+01 17 .0000E+01 12 .10000E+01 19 .0000E+01 14 .10000E+01 14 .10000E+01 14 .10000E+01 14 .10000E+01 17 .00000E+00 25 .0000E+00	19	.00000E+00	20	.00000E+00	21	.00000E+00	22	.00000E+00	23	.00000E+00	24	.00000E+00
1 .00000E+00												
7 .00000E+00	1	00000E+00	2	00000E+00	3	00000E+00	4	.00000E+00	5	.00000E+00	6	.00000E+00
URCE ID = L0000008 ; SOURCE TYPE = VOLUME :  1	7	.00000E+00	8	.00000E+00	9	.10000E+01	10	.10000E+01	11	.10000E+01	12	.10000E+01
URCE ID = L0000008 ; SOURCE TYPE = VOLUME :  1	19	.00000E+01	20	.00000E+01	21	.00000E+00	22	.00000E+00	23	.00000E+00	24	.00000E+00
1 .00000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .00000E+00 1 3 .0000E+00 7 .00000E+00 8 .00000E+00 9 .10000E+00 16 .00000E+00 17 .00000E+00 18 .0000E+00 19 .0000E+00 14 .10000E+00 15 .00000E+00 16 .0000E+00 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .00000E+00 23 .0000E+00 24 .0000E+00 24 .0000E+00 25												
7 .00000E+00 8 .00000E+00 9 .10000E+01 10 .10000E+01 11 .10000E+01 12 .10000E+01 13 .10000E+01 14 .10000E+01 15 .00000E+00 16 .00000E+00 17 .00000E+00 18 .00000E+00 19 .00000E+00 20 .00000E+00 21 .00000E+00 22 .00000E+00 23 .00000E+00 24 .00000E+00 25 .00000E+00 25 .0000E+00 2											_	
#** AERMOD - VERSION 07026 *** *** Echo Park Lake Rehabilitation	7	.00000E+00	2	.00000E+00	3	.00000E+00	4 10	.00000E+00	5 11	.00000E+00	6 12	.00000E+00
*** AERMOD - VERSION 07026 *** *** Echo Park Lake Rehabilitation	13	.10000E+01	14	.10000E+01	15	.00000E+00	16	.00000E+00	17	.00000E+00	18	.00000E+00
*** HRA - PM Diesel (Unmitigated)  *** 11:23:2: PAGE  ***  ***  ***  ***  ***  ***  ***	19	.00000E+00	20	.00000E+00	21	.00000E+00	22	.00000E+00	23	.00000E+00	24	.00000E+00
MODELOTES:  * SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *  HOUR SCALAR  ** SOURCE TYPE = VOLUME :  1 .00000E+00	** AERM	OD - VERSION	07026 **		Park	Lake Rehabili	tation					
* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *  HOUR SCALAR  URCE ID = L0000009; SOURCE TYPE = VOLUME :  1 .00000E+00		rs:			- PM L	reser (onmici	.gateu)					11,23
HOUR SCALAR  URCE ID = L0000009; SOURCE TYPE = VOLUME :  1 .00000E+00 2 .00000E+00 3 .00000E+00 10 .10000E+01 11 .10000E+01 12 .10000E+01  13 .10000E+01 14 .10000E+01 15 .00000E+00 16 .00000E+00 17 .00000E+00 18 .00000E+00  19 .00000E+00 20 .00000E+00 21 .00000E+00 16 .00000E+00 23 .00000E+00 24 .00000E+00  URCE ID = L0000010; SOURCE TYPE = VOLUME :  1 .00000E+00 2 .00000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00  7 .0000DE+00 8 .0000E+00 9 .10000E+01 10 .10000E+01 11 .1000E+01 12 .10000E+01  13 .10000E+00 8 .0000E+00 9 .10000E+01 10 .10000E+01 11 .1000E+01 12 .10000E+01  13 .10000E+00 20 .0000E+00 21 .0000E+00 17 .0000E+00 18 .0000E+00  19 .0000E+00 20 .0000E+00 21 .0000E+00 16 .0000E+00 17 .0000E+00 24 .0000E+00  URCE ID = L0000011; SOURCE TYPE = VOLUME :  1 .00000E+00 3 .0000E+00 3 .0000E+00 5 .0000E+00 6 .0000E+00  19 .0000E+00 5 .0000E+00 5 .0000E+00 18 .0000E+00  URCE ID = L0000011; SOURCE TYPE = VOLUME :  1 .0000E+00 1 14 .10000E+01 5 .0000E+00 5 .0000E+00 6 .0000E+00  TOURCE ID = L0000011 1 SOURCE TYPE = VOLUME :  1 .0000E+00 1 14 .10000E+01 15 .0000E+01 10 .10000E+01 11 .10000E+01 12 .10000E+01  13 .10000E+00 8 .0000E+00 9 .10000E+00 1 10 .10000E+01 11 .10000E+01 12 .10000E+01  13 .10000E+01 14 .1000E+01 15 .0000E+01 10 .10000E+01 11 .10000E+01 12 .10000E+01  13 .10000E+01 14 .1000E+01 15 .00000E+00 16 .0000E+00 17 .0000E+00 18 .0000E+00	NC		DF	FAULT ELEV								
URCE ID = L0000009; SOURCE TYPE = VOLUME :  1			* 5	SOURCE EMISSION	N RATE	SCALARS WHIC	H VARY	FOR EACH HOU	R OF THE	DAY *		
URCE ID = L0000009; SOURCE TYPE = VOLUME :  1												
1 .00000E+00 2 .00000E+00 3 .00000E+00 4 .00000E+00 11 .10000E+01 12 .10000E+01 13 .10000E+01 14 .10000E+01 15 .00000E+00 16 .00000E+00 17 .00000E+00 18 .00000E+00 19 .00000E+00 15 .00000E+00 17 .00000E+00 18 .00000E+00 19 .00000E+00 20 .00000E+00 21 .00000E+00 22 .00000E+00 23 .00000E+00 24 .00000E+00 20 .0000E+00 21 .00000E+00 22 .00000E+00 23 .00000E+00 24 .00000E+00 24 .00000E+00 24 .00000E+00 25 .0000E+00 24 .00000E+00 25 .0000E+00 25 .00	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1 .00000E+00 2 .00000E+00 3 .00000E+00 4 .00000E+00 10 .10000E+00 12 .10000E+01 13 .10000E+01 14 .10000E+01 15 .00000E+00 16 .00000E+00 17 .00000E+00 18 .00000E+00 19 .00000E+00 16 .00000E+00 17 .00000E+00 18 .00000E+00 19 .00000E+00 20 .00000E+00 21 .00000E+00 22 .00000E+00 23 .00000E+00 24 .00000E+00 24 .0000E+00 27 .00000E+00 24 .00000E+00 25 .000												
URCE ID = L0000010 ; SOURCE TYPE = VOLUME :  1 .00000E+00	URCE ID	= L0000009 ;	SOURCE	TYPE = VOLUM	Ε :							
URCE ID = L0000010 ; SOURCE TYPE = VOLUME :  1 .00000E+00	1 7	.00000E+00	2	.00000E+00	3 9	.00000E+00	4 10	.00000E+00	5 11	.00000E+00	6 12	.00000E+00
URCE ID = L0000010 ; SOURCE TYPE = VOLUME :  1	13	.10000E+01	14	.10000E+01	15	.00000E+00	16	.00000E+00	17	.00000E+00	18	.00000E+00
1 .00000E+00 2 .00000E+00 3 .00000E+00 4 .00000E+00 10 .10000E+01 12 .10000E+01 13 .10000E+01 14 .10000E+01 15 .00000E+00 16 .00000E+00 17 .00000E+00 18 .0000E+00 19 .0000E+00 16 .00000E+00 17 .00000E+00 18 .00000E+00 19 .00000E+00 20 .00000E+00 21 .00000E+00 22 .00000E+00 23 .00000E+00 24 .00000E+00 20 .0000E+00 21 .00000E+00 22 .00000E+00 23 .00000E+00 24 .00000E+00 24 .00000E+00 24 .00000E+00 25 .00000	19	.00000E+00	20	.00000E+00	21	.00000E+00	22	.00000E+00	23	.00000E+00	24	.00000E+00
1 .00000E+00 2 .0000E+00 3 .0000E+00 4 .00000E+00 15 .0000E+00 6 .00000E+00 7 .00000E+00 8 .00000E+00 9 .10000E+01 10 .10000E+01 11 .10000E+01 12 .10000E+01 13 .10000E+01 14 .10000E+01 15 .00000E+00 16 .00000E+00 17 .00000E+00 18 .00000E+00 19 .00000E+00 20 .00000E+00 21 .00000E+00 22 .00000E+00 23 .00000E+00 24 .00000E+00   UNICCE ID = L0000011; SOURCE TYPE = VOLUME :  1 .00000E+00 2 .00000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00 9 .10000E+01 10 .10000E+01 11 .10000E+01 12 .10000E+01 13 .10000E+01 14 .10000E+01 15 .0000E+00 16 .0000E+00 18 .0000E+00	uman -	* 000000		mune								
13 .10000E+01 14 .10000E+01 15 .00000E+00 16 .00000E+00 17 .00000E+00 18 .00000E+00 19 .00000E+00 20 .00000E+00 21 .00000E+00 22 .00000E+00 23 .00000E+00 24 .00000E+00   DURCE ID = L0000011 ; SOURCE TYPE = VOLUME :  1 .00000E+00 2 .00000E+00 3 .00000E+00 4 .00000E+00 5 .00000E+00 6 .00000E+00 7 .00000E+00 8 .00000E+00 10 .10000E+01 10 .10000E+01 11 .10000E+01 12 .10000E+01 13 .10000E+01 14 .10000E+01 15 .00000E+00 16 .00000E+00 17 .00000E+00 18 .00000E+00	URCE ID	= LU000010 ; .00000E+00	SOURCE 2	: TYPE = VOLUM .00000E+00	E :	.00000E+00	4	.00000E+00	5	.00000E+00	6	.00000E+00
DURCE ID = L0000011; SOURCE TYPE = VOLUME :  1 .00000E+00 2 .00000E+00 3 .00000E+00 4 .00000E+00 5 .00000E+00 6 .00000E+00  7 .00000E+00 8 .00000E+00 9 .10000E+01 10 .10000E+01 11 .10000E+01 12 .10000E+01  13 .10000E+01 14 .10000E+01 15 .00000E+00 16 .00000E+00 17 .00000E+00	7	.00000E+00	8	.00000E+00	9	.10000E+01	10	.10000E+01	11	.10000E+01	12	.10000E+01
URCE ID = L0000011; SOURCE TYPE = VOLUME :  1 .00000E+00 2 .00000E+00 3 .00000E+00 4 .00000E+00 5 .00000E+00 6 .00000E+00  7 .00000E+00 8 .00000E+00 9 .10000E+01 10 .10000E+01 11 .10000E+01 12 .10000E+01  13 .10000E+01 14 .10000E+01 15 .00000E+00 16 .00000E+00 17 .00000E+00	13 19	.10000E+01	14 20	.10000E+01	15 21	.00000E+00	16 22	.00000E+00	17 23	.00000E+00	18 24	.00000E+00
1 .00000E+00 2 .00000E+00 3 .00000E+00 4 .00000E+00 5 .00000E+00 6 .00000E+00 7 .00000E+00 8 .00000E+00 9 .10000E+01 10 .10000E+01 11 .10000E+01 12 .10000E+01 13 .10000E+01 14 .10000E+01 15 .00000E+00 16 .00000E+00 17 .00000E+00 18 .00000E+00												
1 .00000E+00 2 .00000E+00 3 .00000E+00 4 .00000E+00 5 .00000E+00 6 .00000E+00 7 .00000E+00 8 .00000E+00 9 .10000E+01 10 .10000E+01 11 .10000E+01 12 .10000E+01 13 .10000E+01 14 .10000E+01 15 .00000E+00 16 .00000E+00 17 .00000E+00 18 .00000E+00 19 .00000E+00 20 .00000E+00 21 .00000E+00 22 .00000E+00 23 .00000E+00 24 .00000E+00	URCE ID	= L0000011 ;	SOURCE	TYPE = VOLUM	E :							
13 .10000E+01 14 .10000E+01 15 .00000E+00 16 .00000E+00 17 .00000E+00 18 .00000E+00 19 .00000E+00 20 .00000E+00 21 .00000E+00 22 .00000E+00 23 .00000E+00 24 .00000E+00	1 7	.00000E+00	2	.00000E+00	3	.00000E+00	4	.00000E+00	5 11	.00000E+00	6	.00000E+00
19 .00000E+00 20 .00000E+00 21 .00000E+00 22 .00000E+00 23 .00000E+00 24 .00000E+00	13	.10000E+01	14	.10000E+01	15	.00000E+00	16	.00000E+00	17	.00000E+00	18	.00000E+00
	19	.00000E+00	20	.00000E+00	21	.00000E+00	22	.00000E+00	23	.00000E+00	24	.00000E+00

SOURCE ID	= T <sub>0</sub> 000012	SOURCE	E TYPE = VOLUME	: :								
1	.00000E+00	2	.00000E+00	3	.00000E+00 .10000E+01	4	.00000E+00	5	.00000E+00	6	.00000E+00	
			.00000E+00 .10000E+01	9 15	.10000E+01	10 16	.10000E+01	11 17	.10000E+01	12 18	.10000E+01	
			.00000E+00								.00000E+00	
SOURCE ID	= L0000013	SOURCE	E TYPE = VOLUME	: 3								
1	.00000E+00	2	.00000E+00 .00000E+00	3	.00000E+00	4	.00000E+00	5	.00000E+00 .10000E+01	1.0	.00000E+00 .10000E+01	
13	.10000E+01	14	.10000E+00 .10000E+01 .00000E+00	15	.00000E+01	16	.00000E+00	17	.00000E+01	18	.00000E+01	
19	.00000E+00	20	.00000E+00	21	.00000E+00	22	.00000E+00	23	.00000E+00	24	.00000E+00	
			** *** Echo									20/10
		0,020			iesel (Unmiti					1	*** 11::	23:25
**MODELOP		Di	FAULT ELEV								PAGI	E 9
CONC												
		* :	SOURCE EMISSION	I RATE	SCALARS WHIC	H VARY	FOR EACH HOUF	OF THE	DAY *			
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	
GOUDGE TD	10000014	. goring	E TYPE = VOLUME									
SOURCE ID	.00000E+00	2 SOURCE	.00000E+00	3	.00000E+00	4	.00000E+00	5	.00000E+00	6	.00000E+00	
7	.00000E+00	8	.00000E+00 .00000E+00 .10000E+01	9	.10000E+01	10	.10000E+01	11	.10000E+01	12	.10000E+01	
13	.10000E+01	20	.10000E+01	21	.00000E+00	16	.00000E+00	23	.00000E+00	18 24	.00000E+00	
17	.00000100	20	.000000	21	.000000	22	.00000100	23	.00000100	21	.00000100	
COURCE ID	- T000001E	· compa	E TYPE - VOLUM									
1	.00000E+00	2 2	E TYPE = VOLUME .00000E+00	3	.00000E+00	4	.00000E+00	5	.00000E+00	6	.00000E+00	
. 7	.00000E+00	8	.00000E+00	9	.10000E+01	10	.10000E+01	11	.10000E+01	12	.10000E+01	
13	.10000E+01	14	.00000E+00 .00000E+00 .00000E+01 .00000E+01	15 21	.00000E+00	16 22	.00000E+00	17	.10000E+01 .00000E+00 .00000E+00	18	.00000E+00	
1.7	.000000	20	.500002+00	21	.0000000	22	.000000	23	.000000	24	.000000	
COURSE	- 10000015		E TUDE ****	, .								
1	.00000E+00	2	E TYPE = VOLUME .00000E+00	3	.00000E+00	4	.00000E+00	5	.00000E+00	6	.00000E+00	
7	.00000E+00	8	.00000E+00	9	.10000E+01	10	.10000E+01	11	.10000E+01	12	.10000E+01	
13	.10000E+01	14	.00000E+00 .10000E+01 .00000E+00	15 21	.00000E+00	16	.00000E+00 .00000E+00	17	.00000E+00	18	.00000E+00 .00000E+00	
19	.00000E+00	20	.00000E+00	21	.00000E+00	22	.00000E+00	23	.00000E+00	24	.000000E+00	
			E TYPE = VOLUME .00000E+00			4	.00000E+00	5	.00000E+00	6	.00000E+00	
7	.00000E+00	8	.00000E+00	9	.10000E+01	10	.10000E+01	11	.10000E+01	12	.10000E+01	
			.10000E+01									
19	.00000E+00	∠0	.00000E+00	21	.00000E+00	22	.00000E+00	23	.00000E+00	24	.00000E+00	
SOURCE ID	00000E+00	SOURCE	E TYPE = VOLUME					_				
_				- 3	.00000000000000000000000000000000000000	4	.000000E+00		.00000000000000000000000000000000000000	6	.00000000000000000000000000000000000000	
7	.00000E+00	8	.00000E+00	9	.00000E+00 .10000E+01	10	.00000E+00 .10000E+01	11	.00000E+00	6 12	.00000E+00	
13	.10000E+01	14	.10000E+01	15	.10000E+01 .00000E+00	10 16	.00000E+00	17	.00000E+00	18	.00000E+00	
13	.10000E+01	14	.00000E+00 .10000E+01 .00000E+00	15	.10000E+01 .00000E+00	10 16	.00000E+00	17	.00000E+00	18	.00000E+00	
13 19	.10000E+01 .00000E+00	14 20	.10000E+01 .00000E+00 ** ** Echo	15 21 Park	.10000E+01 .00000E+00 .00000E+00	10 16 22 tation	.00000E+00 .00000E+00	17	.00000E+00	18 24	.00000E+00 .00000E+00	20/10
13 19 *** AERM	.10000E+01 .00000E+00	14 20	.10000E+01 .00000E+00 ** ** Echo	15 21 Park	.10000E+01 .00000E+00 .00000E+00	10 16 22 tation	.00000E+00 .00000E+00	17	.00000E+00	18 24	.00000E+00 .00000E+00 *** 04/:	20/10 23:25 E 10
13 19 *** AERM	.10000E+01 .00000E+00 MOD - VERSION	14 20 07026 *	.10000E+01 .00000E+00 ** ** Echo	15 21 Park	.10000E+01 .00000E+00 .00000E+00	10 16 22 tation	.00000E+00 .00000E+00	17	.00000E+00	18 24	.00000E+00 .00000E+00 *** 04/:	23:25
13 19 *** AERM	.10000E+01 .00000E+00 MOD - VERSION	14 20 07026 *	.10000E+01 .00000E+00 ** *** Echo *** HRA -	15 21 Park - PM D	.10000E+01 .00000E+00 .00000E+00 Lake Rehabili	10 16 22 tation gated)	.00000E+00	17 23	.00000E+00	18 24	.00000E+00 .00000E+00 *** 04/:	23:25
13 19 *** AERM	.10000E+01 .00000E+00 MOD - VERSION	14 20 07026 *	.10000E+01 .00000E+00 ** *** Echo *** HRA -	15 21 Park - PM D	.10000E+01 .00000E+00 .00000E+00 Lake Rehabili	10 16 22 tation gated)	.00000E+00	17 23	.00000E+00	18 24	.00000E+00 .00000E+00 *** 04/:	23:25
13 19 *** AERM **MODELOP	.10000E+01 .00000E+00 MOD - VERSION	14 20 07026 * DI	.10000E+01 .00000E+00 ** *** Echo *** HRA - FAULT ELEV	15 21 Park - PM E	.10000E+01 .00000E+00 .00000E+00 Lake Rehabili iesel (Unmiti	10 16 22 tation gated)	.0000E+00 .0000E+00	17 23	.00000E+00	18 24	.00000E+00 .00000E+00 *** 04/:	23:25
13 19 *** AERM **MODELOP	.10000E+01 .00000E+00 MOD - VERSION	14 20 07026 * DI	.10000E+01 .00000E+00 ** *** Echo *** HRA - FAULT ELEV	15 21 Park - PM E	.10000E+01 .00000E+00 .00000E+00 Lake Rehabili iesel (Unmiti	10 16 22 tation gated)	.0000E+00 .0000E+00	17 23	.00000E+00 .00000E+00	18 24	.0000E+00 .0000E+00 *** 04/: *** 11:: PAGI	23:25
13 19 *** AERM **MODELOP	.10000E+01 .00000E+00 MOD - VERSION	14 20 07026 * DI	.10000E+01 .00000E+00 ** *** Echo *** HRA - FAULT ELEV	15 21 Park - PM E	.10000E+01 .00000E+00 .00000E+00 Lake Rehabili iesel (Unmiti	10 16 22 tation gated)	.0000E+00 .0000E+00	17 23	.00000E+00 .00000E+00	18 24	.0000E+00 .0000E+00 *** 04/: *** 11:: PAGI	23:25
13 19  *** AERM  **MODELOP  CONC  HOUR   SOURCE ID	.10000E+01 .00000E+00 MOD - VERSION TTS: SCALAR	14 20 07026 * DI *: HOUR 	.10000E+01 .00000E+00 ** *** Echo *** HRA - FAULT ELEV SOURCE EMISSION SCALAR E TYPE = VOLUME	15 21 Park - PM E N RATE HOUR 	.10000E+01 .00000E+00 .00000E+00 Lake Rehabili iesel (Unmiti	10 16 22 tation gated) TH VARY	.0000E+00 .0000E+00	17 23 R OF THE HOUR	.0000E+00 .00000E+00 DAY *	18 24 HOUR	.00000E+00 .00000E+00 *** 04/: *** 11:: PAG!	23:25
13 19  *** AERM  **MODELOP  CONC  HOUR   SOURCE ID	.10000E+01 .00000E+00 MOD - VERSION TTS: SCALAR	14 20 07026 * DI *: HOUR 	.10000E+01 .00000E+00 ** *** Echo *** HRA - FAULT ELEV SOURCE EMISSION SCALAR E TYPE = VOLUME	15 21 Park - PM E N RATE HOUR 	.10000E+01 .00000E+00 .00000E+00 Lake Rehabili iesel (Unmiti	10 16 22 tation gated) TH VARY	.0000E+00 .0000E+00	17 23 R OF THE HOUR	.0000E+00 .00000E+00 DAY *	18 24 HOUR	.00000E+00 .00000E+00 *** 04/: *** 11:: PAG!	23:25
13 19 *** AERM **MODELOP' CONC  HOUR SOURCE ID 1 7	.10000E+01 .00000E+00 IOD - VERSION TTS:  SCALAR 0 = L0000019 .00000E+00 .00000E+00	14 20 07026 * DI * : HOUR 	.10000E+01 .00000E+00 ** *** Echo *** HRA - FAULT ELEV  SOURCE EMISSION  SCALAR E TYPE = VOLUME .00000E+00 .00000E+00	Park - PM D N RATE HOUR	.10000E+01 .00000E+00 .00000E+00 Lake Rehabili iesel (Unmiti  SCALARS WHIC  SCALAR  .00000E+00 .10000E+01	10 16 22 tation gated) TH VARY HOUR 	.00000E+00 .00000E+00  FOR EACH HOUF  SCALAR .00000E+00 .10000E+01	17 23 R OF THE HOUR 	.00000E+00 .DAY * SCALAR00000E+00 .10000E+01	18 24 HOUR 	.00000E+00 .00000E+00 .00000E+00 .10000E+00	23:25
13 19  *** AERM  **MODELOP  CONC  HOUR   SOURCE ID  7 13	.10000E+01 .00000E+00 IOD - VERSION TTs:  SCALAR 0 = L0000019 .00000E+00 .00000E+01 .10000E+01	14 20 07026 * DI * :  HOUR 14 14 14 14 14 14 14 14 14 14 14 14 14	.10000E+01 .00000E+00 ** *** Echo *** HRA - FAULT ELEV SOURCE EMISSION SCALAR E TYPE = VOLUME	Park Park PM E N RATE	.10000E+01 .00000E+00 .00000E+00 Lake Rehabili iesel (Unmiti  SCALARS WHIC	10 16 22 tation gated) TH VARY HOUR 	.00000E+00 .00000E+00 FOR EACH HOUF SCALAR .00000E+00 .10000E+01	17 23 R OF THE HOUR 	.00000E+00 .00000E+00 DAY * SCALAR  .00000E+01 .10000E+01	HOUR 6 12 18	.00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+01 .00000E+01	23:25
13 19  *** AERM  **MODELOP  CONC  HOUR   SOURCE ID  7 13	.10000E+01 .00000E+00 IOD - VERSION TTs:  SCALAR 0 = L0000019 .00000E+00 .00000E+01 .10000E+01	14 20 07026 * DI * :  HOUR 14 14 14 14 14 14 14 14 14 14 14 14 14	.10000E+01 .00000E+01 .00000E+01 ** *** Echo *** HRA - FAULT ELEV  SOURCE EMISSION  SCALAR E TYPE = VOLUMM .0000E+00 .0000E+01 .10000E+01	Park Park PM E N RATE	.10000E+01 .00000E+00 .00000E+00 Lake Rehabili iesel (Unmiti  SCALARS WHIC	10 16 22 tation gated) TH VARY HOUR 	.00000E+00 .00000E+00 FOR EACH HOUF SCALAR .00000E+00 .10000E+01	17 23 R OF THE HOUR 	.00000E+00 .00000E+00 DAY * SCALAR  .00000E+01 .10000E+01	HOUR 6 12 18	.00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+01 .00000E+01	23:25
13 19 *** AERM **MODELOPCONC  HOUR 50URCE ID 7 13 19	.10000E+01 .00000E+00 IOD - VERSION TTS: SCALAR 	14 20 07026 * DI * : HOUR	.10000E+01 .00000E+01 .00000E+01 *** *** Echo *** *** HRA - FAULT ELEV  SOURCE EMISSION  SCALAR E TYPE = VOLUME .00000E+00 .00000E+01 .00000E+01	Park - PM E HOUR	.10000E+01 .00000E+00 .00000E+00 .Lake Rehabili iesel (Unmiti  SCALARS WHICE SCALAR00000E+00 .10000E+01 .00000E+00	10 16 22 tation gated) H VARY HOUR 4 10 16 22	.00000E+00 .00000E+00 FOR EACH HOUF SCALAR .00000E+00 .10000E+01 .00000E+00 .00000E+00	17 23 R OF THE HOUR 	.00000E+00 .00000E+00  DAY *  SCALAR00000E+00 .10000E+01 .00000E+00 .00000E+00	HOUR 6 12 18 24	.00000E+00 .00000E+00 .00000E+01 11:: PAGI .00000E+00 .10000E+01 .00000E+00	23:25
13 19 *** AERM **MODELOP CONC  HOUR 17 13 19	.10000E+01 .00000E+00 IOD - VERSION TTS: SCALAR 	14 20 07026 * DI * : HOUR	.10000E+01 .00000E+01 .00000E+01 *** *** Echo *** *** HRA - FAULT ELEV  SOURCE EMISSION  SCALAR E TYPE = VOLUME .00000E+00 .00000E+01 .00000E+01	Park - PM E HOUR	.10000E+01 .00000E+00 .00000E+00 .Lake Rehabili iesel (Unmiti  SCALARS WHICE SCALAR00000E+00 .10000E+01 .00000E+00	10 16 22 tation gated) H VARY HOUR 4 10 16 22	.00000E+00 .00000E+00 FOR EACH HOUF SCALAR .00000E+00 .10000E+01 .00000E+00 .00000E+00	17 23 R OF THE HOUR 	.00000E+00 .00000E+00  DAY *  SCALAR00000E+00 .10000E+01 .00000E+00 .00000E+00	HOUR 6 12 18 24	.00000E+00 .00000E+00 .00000E+01 11:: PAGI .00000E+00 .10000E+01 .00000E+00	23:25
13 19 *** AERM **MODELOP CONC  HOUR 17 13 19	.10000E+01 .00000E+00 IOD - VERSION TTS: SCALAR 	14 20 07026 * DI * : HOUR	.10000E+01 .00000E+01 .00000E+01 *** *** Echo *** *** HRA - FAULT ELEV  SOURCE EMISSION  SCALAR E TYPE = VOLUME .00000E+00 .00000E+01 .00000E+01	Park - PM E HOUR	.10000E+01 .00000E+00 .00000E+00 .Lake Rehabili iesel (Unmiti  SCALARS WHICE SCALAR00000E+00 .10000E+01 .00000E+00	10 16 22 tation gated) H VARY HOUR 4 10 16 22	.00000E+00 .00000E+00 FOR EACH HOUF SCALAR .00000E+00 .10000E+01 .00000E+00 .00000E+00	17 23 R OF THE HOUR 	.00000E+00 .00000E+00  DAY *  SCALAR00000E+00 .10000E+01 .00000E+00 .00000E+00	HOUR 6 12 18 24	.00000E+00 .00000E+00 .00000E+01 11:: PAGI .00000E+00 .10000E+01 .00000E+00 .00000E+00	23:25
13 19 *** AERM **MODELOPCONC  HOUR 50URCE ID 7 13 19	.10000E+01 .00000E+00 IOD - VERSION TTS: SCALAR 	14 20 07026 * DI * : HOUR	.10000E+01 .00000E+01 .00000E+01 *** *** Echo *** *** HRA - FAULT ELEV  SOURCE EMISSION  SCALAR E TYPE = VOLUME .00000E+00 .00000E+01 .00000E+01	Park - PM E HOUR	.10000E+01 .00000E+00 .00000E+00 .Lake Rehabili iesel (Unmiti  SCALARS WHICE SCALAR00000E+00 .10000E+01 .00000E+00	10 16 22 tation gated) H VARY HOUR 4 10 16 22	.00000E+00 .00000E+00 FOR EACH HOUF SCALAR .00000E+00 .10000E+01 .00000E+00 .00000E+00	17 23 R OF THE HOUR 	.00000E+00 .00000E+00  DAY *  SCALAR00000E+00 .10000E+01 .00000E+00 .00000E+00	HOUR 6 12 18 24	.00000E+00 .00000E+00 .00000E+01 11:: PAGI .00000E+00 .10000E+01 .00000E+00 .00000E+00	23:25
13 19 *** AERM **MODELOP CONC  HOUR 17 13 19	.10000E+01 .00000E+00 IOD - VERSION TTS: SCALAR 	14 20 07026 * DI * : HOUR	.10000E+01 .00000E+00 **	Park - PM E HOUR	.10000E+01 .00000E+00 .00000E+00 .Lake Rehabili iesel (Unmiti  SCALARS WHICE SCALAR00000E+00 .10000E+01 .00000E+00	10 16 22 tation gated) H VARY HOUR 4 10 16 22	.00000E+00 .00000E+00 FOR EACH HOUF SCALAR .00000E+00 .10000E+01 .00000E+00 .00000E+00	17 23 R OF THE HOUR 	.00000E+00 .00000E+00  DAY *  SCALAR00000E+00 .10000E+01 .00000E+00 .00000E+00	HOUR 6 12 18 24	.00000E+00 .00000E+00 .00000E+01 11:: PAGI .00000E+00 .10000E+01 .00000E+00 .00000E+00	23:25
13 19 *** AERM ***MODELOP CONC  HOUR 17 13 19 SOURCE ID 17 7 13 19	.10000E+01 .00000E+00 .00000E+00 .0000E+00 .0000E+00 .0000E+00 .10000E+00 .0000E+00 .0000E+00 .0000E+00 .0000E+00 .0000E+00 .0000E+00	14 20 07026 * DI	.10000E+01 .00000E+00 **	15 21  Park - PM F  N RATE  HOUR 15 21  E : 3 9 15 21  E : 3 9 15 21	.10000E+01 .00000E+00 .00000E+00 .00000E+00 Lake Rehabili iesel (Unmiti  SCALARS WHICE  SCALARS WHICE .00000E+00 .100000E+00 .00000E+00 .00000E+00 .100000E+01 .00000E+01 .00000E+01 .00000E+00 .00000E+00 .00000E+00	10 16 22 .tation gated) TH VARY HOUR 	.0000E+00 .0000E+00 FOR EACH HOUF SCALAR .0000E+00 .10000E+01 .0000E+00 .0000E+00 .10000E+01 .0000E+00	17 23 R OF THE HOUR 	DAY *  SCALAR  .0000E+00 .10000E+00 .10000E+00 .10000E+01 .0000E+00 .10000E+01 .0000E+00 .10000E+00 .10000E+00 .10000E+00 .0000E+00 .0000E+00	HOUR 6 12 18 24 6 12 18 24	.00000E+00 .11:: PAGI SCALAR .00000E+00 .10000E+01 .00000E+00 .00000E+00 .10000E+01 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00	23:25
13 19 *** AERM ***MODELOP CONC  HOUR 17 13 19 SOURCE ID 17 7 13 19	.10000E+01 .00000E+00 .00000E+00 .0000E+00 .0000E+00 .0000E+00 .10000E+00 .0000E+00 .0000E+00 .0000E+00 .0000E+00 .0000E+00 .0000E+00	14 20 07026 * DI	.10000E+01 .00000E+00 **	15 21  Park - PM F  N RATE  HOUR 15 21  E : 3 9 15 21  E : 3 9 15 21	.10000E+01 .00000E+00 .00000E+00 .00000E+00 Lake Rehabili iesel (Unmiti  SCALARS WHICE  SCALARS WHICE .00000E+00 .100000E+00 .00000E+00 .00000E+00 .100000E+01 .00000E+01 .00000E+01 .00000E+00 .00000E+00 .00000E+00	10 16 22 .tation gated) TH VARY HOUR 	.0000E+00 .0000E+00 FOR EACH HOUF SCALAR .0000E+00 .10000E+01 .0000E+00 .0000E+00 .10000E+01 .0000E+00	17 23 R OF THE HOUR 	DAY *  SCALAR  .0000E+00 .10000E+00 .10000E+00 .10000E+01 .0000E+00 .10000E+01 .0000E+00 .10000E+00 .10000E+00 .10000E+00 .0000E+00 .0000E+00	HOUR 6 12 18 24 6 12 18 24	.00000E+00 .11:: PAGI SCALAR .00000E+00 .10000E+01 .00000E+00 .00000E+00 .10000E+01 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00	23:25
13 19 *** AERM **MODELOP CONC  HOUR 17 13 19 SOURCE ID 1 7 13 19	.10000E+01 .00000E+00 .00000E+00 .0000E+00 .0000E+00 .0000E+00 .10000E+00 .0000E+00 .0000E+00 .0000E+00 .0000E+00 .0000E+00 .0000E+00	14 20 07026 * DI	.10000E+01 .00000E+01 .00000E+00 *** ECho *** HRA - FAULT ELEV  SOURCE EMISSION  SCALAR 00000E+00 .00000E+00 .10000E+01 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00	15 21  Park - PM F  N RATE  HOUR 15 21  E : 3 9 15 21  E : 3 9 15 21	.10000E+01 .00000E+00 .00000E+00 .00000E+00 Lake Rehabili iesel (Unmiti  SCALARS WHICE  SCALARS WHICE .00000E+00 .100000E+00 .00000E+00 .00000E+00 .100000E+01 .00000E+01 .00000E+01 .00000E+00 .00000E+00 .00000E+00	10 16 22 .tation gated) TH VARY HOUR 	.0000E+00 .0000E+00 FOR EACH HOUF SCALAR .0000E+00 .10000E+01 .0000E+00 .0000E+00 .10000E+01 .0000E+00	17 23 R OF THE HOUR 	DAY *  SCALAR  .0000E+00 .10000E+00 .10000E+00 .10000E+01 .0000E+00 .10000E+01 .0000E+00 .10000E+00 .10000E+00 .10000E+00 .0000E+00 .0000E+00	HOUR 6 12 18 24 6 12 18 24	.00000E+00 .11:: PAGI SCALAR .00000E+00 .10000E+01 .00000E+00 .00000E+00 .10000E+01 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00	23:25
13 19 *** AERM **MODELOP CONC  HOUR 17 13 19 SOURCE ID 1 7 13 19	.10000E+01 .00000E+00 .00000E+00 .0000E+00 .0000E+00 .0000E+00 .10000E+00 .0000E+00 .0000E+00 .0000E+00 .0000E+00 .0000E+00 .0000E+00	14 20 07026 * DI	.10000E+01 .00000E+01 .00000E+00 *** ECho *** HRA - FAULT ELEV  SOURCE EMISSION  SCALAR 00000E+00 .00000E+00 .10000E+01 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00	15 21  Park - PM F  N RATE  HOUR 15 21  E : 3 9 15 21  E : 3 9 15 21	.10000E+01 .00000E+00 .00000E+00 .00000E+00 Lake Rehabili iesel (Unmiti  SCALARS WHICE  SCALARS WHICE .00000E+00 .100000E+00 .00000E+00 .00000E+00 .10000E+01 .00000E+01 .00000E+01 .00000E+01	10 16 22 .tation gated) TH VARY HOUR 	.0000E+00 .0000E+00 FOR EACH HOUF SCALAR .0000E+00 .10000E+01 .0000E+00 .0000E+00 .10000E+01 .0000E+00	17 23 R OF THE HOUR 	DAY *  SCALAR  .0000E+00 .10000E+00 .10000E+00 .10000E+01 .0000E+00 .10000E+01 .0000E+00 .10000E+00 .10000E+00 .10000E+00 .0000E+00 .0000E+00	HOUR 6 12 18 24 6 12 18 24	.00000E+00 .11:: PAGI SCALAR .00000E+00 .10000E+01 .00000E+00 .00000E+00 .10000E+01 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00	23:25
13 19 *** AERM ***MODELOP CONC  HOUR 17 13 19 SOURCE ID 17 7 13 19	.10000E+01 .00000E+00 .00000E+00 .0000E+00 .0000E+00 .0000E+00 .10000E+00 .0000E+00 .0000E+00 .0000E+00 .0000E+00 .0000E+00 .0000E+00	14 20 07026 * DI	.10000E+01 .00000E+01 .00000E+00 **	15 21  Park - PM F  N RATE  HOUR 15 21  E : 3 9 15 21  E : 3 9 15 21	.10000E+01 .00000E+00 .00000E+00 .00000E+00 Lake Rehabili iesel (Unmiti  SCALARS WHICE  SCALARS WHICE .00000E+00 .100000E+00 .00000E+00 .00000E+00 .10000E+01 .00000E+01 .00000E+01 .00000E+01	10 16 22 .tation gated) TH VARY HOUR 	.0000E+00 .0000E+00 FOR EACH HOUF SCALAR .0000E+00 .10000E+01 .0000E+00 .0000E+00 .10000E+01 .0000E+00	17 23 R OF THE HOUR 	DAY *  SCALAR  .0000E+00 .10000E+00 .10000E+00 .10000E+01 .0000E+00 .10000E+01 .0000E+00 .10000E+00 .10000E+00 .10000E+00 .0000E+00 .0000E+00	HOUR 6 12 18 24 6 12 18 24	.00000E+00 .11:: PAGI SCALAR .00000E+00 .10000E+01 .00000E+00 .00000E+00 .10000E+01 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00	23:25
13 19 *** AERM ***MODELOP CONC  HOUR 17 13 19  SOURCE ID 1 7 13 19  SOURCE ID 1 7 13 19	.10000E+01 .00000E+00 IOD - VERSION TTS:  SCALAR 0 = L0000019 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .0000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00	14 20 07026 * DI	.10000E+01 .00000E+01 .00000E+00 ***	15 21 Park - PM F N RATE HOUR 3 3 9 15 21 E : 3 9 15 21	.10000E+01 .00000E+00 .00000E+00 .00000E+00 .10000E+00 .10000E+00 .00000E+00	10 16 22 tation gated) H VARY HOUR 	.00000E+00 .00000E+00 FOR EACH HOUR SCALAR .00000E+00 .10000E+01 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00	17 23 R OF THE HOUR 	DAY *  SCALAR  .0000E+00 .10000E+00 .10000E+00 .10000E+01 .0000E+00 .10000E+00 .10000E+00 .10000E+00 .00000E+00 .00000E+00 .0000E+00	HOUR 6 12 18 24 6 12 18 24 6 12 18 24	.00000E+00 .00000E+00 .00000E+00 .10000E+00 .10000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00	23:25
13 19 *** AERM **MODELOP CONC  HOUR 5OURCE ID 1 7 13 19  SOURCE ID 2 7 13 19  SOURCE ID 1 7 13 19	.10000E+01 .00000E+00 IOD - VERSION TTS:  SCALAR 0 = L0000019 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .0000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00	14 20 07026 * DI	.10000E+01 .00000E+01 .00000E+00 ***	15 21 Park - PM F N RATE HOUR 3 3 9 15 21 E : 3 9 15 21	.10000E+01 .00000E+00 .00000E+00 .00000E+00 .10000E+00 .10000E+00 .00000E+00	10 16 22 tation gated) H VARY HOUR 	.00000E+00 .00000E+00 FOR EACH HOUR SCALAR .00000E+00 .10000E+01 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00	17 23 R OF THE HOUR 	DAY *  SCALAR  .0000E+00 .10000E+00 .10000E+00 .10000E+01 .0000E+00 .10000E+01 .0000E+00 .10000E+01 .0000E+00 .10000E+00 .0000E+00	HOUR 6 12 18 24 6 12 18 24 6 12 18 24	.00000E+00 .00000E+00 .00000E+00 .10000E+00 .10000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00	23:25
13 19 *** AERM ***MODELOP CONC  HOUR 17 13 19  SOURCE ID 1 7 13 19  SOURCE ID 1 7 13 19	.10000E+01 .00000E+00 IOD - VERSION TTS:  SCALAR 0 = L0000019 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .0000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00	14 20 07026 * DI	.10000E+01 .00000E+01 .00000E+00 ***	15 21 Park - PM F N RATE HOUR 3 3 9 15 21 E : 3 9 15 21	.10000E+01 .00000E+00 .00000E+00 .00000E+00 .10000E+00 .10000E+00 .00000E+00	10 16 22 tation gated) H VARY HOUR 	.00000E+00 .00000E+00 FOR EACH HOUR SCALAR .00000E+00 .10000E+01 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00	17 23 R OF THE HOUR 	DAY *  SCALAR  .0000E+00 .10000E+00 .10000E+00 .10000E+01 .0000E+00 .10000E+01 .0000E+00 .10000E+01 .0000E+00 .10000E+00 .0000E+00	HOUR 6 12 18 24 6 12 18 24 6 12 18 24	.00000E+00 .00000E+00 .00000E+00 .10000E+00 .10000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00	23:25
13 19 *** AERM ***MODELOP CONC  HOUR 17 13 19  SOURCE ID 1 7 13 19  SOURCE ID 1 7 13 19	.10000E+01 .00000E+00 IOD - VERSION TTS:  SCALAR 0 = L0000019 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .0000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00	14 20 07026 * DI	.10000E+01 .00000E+01 .00000E+00 ***	15 21 Park - PM F N RATE HOUR 3 3 9 15 21 E : 3 9 15 21	.10000E+01 .00000E+00 .00000E+00 .00000E+00 .10000E+00 .10000E+00 .00000E+00	10 16 22 tation gated) H VARY HOUR 	.00000E+00 .00000E+00 FOR EACH HOUR SCALAR .00000E+00 .10000E+01 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00	17 23 R OF THE HOUR 	DAY *  SCALAR  .0000E+00 .10000E+00 .10000E+00 .10000E+01 .0000E+00 .10000E+01 .0000E+00 .10000E+01 .0000E+00 .10000E+00 .0000E+00	HOUR 6 12 18 24 6 12 18 24 6 12 18 24	.00000E+00 .00000E+00 .00000E+00 .10000E+00 .10000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00	23:25
13 19 *** AERM ***MODELOP CONC  HOUR 17 13 19  SOURCE ID 1 7 13 19  SOURCE ID 1 7 13 19	.10000E+01 .00000E+00 IOD - VERSION TTS:  SCALAR 0 = L0000019 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .0000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00	14 20 07026 * DI	.10000E+01 .00000E+01 .00000E+00 **	15 21 Park - PM F N RATE HOUR 3 3 9 15 21 E : 3 9 15 21	.10000E+01 .00000E+00 .00000E+00 .00000E+00 .10000E+00 .10000E+00 .00000E+00	10 16 22 tation gated) H VARY HOUR 	.00000E+00 .00000E+00 FOR EACH HOUR SCALAR .00000E+00 .10000E+01 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00	17 23 R OF THE HOUR 	DAY *  SCALAR  .0000E+00 .10000E+00 .10000E+00 .10000E+01 .0000E+00 .10000E+01 .0000E+00 .10000E+01 .0000E+00 .10000E+00 .0000E+00	HOUR 6 12 18 24 6 12 18 24 6 12 18 24	.00000E+00 .00000E+00 .00000E+00 .10000E+00 .10000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00	23:25
13 19 *** AERM **MODELOP CONC  HOUR  SOURCE ID 1 7 13 19  SOURCE ID 1 7 13 19  SOURCE ID 1 7 13 19	.10000E+01 .00000E+00 IOD - VERSION ITS:  SCALAR 0 = L0000019 .0000E+00	14 20 07026 * DI	.10000E+01 .00000E+01 .00000E+00 **	15 21 Park F PM E F PM	.10000E+01 .00000E+00	10 16 22 ttation gated) H VARY HOUR 	.00000E+00 .00000E+00 .00000E+00 .00000E+00 .10000E+01 .00000E+00 .10000E+00 .10000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00	17 23 R OF THE HOUR 5 11 17 23 5 11 17 23 5 11 17 23	DAY *  SCALAR00000E+00 .10000E+01 .00000E+01	HOUR 6 12 18 24 6 12 18 24 6 12 18 24 6 12 18 24	.00000E+00 .00000E+00 .00000E+00 .00000E+00 .10000E+00 .10000E+00 .10000E+00 .00000E+00	23:25
13 19 *** AERM **MODELOP CONC  HOUR 5 SOURCE ID 1 7 13 19  SOURCE ID 1 7 13 19  SOURCE ID 1 7 13 19	.10000E+01 .00000E+00 IOD - VERSION ITS:  SCALAR 0 = L0000019 .0000E+00	14 20 07026 * DI	.10000E+01 .00000E+01 .00000E+00 **	15 21 Park F PM E F PM	.10000E+01 .00000E+00	10 16 22 ttation gated) H VARY HOUR 	.00000E+00 .00000E+00 .00000E+00 .00000E+00 .10000E+01 .00000E+00 .10000E+00 .10000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00	17 23 R OF THE HOUR 5 11 17 23 5 11 17 23 5 11 17 23	DAY *  SCALAR00000E+00 .10000E+01 .00000E+01	HOUR 6 12 18 24 6 12 18 24 6 12 18 24 6 12 18 24	.00000E+00 .00000E+00 .00000E+00 .00000E+00 .10000E+00 .10000E+00 .10000E+00 .00000E+00	23:25
13 19 *** AERM ***MODELOP CONC  HOUR SOURCE ID 1 7 13 19  SOURCE ID 2 1 7 13 19  SOURCE ID 1 7 13 19  SOURCE ID 1 7 13 19  SOURCE ID 1 7 13 19	.10000E+01 .00000E+00 .0000E+00	14 20 07026 * DI	.10000E+01 .00000E+01 .00000E+01 *** *** Echo *** HRA - FAULT ELEV  SOURCE EMISSION  SCALAR E TYPE = VOLUME .0000E+00 .10000E+01 .00000E+00 .0000E+00 E TYPE = VOLUME .0000E+01	15 21 Park F PM F P	.10000E+01 .00000E+00 .00000E+00 .00000E+00 .10000E+00 .10000E+00 .00000E+00	10 16 22 tation gated) HH VARY HOUR 	.0000E+00 .0000E+00 .00000E+00 .0000E+00 .10000E+01 .00000E+00 .10000E+01 .00000E+00 .0000E+00	17 23 R OF THE HOUR 5 11 17 23 5 11 17 23 5 11 17 23	DAY *  SCALAR0000E+00 .1000E+01 .0000E+01	HOUR 6 12 18 24 6 12 18 24 6 12 18 24 6 12 18 24 6 12 18 24 6 12 18 24 6 6 12 18 24	.00000E+00 .0000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00	23:25
13 19 *** AERM **MODELOP CONC  HOUR 5 SOURCE ID 1 7 13 19	.10000E+01 .00000E+00 .0000E+00	14 20 07026 * DI	.10000E+01 .00000E+01 .00000E+00 **	15 21 Park PM E F F F F F F F F F F F F F F F F F F	.10000E+01 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .10000E+00 .10000E+00 .10000E+01 .00000E+00 .10000E+01 .00000E+00 .10000E+01 .00000E+00 .10000E+01 .00000E+00	100 16 22 tation gated) H VARY HOUR	.00000E+00 .00000E+00 .00000E+00 .00000E+00 .10000E+01	17 23 R OF THE HOUR 5 11 17 23 5 11 17 23 5 11 17 23	DAY *  SCALAR  .00000E+00 .10000E+01 .00000E+01 .00000E+01 .00000E+00 .10000E+01 .00000E+00 .00000E+00 .10000E+01 .00000E+01	HOUR 6 12 18 24 6 12 18 24 6 12 18 24 6 12 18 24 6 12 18 24 18 18 18 18 18 18 18 18 18 18 18 18 18	.00000E+00 .10000E+00 .10000E+00 .10000E+00 .10000E+00 .10000E+00 .10000E+00 .10000E+00 .00000E+00 .10000E+00 .00000E+00	23:25
13 19 *** AERM **MODELOP CONC  HOUR  SOURCE ID 1 7 13 19	.10000E+01 .00000E+00 .0000E+00	14 20 07026 **  DI	.10000E+01 .00000E+01 .00000E+00 **	15 21 Park F PM F F PM F F PM F PM F PM F PM F PM	.10000E+01 .0000E+00 .0000E+00 .0000E+00 .0000E+00 .0000E+00 .0000E+01	100 16 22 tation gated) H VARY HOUR	.0000E+00 .0000E+00 .00000E+00 .00000E+00 .10000E+01 .00000E+00 .10000E+00 .10000E+00 .0000E+00 .0000E+00 .0000E+00 .0000E+00 .10000E+00 .0000E+00 .0000E+00 .0000E+00 .0000E+00 .0000E+00 .0000E+00 .0000E+00 .0000E+00 .0000E+00 .0000E+00	17 23 R OF THE HOUR 5 11 17 23 5 11 17 23 5 11 17 23	DAY *  SCALAR  .00000E+00 .10000E+01 .00000E+01 .00000E+01 .00000E+00 .10000E+01 .00000E+00 .00000E+00 .10000E+01 .00000E+01	HOUR 6 12 18 24 6 12 18 24 6 12 18 24 6 12 18 24 6 12 18 24 6 12 18 24	.00000E+00	23:25 E 10
13 19 *** AERM **MODELOP CONC  HOUR 5 SOURCE ID 1 7 13 19	.10000E+01 .00000E+00 .0000E+00	14 20 07026 **  DI	.10000E+01 .00000E+01 .00000E+00 ***	15 21 Park HOUR	.10000E+01 .00000E+00 .00000E+00 .00000E+00 .Eake Rehabili iesel (Unmiti  SCALARS WHICE  SCALARS WHICE  .00000E+00 .10000E+01 .00000E+00 .0000E+00	10 16 22 tation gated) HH VARY HOUR 	.0000E+00 .0000E+00 .00000E+00 .00000E+00 .10000E+01 .00000E+00 .10000E+00 .10000E+00 .0000E+00 .0000E+00 .0000E+00 .0000E+00 .10000E+00 .0000E+00 .0000E+00 .0000E+00 .0000E+00 .0000E+00 .0000E+00 .0000E+00 .0000E+00 .0000E+00 .0000E+00	17 23 R OF THE HOUR 5 11 17 23 5 11 17 23 5 11 17 23	DAY *  SCALAR  .00000E+00 .10000E+01 .00000E+01 .00000E+01 .00000E+00 .10000E+01 .00000E+00 .00000E+00 .10000E+01 .00000E+01	HOUR 6 12 18 24 6 12 18 24 6 12 18 24 6 12 18 24	.00000E+00	23:25 E 10
13 19 *** AERM **MODELOP CONC  HOUR 13 19  SOURCE ID 1 7 13 19  *** AERM **MODELOP	.10000E+01 .00000E+00 .0000E+00 .000	14 20 07026 * DD	.10000E+01 .00000E+01 .00000E+00 *** *** Echo *** HRA - FAULT ELEV  SOURCE EMISSION  SCALAR E TYPE = VOLUME .00000E+00 .10000E+00 .10000E+01 .00000E+00 .10000E+01 .00000E+00 .10000E+01 .00000E+01 .0000E+01	15 21 Park HOUR	.10000E+01 .0000E+00 .0000E+00 .0000E+00 .0000E+00 .0000E+00 .0000E+01	10 16 22 tation gated) HH VARY HOUR 	.0000E+00 .0000E+00 .00000E+00 .00000E+00 .10000E+01 .00000E+00 .10000E+00 .10000E+00 .0000E+00 .0000E+00 .0000E+00 .0000E+00 .10000E+00 .0000E+00 .0000E+00 .0000E+00 .0000E+00 .0000E+00 .0000E+00 .0000E+00 .0000E+00 .0000E+00 .0000E+00	17 23 R OF THE HOUR 5 11 17 23 5 11 17 23 5 11 17 23	DAY *  SCALAR  .00000E+00 .10000E+01 .00000E+01 .00000E+01 .00000E+00 .10000E+01 .00000E+00 .00000E+00 .10000E+01 .00000E+01	HOUR 6 12 18 24 6 12 18 24 6 12 18 24 6 12 18 24	.00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .10000E+01 .00000E+00 .10000E+01 .00000E+00 .10000E+00 .00000E+00 .10000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .0000E+00	23:25 E 10
13 19 *** AERM **MODELOP CONC  HOUR  SOURCE ID 1 7 13 19  *** AERM  *** AERM	.10000E+01 .00000E+00 .0000E+00 .000	14 20 07026 * DD	.10000E+01 .00000E+01 .00000E+00 ***	15 21 Park HOUR	.10000E+01 .00000E+00 .00000E+00 .00000E+00 .Eake Rehabili iesel (Unmiti  SCALARS WHICE  SCALARS WHICE  .00000E+00 .10000E+01 .00000E+00 .0000E+00	10 16 22 tation gated) HH VARY HOUR 	.0000E+00 .0000E+00 .00000E+00 .00000E+00 .10000E+01 .00000E+00 .10000E+00 .10000E+00 .0000E+00 .0000E+00 .0000E+00 .0000E+00 .10000E+00 .0000E+00 .0000E+00 .0000E+00 .0000E+00 .0000E+00 .0000E+00 .0000E+00 .0000E+00 .0000E+00 .0000E+00	17 23 R OF THE HOUR 5 11 17 23 5 11 17 23 5 11 17 23	DAY *  SCALAR  .00000E+00 .10000E+01 .00000E+01	HOUR 6 12 18 24 6 12 18 24 6 12 18 24 6 12 18 24	.00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .10000E+01 .00000E+00 .10000E+01 .00000E+00 .10000E+00 .00000E+00 .10000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .0000E+00	23:25 E 10

 $<sup>\</sup>star$  source emission rate scalars which vary for each hour of the day  $\star$ 

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1 7 13	.00000E+00 .00000E+00 .10000E+01	2 8 14	E TYPE = VOLUM .00000E+00 .00000E+00 .10000E+01 .00000E+00	3 9 15	.00000E+00	16	.00000E+00	17	.00000E+00 .10000E+01 .00000E+00	18	.00000E+00 .10000E+01 .00000E+00 .00000E+00
1 7 13	.00000E+00 .00000E+00 .10000E+01	2 8 14	E TYPE = VOLUM! .00000E+00 .00000E+00 .10000E+01 .00000E+00	3 9 15		10 16	.10000E+01 .00000E+00	11 17	.00000E+00	12 18	
1 7	.00000E+00	2	E TYPE = VOLUM .00000E+00 .00000E+00 .10000E+01 .00000E+00	3	.00000E+00 .10000E+01 .00000E+00	4 10 16 22	.00000E+00 .10000E+01 .00000E+00	5 11 17 23	.00000E+00 .10000E+01 .00000E+00	6 12 18 24	.00000E+00 .10000E+01 .00000E+00 .00000E+00
1		2	E TYPE = VOLUM .00000E+00 .00000E+00 .10000E+01 .00000E+00	3	.00000E+00 .10000E+01 .00000E+00	4 10 16 22	.00000E+00 .10000E+01 .00000E+00	11 17	.00000E+00 .10000E+01 .00000E+00	12 18	.00000E+00 .10000E+01 .00000E+00 .00000E+00
1 7 13 19	.00000E+00 .00000E+00 .10000E+01 .00000E+00	2 8 14 20	E TYPE = VOLUM .00000E+00 .00000E+00 .10000E+01 .00000E+00	3 9 15 21	.00000E+00 .00000E+00	16 22	.10000E+01	17	.00000E+00 .10000E+01 .00000E+00	12 18 24	.00000E+00 .10000E+01 .00000E+00 .00000E+00
**MODELOPI			*** HRA		Lake Rehabili iesel (Unmiti						** 04/20/10 ** 11:23:25 PAGE 12
CONC			FAULT ELEV SOURCE EMISSION	N RATE	SCALARS WHIC	H VARY	FOR EACH HOU	R OF THE	DAY *		
HOUR			SCALAR						SCALAR		
1 7	.00000E+00	2	E TYPE = VOLUM .00000E+00 .00000E+00 .10000E+01 .00000E+00	3	. 10000E+01	10	. IOOOOE+01	11	.00000E+00 .10000E+01 .00000E+00 .00000E+00	12	.10000E+01
1 7 13	.00000E+00 .00000E+00 .10000E+01	2 8 14	E TYPE = VOLUM .00000E+00 .00000E+00 .10000E+01	3 9 15	.00000E+00	16	.00000E+00	11 17	.00000E+00 .10000E+01 .00000E+00	12 18	.00000E+00 .10000E+01 .0000E+00 .00000E+00
1 7 13	.00000E+00 .00000E+00 .10000E+01	2 8 14	E TYPE = VOLUM: .00000E+00 .00000E+00 .10000E+01	3 9 15	.00000E+00	16		11 17		12 18	
1 7 13		2 8 14	E TYPE = VOLUM .00000E+00 .00000E+00 .10000E+01	3 9 15	.00000E+01	4 10 16 22	.00000E+00 .10000E+01 .00000E+00	5 11 17 23	.00000E+00 .10000E+01 .00000E+00	12 18	.00000E+00 .10000E+01 .00000E+00 .00000E+00
SOURCE ID 1 7 13 19	= L0000033; .00000E+00 .00000E+00 .10000E+01 .00000E+00	SOURCE 2 8 14 20	E TYPE = VOLUM .00000E+00 .00000E+00 .10000E+01 .00000E+00	E : 3 9 15 21	.00000E+00 .10000E+01 .00000E+00	4 10 16 22	.00000E+00 .10000E+01 .00000E+00	5 11 17 23	.00000E+00 .10000E+01 .00000E+00	6 12 18 24	.00000E+00 .10000E+01 .00000E+00
*** AERMC	DD - VERSION	07026 **			Lake Rehabili iesel (Unmiti					*	** 04/20/10 ** 11:23:25 PAGE 13
CONC			FAULT ELEV								11102 13
		* 5	SOURCE EMISSION	N RATE	SCALARS WHIC	H VARY	FOR EACH HOU	R OF THE	DAY *		
			SCALAR								SCALAR
SOURCE ID 1 7 13 19	= L0000034 ; .00000E+00 .00000E+01 .00000E+00	SOURCE 2 8 14 20	E TYPE = VOLUM: .00000E+00 .0000E+00 .10000E+01 .00000E+00	E : 3 9 15 21	.00000E+00 .10000E+01 .00000E+00	4 10 16 22	.00000E+00 .10000E+01 .00000E+00	5 11 17 23	.00000E+00 .10000E+01 .00000E+00	6 12 18 24	.00000E+00 .10000E+01 .0000E+00 .00000E+00
1 7 13	.00000E+00 .00000E+00 .10000E+01	2 8 14	E TYPE = VOLUM .00000E+00 .00000E+00 .10000E+01 .00000E+00	3 9 15	.10000E+01	10 16	.10000E+01	11 17	.00000E+00	12 18	.00000E+00 .10000E+01 .0000E+00
1	= L0000036 ; .00000E+00 .00000E+00	2	E TYPE = VOLUM .00000E+00 .00000E+00	3	.00000E+00 .10000E+01	4 10	.00000E+00 .10000E+01	5 11	.00000E+00 .10000E+01	6 12	.00000E+00 .10000E+01

13 .1 19 .0	0000E+01 0000E+00	14 20	.10000E+01	15 21	.00000E+00	16 22	.00000E+00	17 23	.00000E+00	18 24	.00000E+0	10
1 .0 7 .0 13 .1	0000E+00 0000E+00 0000E+01	2 8 14	TYPE = VOLUME .00000E+00 .00000E+00 .10000E+01 .00000E+00	3 9 15	.00000E+00	16	.00000E+00	17	.00000E+00	18	.00000E+0	00
COURGE ID -	T 0000020 ·	COURGE	C TYPE = VOLUME .00000E+00 .00000E+00 .10000E+01 .00000E+00									
			* *** Echo	Park		ation		23	.00000E+00		***	04/20/10 11:23:25
**MODELOPTs:		DF	AULT ELEV	· PM D	riesei (Onmicig	aced)						PAGE 14
		* S	SOURCE EMISSION	I RATE	SCALARS WHICE	VARY	FOR EACH HOUR	R OF THE	DAY *			
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	
SOURCE ID =	T.0000039 ;	SOURCE	TYPE = VOLUME	: :								
1 0	0000E+00	2	00000E+00	3	.00000E+00	4	.00000E+00	5 11	.00000E+00	6 12	.00000E+0	00
13 .1	0000E+01	14	.00000E+00 .10000E+01 .00000E+00	15 21	.00000E+00	16	.00000E+00	17	.00000E+00	18	.00000E+0	00
19 .0	0004400	20	.000002+00	21	.000000	22	.000000	23	.000000	24	.000000	,,,
SOURCE ID = 1 .0	L0000040 ; 0000E+00	SOURCE 2	TYPE = VOLUME	3	.00000E+00	4	.00000E+00	5	.00000E+00	6	.00000E+0	10
7 .0 13 .1	0000E+00 0000E+01	8 14	.00000E+00 .00000E+00 .10000E+01 .00000E+00	9 15	.10000E+01 .00000E+00	10 16	.10000E+01 .00000E+00	11 17	.10000E+01 .00000E+00	12 18	.10000E+0	)1 )0
19 .0	0000E+00	20	.00000E+00	21	.00000E+00	22	.00000E+00	23	.00000E+00	24	.00000E+0	00
SOURCE ID =	L0000041 ;	SOURCE	TYPE = VOLUME	: :								
1 .0 7 .0	0000E+00 0000E+00	2 8	.00000E+00	3 9	.00000E+00 .10000E+01	4 10	.00000E+00 .10000E+01	5 11	.00000E+00 .10000E+01	6 12	.00000E+0	)0 )1
13 .1 19 .0	0000E+01 0000E+00	14 20	.00000E+00 .00000E+00 .10000E+01 .00000E+00	15 21	.00000E+00	16 22	.00000E+00	17 23	.00000E+00	18 24	.00000E+0	) () ) ()
SOURCE ID = 1	L0000042 ; 0000E+00	SOURCE 2	TYPE = VOLUME .00000E+00	3	.00000E+00	4	.00000E+00	5	.00000E+00	6	.00000E+0	00
7 .0	0000E+00	8	.00000E+00 .10000E+01	9	.10000E+01	10	.10000E+01	11	.10000E+01	12	.10000E+0	)1
19 .0	0000E+00	20	.00000E+00	21	.00000E+00	22	.00000E+00	23	.00000E+00	24	.00000E+0	00
SOURCE ID = 1	L0000043 ;	SOURCE	TYPE = VOLUME	: :								
1 .0 7 .0	0000E+00 0000E+00	2 8	.00000E+00 .00000E+00	3 9	.00000E+00 .10000E+01	4 10	.00000E+00 .10000E+01	5 11	.00000E+00 .10000E+01	6 12	.00000E+0	)0 )1
13 .1	0000E+01	14	.10000E+01 .00000E+00	15	.00000E+00	16	.00000E+00	17	.00000E+00	18	.00000E+0	00
			* *** Echo	Park	Lake Rehabilit	ation						04/20/10
**MODELOPTs:			*** HRA -	- PM D	piesel (Unmitio	rated)						11:23:25 PAGE 15
CONC			SOURCE EMISSION	I RATE	SCALARS WHICE	VARY	FOR EACH HOUR	R OF THE	DAY *			
HOUR							SCALAR			HOUR	SCALAR	
SOURCE ID =	L0000044 ;	SOURCE	TYPE = VOLUME	: :	000000-00	А	00000=-00	r	000000-00	_	000000	10
7 .0	0000E+00	8	.00000E+00 .00000E+00	9	.10000E+01	10	.10000E+01	11	.10000E+01	12	.10000E+0	01
19 .0	0000E+01	20	.10000E+01 .00000E+00	21	.00000E+00	22	.00000E+00	23	.00000E+00	24	.00000E+0	00
COURGE ID -	T 000004E .	COLIDGE	TYPE - WOLLIME	, .								
1 .0	0000E+00	2	.00000E+00	3	.00000E+00	4	.00000E+00	5	.00000E+00	6	.00000E+0	00
13 .1	0000E+00	14	TYPE = VOLUME .00000E+00 .00000E+00 .10000E+01 .00000E+00	15	.10000E+01	16	.10000E+01	17	.10000E+01	18	.10000E+0	10
19 .0	0000E+00	20	.00000E+00	21	.00000E+00	22	.00000E+00	23	.00000E+00	24	.00000E+0	10
SOURCE ID =	L0000046 ;	SOURCE	TYPE = VOLUME	:	0000000000	4	000000-00	-	0000000000	_	00000=	10
7 .0	0000E+00	8	.00000E+00 .00000E+00 .10000E+01 .00000E+00	9	.10000E+00	10	.10000E+00	11	.10000E+00	12	.10000E+0	)1
13 .1 19 .0	0000E+01	20	.10000E+01	21	.00000E+00	22	.00000E+00	23	.00000E+00	24	.00000E+0	00
SOURCE ID -	T.0000047 ·	SULLEGE	TYPE = VOLUME									
1 .0	0000E+00	2	.00000E+00	3	.00000E+00	4	.00000E+00	5	.00000E+00	6	.00000E+0	00
13 .1	0000E+01	14	.00000E+00 .00000E+00 .10000E+01 .00000E+00	15	.00000E+01	16	.00000E+00	17	.00000E+00	18	.10000E+(	00
19 .0	UUUUE+UU	∠U	.00000E+00	21	.UUUUUE+UU	22	. OUUUUE+UU	25	.uuuuuE+UU	24	.00000E+0	, ,
SOURCE ID =	L0000048 ;	SOURCE	TYPE = VOLUME	: :	00000=00	4	00000=+00	5	000005+00	e	00000	10
7 .0	0000E+00	8	.00000E+00	9	.10000E+01	10	.10000E+01	11	.10000E+01	12	.10000E+0	)1
13 .1 19 .0	0000E+01	14 20	TYPE = VOLUME .00000E+00 .00000E+00 .10000E+01 .00000E+00	15 21	.00000E+00	16 22	.00000E+00	17 23	.00000E+00	18 24	.00000E+0	00
			* *** Echo	Park	Lake Rehabilit	ation					***	04/20/10
**MODELOPTs: CONC			*** HRA -	· PM D	iesel (Unmitig	ated)						11:23:25 PAGE 16

 $^{\star}$  source emission rate scalars which vary for each hour of the day  $^{\star}$ 

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	
SOURCE ID	= L0000049	; SOURCE	TYPE = VOLUI	ME :	00000E+00	4	00000E+00	5	00000E+00	6	00000E+	nn
7	.00000E+00	8	.00000E+00	9	.10000E+01	10	.10000E+01	11	.10000E+01	12	.10000E+	01
13	.10000E+01	14	.10000E+01	15 21	.00000E+00	16 22	.00000E+00	17	.00000E+00 .10000E+01 .00000E+00 .00000E+00	18	.00000E+	00 nn
17	.000000100	20	.00000100	21	.00000100	22	.000000100	23	.00000100	21	.000001	50
SOURCE ID	= L0000050	; SOURCE	TYPE = VOLUI	ME :								
1 7	.00000E+00	2	.00000E+00	3	.00000E+00	4	.00000E+00	5 11	.00000E+00	12	.00000E+	00
13	.10000E+01	14	.10000E+01	15	.00000E+00	16	.00000E+00	17	.10000E+01 .00000E+00 .00000E+00	18	.00000E+	00
19	.00000E+00	20	.00000E+00	21	.00000E+00	22	.00000E+00	23	.00000E+00	24	.00000E+	00
SOURCE ID	= L0000051	; SOURCE	TYPE = VOLUI	ME :								
1	.00000E+00	2	.00000E+00	3	.00000E+00	4	.00000E+00	5	.00000E+00 .10000E+01	6	.00000E+	00
7 13	.00000E+00	8 14	.00000E+00	9 15	.10000E+01	10 16	.10000E+01	11 17	.10000E+01 .00000E+00	12 18	.10000E+	D1 D0
19	.00000E+00	20	.00000E+00	21	.00000E+00	22	.00000E+00	23	.00000E+00	24	.00000E+	00
COURGE ID	- 10000052	· compa	TYPE = VOLU	MTP .								
1	.00000E+00	2	.00000E+00	3	.00000E+00	4	.00000E+00	5	.00000E+00	6	.00000E+	00
	.00000E+00		.00000E+00						.10000E+01 .00000E+00			
									.00000E+00			
201man rn	* 0000053											
SOURCE ID	= LUU00053	; SOURCE 2	.00000E+00	мE :	.00000E+00	4	.00000E+00	5	.00000E+00	6	.00000E+	00
7	.00000E+00	8	.00000E+00 .10000E+01	9	.10000E+01	10	.10000E+01	11	.00000E+00 .10000E+01 .00000E+00	12	.10000E+	01
13	.00000E+01	20	.00000E+01	21	.00000E+00	22	.00000E+00	23	.00000E+00	24	.00000E+	00
*** AEPMC	OD - VERSION	07026 **	* *** Ech	n Dark	Lake Rehabili	tation				*	**	04/20/10
**MODELOPT		0.020			iesel (Unmiti						**	11:23:25 PAGE 17
CONC		DF	AULT ELEV									PAGE 17
		* 5	SOURCE EMISSI	ON RATE	SCALARS WHIC	H VARY	FOR EACH HOU	IR OF THE	DAY *			
HOUR		HOUR										
	SCALAR		SCALAR		SCALAR		SCALAR	HOUR	SCALAR		SCALAR	
SOURCE ID	= L0000054 .00000E+00	; SOURCE 2	.00000E+00	ME :	.00000E+00	4	.00000E+00	5	.00000E+00	6	.00000E+	00
7	.00000E+00	8	.00000E+00	9	.10000E+01	10	.10000E+01	11	.10000E+01	12	.10000E+	01
19	.00000E+01	20	.00000E+00	21	.00000E+00	22	.00000E+00	23	.00000E+00 .10000E+01 .00000E+00	24	.00000E+	00
SOURCE ID	= L0000055	; SOURCE	TYPE = VOLUI	ME :	.00000E+00	4	.00000E+00	5	.00000E+00	6	.00000E+	00
7 13	.00000E+00	8 14	.00000E+00 .10000E+01	9 15	.10000E+01 .00000E+00	10 16	.10000E+01	11 17	.00000E+00 .10000E+01 .00000E+00	12 18	.10000E+	01 00
19	.00000E+00	20	.00000E+00	21	.00000E+00	22	.00000E+00	23	.00000E+00			00
*** AERMO					Lake Rehabili iesel (Unmiti					*		04/20/10 11:23:25
**MODELOPT			AULT ELEV		(	, , ,						PAGE 18
CONC		DE	AUDI EDEA									
					ISCRETE CARTE							
				(X-COOR	D, Y-COORD, Z (MET		HILL, ZFLAG)					
( 3836	661.0, 37713	29.5,	0.0,	0.0,	0.0);		( 383792.6,	3770989.	2, 0.0,		0.0,	0.0);
( 3836	667.4, 37705	37.2, 52.0	0.0,	0.0,	0.0);		( 382752.0, ( 382852 n	3769952. 3769952	2, 0.0, 0, 0.0, 0, 0.0, 0, 0.0, 0, 0.0,		0.0,	0.0);
( 3829	902.0, 37699	52.0,	0.0,	0.0,	0.0);		( 382952.0,	3769952.	0, 0.0,		0.0,	0.0);
( 3830	002.0, 37699 102.0, 37699	52.0, 52.0	0.0,	0.0,	0.0);		( 383052.0, ( 383152.0,	3769952.	0, 0.0, 0, 0.0,		0.0, 0.0,	0.0);
( 3832	202.0, 37699	52.0,	0.0,	0.0,	0.0);		( 383252.0,	3769952.	0, 0.0,		0.0,	0.0);
	302.0, 37699 402.0, 37699		0.0,	0.0,	0.0);		( 383352.0, ( 383452.0,				0.0, 0.0,	0.0);
	502.0, 37699		0.0,	0.0,	0.0);		( 383552.0,				0.0,	0.0);
	602.0, 37699		0.0,	0.0,	0.0);		( 383652.0,				0.0,	0.0);
( 3838	702.0, 37699 802.0, 37699	52.0,	0.0,	0.0,	0.0);		( 383752.0, ( 383852.0,	3769952.	0. 0.0.		0.0, 0.0,	0.0);
( 3839	902.0, 37699	52.0,	0.0,	0.0,	0.0);		( 383952.0,	3769952.	0, 0.0,		0.0,	0.0);
	002.0, 37699 102.0, 37699		0.0,	0.0,	0.0);		( 384052.0, ( 384152.0,		υ, υ.υ,		0.0,	0.0);
( 3842	202.0, 37699	52.0,	0.0,	0.0,	0.0);		( 384252.0,	3769952.	0, 0.0,		0.0,	0.0);
	302.0, 37699 402.0, 37699		0.0,	0.0,	0.0);		( 384352.0, ( 384452.0,				0.0, 0.0,	0.0);
( 3845	502.0, 37699	52.0,	0.0,	0.0,	0.0);		( 384552.0,	3769952.	0, 0.0,		0.0,	0.0);
	602.0, 37699 702.0, 37699		0.0,	0.0, 0.0,	0.0);		( 384652.0, ( 382752.0,	3769952. 3770002	0, 0.0,		0.0, 0.0,	0.0);
( 3828	802.0, 37700	02.0,	0.0,	0.0,	0.0);		( 382852.0,	3770002.	0, 0.0,		0.0,	0.0);
( 3830	902.0, 37700 002.0, 37700	02.0,	0.0,	0.0, 0.0,	0.0);		( 382952.0, ( 383052.0,		0, 0.0, 0, 0.0,		0.0, 0.0,	0.0);
( 3831	102.0, 37700	02.0,	0.0,	0.0,	0.0);		( 383152.0,	3770002.	0, 0.0,		0.0,	0.0);
	202.0, 37700 302.0, 37700		0.0,	0.0,	0.0);		( 383252.0, ( 383352.0,				0.0,	0.0);
( 3834	402.0, 37700	02.0,	0.0,	0.0,	0.0);		( 383452.0,	3770002.	0, 0.0,		0.0,	0.0);
( 3835	502.0, 37700 602.0, 37700	∪2.0, 02.0,	0.0,	0.0,	0.0);		( 383552.0, ( 383652.0,	3770002. 3770002	0, 0.0, 0, 0.0,		0.0, 0.0,	0.0);
( 3837	702.0, 37700	02.0,	0.0,	0.0,	0.0);		( 383752.0,	3770002.	0, 0.0,		0.0,	0.0);
	802.0, 37700 902.0, 37700		0.0,	0.0,	0.0);		( 383852.0, ( 383952.0,				0.0, 0.0,	0.0);
( 3840	002.0, 37700	02.0,	0.0,	0.0,	0.0);		( 384052.0,	3770002.	0, 0.0,		0.0,	0.0);
	102.0, 37700 202.0, 37700		0.0,	0.0, 0.0,	0.0);		( 384152.0, ( 384252.0,				0.0, 0.0,	0.0);
	302.0, 37700		0.0,	0.0,	0.0);		( 384352.0,				0.0,	0.0);

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*** Echo Park Lake Rehabilitation

*** HRA - PM Diesel (Unmitigated)
                                                                                                                                                                                                                                                                   04/20/10
                                                                                                                                                                                                                                                                   11:23:25
**MODELOPTs:
                                                                                                                                                                                                                                                                   PAGE 19
                                                           DEAULT ELEV
                                                                                               *** DISCRETE CARTESIAN RECEPTORS
                                                                                          (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)
                                                                                                                                                         383152.0, 3770052.0,
383252.0, 3770052.0,
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383202.0, 3770052.0,
383302.0, 3770052.0,
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             383002.0,
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            383002.0, 3770102.0, 383102.0, 3770102.0, 383202.0, 3770102.0, 383302.0, 3770102.0, 383402.0, 3770102.0, 383502.0, 3770102.0,
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             383602.0.
                                 3770102.0.
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            383302.0, 3770152.0,
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                                                                       *** Echo Park Lake Rehabilitation

**Diesel (Unmitigated)
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          AERMOD - VERSION 07026
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                                                                           *** HRA - PM Diesel (Unmitigated)
                                                                                                                                                                                                                                                                   11:23:25
**MODELOPTs:
                                                           DFAULT ELEV
                                                                                               *** DISCRETE CARTESIAN RECEPTORS ***
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*** AERMOD - VERSION 07026 ***
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*** Echo Park Lake Rehabilitation
*** HRA - PM Diesel (Unmitigated)
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*** AERMOD - VERSION 07026 ***
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*** Echo Park Lake Rehabilitation

*** HRA - PM Diesel (Unmitigated)
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                                                       DFAULT ELEV
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*** Echo Park Lake Rehabilitation
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*** AERMOD - VERSION 07026 ***
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*** HRA - PM Diesel (Unmitigated)
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**MODELOPTs:
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**MODELOPTs:
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                                                                                           DFAULT ELEV
                                                                                                                                           *** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
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*** AERMOD - VERSION 07026 ***
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**MODELOPTs:
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	(	*** DISCRETE CARTES: X-COORD, Y-COORD, ZE: (METE)	IAN RECEPTORS *** LEV, ZHILL, ZFLAG) RS)			
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*** AERMOD - VERSION 07026 **MODELOPTs: CONC	*** *** Echo *** HRA DFAULT ELEV	Park Lake Rehabilita - PM Diesel (Unmitiga	ation ated)		***	04/20/10 11:23:25 PAGE 26
		*** DISCRETE CARTES: X-COORD, Y-COORD, ZE: (METE)	LEV, ZHILL, ZFLAG)			
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AERMOD - VERSION 07026 ***
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*** Echo Park Lake Rehabilitation

*** HRA - PM Diesel (Unmitigated)
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CONC
                                                                                                             DFAULT ELEV
                                                                                                                                                                     *** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)
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( 383452.0, 3771102.0,
( 383552.0, 3771102.0,
                ( 383302.0, 3771102.0,
( 383402.0, 3771102.0,
( 383502.0, 3771102.0,
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                        384052.0, 3771102.0,
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382802.0, 3771152.0,
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*** Echo Park Lake Rehabilitation
*** HRA - PM Diesel (Unmitigated)
                   ( 384302.0, 3771202.0,
( 384402.0, 3771202.0,
( 384502.0, 3771202.0,
AERMOD - VERSION 07026 ***
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 **MODELOPTs:
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                                                                                                             DFAULT ELEV
                                                                                                                                                                     *** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)
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( 382752.0, 3771252.0,
( 382852.0, 3771252.0,
                ( 384602.0, 3771202.0,
( 384702.0, 3771202.0,
( 382802.0, 3771252.0,
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                           383252.0.
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383002.0, 3771352.0,
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( 382952.0, 3771352.0,
( 383052.0, 3771352.0,
( 383152.0, 3771352.0,
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*** AERMOD - VERSION 07026 ***
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*** Echo Park Lake Rehabilitation
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                                                                                                                                                                        *** HRA - PM Diesel (Unmitigated)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               11:23:25
**MODELOPTs:
                                                                                                                                     DFAULT ELEV
                                                                                                                                                                                                                    *** DISCRETE CARTESIAN RECEPTORS ***
                                                                                                                                                                                                         (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                                                                                                                                                                                                                                                      (METERS)
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383452.0, 3771352.0,
383552.0, 3771352.0,
383652.0, 3771352.0,
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383602.0, 3771352.0,
383702.0, 3771352.0,
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382802.0, 3771402.0,
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*** AERMOD - VERSION 07026
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                                                                                                                                                                                          Echo Park Lake Rehabilitation
                                                                                                                                                                        *** HRA - PM Diesel (Unmitigated)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               11:23:25
**MODELOPTs:
                                                                                                                                    DFAULT ELEV
                                                                                                                                                                                                                    *** DISCRETE CARTESIAN RECEPTORS ***
                                                                                                                                                                                                          (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
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*** Echo Park Lake Rehabilitation

*** HRA - PM Diesel (Unmitigated)
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384202.0, 3771652.0,
384302.0, 3771652.0,
384402.0, 3771652.0,
                                 384052.0.
                                                                                   3771652.0.
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                                 384452.0, 3771652.0,
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                                384552.0, 3771652.0,
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                          ( 384652.0, 3771652.0,
( 382752.0, 3771652.0,
( 382752.0, 3771702.0,
AERMOD - VERSION 07026 ***
                                                                                                                                                                             0.0,
                                                                                                                                                                                                                                                                                                0.0);
                                                                                                                                                                                                                                                                                                                                                                                     384702.0, 3771652.0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0.0);
                                                                                                                                                                           0.0, 0.0, 0.0);

*** Echo Park Lake Rehabilitation

*** HRA - PM Diesel (Unmitigated)
                                                                                                                                                                                                                                                                                                                                                                                    382802.0, 3771702.0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0.0);
04/20/10
                                                                                                                                               DFAULT ELEV
                                                                                                                                                                                                                                       *** DISCRETE CARTESIAN RECEPTORS ***
                                                                                                                                                                                                                           (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)
                                                                                                                                                                                                                                                                                                                                                                        ( 382902.0, 3771702.0, ( 383002.0, 3771702.0, ( 383102.0, 3771702.0, 383302.0, 3771702.0, ( 383302.0, 3771702.0, ( 383502.0, 3771702.0, ( 383502.0, 3771702.0, ( 383502.0, 3771702.0, ( 383502.0, 3771702.0, ( 383602.0, 3771702.0, ( 383902.0, 3771702.0, ( 383902.0, 3771702.0, ( 383902.0, 3771702.0, ( 383902.0, 3771702.0, ( 383902.0, 3771702.0, ( 383902.0, 3771702.0, ( 383902.0, 3771702.0, ( 383902.0, 3771702.0, ( 383902.0, 3771702.0, ( 383902.0, 3771702.0, ( 383902.0, 3771702.0, ( 383902.0, 3771702.0, ( 383902.0, 3771702.0, ( 383902.0, 3771702.0, ( 383902.0, 3771702.0, ( 383902.0, 3771702.0, ( 383902.0, 3771702.0, ( 383902.0, 3771702.0, ( 383902.0, 3771702.0, ( 383902.0, 3771702.0, ( 383902.0, 3771702.0, ( 383902.0, 3771702.0, ( 383902.0, 3771702.0, ( 383902.0, 3771702.0, ( 383902.0, 3771702.0, ( 383902.0, 3771702.0, ( 383902.0, 3771702.0, ( 383902.0, 3771702.0, ( 383902.0, 3771702.0, ( 383902.0, 3771702.0, ( 383902.0, 3771702.0, ( 383902.0, 3771702.0, ( 383902.0, 3771702.0, ( 383902.0, 3771702.0, ( 383902.0, 3771702.0, ( 383902.0, 3771702.0, ( 383902.0, 3771702.0, ( 383902.0, 3771702.0, ( 383902.0, 3771702.0, ( 383902.0, 3771702.0, ( 383902.0, 3771702.0, ( 383902.0, 3771702.0, ( 383902.0, 3771702.0, ( 383902.0, 3771702.0, ( 383902.0, 3771702.0, ( 383902.0, 3771702.0, ( 383902.0, 3771702.0, ( 383902.0, 3771702.0, ( 383902.0, 3771702.0, ( 383902.0, 3771702.0, ( 383902.0, 3771702.0, ( 383902.0, 3771702.0, ( 383902.0, 3771702.0, ( 383902.0, 3771702.0, ( 383902.0, 3771702.0, ( 383902.0, 3771702.0, ( 383902.0, 3771702.0, ( 383902.0, 3771702.0, ( 383902.0, 3771702.0, ( 383902.0, 3771702.0, ( 383902.0, 3771702.0, ( 383902.0, 3771702.0, ( 383902.0, 3771702.0, ( 383902.0, 3771702.0, ( 383902.0, 3771702.0, ( 383902.0, 3771702.0, ( 383902.0, 3771702.0, ( 383902.0, 3771702.0, ( 383902.0, 3771702.0, ( 383902.0, 3771702.0, ( 383902.0, 3771702.0, ( 383902.0, 3771702.0, ( 383902.0, 3771702.0, ( 383902.0, 3771702.0, ( 383902.0, 3771702.0, ( 383902.0, 3771702.0, ( 383902.0, 3771702.0, ( 383902.0, 3771702.0, ( 383902.0, 3771702.0, (
                        ( 382852.0, 3771702.0,
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                              382852.0, 3771702.0, 382952.0, 3771702.0, 383052.0, 3771702.0, 383152.0, 3771702.0, 383252.0, 3771702.0, 383452.0, 3771702.0, 383652.0, 3771702.0, 383652.0, 3771702.0, 383652.0, 3771702.0, 383652.0, 3771702.0, 383652.0, 3771702.0, 383652.0, 3771702.0, 383652.0, 3771702.0, 383652.0, 3771702.0, 383652.0, 3771702.0, 383652.0, 3771702.0, 383652.0, 3771702.0, 383652.0, 3771702.0, 383652.0, 3771702.0, 383652.0, 3771702.0, 383652.0, 3771702.0, 383652.0, 3771702.0, 383652.0, 3771702.0, 383652.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 3771702.0, 37
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                               383752.0, 3771702.0,
383852.0, 3771702.0,
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( 384002.0, 3771702.0,
( 384102.0, 3771702.0,
( 384202.0, 3771702.0,
( 384302.0, 3771702.0,
( 384502.0, 3771702.0,
( 384502.0, 3771702.0,
( 384602.0, 3771702.0,
( 384702.0, 3771702.0,
                                 383952.0, 3771702.0,
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                                  384052.0, 3771702.0,
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                                 384152.0, 3771702.0,
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384452.0, 3771702.0,
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                                    384652.0,
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                                    382752.0. 3771752.0.
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                                    382852.0, 3771752.0
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                                 382852.0, 3771752.0, 382952.0, 3771752.0, 383052.0, 3771752.0, 383152.0, 3771752.0, 383252.0, 3771752.0, 383352.0, 3771752.0,
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                                    383452.0, 3771752.0,
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                                    383552.0,
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                                    383952.0, 3771752.0,
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383002.0, 3771802.0,
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                                    382952.0. 3771802.0.
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*** Echo Park Lake Rehabilitation

*** HRA - PM Diesel (Unmitigated)
                          (383052.0, 3771802.0,
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(383252.0, 3771802.0,
AERMOD - VERSION 07026
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    **MODELOPTs:
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                                                                                                                                                          DFAULT ELEV
                                                                                                                                                                                                                                                      *** DISCRETE CARTESIAN RECEPTORS ***
                                                                                                                                                                                                                                          (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
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*** Echo Park Lake Rehabilitation
*** HRA - PM Diesel (Unmitigated)
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AERMOD - VERSION 07026 ***
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    **MODELOPTs:
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CONC
                                                                                                                                                         DFAULT ELEV
                                                                                                                                                                                                                                                      *** DISCRETE CARTESIAN RECEPTORS ***
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*** Echo Park Lake Rehabilitation
*** HRA - PM Diesel (Unmitigated)
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AERMOD - VERSION 07026 ***
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     **MODELOPTs:
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                                                                                                                                                          DFAULT ELEV
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<sup>\*</sup> SOURCE-RECEPTOR COMBINATIONS FOR WHICH CALCULATIONS MAY NOT BE PERFORMED \*

LESS THAN 1.0 METER OR WITHIN OPEN PIT SOURCE SOURCE - RECEPTOR LOCATION -383502.0 3770602.0
383502.0 3770602.0
383602.0 3770552.0
383602.0 3770552.0
383602.0 3770552.0
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YR MO DY HR HEIGHT F WDIR WSPD AMB\_TMP sigmaA sigmaW sigmaV
06 01 01 01 17.7 0 -999. -99.00 286.5 99.0 -99.00 -99.00
06 01 01 01 21.3 1 347. 0.70 -999.0 99.0 -99.00 -99.00 F indicates top of profile (=1) or below (=0)
\*\*\* AERMOD - VERSION 07026 \*\*\*

\*\*\* Echo Park Lake Rehabilitation

\*\*\* HRA - PM Diesel (Unmitigated) \*\*MODELOPTs: PAGE 39 DFAULT ELEV \*\*\* THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: ONSITE \*\*\* INCLUDING SOURCE(S): SITE , \*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF DPM IN MICROGRAMS/M\*\*3

X-COORD (M) Y-COORD (M)

CONC

X-COORD (M) Y-COORD (M)

CONC

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383660.97
                                                                0.48716
                                                                                                                 383792.56
                                                                                                                                       3770989.25
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                                  3771329.50
                                  3771329.50
3770537.25
3769952.00
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                                                                0.48716
0.10049
0.03140
0.03472
0.03682
0.03689
             383667.38
382802.03
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382852.03
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             383202.03
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             383302.03
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             383402.03
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383702.03
383802.03
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             383902.03
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             384002.03
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             384102.03
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             384102.03
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             384202.03
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384402.03 3770002.00
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*** AERMOD - VERSION 07026 ***
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                                                         *** Echo Park Lake Rehabilitation

*** HRA - PM Diesel (Unmitigated)
                                                                                                                                                                                                      11:23:25
**MODELOPTs:
                                                                                                                                                                                                      PAGE 40
                                            DEAHLT ELEV
                             *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: ONSITE ***
INCLUDING SOURCE(S): SITE ,
                                                                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                ** CONC OF DPM IN MICROGRAMS/M**3
        X-COORD (M) Y-COORD (M) CONC

384652.03 3770002.00 0.00182

382752.03 3770052.00 0.02960

382852.03 3770052.00 0.03451
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0.03689
             382902.03
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             383602.03
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             384002.03
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384602.03
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384452.03
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384652.03
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             384702.03
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 384302.03 3770102.00
384402.03 3770102.00
384502.03 3770102.00
*** AERMOD - VERSION 07026 ***
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0.00275
0.00235
*** Echo Park Lake Rehabilitation
*** HRA - PM Diesel (Unmitigated)
                                                                                                                                                                                                       11:23:25
**MODELOPTs:
                                             DFAULT ELEV
                            *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: ONSITE *** INCLUDING SOURCE(S): SITE ,
                                                                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                ** CONC OF DPM IN MICROGRAMS/M**3
        X-COORD (M) Y-COORD (M) CONC X-COORD (M) Y-COORD (M) CONC

384602.03 3770102.00 0.00205 384652.03 3770102.00 0.0015

384702.03 3770102.00 0.00183 382752.03 3770152.00 0.0288

382802.03 3770152.00 0.03171 382852.03 3770152.00 0.0347

382902.03 3770152.00 0.03797 382952.03 3770152.00 0.0411

383002.03 3770152.00 0.04422 383052.03 3770152.00 0.0462
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383102.03
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              384702.03
382802.03
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383002.03
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383202.03
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              383502.03
383602.03
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*** AERMOD - VERSION 07026 ***
                                                              *** Echo Park Lake Rehabilitation
                                                                                                                                                                                                                       04/20/10
                                                              *** HRA - PM Diesel (Unmitigated)
                                                                                                                                                                                                                        11:23:25
**MODELOPTs:
                                                DFAULT ELEV
                              *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: ONSITE *** INCLUDING SOURCE(S): SITE ,
                                                                             *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                     ** CONC OF DPM IN MICROGRAMS/M**3
         X-COORD (M) Y-COORD (M) CONC

384602.03 3770202.00 0.00224
384702.03 3770252.00 0.03032
382802.03 3770252.00 0.03767
383002.03 370252.00 0.04600
383102.03 3770252.00 0.05437
383302.03 3770252.00 0.05637
383302.03 3770252.00 0.06089
                                                                                                                   X-COORD (M) Y-COORD (M) CONC

384652.03 3770202.00 0.002
382752.03 3770252.00 0.033
382952.03 3770252.00 0.031
383952.03 3770252.00 0.050
383952.03 3770252.00 0.050
383152.03 3770252.00 0.058
383152.03 3770252.00 0.058
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*** AERMOD - VERSION 07026 ***
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                                                              *** Echo Park Lake Rehabilitation

*** HRA - PM Diesel (Unmitigated)
                                                                                                                                                                                                                        11:23:25
**MODELOPTs:
                                             DFAULT ELEV
                               *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: ONSITE ***
INCLUDING SOURCE(S): SITE ,
                                                                            *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                    ** CONC OF DPM IN MICROGRAMS/M**3
                                  Y-COORD (M) CONC :

3770302.00 0.00252
3770302.00 0.02322
3770352.00 0.02800
3770352.00 0.04583
3770352.00 0.04583
3770352.00 0.05738
3770352.00 0.06919
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                                                                  *** Echo Park Lake Rehabilitation
*** HRA - PM Diesel (Unmitigated)
 *** AERMOD - VERSION 07026 ***
                                                                                                                                                                                                                                    04/20/10
                                                                                                                                                                                                                                     11:23:25
                                                  DFAULT ELEV
                                  *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: ONSITE ***
INCLUDING SOURCE(S): SITE
                                                               INCLUDING SOURCE(S):
                                                                                *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                        ** CONC OF DPM IN MICROGRAMS/M**3
       X-COORD (M) Y-COORD (M) CONC

384602.03 3770402.00 0.00291
384702.03 3770452.00 0.02503
382802.03 3770452.00 0.03290
383002.03 3770452.00 0.03290
383002.03 3770452.00 0.05752
383002.03 3770452.00 0.05752
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384652.03 3770452.00
382752.03 3770452.00
382952.03 3770452.00
383052.03 3770452.00
383152.03 3770452.00
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*** AERMOD - VERSION 07026 ***
                                                                  *** Echo Park Lake Rehabilitation

*** HRA - PM Diesel (Unmitigated)
                                                                                                                                                                                                                                     04/20/10
                                                                                                                                                                                                                                     11:23:25
**MODELOPTs:
                                                                                                                                                                                                                                     PAGE 45
                                                 DFAULT ELEV
                                *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: ONSITE ***
INCLUDING SOURCE(S): SITE
                                                              INCLUDING SOURCE(S):
                                                                                                                SITE
                                                                                *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                        ** CONC OF DPM IN MICROGRAMS/M**3
         X-COORD (M) Y-COORD (M) CONC X

384602.03 3770502.00 0.00349

884702.03 3770502.00 0.00317

382802.03 3770552.00 0.02176

382902.03 3770552.00 0.02176

382902.03 3770552.00 0.05458

383102.03 3770552.00 0.05458

383102.03 3770552.00 0.07531

383302.03 3770552.00 0.10237

383402.03 3770552.00 0.10237
                                                                                                                            X-COORD (M) Y-COORD (M) CONC

384652.03 3770552.00 0.01332
382752.03 3770552.00 0.02506
382952.03 3770552.00 0.03381
383052.03 3770552.00 0.04642
383152.03 3770552.00 0.06417
383152.03 3770552.00 0.06417
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*** AERMOD - VERSION 07026 ***
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                                                                                  *** Echo Park Lake Rehabilitation
*** HRA - PM Diesel (Unmitigated)
                                                                                                                                                                                                                                                                                         04/20/10
**MODELOPTs:
                                         *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: ONSITE SITE ,
                                                                                                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                              0.00434
0.00384
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384652.03 3770602.00 0.00408
382752.03 3770652.00 0.01622
382852.03 3770652.00 0.02331
382952.03 3770652.00 0.02931
382953.03 3770652.00 0.02901
            X-COORD (M) Y-COORD (M)
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  382752.03 3770752.00
*** AERMOD - VERSION 07026 ***
                                                                                            0.01366
                                                                                                                                                                  382802.03
                                                                                                                                                                                                                                          0.01547
                                                                                  *** Echo Park Lake Rehabilitation

*** HRA - PM Diesel (Unmitigated)
                                                                                                                                                                                                                                                                                          04/20/10
                                                                                                                                                                                                                                                                                           11:23:25
**MODELOPTs:
                                         *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: ONSITE
                                                                             INCLUDING SOURCE(S):
                                                                                                                                          SITE
                                                                                                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                                          ** CONC OF DPM IN MICROGRAMS/M**3
                                                                                                                                                          X-COORD (M) Y-COORD (M) (382902.03 3770752.00 (383102.03 3770752.00 (383102.03 3770752.00 (383302.03 3770752.00 (383302.03 3770752.00 (383302.03 3770752.00 (383802.03 3770752.00 (383802.03 3770752.00 (383802.03 3770752.00 (383802.03 3770752.00 (383802.03 3770752.00 (383802.03 3770752.00 (383802.03 3770752.00 (383802.03 3770752.00 (383802.03 3770752.00 (383802.03 3770752.00 (383802.03 3770752.00 (383802.03 3770752.00 (383802.03 3770752.00 (383802.03 3770752.00 (383802.03 3770752.00 (383802.03 3770752.00 (383802.03 3770752.00 (383802.03 3770752.00 (383802.03 3770752.00 (383802.03 3770752.00 (383802.03 3770752.00 (383802.03 3770752.00 (383802.03 3770752.00 (383802.03 3770752.00 (383802.03 3770752.00 (383802.03 3770752.00 (383802.03 3770752.00 (383802.03 3770752.00 (383802.03 3770752.00 (383802.03 3770752.00 (383802.03 3770752.00 (383802.03 3770752.00 (383802.03 3770752.00 (383802.03 3770752.00 (383802.03 3770752.00 (383802.03 3770752.00 (383802.03 3770752.00 (383802.03 3770752.00 (383802.03 3770752.00 (383802.03 3770752.00 (383802.03 3770752.00 (383802.03 3770752.00 (383802.03 3770752.00 (383802.03 3770752.00 (383802.03 3770752.00 (383802.03 3770752.00 (383802.03 3770752.00 (383802.03 3770752.00 (383802.03 3770752.00 (383802.03 3770752.00 (383802.03 3770752.00 (383802.03 3770752.00 (383802.03 3770752.00 (383802.03 3770752.00 (383802.03 3770752.00 (383802.03 3770752.00 (383802.03 3770752.00 (383802.03 3770752.00 (383802.03 3770752.00 (383802.03 3770752.00 (383802.03 3770752.00 (383802.03 3770752.00 (383802.03 3770752.00 (383802.03 3770752.00 (383802.03 3770752.00 (383802.03 3770752.00 (383802.03 3770752.00 (383802.03 3770752.00 (383802.03 3770752.00 (383802.03 3770752.00 (383802.03 3770752.00 (383802.03 3770752.00 (383802.03 3770752.00 (383802.03 3770752.00 (383802.03 3770752.00 (383802.03 3770752.00 (383802.03 3770752.00 (383802.03 3770752.00 (383802.03 3770752.00 (383802.03 3770752.00 (383802.03 3770752.00 (383802.03 3770752.00 (383802.03 3770752.00 (383802.03 3770752.00 (383802.03 3770752.00 (383802.00 3770752.0
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383152.03 3770852.00
*** AERMOD - VERSION 07026 ***
                                                                0.04063
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PAGE 48
                          *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: ONSITE *** SITE ,
                                                                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                ** CONC OF DPM IN MICROGRAMS/M**3
       X-COORD (M) Y-COORD (M) CONC

383252.03 3770852.00 0.06518
383352.03 3770852.00 0.11115
383452.03 3770852.00 0.20196
383552.03 3770852.00 0.45188
                                                                                                            X-COORD (M) Y-COORD (M) CONC

383302.03 3770852.00 0.0845
383402.03 3770852.00 0.1483
383502.03 3770852.00 0.2886
383802.03 3770852.00 0.3553
                                                                                                                                                                      0.08451
0.14835
0.28583
0.35537
                                  3770852.00
            383852.03
                                                               0.18481
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3770852.00
            383952.03
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            384052.03
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            384152.03
384252.03
384352.03
384452.03
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384702.03
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383002.03
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            383252.03
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0.03979
            384152.03
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384502.03
384602.03
384702.03
            384352.03
                                  3770902.00
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0.00807
            384652.03
            382752.03
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            382952.03
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383152.03
383252.03
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0.03073
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0.08905
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383202.03
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0.03858
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383552.03 3770952.00
*** AERMOD - VERSION 07026 ***
                                                                0.47345
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                                                                                                                                                                      0.41477
                                                         0.47345

*** Echo Park Lake Rehabilitation

*** HRA - PM Diesel (Unmitigated)
                                                                                                                                                                                                        11:23:25
PAGE 49
                            *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: ONSITE ***
INCLUDING SOURCE(S): SITE ,
                                                                      *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                ** CONC OF DPM IN MICROGRAMS/M**3
                                                                                                            X-COORD (M) Y-COORD (M)

383902.03 3770952.00
384002.03 3770952.00
384102.03 3770952.00
384202.03 3770952.00
       X-COORD (M) Y-COORD (M) CONC

383852.03 3770952.00 0.22196
383952.03 3770952.00 0.09930
384052.03 3770952.00 0.05659
384152.03 3770952.00 0.05666
                                                                                                                                                                    CONC
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            384252.03
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            384352.03
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0.01414
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            384452.03
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3771002.00
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0.01111
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0.01345
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384602.03
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382902.03
383002.03
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                                  3771002.00
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            383152.03
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            384152.03
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            384652.03
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382902.03
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382952.03
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0.06314
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              383252.03
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              383902.03
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              384002.03
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  384102.03 3771052.00
384202.03 3771052.00
*** AERMOD - VERSION 07026 ***
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                                                                                                                                       3771052.00
                                                                                                                                                                    0.04540
                                                                 0.03740
                                                          0.03740

*** Echo Park Lake Rehabilitation

*** HRA - PM Diesel (Unmitigated)
                                                                                                                                                                                                     04/20/10
 **MODELOPTs:
                                            DFAULT ELEV
CONC
                             *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: ONSITE ***
INCLUDING SOURCE(S): SITE ,
                                                                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
       X-COORD (M) Y-COORD (M) CONC

384302.03 3771052.00 0.02655
384402.03 3771052.00 0.01519
384602.03 3771052.00 0.01205
3771052.00 0.00752
0.00752
0.00752
0.00973
                                                                ** CONC OF DPM IN MICROGRAMS/M**3
                                                                                                            X-COORD (M) Y-COORD (M) CONC

384352.03 3771052.00 0.02277
384452.03 3771052.00 0.01724
384552.03 3771052.00 0.01348
384552.03 3771052.00 0.010383
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              383402.03
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              383502.03
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                                                         *** Echo Park Lake Rehabilitation
*** HRA - PM Diesel (Unmitigated)
  *** AERMOD - VERSION 07026 ***
                                                                                                                                                                                                     04/20/10
                             *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: ONSITE ***
INCLUDING SOURCE(S): SITE ,
                                                                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                                                            X-COORD (M) Y-COORD (M) CONC

382902.03 3771202.00 0.00703
383002.03 3771202.00 0.00864
383102.03 3771202.00 0.01109
383202.03 3771202.00 0.01516
         X-COORD (M) Y-COORD (M) CONC X
                                 3771202.00 0.00641
3771202.00 0.00776
3771202.00 0.00973
3771202.00 0.01283
3771202.00 0.01837
3771202.00 0.0332
3771202.00 0.06643
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*** Echo Park Lake Rehabilitation
*** HRA - PM Diesel (Unmitigated)
                                                                                                                                                                                                  11:23:25
**MODELOPTs:
                                                                                                                                                                                                 PAGE 52
                                            DFAULT ELEV
                           *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: ONSITE ***
INCLUDING SOURCE(S): SITE ,
                                                                     *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                               ** CONC OF DPM IN MICROGRAMS/M**3
        CONC
                                                                                                           X-COORD (M) Y-COORD (M)
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                                                        *** Echo Park Lake Rehabilitation
*** HRA - PM Diesel (Unmitigated)
  *** AERMOD - VERSION 07026 ***
                                                                                                                                                                                                 04/20/10
**MODELOPTs:
                                                                                                                                                                                                 PAGE 53
CONC
                                           DFAULT ELEV
                             *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: ONSITE ***
INCLUDING SOURCE(S): SITE ,
                                                      INCLUDING SOURCE(S):
                                                                                                SITE
                                                                     *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                               ** CONC OF DPM IN MICROGRAMS/M**3
         X-COORD (M) Y-COORD (M)
                                                              CONC
                                                                                                           X-COORD (M) Y-COORD (M)
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*** AERMOD - VERSION 07026 ***
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*** Echo Park Lake Rehabilitation
                                                                                                               383302.03
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MODELOPTs:	DFAU	*** HRA - PM Diesel ( LT ELEV					PAGE 5
	*** THE ANNUAL	AVERAGE CONCENTRATION INCLUDING SOURCE(S):	VALUES AVERAGED OVER SITE ,	2 YEARS FOR	SOURCE GROUP:	ONSITE	***
		*** DISCRETE	CARTESIAN RECEPTOR POI	NTS ***			
		** CONC OF DPM	IN MICROGRAMS/M**3		**		
X-COORD (M)	Y-COORD (M)		X-COORD (M)		CONC		
383352.03	3771502.00	0.00874	383402.03	3771502.00	0.01146		
	3771502.00 3771502.00	0.01599 0.03666	383502.03	3771502.00 3771502.00	0.02377 0.05469		
383652.03	3771502.00	0.07280	383702.03	3771502.00	0.08471		
383852.03	3771502.00 3771502.00	0.07909	383902.03	3771502.00 3771502.00	0.06967		
383952.03 384052.03	3771502.00	0.06001 0.04427	384002.03	3771502.00	0.05141		
384152.03	3771502.00	0.03388	384202.03	3771502.00	0.03852		
	3771502.00	0.02691 0.02192	384402.03	3771502.00			
	3771502.00 3771502.00	0.01815 0.01523		3771502.00 3771502.00	0.01661		
384652.03	3771502.00	0.01293	384702.03	3771502.00	0.01195		
382852.03	3771552.00 3771552.00	0.00271	382902.03	3771552.00 3771552.00	0.00284		
382952.03 383052.03	3771552.00	0.00300 0.00342		3771552.00 3771552.00	0.00319 0.00371		
383152.03	3771552.00	0.00409	383202.03	3//1552.00	0.00460		
383352.03	3771552.00 3771552.00	0.00533 0.00800	383402.03	3771552.00 3771552.00	0.00639 0.01053		
	3771552.00 3771552.00	0.01459 0.03084		3771552.00 3771552.00			
383652.03	3771552.00	0.05602	383702.03	3771552.00	0.06511		
383852.03		0.06909 0.06384	383902.03	3771552.00 3771552.00	0.06826 0.05738 0.04381		
383952.03 384052.03		0.05036 0.03819	384002.03 384102.03	3771552.00 3771552.00	0.03356		
384152.03	3771552.00 3771552.00 3771552.00	0.02979 0.02409	384202.03	3771552.00 3771552.00 3771552.00	0.02668		
384352.03	3771552.00	0.01998	384402.03	3771552.00	0.01832		
	3771552.00 3771552.00			3771552.00 3771552.00			
384652.03	3771552.00	0.01234	384702.03	3771552.00	0.01147		
382752.03 382852.03		0.00226 0.00244	382902.03	3771602.00 3771602.00	0.00235 0.00256		
382952.03 383052.03	3771602.00 3771602.00	0.00269 0.00307	383002.03	3771602.00 3771602.00	0.00286 0.00334		
383152.03	3771602.00	0.00370	383202.03	3771602.00 3771602.00	0.00420		
302252 02					0.00593		
383252.03 ** AERMOD - VERS		*** Echo Park Lake Re	habilitation	3771002.00		***	
*** AERMOD - VERS MODELOPTs: DNC	SION 07026 *** DFAU		Phabilitation Unmitigated) VALUES AVERAGED OVER			***	11:23:2 PAGE 5
*** AERMOD - VERS MODELOPTs: DNC	SION 07026 *** DFAU	*** Echo Park Lake Re *** HRA - PM Diesel ( LT ELEV  AVERAGE CONCENTRATION INCLUDING SOURCE(S):  *** DISCRETE	habilitation Unmitigated)  VALUES AVERAGED OVER SITE ,  CARTESIAN RECEPTOR POI	2 YEARS FOR		***	11:23:2 PAGE 5
** AERMOD - VERS	SION 07026 *** DFAU	*** Echo Park Lake Re *** HRA - PM Diesel ( LT ELEV  AVERAGE CONCENTRATION INCLUDING SOURCE(S):  *** DISCRETE  ** CONC OF DPM	habilitation Unmitigated)  VALUES AVERAGED OVER SITE , CARTESIAN RECEPTOR POI IN MICROGRAMS/M**3	2 YEARS FOR	SOURCE GROUP:	***	11:23:2 PAGE 5
** AERMOD - VERS MODELOPTs: NC  X-COORD (M)	DFAU  *** THE ANNUAL  Y-COORD (M)	*** Echo Park Lake Re *** HRA - PM Diesel ( LT ELEV  AVERAGE CONCENTRATION INCLUDING SOURCE(S):  *** DISCRETE ** CONC OF DPM CONC	habilitation Unmitigated)  VALUES AVERAGED OVER SITE , CARTESIAN RECEPTOR POI IN MICROGRAMS/M**3  X-COORD (M)	2 YEARS FOR	SOURCE GROUP:  **  CONC	*** ONSITE	11:23:2 PAGE 5
*** AERMOD - VERS MODELOPTs: NNC  X-COORD (M) 383352.03 383452.03	DFAU  *** THE ANNUAL  Y-COORD (M)  3771602.00 3771602.00	*** Echo Park Lake Re *** HRA - PM Diesel (  LT ELEV  AVERAGE CONCENTRATION INCLUDING SOURCE(S):  *** DISCRETE  ** CONC OF DPM  CONC  0.00747 0.01342	habilitation Unmitigated)  VALUES AVERAGED OVER SITE ,  CARTESIAN RECEPTOR POI IN MICROGRAMS/M**3  X-COORD (M)  383402.03 383502.03	2 YEARS FOR NTS ***  Y-COORD (M) 3771602.00 3771602.00	SOURCE GROUP:  **  CONC 0.009883	*** ONSITE	11:23:2 PAGE 5
** AERMOD - VERS MODELOPTs: NC  X-COORD (M) 383352.03 383452.03	DFAU  *** THE ANNUAL  Y-COORD (M)  3771602.00	*** Echo Park Lake Re *** HRA - PM Diesel ( LT ELEV  AVERAGE CONCENTRATION INCLUDING SOURCE(S):  *** DISCRETE  ** CONC OF DPM  CONC  0.00747	habilitation Unmitigated)  VALUES AVERAGED OVER SITE , CARTESIAN RECEPTOR POI IN MICROGRAMS/M**3  X-COORD (M) 383402.03 383502.03 383502.03	2 YEARS FOR  NTS ***  Y-COORD (M)  3771602.00	SOURCE GROUP:  **  CONC 0.00982 0.01883 0.03573	*** ONSITE	11:23:2 PAGE 5
** AERMOD - VERS MODELOPTs: NC  X-COORD (M) 383352.03 383452.03 383552.03 383552.03	Y-COORD (M) 3771602.00 3771602.00 3771602.00	*** Echo Park Lake Re *** HRA - PM Diesel ( LT ELEV  AVERAGE CONCENTRATION INCLUDING SOURCE(S):  *** DISCRETE  ** CONC OF DPM CONC  0.00747 0.01342 0.02643 0.04499 0.05562	habilitation Unmitigated)  VALUES AVERAGED OVER SITE ,  CARTESIAN RECEPTOR POI IN MICROGRAMS/M**3 X-COORD (M)	2 YEARS FOR  Y-COORD (M)  3771602.00  3771602.00  3771602.00  3771602.00	SOURCE GROUP:  **  CONC   0.00982 0.01883 0.03573 0.05204 0.05565	*** ONSITE	11:23:2 PAGE 5
** AERMOD - VERS MODELOPTs: NC  X-COORD (M)  3833452.03 383452.03 383552.03 383552.03 383952.03	*** THE ANNUAL  Y-COORD (M) 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00	*** Echo Park Lake Re *** HRA - PM Diesel ( LT ELEV  AVERAGE CONCENTRATION INCLUDING SOURCE(S):  *** DISCRETE  ** CONC OF DPM CONC  0.00747 0.01342 0.02643 0.04499 0.05562 0.05283 0.04299	habilitation Unmitigated)  VALUES AVERAGED OVER SITE ,  CARTESIAN RECEPTOR POI IN MICROGRAMS/M**3  X-COORD (M)  383402.03 383502.03 383702.03 383702.03 383902.03 383902.03	2 YEARS FOR  Y-COORD (M)  3771602.00 3771602.00 3771602.00 3771602.00 3771602.03 3771602.00	SOURCE GROUP:  **  CONC0.00982 0.01883 0.03573 0.05264 0.05565	ONSITE	11:23:2 PAGE 5
** AERMOD - VERS MODELOPTs: NC  X-COORD (M)	*** THE ANNUAL  Y-COORD (M)  3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00	*** Echo Park Lake Re *** HRA - PM Diesel ( LT ELEV  AVERAGE CONCENTRATION INCLUDING SOURCE(S):  *** DISCRETE  ** CONC OF DPM  CONC	habilitation Unmitigated)  VALUES AVERAGED OVER SITE ,  CARTESIAN RECEPTOR POI IN MICROGRAMS/M**3  X-COORD (M)  383402.03 383502.03 383702.03 383802.03 383902.03 383902.03 383802.03	2 YEARS FOR  Y-COORD (M)  3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00	**  CONC  0.00982 0.01883 0.03573 0.05204 0.05565 0.04824 0.03786 0.02949 0.02373	ONSITE	11:23:2 PAGE 5
** AERMOD - VERS MODELOPTS: NNC  X-COORD (M) 383352.03 383452.03 383552.03 383752.03 383952.03 383952.03 383952.03 383952.03	*** THE ANNUAL  Y-COORD (M)  3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00	*** Echo Park Lake Re *** HRA - PM Diesel (  LT ELEV  AVERAGE CONCENTRATION INCLUDING SOURCE(S):  *** DISCRETE  ** CONC OF DPM  CONC 0.00747 0.01342 0.02643 0.04499 0.05562 0.05283 0.04299 0.03332 0.02633 0.02157	habilitation Unmitigated)  VALUES AVERAGED OVER SITE ,  CARTESIAN RECEPTOR POI  IN MICROGRAMS/M**3  X-COORD (M)	2 YEARS FOR  Y-COORD (M)  3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00	CONC	ONSITE	11:23:2 PAGE 5
** AERMOD - VERS MODELOPTs: NC  X-COORD (M) 383352.03 383452.03 383552.03 383552.03 38352.03 38352.03 384052.03 384152.03 384152.03 384152.03 384152.03	Y-COORD (M)	*** Echo Park Lake Re *** HRA - PM Diesel ( LT ELEV  AVERAGE CONCENTRATION INCLUDING SOURCE(S):  *** DISCRETE  ** CONC OF DPM CONC	WALUES AVERAGED OVER SITE CARTESIAN RECEPTOR POI IN MICROGRAMS/M**3  X-COORD (M)  383402.03 383702.03 383702.03 383802.03 383802.03 383802.03 383802.03 383802.03 383802.03 383802.03	2 YEARS FOR  Y-COORD (M)  3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00	CONC  CONC  0.00982 0.1883 0.03573 0.05204 0.05565 0.04824 0.03766 0.02949 0.02373 0.01973 0.01973 0.01675 0.01441	ONSITE	11:23:2 PAGE 5
** AERMOD - VERS MODELOPTs: NC  X-COORD (M)  383352.03 383552.03 383552.03 383552.03 383552.03 38352.03 38452.03 38452.03 38452.03 38452.03	Y-COORD (M)  Y-COORD (M)  Y-COORD (M)  Y-COORD (M)  Y-COORD (M)  3771602.00  3771602.00  3771602.00  3771602.00  3771602.00  3771602.00  3771602.00  3771602.00  3771602.00  3771602.00  3771602.00  3771602.00  3771602.00	*** Echo Park Lake Re *** HRA - PM Diesel ( LT ELEV  AVERAGE CONCENTRATION INCLUDING SOURCE(S):	habilitation Unmitigated)  VALUES AVERAGED OVER SITE ,  CARTESIAN RECEPTOR POI IN MICROGRAMS/M**3  X-COORD (M)  383402.03 383502.03 383702.03 383702.03 383902.03 383902.03 383902.03 383902.03 383902.03 38402.03 38402.03 38402.03 38402.03 38402.03	2 YEARS FOR  Y-COORD (M)  3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00	CONC  CONC  0.00982 0.01883 0.03573 0.05204 0.03565 0.04824 0.03786 0.02949 0.02373 0.01675 0.01441 0.01250 0.010250	ONSITE	11:23:2 PAGE 5
** AERMOD - VERS MODELOPTs: NC  X-COORD (M)	*** THE ANNUAL  Y-COORD (M)  3771602.00	*** Echo Park Lake Re *** HRA - PM Diesel (  LT ELEV  AVERAGE CONCENTRATION INCLUDING SOURCE(S):	habilitation Unmitigated)  VALUES AVERAGED OVER SITE ,  CARTESIAN RECEPTOR POI IN MICROGRAMS/M**3  X-COORD (M)  383402.03 383502.03 383602.03 383902.03 383902.03 383402.03 384402.03 384402.03 384402.03 384402.03 384402.03 384602.03 384602.03 384602.03 384602.03	2 YEARS FOR  Y-COORD (M)  3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00	CONC  CONC  0.00982 0.01883 0.03573 0.05204 0.05565 0.04824 0.03766 0.02349 0.02373 0.01975 0.01441 0.01250 0.01092 0.00213 0.00213	ONSITE	11:23:2 PAGE 5
** AERMOD - VERS MODELOPTS: NNC   X-COORD (M) 383352.03 383452.03 383552.03 383552.03 38352.03 38352.03 38352.03 38452.03 38452.03 38452.03 38452.03 38452.03 38452.03 38452.03	Y-COORD (M) 3771602.00	*** Echo Park Lake Re *** HRA - PM Diesel (  AVERAGE CONCENTRATION INCLUDING SOURCE(S):  *** DISCRETE  ** CONC OF DPM  CONC	habilitation Unmitigated)  VALUES AVERAGED OVER SITE ,  CARTESIAN RECEPTOR POI IN MICROGRAMS/M**3  X-COORD (M)	2 YEARS FOR  Y-COORD (M)  3771602.00  3771602.00  3771602.00  3771602.00  3771602.00  3771602.00  3771602.00  3771602.00  3771602.00  3771602.00  3771602.00  3771602.00  3771602.00  3771602.00  3771602.00  3771602.00	SOURCE GROUP:  **  CONC   0.00982 0.01883 0.03573 0.05204 0.05565 0.04842 0.03786 0.02949 0.02373 0.01675 0.01441 0.01250 0.01230 0.01231 0.00232 0.00232	*** ONSITE	11:23:2 PAGE 5
** AERMOD - VERS MODELOPTS: NNC  X-COORD (M) 383352.03 383452.03 383552.03 383552.03 383552.03 38352.03 38452.03 38452.03 38452.03 38452.03 38452.03 38452.03 38452.03 38452.03 38452.03 38452.03 38452.03 38452.03	*** THE ANNUAL  *** THE ANNUAL  *** THE ANNUAL  *** THE ANNUAL   Y-COORD (M)  3771602.00  3771602.00  3771602.00  3771602.00  3771602.00  3771602.00  3771602.00  3771602.00  3771602.00  3771602.00  3771602.00  3771602.00  3771602.00  3771602.00  3771602.00  3771602.00  3771602.00  3771602.00  3771602.00  3771652.00  3771652.00  3771652.00  3771652.00  3771652.00	*** Echo Park Lake Re *** HRA - PM Diesel (  LT ELEV  AVERAGE CONCENTRATION INCLUDING SOURCE(S):  *** DISCRETE  ** CONC OF DPM  CONC	habilitation Unmitigated)  VALUES AVERAGED OVER SITE ,  CARTESIAN RECEPTOR POI  IN MICROGRAMS/M**3  X-COORD (M)	2 YEARS FOR  Y-COORD (M)	SOURCE GROUP:  **  CONC  0.00982 0.01883 0.03573 0.05204 0.05565 0.04824 0.03786 0.02949 0.02373 0.01675 0.01441 0.01250 0.01041 0.01250 0.01092 0.00213 0.00232 0.00259 0.00306 0.00391	*** ONSITE	11:23:2 PAGE 5
** AERMOD - VERS MODELOPTs: NNC  X-COORD (M) 383352.03 383452.03 383552.03 383752.03 384052.03 384552.03 384552.03 384552.03 384552.03 384552.03 384552.03 384552.03 384552.03	*** THE ANNUAL  Y-COORD (M)  3771602.00 3771652.00 3771652.00	*** Echo Park Lake Re *** HRA - PM Diesel (  LT ELEV  AVERAGE CONCENTRATION INCLUDING SOURCE(5):  *** DISCRETE  ** CONC OF DPM  CONC	habilitation Unmitigated)  VALUES AVERAGED OVER SITE ,  CARTESIAN RECEPTOR POI IN MICROGRAMS/M**3  X-COORD (M)	2 YEARS FOR  Y-COORD (M)  3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771652.00 3771652.00	CONC CONC CONC CONC CONC CONC CONC CONC	ONSITE	11:23:2 PAGE 5
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** AERMOD - VERS MODELOPTs: NNC  X-COORD (M) 383352.03 383452.03 383552.03 383552.03 384552.03 38452.03 38252.03 38352.03 38352.03	*** THE ANNUAL  Y-COORD (M)  3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771652.00 3771652.00 3771652.00 3771652.00 3771652.00 3771652.00 3771652.00 3771652.00 3771652.00 3771652.00 3771652.00 3771652.00 3771652.00 3771652.00 3771652.00	*** Echo Park Lake Re *** HRA - PM Diesel (  LT ELEV  AVERAGE CONCENTRATION INCLUDING SOURCE(S):  *** DISCRETE  ** CONC OF DPM  CONC 0.00747 0.01342 0.02643 0.04499 0.05562 0.05283 0.04299 0.03332 0.02633 0.02157 0.01814 0.01552 0.01341 0.01167 0.00206 0.00222 0.00244 0.00279 0.00341 0.00279 0.00341 0.00460 0.00796 0.002300 0.03724	habilitation Unmitigated)  VALUES AVERAGED OVER SITE ,  CARTESIAN RECEPTOR POI IN MICROGRAMS/M**3  X-COORD (M)	2 YEARS FOR  Y-COORD (M)  3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771652.00 3771652.00 3771652.00 3771652.00 3771652.00 3771652.00 3771652.00 3771652.00 3771652.00 3771652.00 3771652.00	CONC  CONC  0.00982 0.01883 0.03573 0.05204 0.03565 0.04824 0.0376 0.01411 0.01250 0.01092 0.00213 0.00223 0.00259 0.00366 0.00391 0.00565 0.004824 0.01429 0.03015	*** ONSITE	11:23:2 PAGE 5
** AERMOD - VERS MODELOPTs: NNC   X-COORD (M) 383352.03 383452.03 383552.03 383752.03 384052.03 384552.03 384552.03 384552.03 384552.03 384552.03 384552.03 38252.03 38252.03 38252.03 38252.03 38252.03 38252.03 38252.03 38252.03 38252.03 38252.03 38252.03 38252.03 38252.03 38252.03 38352.03 38352.03 38352.03 38352.03 38352.03	*** THE ANNUAL  Y-COORD (M)	*** Echo Park Lake Re *** HRA - PM Diesel (  LT ELEV  AVERAGE CONCENTRATION INCLUDING SOURCE(5):   *** CONC OF DPM  CONC	habilitation Unmitigated)  VALUES AVERAGED OVER SITE ,  CARTESIAN RECEPTOR POI IN MICROGRAMS/M**3  X-COORD (M)	2 YEARS FOR  Y-COORD (M)  3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771652.00 3771652.00 3771652.00 3771652.00 3771652.00 3771652.00 3771652.00 3771652.00 3771652.00 3771652.00 3771652.00 3771652.00 3771652.00 3771652.00	CONC CONC CONC CONC CONC CONC CONC CONC	ONSITE	11:23:2 PAGE 5
** AERMOD - VERS  MODELOPTS: NNC   X-COORD (M) 383352.03 383452.03 383552.03 383552.03 383552.03 383552.03 38452.03 384552.03 384552.03 384552.03 384552.03 38252.03 38252.03 38252.03 38252.03 38252.03 38352.03 38352.03 38352.03 38352.03 38352.03 38352.03 38352.03 38352.03 38352.03 38352.03 38352.03 38352.03 38352.03 38352.03	Y-COORD (M)	*** Echo Park Lake Re *** HRA - PM Diesel (  LT ELEV  AVERAGE CONCENTRATION INCLUDING SOURCE(S):  *** DISCRETE  ** CONC OF DPM  CONC 0.00747 0.01342 0.02643 0.04499 0.05562 0.05283 0.04299 0.03332 0.02633 0.02157 0.01814 0.01552 0.01341 0.01167 0.00206 0.00222 0.00244 0.00279 0.00341 0.00167 0.00279 0.00341 0.00160 0.00279 0.00341 0.00160 0.00279 0.00341 0.00460 0.00279 0.00341 0.00460 0.00279 0.00341 0.00460 0.00279 0.00341 0.00460 0.00279 0.00341 0.00460 0.00706 0.01240 0.02300 0.03724 0.04596 0.04462 0.03726 0.0348 0.01938 0.01647	habilitation Unmitigated)  VALUES AVERAGED OVER SITE ,  CARTESIAN RECEPTOR POI IN MICROGRAMS/M**3  X-COORD (M)	2 YEARS FOR  Y-COORD (M)	SOURCE GROUP:  **  CONC 0.00982 0.01883 0.03573 0.05204 0.05565 0.048824 0.02794 0.02373 0.01675 0.01441 0.01250 0.01092 0.00213 0.00252 0.00259 0.00306 0.00391 0.00560 0.00392 0.00560 0.00392 0.00560 0.00393 0.00560 0.00393 0.00560 0.00393 0.00560 0.00393 0.00560 0.00393 0.00560 0.00393 0.00560 0.00393 0.00560 0.00393 0.00560 0.00393 0.00560 0.00393 0.00560 0.00393 0.00560 0.00393 0.00560 0.00393 0.00560 0.00393 0.00560 0.00393 0.00560 0.00393	*** ONSITE	11:23:2 PAGE 5
** AERMOD - VERS MODELOPTS: NNC   X-COORD (M) 383352.03 383452.03 383452.03 383752.03 383752.03 383952.03 384452.03 38452.03 38452.03 38452.03 38452.03 38452.03 38452.03 38452.03 38452.03 38452.03 38252.03 38352.03 38352.03 38352.03 38352.03 38352.03 38352.03 38352.03 38352.03 38352.03 38352.03 38352.03 38352.03 38352.03	*** THE ANNUAL  *** THE ANNUAL	*** Echo Park Lake Re *** HRA - PM Diesel (  LT ELEV  AVERAGE CONCENTRATION INCLUDING SOURCE(S):  *** DISCRETE  ** CONC OF DPM  CONC	habilitation Unmitigated)  VALUES AVERAGED OVER SITE ,  CARTESIAN RECEPTOR POI  IN MICROGRAMS/M**3  X-COORD (M)	2 YEARS FOR  Y-COORD (M)	SOURCE GROUP:  CONC  .0.0982 .0.1883 .0.3573 .0.5204 .0.5565 .0.04824 .0.3786 .0.02949 .0.2373 .0.10475 .0.1414 .0.1250 .0.10259 .0.00313 .0.00259 .0.00313 .0.00259 .0.00310 .0.00590 .0.00391 .0.00500 .0.00902 .0.01695 .0.01695 .0.01696 .0.0016 .0.00299 .0.00317 .0.00500 .0.00299 .0.00317 .0.00500 .0.00902 .0.00600 .0.00902 .0.006000 .0.00902 .0.0060000000000000000000000000000000	ONSITE	11:23:2 PAGE 5
** AERMOD - VERS MODELOPTS: NNC  X-COORD (M)	*** THE ANNUAL  *** THE ANNUAL	*** Echo Park Lake Re *** HRA - PM Diesel (  LT ELEV  AVERAGE CONCENTRATION INCLUDING SOURCE(S):  *** DISCRETE  ** CONC OF DPM  CONC	habilitation Unmitigated)  VALUES AVERAGED OVER SITE ,  CARTESIAN RECEPTOR POI  IN MICROGRAMS/M**3  X-COORD (M)	2 YEARS FOR  Y-COORD (M)  3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771652.00	CONC	*** ONSITE	11:23:2 PAGE 5
** AERMOD - VERS  MODELOPTS: NNC   X-COORD (M) 383352.03 383452.03 383452.03 383752.03 383752.03 383752.03 383752.03 383852.03 38452.03 38452.03 38452.03 38452.03 38452.03 38452.03 38452.03 382752.03 38352.03 38352.03 38352.03 38352.03 38352.03 38352.03 38352.03 38352.03 38352.03 38352.03 38352.03 38352.03 38352.03 38352.03 38352.03 38352.03 38352.03 38352.03	*** THE ANNUAL  *** THE ANNUAL	*** Echo Park Lake Re *** HRA - PM Diesel ( LT ELEV  AVERAGE CONCENTRATION INCLUDING SOURCE(S):  *** DISCRETE  ** CONC OF DPM CONC	habilitation Unmitigated)  VALUES AVERAGED OVER SITE ,  CARTESIAN RECEPTOR POI IN MICROGRAMS/M**3  X-COORD (M)	2 YEARS FOR  Y-COORD (M)  3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771652.00	CONC  0.00982 0.11883 0.03573 0.05204 0.05565 0.04824 0.03786 0.02949 0.02373 0.01679 0.01441 0.01250 0.01092 0.00233 0.00259 0.00306 0.00391 0.00560 0.00592 0.01695 0.04288 0.0213 0.00259 0.00361 0.00592 0.01695 0.001331 0.01690 0.01331 0.01169 0.01331 0.01169 0.01331	*** ONSITE	11:23:2 PAGE 5
** AERMOD - VERS MODELOPTS: NNC  X-COORD (M) 383352.03 383452.03 383452.03 383552.03 383952.03 383952.03 383952.03 38452.03 38452.03 38452.03 38452.03 38452.03 38452.03 38452.03 38452.03 38252.03 38252.03 38252.03 38352.03	Y-COORD (M)  3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771652.00	*** ECHO PATK LAKE RE *** HRA - PM DIESEI ( LT ELEV  AVERAGE CONCENTRATION INCLUDING SOURCE(S):  *** DISCRETE  ** CONC OF DPM CONC	habilitation Unmitigated)  VALUES AVERAGED OVER SITE ,  CARTESIAN RECEPTOR POI IN MICROGRAMS/M**3  X-COORD (M)	2 YEARS FOR  Y-COORD (M)	CONC 0.00982 0.01883 0.03573 0.055204 0.05565 0.04824 0.03786 0.02949 0.02373 0.01675 0.014141 0.01250 0.00213 0.00232 0.00299 0.00301 0.00560 0.00922 0.00391 0.00560 0.00923 0.00310 0.00560 0.00923 0.001895 0.03016 0.004129 0.0317 0.02618 0.02124 0.01781 0.01529 0.01331 0.01529 0.01331 0.01529 0.01331 0.01529 0.01331 0.01529 0.01331 0.011529 0.01331 0.011529 0.01331	ONSITE	11:23:2 PAGE 5
** AERMOD - VERS MODELOPTS: NNC  X-COORD (M) 383352.03 383452.03 383552.03 383552.03 383552.03 38352.03 38352.03 38452.03 38452.03 38452.03 38452.03 38452.03 38452.03 38452.03 38252.03 38252.03 38252.03 38252.03 38352.03	Y-COORD (M)  *** THE ANNUAL  Y-COORD (M)  3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771652.00	*** Echo Park Lake Re *** HRA - PM Diesel (  LT ELEV  AVERAGE CONCENTRATION INCLUDING SOURCE(S):   *** DISCRETE  ** CONC OF DPM  CONC	habilitation Unmitigated)  VALUES AVERAGED OVER SITE ,  CARTESIAN RECEPTOR POI  IN MICROGRAMS/M**3  X-COORD (M)	2 YEARS FOR  Y-COORD (M)	SOURCE GROUP:  ***  CONC  0.00982 0.01883 0.03573 0.05204 0.05565 0.04824 0.03786 0.02949 0.02373 0.01675 0.01411 0.01250 0.01092 0.00301 0.00595 0.00301 0.00595 0.00301 0.00595 0.00301 0.00599 0.00301 0.00599 0.00301 0.00599 0.00301 0.00599 0.00310 0.00599 0.00313 0.0064624 0.04129 0.03317 0.02618 0.02124 0.01781 0.01529 0.01331 0.01169 0.01032 0.00195 0.00131 0.01169 0.01032 0.00195 0.00238	*** ONSITE	11:23:2 PAGE 5
** AERMOD - VERS  MODELOPTS: NNC   X-COORD (M)  3  83352.03  833552.03  838552.03  838752.03  838752.03  838452.03  838452.03  838452.03  838452.03  838452.03  838452.03  838452.03  838452.03  838252.03  838252.03  838352.03  838352.03  838352.03  838352.03  838352.03  838352.03  838352.03  838352.03  838352.03  838352.03  838452.03  838452.03  838452.03  838452.03  838452.03  838452.03  838452.03  838452.03	Y-COORD (M)	*** ECHO PARK LAKE RE *** HRA - PM Diesel ( LT ELEV  AVERAGE CONCENTRATION INCLUDING SOURCE(S):  *** DISCRETE  ** CONC OF DPM  CONC	habilitation Unmitigated)  VALUES AVERAGED OVER SITE ,  CARTESIAN RECEPTOR POI  IN MICROGRAMS/M**3  X-COORD (M)	2 YEARS FOR  Y-COORD (M)	SOURCE GROUP:  ***  CONC  0.00982 0.01883 0.03573 0.05204 0.05565 0.04824 0.03786 0.02949 0.02373 0.01675 0.01411 0.01250 0.01092 0.00301 0.00595 0.00301 0.00595 0.00301 0.00595 0.00301 0.00599 0.00301 0.00599 0.00301 0.00599 0.00301 0.00599 0.00310 0.00599 0.00313 0.0064624 0.04129 0.03317 0.02618 0.02124 0.01781 0.01529 0.01331 0.01169 0.01032 0.00195 0.00131 0.01169 0.01032 0.00195 0.00238	*** ONSITE	11:23:2 PAGE 5
** AERMOD - VERS  MODELOPTS: NNC   X-COORD (M)  3  83352.03  833552.03  838552.03  838752.03  838752.03  838452.03  838452.03  838452.03  838452.03  838452.03  838452.03  838452.03  838452.03  838252.03  838252.03  838352.03  838352.03  838352.03  838352.03  838352.03  838352.03  838352.03  838352.03  838352.03  838352.03  838452.03  838452.03  838452.03  838452.03  838452.03  838452.03  838452.03  838452.03	Y-COORD (M)  *** THE ANNUAL  Y-COORD (M)  3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771652.00 3771702.00 3771702.00 3771702.00 3771702.00 3771702.00 3771702.00	*** Echo Park Lake Re *** HRA - PM Diesel (  LT ELEV  AVERAGE CONCENTRATION INCLUDING SOURCE(S):   *** DISCRETE  ** CONC OF DPM  CONC	habilitation Unmitigated)  VALUES AVERAGED OVER SITE ,  CARTESIAN RECEPTOR POI  IN MICROGRAMS/M**3  X-COORD (M)	2 YEARS FOR  Y-COORD (M)	SOURCE GROUP:  ***  CONC  0.00982 0.01883 0.03573 0.05204 0.05565 0.04824 0.03786 0.02949 0.02373 0.01675 0.01411 0.01250 0.01092 0.00301 0.00595 0.00301 0.00595 0.00301 0.00595 0.00301 0.00599 0.00301 0.00599 0.00301 0.00599 0.00301 0.00599 0.00310 0.00599 0.00313 0.0064624 0.04129 0.03317 0.02618 0.02124 0.01781 0.01529 0.01331 0.01169 0.01032 0.00195 0.00131 0.01169 0.01032 0.00195 0.00238	*** ONSITE	04/20/1 11:23:2 PAGE 5

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*** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                   ** CONC OF DPM IN MICROGRAMS/M**3
                                                                                                                  3771702.00
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*** AERMOD - VERSION 07026 ***
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*** Echo Park Lake Rehabilitation
*** HRA - PM Diesel (Unmitigated)
**MODELOPTs:
                                                                                                                                                                                                              PAGE 57
                                             DFAULT ELEV
                             *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: ONSITE *** INCLUDING SOURCE(S): SITE ,
                                                                           *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                  ** CONC OF DPM IN MICROGRAMS/M**3
         X-COORD (M) Y-COORD (M)
                                  Y-COORD (M) CONC.

3771802.00 0.00616
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*** Echo Park Lake Rehabilitation

*** HRA - PM Diesel (Unmitigated)
**MODELOPTs:
                                                                                                                                                                                                              PAGE 58
                                              DFAULT ELEV
                              *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: ONSITE ***
INCLUDING SOURCE(S): SITE ,
                                                                           *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                   ** CONC OF DPM IN MICROGRAMS/M**3
         X-COORD (M) Y-COORD (M)
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*** Echo Park Lake Rehabilitation

*** HRA - PM Diesel (Unmitigated)
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                                                                                                                                                                                                           11:23:25
**MODELOPTs:
                                             DFAULT ELEV
                              *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: HAULIDLE ***
HAULIDLE,
                                                                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                 ** CONC OF DPM IN MICROGRAMS/M**3
                                                                                                               X-COORD (M) Y-COORD (M) CONC

383792.56 3770989.25 0.00028

382752.03 3769952.00 0.00000

382852.03 3769952.00 0.00000

382952.03 3769952.00 0.00000

383052.03 3769952.00 0.00000

3831052.03 3769952.00 0.00000
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383660.97 3771329.50 0.00029
383667.38 3770537.25 0.00001
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*** AERMOD - VERSION 07026 ***
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                                                           *** HRA - PM Diesel (Unmitigated)
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**MODELOPTs:
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                            *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: HAULIDLE *** HAULIDLE,
                                                                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                 ** CONC OF DPM IN MICROGRAMS/M**3
        X-COORD (M) Y-COORD (M) CONC X-COORD (M) Y-COORD (M) CONC

384602.03 3770002.00 0.00000 384652.03 3770052.00 0.00000
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 *** AERMOD - VERSION 07026 ***
                                                        *** Echo Park Lake Rehabilitation
*** HRA - PM Diesel (Unmitigated)
                                                                                                                                                                                                  04/20/10
                                                                                                                                                                                                   11:23:25
**MODELOPTs:
                                           DFAULT ELEV
                            *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: HAULIDLE *** HAULIDLE,
                                                                     *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                                                          X-COORD (M) Y-COORD (M) CONC

384652.03 3770102.00 0.000
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           -COORD (M) Y-COORD (M) CONC
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                                                         *** Echo Park Lake Rehabilitation
 *** AERMOD - VERSION 07026 ***
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                                                         *** HRA - PM Diesel (Unmitigated)
                                                                                                                                                                                                   11:23:25
**MODELOPTs:
                                           DFAULT ELEV
                            *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: HAULIDLE ***
HAULIDLE,
                                                                     *** DISCRETE CARTESIAN RECEDTOR DOINTS ***
                                                              ** CONC OF DPM IN MICROGRAMS/M**3
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*** HRA - PM Diesel (Unmitigated)
 *** AERMOD - VERSTON 07026 ***
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                             *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: HAULIDLE ***
                                                        INCLUDING SOURCE(S):
                                                                                                    HAULIDLE.
                                                                        *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                 ** CONC OF DPM IN MICROGRAMS/M**3
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                                                           *** HRA - PM Diesel (Unmitigated)
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                             *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: HAULIDLE *** HAULIDLE,
                                                                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                ** CONC OF DPM IN MICROGRAMS/M**3
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*** AERMOD - VERSION 07026 ***
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                                                           *** Echo Park Lake Rehabilitation
                                                           *** HRA - PM Diesel (Unmitigated)
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**MODELOPTs:
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CONC	DFAU	LT ELEV					
	*** THE ANNUAL	AVERAGE CONCENTRATION	VALUES AVERAGED OVER	2 YEARS FOR	SOURCE GROUP:	HAULIDLE	***
		<pre>INCLUDING SOURCE(S):</pre>					
		*** DISCRETE	CARTESIAN RECEPTOR POI	NTS ***			
		** CONC OF DPM	IN MICROGRAMS/M**3		**		
	Y-COORD (M)		X-COORD (M)				
384602.03		0.00000	384652.03	3770502.00	0.00000		
384702.03 382802.03		0.00000	382752.03 382852.03	3770552.00 3770552.00	0.00000		
382902.03	3770552.00 3770552.00	0.00000 0.00001	382952.03	3770552.00 3770552.00	0.00000		
383102.03	3770552.00	0.00001	383152.03	3770552.00	0.00001		
383302.03	3770552.00 3770552.00	0.00001 0.00001		3770552.00 3770552.00	0.00001		
383402.03 383502.03		0.00002 0.00002	383452.03 383552.03	3770552.00 3770552.00	0.00002		
383602.03	3770552.00	0.00002	383652.03	3770552.00	0.00002		
383702.03 383802.03	3770552.00	0.00001 0.00001	383752.03 383852.03	3770552.00 3770552.00	0.00000		
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384302.03	3770552.00	0.00000	384352.03	3770552.00	0.00000		
384402.03 384502.03		0.00000	384452.03 384552.03	3770552.00 3770552.00	0.00000		
384602.03 384702.03	3770552.00 3770552.00	0.00000	384652.03 382752.03	3770552.00 3770602.00	0.00000		
382802.03	3770602.00 3770602.00	0.00000	382852.03	3770602.00 3770602.00	0.00000		
383002.03	3770602.00	0.00001	383052.03	3770602.00	0.00001		
383102.03 383202.03	3770602.00 3770602.00	0.00001 0.00001	383152.03 383252.03	3770602.00 3770602.00			
383302.03 383402.03		0.00001 0.00002	383352.03 383452.03	3770602.00 3770602.00	0.00002		
383502.03	3770602.00	0.00003	383552.03	3770602.00	0.00003		
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384002.03	3770602.00 3770602.00	0.00000	384052.03	3770602.00 3770602.00	0.00000		
384202.03	3770602.00	0.00000	384252.03	3770602.00	0.00000		
384302.03 384402.03	3770602.00	0.00000	384352.03 384452.03	3770602.00 3770602.00	0.00000		
384502.03 *** AERMOD - VER	3770602.00 RSION 07026 ***	0.00000 *** Echo Park Lake Re	384552.03 habilitation	3770602.00	0.00000	***	04/20/10
**MODELOPTs:		*** HRA - PM Diesel (	Unmitigated)			***	11:23:25 PAGE 66
CONC	DFAU	LT ELEV					11102 00
	*** THE ANNUAL	AVERAGE CONCENTRATION	VALUES AVERAGED OVER	2 VEARS FOR	SOURCE GROUP:	HAULIDLE	***
			VILLOUD IIV DIGIOUD OV DIC	E ILIMO ION			
		INCLUDING SOURCE(S):	HAULIDLE,				
		INCLUDING SOURCE(S):	HAULIDLE,  CARTESIAN RECEPTOR POI				
		INCLUDING SOURCE(S):	HAULIDLE, CARTESIAN RECEPTOR POI		**		
	Y-COORD (M)	INCLUDING SOURCE(S):  *** DISCRETE  ** CONC OF DPM  CONC	HAULIDLE,  CARTESIAN RECEPTOR POI  IN MICROGRAMS/M**3  X-COORD (M)	Y-COORD (M)	** CONC		
384602.03	Y-COORD (M)	*** DISCRETE  *** CONC OF DPM  CONC	HAULIDLE,  CARTESIAN RECEPTOR POI  IN MICROGRAMS/M**3  X-COORD (M)  384652.03	Y-COORD (M)	** CONC 		
384602.03 384702.03 382802.03	Y-COORD (M) 3 3770602.00 3 3770652.00	*** DISCRETE  *** CONC OF DPM  CONC  0.00000 0.00000 0.00000	HAULIDLE,  CARTESIAN RECEPTOR POI  IN MICROGRAMS/M**3  X-COORD (M)  384652.03 382752.03 382852.03	Y-COORD (M) 3770602.00 3770652.00	**		
384602.03 384702.03 382802.03 382902.03	Y-COORD (M) 3 3770602.00 3 3770602.00	*** DISCRETE  ** CONC OF DPM  CONC  0.00000 0.00000 0.00000 0.00000 0.00000	HAULIDLE,  CARTESIAN RECEPTOR POI  IN MICROGRAMS/M**3  X-COORD (M)  384652.03 382752.03 382852.03 382952.03	Y-COORD (M) 3770602.00	** CONC 0.00000 0.00000 0.00000 0.00000		
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<sup>\*\*\*</sup> DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

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** CONC OF DPM
                                                                                                IN MICROGRAMS/M**3
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                                                          *** Echo Park Lake Rehabilitation
*** HRA - PM Diesel (Unmitigated)
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**MODELOPTs:
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                             *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: HAULIDLE *** HAULIDLE,
                                                                        *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                 ** CONC OF DPM IN MICROGRAMS/M**3
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                                                          *** Echo Park Lake Rehabilitation
*** HRA - PM Diesel (Unmitigated)
                             *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: HAULIDLE *** HAULIDLE,
                                                                        *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                 ** CONC OF DPM IN MICROGRAMS/M**3
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*** Echo Park Lake Rehabilitation

*** HRA - PM Diesel (Unmitigated)
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*** AERMOD - VERSION 07026 ***
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**MODELOPTs:
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                                          DFAULT ELEV
                          *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: HAULIDLE ***
INCLUDING SOURCE(S): HAULIDLE,
                                                                    *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                             ** CONC OF DPM IN MICROGRAMS/M**3
 X-COORD (M) Y-COORD (M) CONC

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*** Echo Park Lake Rehabilitation

*** HRA - PM Diesel (Unmitigated)
382752.03 3771202.00
*** AERMOD - VERSION 07026 ***
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                                          DFAULT ELEV
                           *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: HAULIDLE *** HAULIDLE,
                                                                    *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                            ** CONC OF DPM IN MICROGRAMS/M**3
       X-COORD (M) Y-COORD (M) CONC

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*** AERMOD - VERSION 07026 ***
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*** Echo Park Lake Rehabilitation
*** HRA - PM Diesel (Unmitigated)
                                                                                                                                                                                                 11:23:25
**MODELOPTs:
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CONC
                                           DFAULT ELEV
                             *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: HAULIDLE ***
THOUJIDING SOURCE(S): HAULIDLE
                                                                     *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                              ** CONC OF DPM IN MICROGRAMS/M**3
         X-COORD (M) Y-COORD (M) CONC

383302.03 3771302.00 0.00001

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*** Echo Park Lake Rehabilitation

*** HRA - PM Diesel (Unmitigated)
             383252.03 3771402.00
MOD - VERSION 07026 ***
  *** AERMOD
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**MODELOPTs:
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CONC
                                            DFAULT ELEV
                           *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: HAULIDLE ***
HAULIDLE.
                                                                    *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                              ** CONC OF DPM IN MICROGRAMS/M**3
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*** AERMOD - VERSION 07026 ***
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*** Echo Park Lake Rehabilitation
*** HRA - PM Diesel (Unmitigated)
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**MODELOPTs:
                                                                                                                                                                                                          PAGE 74
                                           DFAULT ELEV
                            *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: HAULIDLE ***
HAULIDLE,
     X-COORD (M) Y-COORD (M) CONC

383352_03 3771502.00 0.00000
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383652_03 3771502.00 0.00004
383752_03 3771502.00 0.00005
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                                                                        *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                ** CONC OF DPM IN MICROGRAMS/M**3
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*** AERMOD - VERSION 07026 ***
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*** Echo Park Lake Rehabilitation
*** HRA - PM Diesel (Unmitigated)
**MODELOPTs:
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                                            DFAULT ELEV
                            *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: HAULIDLE ***
                                                                         *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                               ** CONC OF DPM IN MICROGRAMS/M**3
                                                         CONC :
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                                                          *** HRA - PM Diesel (Unmitigated)
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**MODELOPTs:
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                            *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: HAULIDLE ***
INCLUDING SOURCE(S): HAULIDLE.
                                                      INCLUDING SOURCE(S):
                                                                                                  HAULIDLE,
                                                                         *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                ** CONC OF DPM IN MICROGRAMS/M**3
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383402.03 3771702.00 0.00001
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*** AERMOD - VERSION 07026 ***
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                                                          *** Echo Park Lake Rehabilitation
*** HRA - PM Diesel (Unmitigated)
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**MODELOPTs:
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                             *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: HAULIDLE *** HAULIDLE,
                                                                         *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                                                             X-COORD (M) Y-COORD (M) CONC

383402.03 3771802.00 0.00000
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*** Echo Park Lake Rehabilitation
*** HRA - PM Diesel (Unmitigated)
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**MODELOPTs:
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                                                  *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: HAULIDLE ***
HAULIDLE,
                                                                                                                      *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                                                            ** CONC OF DPM IN MICROGRAMS/M**3
                                                                                                                                                                                        X-COORD (M) Y-COORD (M) CONC

383402.03 3771902.00 0.00000
383502.03 3771902.00 0.00001
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383702.03 3771902.00 0.00001
383802.03 3771902.00 0.00001
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*** Echo Park Lake Rehabilitation
*** HRA - PM Diesel (Unmitigated)
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**MODELOPTs:
                       *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: HAULROUT *** INCLUDING SOURCE(S): L0000001, L0000002, L0000003, L0000004, L0000005, L0000006, L0000007, L0000002, L0000011, L0000002, L0000012, L0000012, L0000013, L0000014, L0000014, L0000014, L0000014, L0000014, L0000015, L0000017, L0000018, L0000018
                                                                                                                         *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                                                               ** CONC OF DPM IN MICROGRAMS/M**3
             X-COORD (M) Y-COORD (M) CONC X

383660.97 3771329.50 0.00105
383667.38 3770537.25 0.01448
382802.03 3769952.00 0.00024
382802.03 3769952.00 0.00029
383002.03 3769952.00 0.00035
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*** AERMOD - VERSION 07026 ***
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                                                                                                 *** Echo Park Lake Rehabilitation

*** HRA - PM Diesel (Unmitigated)
                      *** THE ANNUAL AVERAGE CONCENTRATION INCLUDING SOURCE(S): L0000001, L0000002, L0000004, L0000005, L0000006, L0000001, L0000001, L0000001, L0000001, L0000001, L0000001, L0000001, L0000001, L0000001, L000001, L00
                                                                                                                          *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                                                               ** CONC OF DPM IN MICROGRAMS/M**3
               X-COORD (M) Y-COORD (M)
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*** AERMOD - VERSION 07026 ***
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*** Echo Park Lake Rehabilitation

*** HRA - PM Diesel (Unmitigated)
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**MODELOPTs:
                                                                             DEAULT ELEV
                        *** THE ANNUAL AVERAGE CONCENTRATION LOUGHOUS, LOUGHOUS,
                                                                                                                             *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                                                                ** CONC OF DPM IN MICROGRAMS/M**3
             X-COORD (M) Y-COORD (M) CONC

384602.03 3770102.00 0.00007
384702.03 3770102.00 0.00007
382802.03 3770152.00 0.00024
382902.03 3770152.00 0.00030
383002.03 370152.00 0.00039
383102.03 370152.00 0.00052
383102.03 370152.00 0.00052
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384652.03 3770102.00 0.000
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*** AERMOD - VERSION 07026 ***
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                                                                                                    *** Echo Park Lake Rehabilitation
                                                                                                     *** HRA - PM Diesel (Unmitigated)
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**MODELOPTs:
                                                                            DFAULT ELEV
                       *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: HAULROUT *** INCLUDING SOURCE(S): L0000001, L0000002, L0000003, L0000004, L0000005, L0000006, L0000007, L0000008, L0000001, L0000011, L0000012, L0000012, L0000013, L0000014, L0000018, L0000017, L0000018, L0000018
                                                                                                                             *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                                                               ** CONC OF DPM IN MICROGRAMS/M**3
X-COORD (M) Y-COORD (M) CONC X-COORD (M) Y-COORD (M) CONC 384602.03 3770202.00 0.00009 384652.03 3770202.00 0.00000
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*** Echo Park Lake Rehabilitation
*** HRA - PM Diesel (Unmitigated)
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MOD - VERSION 07026 ***
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 *** AERMOD
**MODELOPTs:
                                                                                                                                                                                                                                                                                PAGE 83
                                                            DFAULT ELEV
                  *** THE ANNUAL AVERAGE CONCENTRATION UALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: HAULROUT *** L0000008, L0000009, L0000009, L0000011, L00000012, L0000001, L00000014, L00000015, L00000017, L0000018, L0000019, L00000020, L0000021, L0000022, L0000023, L0000024, L0000025, L0000026, L0000027, L0000028, L0000029, L0000030, . . . ,
                                                                                                  *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                                        ** CONC OF DPM IN MICROGRAMS/M**3
           X-COORD (M) Y-COORD (M) CONC

384602.03 3770302.00 0.00010

384702.03 3770302.00 0.00002

382802.03 3770352.00 0.00026
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*** Echo Park Lake Rehabilitation
*** HRA - PM Diesel (Unmitigated)
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*** AERMOD - VERSION 07026 ***
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**MODELOPTs:
                                                            DFAULT ELEV
                  *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: HAULROUT *** INCLUDING SOURCE(S): L0000001, L0000002, L0000003, L0000004, L0000005, L0000006, L0000007, L0000002, L000001, L0000011, L0000012, L0000013, L0000014, L0000015, L0000013, L0000014, L0000015, L0000017, L0000018, L0000017, L0000018, L0000017, L0000018, L0000018,
                                                                                                 *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                                      ** CONC OF DPM IN MICROGRAMS/M**3

        X-COORD (M)
        Y-COORD (M)
        CONC
        X-COORD (M)
        Y-COORD (M)
        CONC

        384602.03
        3770402.00
        0.00012
        384652.03
        3770402.00
        0.00013

        384702.03
        3770402.00
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        382752.03
        3770452.00
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        382802.03
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*** AERMOD - VERSION 07026 ***
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                                                                                  *** Echo Park Lake Rehabilitation
*** HRA - PM Diesel (Unmitigated)
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PAGE 85
                    *** THE ANNUAL AVERAGE CONCENTRATION LOUGHOUS, LOUGHOUS,
                                                                                                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                                           ** CONC OF DPM IN MICROGRAMS/M**3
X-COORD (M) Y-COORD (M) CONC

384602.03 3770502.00 0.00015
384702.03 3770552.00 0.00012
382802.03 3770552.00 0.00027
382902.03 3770552.00 0.00035
383002.03 3770552.00 0.00047
383102.03 3770552.00 0.00068
383202.03 3770552.00 0.00068
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015 384652.03 3770502.00 0.000

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- VERSION 07026 ***
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*** Echo Park Lake Rehabilitation
*** HRA - PM Diesel (Unmitigated)
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  *** AERMOD
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                                                                DFAULT ELEV
                    *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: HAULROUT *** INCLUDING SOURCE(S): L0000001, L0000001, L0000002, L0000004, L0000005, L0000006, L0000007, L0000001, L0000011, L0000012, L0000013, L0000014, L0000015, L0000014, L0000015, L0000014, L0000015, L0000017, L0000018, L0000019, L0000020, L0000021, L0000022, L0000023, L0000024, L0000025, L0000026, L0000027, L0000028, L0000029, L0000030, . . . ,
                                                                                                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                                          ** CONC OF DPM IN MICROGRAMS/M**3
             X-COORD (M) Y-COORD (M) CONC X-COORD (M) Y-COORD (M) CONC 384602.03 3770602.00 0.00018 384752.03 3770602.00 0.00012 382752.03 3770652.00 0.00022 382802.03 3770652.00 0.00022 382802.03 3770652.00 0.00028 382952.03 3770652.00 0.00031 382952.03 3770652.00 0.00036 383002.03 3770652.00 0.00042 383052.03 3770652.00 0.00050
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*** AERMOD - VERSION 07026 ***
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                                                                                                                             *** HRA - PM Diesel (Unmitigated)
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**MODELOPTs:
                                                                                                 DFAULT ELEV
                              *** THE ANNUAL AVERAGE CONCENTRATION INCLUDING SOURCE(S): L0000001, L0000002, L0000003, L0000004, L0000005, L0000006, L0000007, L0000002, L000001, L0000012, L0000013, L0000014, L0000015, L0000016, L0000017, L0000018, L0000018, L0000018, L0000018, L0000019, L0000018, L0000018,
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*** AERMOD - VERSION 07026 ***
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*** Echo Park Lake Rehabilitation

*** HRA - PM Diesel (Unmitigated)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                11:23:25
PAGE 88
                             *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: HAULROUT *** L00000018, L00000019, L00000010, L00000011, L00000012, L00000013, L00000014, L00000015, L00000015, L00000017, L00000018, L00000019, L0000019, L0000011, L0000012, L0000012, L0000012, L0000012, L0000013, L0000013, L0000013, L0000014, L0000014, L0000015, L0000015, L0000015, L0000017, L0000018, L0000018, L0000018, L0000018, L0000019, L0000018, L000001
                                                                                                                                                             *** DISCRETE CARTESIAN RECEPTOR POINTS ***
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383552.03 3770952.00
*** AERMOD - VERSION 07026 ***
                                                                                                                      0.00160
0.00324
                                                                                                         *** Echo Park Lake Rehabilitation
*** HRA - PM Diesel (Unmitigated)
                                                                                                                                                                                                                                                                                                                                                                        11:23:25
 **MODELOPTs:
                                                                                                                                                                                                                                                                                                                                                                        PAGE 89
CONC
                                                                                 DFAULT ELEV
                          *** THE ANNUAL AVERAGE CONCENTRATION DISCUSSION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: HAULROUT *** L00000018, L00000019, L00000019, L00000011, L00000012, L00000012, L00000013, L00000014, L00000015, L00000016, L00000017, L00000018, L00000019, L0000019, L00000019, L0000019, L000
                                                                                                                                    *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                                                                    ** CONC OF DPM IN MICROGRAMS/M**3
                X-COORD (M) Y-COORD (M) CONC

383852.03 3770952.00 0.00181
383952.03 3770952.00 0.00227
384152.03 3770952.00 0.00141
384252.03 3770952.00 0.00968
384352.03 3770952.00 0.00068
384352.03 3770952.00 0.00068
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383902.03 3770952.00 0.006
384002.03 3770952.00 0.001
384102.03 3770952.00 0.001
384202.03 3770952.00 0.001
384302.03 3770952.00 0.001
384302.03 3770952.00 0.000
384402.03 3770952.00 0.000
384502.03 3770952.00 0.000
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*** AERMOD - VERSION 07026 ***
                                                                                                         *** Echo Park Lake Rehabilitation
*** HRA - PM Diesel (Unmitigated)
                                                                                                                                                                                                                                                                                                                                                                        11:23:25
  **MODELOPTs:
                                                                                DFAULT ELEV
                          *** THE ANNUAL AVERAGE CONCENTRATION DICTURE 1 VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: HAULROUT *** INCLUDING SOURCE(S): L0000001, L000001, L000001
                                                                                                                                    *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                                                                   ** CONC OF DPM IN MICROGRAMS/M**3
                  X-COORD (M) Y-COORD (M) CONC

384302.03 3771052.00 0.00079

384402.03 3771052.00 0.00059
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   *** AERMOD - VERSION 07026 ***
                                                                                                    *** Echo Park Lake Rehabilitation
*** HRA - PM Diesel (Unmitigated)
CONC
                                                                              DFAULT ELEV
                         *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: HAULROUT ***

INCLUDING SOURCE(S): L0000001, L00000012, L0000002, L0000004, L0000005, L0000006, L0000007, L00000018, L00000019, L00000019, L00000019, L00000019, L00000011, L00000011, L00000012, L0000011, L000011, L0000111, L0000111,
                                                                                                                             *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                                                               ** CONC OF DPM IN MICROGRAMS/M**3
                 X-COORD (M) Y-COORD (M)

382902.03 3771202.00

383002.03 3771202.00
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*** Echo Park Lake Rehabilitation
*** HRA - PM Diesel (Unmitigated)
                        383152.03 3771302.00
MOD - VERSION 07026 ***
   *** AERMOD
 **MODELOPTs:
                                                                                                                                                                                                                                                                                                                                                      PAGE 92
CONC
                                                                              DFAULT ELEV
                         *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: HAULROUT *** L0000008, L0000009, L0000001, L0000018, L00000019, L00000019, L0000001, L00000011, L0000012, L0000013, L0000014, L0000018, L0000019, L0000018, L0000018, L0000018, L0000019, L0000018, L0000019, L0000018, L00000
                                                                                                                             *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                                                               ** CONC OF DPM IN MICROGRAMS/M**3
                                                        Y-COORD (M) CONC

3771302.00 0.00024
3771302.00 0.00033
3771302.00 0.00049
3771302.00 0.00049
3771302.00 0.00159
3771302.00 0.00177
3771302.00 0.00143
3771302.00 0.00143
3771302.00 0.00105
3771302.00 0.00081
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383302.03 3771302.00 0.00028
383402.03 3771302.00 0.00040
                 X-COORD (M) Y-COORD (M)
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                                                                                                      *** Echo Park Lake Rehabilitation
*** HRA - PM Diesel (Unmitigated)
*** AERMOD - VERSION 07026 ***
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                      *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: HAULROUT *** L0000008, L0000009, L0000001, L000001, L00000
                                                                                                                               *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                                                                  ** CONC OF DPM IN MICROGRAMS/M**3
            X-COORD (M) Y-COORD (M) CONC

383352.03 3771402.00 0.00027
383452.03 3771402.00 0.00039
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383652.03 3771402.00 0.0005
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*** HRA - PM Diesel (Unmitigated)
*** AERMOD - VERSION 07026 ***
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PAGE 94
                      *** THE ANNUAL AVERAGE CONCENTRATION INCLUDING SOURCE(S): L0000001, L0000002, L0000003, L0000004, L0000005, L0000006, L00000007, L0000001, L0000001, L0000001, L0000001, L0000001, L0000001, L0000001, L0000001, L0000001, L000001, 
                                                                                                                               *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                                                                  ** CONC OF DPM IN MICROGRAMS/M**3
           X-COORD (M) Y-COORD (M) CONC

383352.03 3771502.00 0.00023
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*** AERMOD - VERSION 07026 ***
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*** Echo Park Lake Rehabilitation
*** HRA - PM Diesel (Unmitigated)
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**MODELOPTs:
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                                                                                                 DFAULT ELEV
                              *** THE ANNUAL AVERAGE CONCENTRATION DICTURE 1 VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: HAULROUT *** INCLUDING SOURCE(S): L0000001, L000001, L000001
                                                                                                                                                            *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                                                                                         ** CONC OF DPM IN MICROGRAMS/M**3
                 X-COORD (M) Y-COORD (M) CONC 3

383352.03 3771602.00 0.00020
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*** AERMOD - VERSION 07026 ***
                                                                                                                              *** Echo Park Lake Rehabilitation

*** HRA - PM Diesel (Unmitigated)
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**MODELOPTs:
                                                                                                 DFAULT ELEV
                             *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: HAULROUT *** INCLUDING SOURCE(S): L0000001, L0000002, L00000013, L0000004, L00000015, L00000016, L00000017, L00000017, L00000018, L00000017, L00000018, L00000017, L00000017, L0000018, L00000017, L0000018, L000001
                                                                                                                                                            *** DISCRETE CARTESIAN RECEPTOR POINTS ***
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*** Echo Park Lake Rehabilitation

*** HRA - PM Diesel (Unmitigated)
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*** AERMOD - VERSION 07026 ***
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11:23:25
PAGE 97
**MODELOPTs:
                                                                                  DFAULT ELEV
                          *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: HAULROUT *** L0000008, L0000009, L0000009, L0000001, L000001, L0000001, L0000001, L0000001, L0000001, L0000001, L0000001, L0000001, L0000001, L0000001, L000001, L000001, L000001, L0000001, L0000001, L000001, L000001
          X-COORD (M) Y-COORD (M) CONC

383352.03 3771802.00 0.00016
383452.03 3771802.00 0.00027
383552.03 3771802.00 0.00027
383652.03 3771802.00 0.00044
383752.03 3771802.00 0.00044
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383402.03 3771802.00 0.00018
383502.03 3771802.00 0.00024
383602.03 3771802.00 0.00031
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*** AERMOD - VERSION 07026 ***
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*** Echo Park Lake Rehabilitation
*** HRA - PM Diesel (Unmitigated)
**MODELOPTs:
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                                                                                 DFAULT ELEV
                          *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: HAULROUT *** L0000008, L0000009, L0000009, L0000011, L0000012, L0000001, L00000012, L00000014, L00000015, L00000017, L0000018, L0000019, L0000019, L0000019, L0000011, L0000011, L0000012, L0000011, L0000012, L0000013, L0000014, L0000018, L0000019, L0000018, L0000018, L0000019, L0000018, L0000
                                                                                                                                    *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                                                                    ** CONC OF DPM IN MICROGRAMS/M**3
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383402.03 3771902.00 0.00016
383502.03 3771902.00 0.00021
383602.03 3771902.00 0.00027
383702.03 3771902.00 0.00034
383802.03 3771902.00 0.00040
383902.03 3771902.00 0.00043
384002.03 3771902.00 0.00043
                X-COORD (M) Y-COORD (M) CONC X
383352.03 3771902.00 0.00014
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*** AERMOD - VERSION 07026 ***
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*** Echo Park Lake Rehabilitation
*** HRA - PM Diesel (Unmitigated)
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\*\*MODELOPTs:

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DFAULT ELEV
CONC
                                        *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER
                                                                                                                                                                                        2 YEARS FOR SOURCE GROUP: ALL
                   THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): SITE , HAULIDLE, L0000001, L0000002, L0000003, L0000004, L0000005, L0000001, L0000012, L0000013, L0000014, L0000015, L0000015, L0000016, L0000018, L0000019, L0000020, L0000021, L0000022, L0000023, L0000024, L0000025, L0000026, L0000027, L0000028, . . . . ,
                                                                                                   *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                                         ** CONC OF DPM IN MICROGRAMS/M**3
                                                                                                                                                     X-COORD (M) Y-COORD (M)
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*** Echo Park Lake Rehabilitation
*** HRA - PM Diesel (Unmitigated)
  384502.03 3770002.00
*** AERMOD - VERSION 07026 ***
 **MODELOPTs:
                                                                                                                                                                                                                                                                               PAGE 100
                                                             DFAULT ELEV
                   *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): SITE , HAULIDLE, L0000001, L0000002, L0000003, L0000004, L0000005, L0000001, L0000001, L0000001, L0000015, L0000016, L0000017, L0000018, L0000019, L0000019, L00000012, L00000012, L00000013, L0000014, L0000015, L0000016, L0000018, L0000019, L0000019, L00000012, L00000012, L00000013, L0000014, L0000018, L0000019, L0000019, L00000019, L0000019, L00000019, L0000019, L0
                                                                                                   *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                                       ** CONC OF DPM IN MICROGRAMS/M**3
             X-COORD (M) Y-COORD (M) CONC

384652.03 3770002.00 0.00188
382752.03 3770052.00 0.02979
382852.03 3770052.00 0.03475
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*** AERMOD - VERSION 07026 ***
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*** Echo Park Lake Rehabilitation
*** HRA - PM Diesel (Unmitigated)
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384552.03
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 **MODELOPTs:
                                                                                                                                                                                                                                                                               PAGE 101
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DEAULT ELEV

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*** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): SITE , HAULIDLE, L0000001, L0000002, L0000003, L0000001, L0000001, L0000001, L0000001, L0000001, L0000001, L0000001, L0000001, L0000001, L000001, L0000001, L000001, L000
                                                                                                   *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                                       ** CONC OF DPM IN MICROGRAMS/M**3
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*** AERMOD - VERSION 07026 ***
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*** Echo Park Lake Rehabilitation
*** HRA - PM Diesel (Unmitigated)
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                                                         DFAULT ELEV
                 *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): SITE , HAULIDLE, L0000001, L0000002, L0000003, L0000004, L0000005,
L0000006, L0000007, L0000008, L0000009, L0000001, L000001, L0000013, L0000014, L0000015, L0000016, L0000017, L0000018, L0000019, L0000024, L0000025, L0000026, L0000027, L0000028, ...,
                                                                                                  *** DISCRETE CARTESIAN RECEPTOR POINTS ***
        X-COORD (M) Y-COORD (M) CONC

384602.03 3770202.00 0.00332
384702.03 3770252.00 0.03055
382902.03 3770252.00 0.03795
3770252.00 0.03795
3770252.00 0.04638
0.05490
                                                                                     ** CONC OF DPM IN MICROGRAMS/M**3
                                                                                                                                                    X-COORD (M) Y-COORD (M) CONC

384652.03 3770202.00 0.00221
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0.00871
0.00690
0.00561
0.00463
                384202.03
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                384402.03
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                384502.03
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                                                                                                                                                                                                                                  0.00276
                                                                             *** Echo Park Lake Rehabilitation
*** HRA - PM Diesel (Unmitigated)
*** AERMOD - VERSION 07026 ***
                                                                                                                                                                                                                                                                                 04/20/10
                                                         DFAULT ELEV
                                     *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): SITE , HAULIDLE, L0000001, L0000002, L0000003, L0000004, L0000005,
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L0000006, L0000007, L0000008, L0000009, L0000010, L0000011, L0000012, L0000013, L0000014, L0000015, L0000016, L0000017, L0000018, L0000019, L0000020, L0000021, L0000022, L0000023, L0000024, L0000025, L0000026, L0000027, L0000028, . . . ,
                                                                              *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                     ** CONC OF DPM IN MICROGRAMS/M**3
                                                                                                                     X-COORD (M) Y-COORD (M) (
384652.03 3770352.00 (
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382852.03 3770352.00 (
382952.03 3770352.00 (
383052.03 3770352.00 (
383152.03 3770352.00 (
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0.04623
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                                    3770302.00
3770302.00
3770352.00
3770352.00
              384702.03
382802.03
382902.03
383002.03
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              383102.03
                                     3770352.00
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              383302.03
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              383802.03
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              383902.03
                                     3770352.00
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              384002.03
                                     3770352.00
              384102.03
384202.03
384302.03
384402.03
                                    3770352.00
3770352.00
3770352.00
3770352.00
              384502.03
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                                                                     0.00313
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              384602.03
                                     3770352.00
                                                                     0.00281
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              384702.03
                                     3770352.00
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              382802.03
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              383102.03
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              383202.03
                                     3770402.00
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              383302.03
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                                                                     0.08728
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              383402.03
                                     3770402.00
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              383502.03
383602.03
383702.03
                                    3770402.00
3770402.00
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0.06068
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              383802.03
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              383902.03
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                                                                     0.01106
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              384002.03
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384502.03
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                                                             *** Echo Park Lake Rehabilitation

*** HRA - PM Diesel (Unmitigated)
 *** AERMOD - VERSION 07026 ***
                                                                                                                                                                                                                      04/20/10
                                                                                                                                                                                                                       11:23:25
**MODELOPTs:
                                               DFAULT ELEV
              *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): SITE , HAULIDLE, L0000001, L0000002, L0000003, L0000004, L00000015, L00000015, L00000017, L00000018, L0000019, L00000019, L00000012, L00000012, L00000012, L0000013, L0000014, L0000015, L0000016, L0000017, L0000018, L0000019, L00000019, L00000012, L00000022, L00000023, L0000024, L0000025, L0000026, L0000027, L0000028, . . . ,
                                                                              *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                   ** CONC OF DPM IN MICROGRAMS/M**3
         X-COORD (M) Y-COORD (M) CONC :

384602.03 3770402.00 0.00303
384702.03 3770402.00 0.00278
382802.03 3770452.00 0.02530
382902.03 3770452.00 0.03523
                                                                                                                     X-COORD (M) Y-COORD (M) (384652.03 3770402.00 382752.03 3770452.00 382852.03 3770452.00 382852.03 3770452.00
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0.02219
0.02895
0.03824
                                                             0.02530
0.03323
0.04403
0.05814
0.07546
              383002.03
                                     3770452.00
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              383102.03
                                     3770452.00
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              383202.03
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              383302.03
383402.03
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383602.03
                                     3770452.00
3770452.00
3770452.00
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                                                                     0.07340
0.09437
0.10981
0.10977
0.08283
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383452.03
383552.03
383652.03
                                                                                                                                                  3770452.00
                                                                                                                                                                                   0.10308
              383702.03
                                     3770452.00
                                                                     0.04239
                                                                                                                          383752.03
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                                                                                                                                                                                   0.02806
              383802.03
                                     3770452.00
                                                                     0.01990
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              383902.03
                                     3770452.00
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              384002.03
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384152.03
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384352.03
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0.00822
0.00660
0.00543
0.00455
              384402.03
                                     3770452.00
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384552.03
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              384502.03
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              384602.03
                                     3770452.00
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                                     3770452.00
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                                                                      0.02368
              383002.03
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              383102.03
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              383202.03
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0.13611
0.13763
0.09185
              383302.03
                                                                      0.10028
              383702.03
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              383802.03
                                     3770502.00
                                                                     0.02489
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              383902.03
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              384002.03
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384202.03
384302.03
              384402.03
                                     3770502.00
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3770502.00
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 384502.03 3770502.00
*** AERMOD - VERSION 07026 ***
                                                                      0.00407
                                                                                                                          384552.03
                                                                                                                                                                                  0.00384
                                                              *** Echo Park Lake Rehabilitation
*** HRA - PM Diesel (Unmitigated)
                                                                                                                                                                                                                      04/20/10
               *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): SITE , HAULIDLE, L0000001, L0000002, L0000003, L0000004, L0000005,
L0000007, L0000008, L0000009, L0000001, L0000011, L0000012, L0000013, L0000014, L0000015, L0000016, L0000017,
L0000018, L0000019, L0000020, L0000021, L0000023, L0000024, L0000025, L0000026, L0000027, L0000028, . . . ,
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\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\* \*\* CONC OF DPM IN MICROGRAMS/M\*\*3 3770502.00 384602.03 3770502.00 0.00329 382802.03 3770552.00 0.02203 382852.03 3770552.00 0.02536 0.02203 0.02937 0.04002 0.05525 0.07640 0.10450 3770552.00 3770552.00 3770552.00 3770552.00 3770552.00 3770552.00 3770552.00 0.02536 0.03420 0.04698 0.06501 0.08953 383002.03 383102.03 383202.03 383052.03 383152.03 383252.03 3770552.00 3770552.00 383302.03 383352.03 0.12141 383402.03 3770552.00 0.14077 383452.03 3770552.00 0.16478 0.14077 0.19427 0.19059 0.09880 0.03332 0.01869 0.01305 383502.03 3770552.00 383552.03 3770552.00 0.22741 3770552.00 3770552.00 3770552.00 3770552.00 3770552.00 3770552.00 383652.03 383752.03 383752.03 383602 03 383902.03 384002.03 383952.03 384052.03 0.01128 384102.03 3770552.00 0.00986 384152.03 3770552.00 0.00870 0.00986 0.00774 0.00626 0.00526 0.00456 0.00404 0.00361 384152.03 384252.03 384352.03 384452.03 384652.03 382752.03 3770552.00 3770552.00 3770552.00 3770552.00 3770552.00 3770552.00 384202.03 3770552.00 0.00693 384302.03 384402.03 384502.03 384602.03 3770552.00 3770552.00 3770552.00 3770552.00 0.00693 0.00571 0.00488 0.00429 0.00382 3770552.00 3770602.00 384702.03 0.01784 382802.03 3770602.00 0.02038 382852.03 3770602.00 0.02348 382902.03 3770602.00 0.02725 382952.03 3770602.00 0.03185 383002.03 383102.03 383202.03 3770602.00 3770602.00 3770602.00 3770602.00 0.02723 0.03749 0.05272 0.07496 0.10665 383052.03 383152.03 383252.03 3770602.00 3770602.00 3770602.00 0.04436 0.06282 0.08945 383302.03 383352.03 0.12715 383402.03 3770602.00 0.15263 383452.03 3770602.00 0.19518 383502.03 3770602.00 0.28111 383552.03 3770602.00 0.29212 383602.03 3770602.00 0.28101 383652.03 3770602.00 0.24922 383702.03 383802.03 383902.03 384002.03 0.19049 0.05365 0.02579 383752.03 383852.03 383952.03 384052.03 3770602.00 3770602.00 3770602.00 0.11642 0.03461 0.02044 3770602.00 3770602.00 3770602.00 0.01680 0.01414 384102.03 3770602.00 0.01209 384152.03 3770602.00 0.01048 384202.03 3770602.00 0.00919 384252.03 3770602.00 0.00814 0.00730 0.00606 0.00519 384302 03 384352 03 0.00662 384302.03 3770602.00 384402.03 3770602.00 384502.03 3770602.00 \*\*\* AERMOD - VERSION 07026 \*\*\* \*\*\* Echo Park Lake Rehabilitation \*\*\* HRA - PM Diesel (Unmitigated) \*\*MODELOPTs: PAGE 106 DFAULT ELEV \*\*\* THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: ALL \*\*\*

INCLUDING SOURCE(S): SITE , HAULIDLE, L0000001, L0000002, L0000003, L0000004, L00000015, L00000015, L00000017, L00000018, L0000019, L00000019, L00000012, L00000012, L00000012, L0000013, L0000014, L0000015, L0000016, L0000017, L0000018, L0000019, L00000019, L00000012, L00000022, L00000023, L0000024, L0000025, L0000026, L0000027, L0000028, . . . , \*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\* \*\* CONC OF DPM IN MICROGRAMS/M\*\*3 X-COORD (M) Y-COORD (M) (384652.03 3770652.00 382752.03 3770652.00 382852.03 3770652.00 CONC CONC 0.00453 3770602.00 0.00424 3770602.00 0.01645 3770652.00 3770652.00 3770652.00 3770652.00 0.01876 0.02507 0.03471 0.04955 382852.03 382952.03 383052.03 383152.03 3770652.00 3770652.00 3770652.00 3770652.00 0.02159 0.02937 0.04133 0.05972 382802.03 3770652.00 383202.03 0.07226 383252.03 3770652.00 0.08766 383302.03 3770652.00 0.10654 383352.03 383452.03 3770652.00 0.12980 383402.03 3770652.00 3770652 00 0.20167 0.15939 0.28750 0.40208 0.42413 0.06180 0.02934 383502.03 383602.03 383702.03 383852.03 3770652.00 3770652.00 3770652.00 3770652.00 383552.03 383652.03 383802.03 383902.03 3770652.00 3770652.00 3770652.00 3770652.00 0.38072 3770652.00 383952.03 384002.03 3770652.00 0.02284 384052.03 3770652.00 0.01847 384102.03 3770652.00 0.01534 0.01534 0.01119 0.00868 0.00708 0.00595 0.00510 384152.03 3770652.00 0.01299 384202.03 3770652.00 3770652.00 3770652.00 3770652.00 3770652.00 0.01299 0.00979 0.00780 0.00647 0.00550 384302.03 384402.03 384502.03 384602.03 3770652.00 3770652.00 3770652.00 3770652.00 3770652.00 0.00474 3770652.00 384652.03 384702.03 0.00442 382752.03 3770702.00 0.01511 382802.03 3770702.00 0.01719 382852.03 3770702.00 0.01973 382902.03 3770702.00 0.02289 0.02683 0.03799 0.05582 0.08425 383002.03 383102.03 383202.03 382952.03 383252.03 3770702.00 383302.03 3770702.00 0.10423 383352.03 3770702.00 0.12951 383402.03 3770702.00 0.16223 383452.03 3770702.00 0.20711 383502.03 3770702.00 0.27551 3770702.00 3770702.00 3770702.00 3770702.00 3770702.00 383502.03 383802.03 383902.03 384002.03 384102.03 384202.03 3770702.00 3770702.00 3770702.00 3770702.00 3770702.00 3770702.00 0.39367 0.10465 0.04223 0.02437 0.24527 0.06179 0.03128 0.01966 383552.03 383552.03 383852.03 383952.03 384052.03 384152.03 384252.03 0.01629 0.01379 3770702.00 0.01190 384302.03 3770702.00 0.01043 384352.03 3770702.00 0.00927 384402.03 3770702.00 0.00832 384452.03 3770702.00 0.00753 384502.03 3770702.00 0.00685 384552.03 3770702.00 384552.03 3770702.00 384652.03 3770702.00 382752.03 3770752.00 \*\*\* AERMOD - VERSION 07026 \*\*\* 0.00753 0.00627 0.00531 0.01385 \*\*\* Echo Park Lake Rehabilitation \*\*\* HRA - PM Diesel (Unmitigated) 04/20/10 11:23:25 \*\*MODELOPTs: PAGE 107 DFAULT ELEV \*\*\* THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: ALL \*\*\*
INCLUDING SOURCE(S): SITE , HAULIDLE, L0000001, L0000002, L0000003, L0000004, L0000005,
L0000007, L0000008, L0000009, L0000001, L0000011, L0000012, L0000013, L0000014, L0000015, L0000016, L0000017,
L0000018, L0000019, L0000020, L0000021, L0000023, L0000024, L0000025, L0000026, L0000027, L0000028, . . . ,

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** CONC OF DPM
                                                                                                                                     IN MICROGRAMS/M**3
            X-COORD (M) Y-COORD (M)
                                                                                         CONC
                                                                                                                                                       X-COORD (M) Y-COORD (M)
                                                                                                                                                                                                                                    CONC
                                                                                         0.01795
0.02429
0.03447
                                                                                                                                                                                     3770752.00
3770752.00
3770752.00
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383002.03
383102.03
                  383052.03
                                                3770752.00
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                  383152.03
                                                3770752.00
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                                                                                        0.05127
0.07932
0.12643
0.21029
0.41967
0.14502
0.05696
                  383252.03
                                                3770752.00
                                                                                                                                                             383302.03
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                                              3770752.00
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3770752.00
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383502.03
383502.03
383802.03
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3770752.00
3770752.00
                  383352.03
383452.03
383552.03
383852.03
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0.28375
0.31788
0.08519
                  383952.03
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                   384052.03
                                                3770752.00
                                                                                          0.03139
                                                                                                                                                             384102.03
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                                                                                *** Echo Park Lake Rehabilitation
*** HRA - PM Diesel (Unmitigated)
                                                                                                                                                                                                                                                                                  04/20/10
**MODELOPTs:
                   *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): SITE , HAULIDLE, L0000001, L0000002, L0000003, L0000004, L0000005, L0000001, L0000001, L0000001, L0000016, L0000016, L0000017, L0000018, L0000019, L0000002, L00000011, L0000012, L0000012, L0000013, L0000014, L0000014, L0000015, L0000018, L0000019, L0000020, L0000021, L0000022, L0000023, L0000024, L0000025, L0000026, L0000027, L0000028, ...,
                                                                                                    *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                                         ** CONC OF DPM IN MICROGRAMS/M**3
            X-COORD (M) Y-COORD (M)
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*** Echo Park Lake Rehabilitation

*** HRA - PM Diesel (Unmitigated)
**MODELOPTs:
                                                                                                                                                                                                                                                                                  PAGE 109
                                                              DFAULT ELEV
                                     *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER
                                                                                                                                                                                         2 YEARS FOR SOURCE GROUP: ALL
                   INCLUDING SOURCE(S): SITE , HAULIDLE, L000001, L0000012, L0000013, L0000016, L0000019, L0000019, L0000001, L0000011, L0000012, L0000013, L0000014, L0000015, L0000017, L0000018, L0000019, L0000011, L0000012, L0000013, L0000014, L0000015, L0000018, L0000019, L0000019, L0000011, L0000012, L0000013, L0000014, L0000015, L0000015, L0000018, L0000019, L0000019, L0000011, L0000011,
                                                                                                     *** DISCRETE CARTESIAN RECEPTOR POINTS ***
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\*\* CONC OF DDM IN MICROGRAMS/M\*\*3

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X-COORD (M) Y-COORD (M)
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                                                                                                 *** Echo Park Lake Rehabilitation
*** HRA - PM Diesel (Unmitigated)
  *** AERMOD - VERSION 07026 ***
                                                                                                                                                                                                                                                                                                                                            04/20/10
                                                                                                                                                                                                                                                                                                                                              11:23:25
**MODELOPTs:
                       *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): SITE , HAULIDLE, L0000001, L0000002, L0000003, L0000004, L00000016, L00000015, L0000016, L00000017, L0000018, L0000019, L0000019, L00000012, L00000012, L0000012, L0000013, L0000014, L0000015, L0000016, L0000018, L0000019, L0000019, L00000019, L0000019, L00
                                                                                                                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                                                             ** CONC OF DPM IN MICROGRAMS/M**3
                X-COORD (M) Y-COORD (M)
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                                                                                                 *** Echo Park Lake Rehabilitation
*** HRA - PM Diesel (Unmitigated)
  *** AERMOD - VERSION 07026 ***
                       *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): SITE , HAULIDLE, L0000001, L0000002, L0000003, L0000001, L00000015, L0000016, L0000017, L0000018, L0000019, L00000019, L00000012, L0000012, L0000012, L0000013, L0000014, L0000015, L0000016, L0000017, L0000018, L0000019, L0000019, L0000011, L0000012, L0000012, L0000013, L0000014, L0000015, L0000018, L0000019, L0000019, L0000011, L0000012, L0000011, L0
                                                                                                                         *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                                                             ** CONC OF DPM IN MICROGRAMS/M**3
                X-COORD (M) Y-COORD (M)
                                                                                                         CONC
                                                                                                                                                                                     X-COORD (M) Y-COORD (M) CONC
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*** AERMOD - VERSION 07026 ***
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*** Echo Park Lake Rehabilitation

*** HRA - PM Diesel (Unmitigated)
                                                                                                                                                                                                                                                                                               11:23:25
**MODELOPTs:
                                                               DEAHLT ELEV
                   *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): SITE , HAULIDLE, L0000001, L0000002, L0000003, L0000004, L00000015, L00000015, L00000017, L00000018, L0000019, L00000019, L00000012, L00000012, L00000013, L0000014, L0000015, L0000016, L0000017, L0000018, L0000019, L00000019, L00000012, L00000022, L00000023, L0000024, L0000025, L0000026, L0000027, L0000028, . . . ,
                                                                                                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                                             ** CONC OF DPM IN MICROGRAMS/M**3
            X-COORD (M) Y-COORD (M) CONC

383252.03 3771302.00 0.01202
383352.03 3771302.00 0.01815
383452.03 3771302.00 0.03423
383552.03 3771302.00 0.1357
383752.03 3771302.00 0.43073
                                                                                                                                                            X-COORD (M) Y-COORD (M) CONC

383302.03 3771302.00 0.014

383402.03 3771302.00 0.055

383702.03 3771302.00 0.557

383702.03 3771302.00 0.547

383802.03 3771302.00 0.343
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0.03259
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383052.03 3771402.00

383152.03 3771402.00

383252.03 3771402.00

*** AERMOD - VERSION 07026 ***
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                                                                                   *** Echo Park Lake Rehabilitation
                                                                                                                                                                                                                                                                                              04/20/10
                                                                                    *** HRA - PM Diesel (Unmitigated)
                                                                                                                                                                                                                                                                                               11:23:25
**MODELOPTs:
                                                               DFAULT ELEV
                   *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): SITE , HAULIDLE, L0000001, L0000002, L0000003, L0000004, L00000015, L00000017, L00000018, L00000019, L00000019, L00000012, L00000012, L0000012, L0000013, L0000014, L0000015, L0000016, L0000017, L0000018, L0000019, L0000019, L00000121, L0000012, L0000012, L0000013, L0000014, L0000016, L0000017, L0000018, L0000019, L0000019, L0000011, L0000012, L0000013, L0000014, L0000018, L0000019, L000001
                                                                                                        *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                                            ** CONC OF DPM IN MICROGRAMS/M**3
X-COORD (M) Y-COORD (M) CONC X-COORD (M) Y-COORD (M) CONC
383352.03 3771402.00 0.01182 383402.03 3771402.00 0.0152
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383452.03
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                                     3771502.00
                                                                      0.00397
                                                                                                                           383102.03
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                                                                                                                                                                                   0.00432
              383152.03
                                    3771502.00
                                                                     0.00475
                                                             0.00611

*** Echo Park Lake Rehabilitation

*** HRA - PM Diesel (Unmitigated)
              383252.03 3771502.00
MOD - VERSION 07026 ***
                                                                                                                           383302.03
                                                                                                                                                  3771502.00
                                                                                                                                                                                   0.00725
*** AERMOD -
**MODELOPTs:
                                                                                                                                                                                                                       PAGE 114
                                                DFAULT ELEV
               *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): SITE , HAULIDLE, L0000001, L0000002, L0000003, L00000015, L0000016, L00000017, L0000018, L00000019, L00000012, L00000012, L00000012, L0000013, L0000014, L0000015, L0000016, L0000017, L0000018, L0000019, L00000020, L00000021, L00000022, L00000023, L0000024, L0000025, L0000026, L0000027, L0000028, . . . ,
                                                                              *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                     ** CONC OF DPM IN MICROGRAMS/M**3
         X-COORD (M) Y-COORD (M) CONC

383402.03 3771502.00 0.01173

383502.03 3771502.00 0.02416

383602.03 3771502.00 0.05522
                                                                 0.03712
0.07343
0.08958
0.08002
0.06088
0.04498
              383652.03
                                    3771502.00
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                                                                                                                                                                                   0.08545
              383952.03
                                     3771502.00
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              384052.03
                                    3771502.00
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              384152.03
                                    3771502.00
                                                                     0.03444
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              384252.03
                                     3771502.00
                                                                      0.02738
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                                    3771502.00
3771502.00
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                                                                     0.02231
0.01850
0.01554
0.01320
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384502.03
384602.03
384702.03
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3771502.00
3771502.00
3771502.00
                                                                                                                                                                                   0.02403
0.02028
0.01693
0.01430
0.01221
              384352.03
              382752.03
                                     3771552.00
                                                                     0.00256
                                                                                                                          382802.03
                                                                                                                                                   3771552.00
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              382852.03
                                     3771552.00
                                                                     0.00279
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              382952.03
                                     3771552 00
                                                                      0.00310
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0.00353
0.00422
0.00549
0.00822
0.01489
                                    3771552.00
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3771552.00
              383052.03
383152.03
383252.03
383352.03
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383202.03
383302.03
383402.03
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              383452.03
                                     3771552.00
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              383552.03
                                     3771552.00
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              383652.03
                                                                      0.05658
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0.06466
0.05114
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0.05819
0.04453
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              384152.03
                                     3771552.00
                                                                      0.03031
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              384252.03
                                     3771552.00
                                                                      0.02452
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384602.03
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                                     3771552.00
                                                                      0.02035
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              384452 03
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                                     3771602.00
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              382952.03
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383052.03 3771602.00
383152.03 3771602.00
383252.03 3771602.00
*** AERMOD - VERSION 07026 ***
                                                                      0.00317
                                                                                                                           383102.03
                                                                                                                                                   3771602.00
                                                                                                                                                                                   0.00345
                                                              0.00387
0.00506
*** Echo Park Lake Rehabilitation
*** HRA - PM Diesel (Unmitigated)
**MODELOPTs:
                                                DFAULT ELEV
              *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): SITE , HAULIDLE, L0000001, L0000002, L0000003, L0000004, L0000005, L0000001, L0000015, L0000016, L0000015, L0000016, L0000017, L0000018, L0000019, L0000019, L0000012, L0000012, L0000013, L0000014, L0000015, L0000016, L0000018, L0000018, L0000019, L0000002, L00000022, L00000023, L0000024, L0000026, L0000027, L0000028, . . . ,
                                                                             *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                    ** CONC OF DPM IN MICROGRAMS/M**3

        X-COORD (M)
        Y-COORD (M)
        CONC
        X-COORD (M)
        Y-COORD (M)
        CONC

        383352.03
        3771602.00
        0.00767
        383402.03
        3771602.00
        0.01005

        383452.03
        3771602.00
        0.01369
        383502.03
        3771602.00
        0.01915

        383552.03
        3771602.00
        0.02680
        383602.03
        3771602.00
        0.03616
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0.04549
0.05627
                                                                                                                                         383702.03
383802.03
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                 383752.03
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                 383852.03
                                          3771602.00
                                                                              0.05356
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                                                                                                                                                                                                        0.04897
                                                                              0.04369
0.03392
0.02682
0.02197
                 383952.03
                                           3771602.00
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                 384352.03
                                          3771602.00
                                                                               0.01848
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                 384452.03
                                          3771602.00
                                                                               0.01582
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0.01276
0.01115
0.00220
0.00240
0.00269
                 384552.03
                                          3771602.00
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0.01192
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0.00229
0.00253
0.00289
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383002.03
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                 383152.03
                                          3771652.00
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383302.03
383402.03
383502.03
383602.03
383702.03
383802.03
                 383252.03
                                          3771652.00
                                                                               0.00475
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0.03769
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0.03055
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0.04704
                 383752.03
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0.03790
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384002.03
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384202.03
384302.03
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0.02670
0.02166
0.01816
0.01559
                 383952.03
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384152.03
384252.03
384352.03
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                 384452.03
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                 384552.03
                                          3771652.00
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                 384652.03
                                          3771652.00
                                                                               0.01121
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                 382752.03
382852.03
382952.03
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3771702.00
3771702.00
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382902.03
383002.03
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3771702.00
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                                          3771702.00
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                 383152.03
                                          3771702.00
                                                                              0.00332
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                                                                                                                                                                                                        0.00383
  383252.03 3771702.00
*** AERMOD - VERSION 07026 ***
                                                                               0.00452
                                                                                                                                         383302.03
                                                                                                                                                                  3771702.00
                                                                                                                                                                                                       0.00551
                                                                      *** Echo Park Lake Rehabilitation
*** HRA - PM Diesel (Unmitigated)
                                                                                                                                                                                                                                               04/20/10
                                                                                                                                                                                                                                               11:23:25
PAGE 116
                 *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): SITE , HAULIDLE, L0000001, L0000002, L0000003, L0000004, L00000015, L00000015, L0000016, L00000017, L0000018, L0000019, L00000020, L00000012, L00000012, L0000013, L0000014, L0000015, L0000016, L0000017, L0000018, L0000019, L0000020, L0000021, L0000022, L0000023, L0000024, L0000025, L0000026, L0000027, L0000028, ...,
                                                                                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                             ** CONC OF DPM IN MICROGRAMS/M**3
X-COORD (M) Y-COORD (M) CONC

383352.03 3771702.00 0.00690
383452.03 3771702.00 0.01174
383552.03 3771702.00 0.03195
383652.03 3771702.00 0.03195
383752.03 3771702.00 0.03929
383852.03 3771702.00 0.03890
                                                                                                                                   X-COORD (M) Y-COORD (M) CONC

383402.03 3771702.00 0.015

383502.03 3771702.00 0.015

383602.03 3771702.00 0.026
                                                                                                                                         383702.03
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                                                                                                                                                                                                        0.03652
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                                                                                                                                                                                                        0.04001
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384102.03
384202.03
                 384152.03
                                                                              0.02158
                 384252.03
                                          3771702.00
                                                                              0.01789
                                                                                                                                         384302.03
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                                                                                                                                                                                                        0.01649
                 384352.03
                                          3771702.00
                                                                              0.01529
                                                                                                                                         384402.03
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                 384452.03
                                          3771702.00
                                                                              0.01335
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                 384552.03
384652.03
382752.03
382852.03
                                         3771702.00
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384702.03
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0.01113
0.00993
0.00185
0.00203
                 382952.03
                                          3771752.00
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                 383052.03
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                 383152.03
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                 383252.03
383352.03
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0.00660
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383402.03
383502.03
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                 383752.03
                                          3771752.00
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                 383852.03
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                 383952.03
384052.03
384152.03
384252.03
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0.02422
0.01964
0.01633
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384102.03
384202.03
384302.03
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0.02690
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384502.03
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                 384452.03
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                 384552.03
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0.00982
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                 384652 03
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                 383052.03
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                 383152.03
                                          3771802.00
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                            2.03 3771802.00
VERSION 07026 ***
                                                                      0.00420
*** Echo Park Lake Rehabilitation
*** HRA - PM Diesel (Unmitigated)
                 383252.03
                                                                                                                                         383302.03
                                                                                                                                                                  3771802.00
                                                                                                                                                                                                       0.00510
  *** AERMOD
                                                                                                                                                                                                                                               04/20/10
                                                      DFAULT ELEV
                 *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): SITE , HAULIDLE, L0000001, L0000002, L0000003, L0000004, L00000015, L00000015, L0000016, L00000017, L0000018, L0000019, L00000020, L00000012, L00000012, L0000013, L0000014, L0000015, L0000016, L0000017, L0000018, L0000019, L0000020, L0000021, L0000022, L0000023, L0000024, L0000025, L0000026, L0000027, L0000028, ...,
                                                                                      *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                            ** CONC OF DPM IN MICROGRAMS/M**3

        X-COORD (M)
        Y-COORD (M)
        CONC
        X-COORD (M)
        Y-COORD (M)
        CONC

        383352.03
        3771802.00
        0.00632
        383402.03
        3771802.00
        0.01307

        383552.03
        3771802.00
        0.01021
        383502.03
        3771802.00
        0.02037

        383552.03
        3771802.00
        0.01653
        383602.03
        3771802.00
        0.02037

        383552.03
        3771802.00
        0.02413
        383702.03
        3771802.00
        0.02728

        383752.03
        3771802.00
        0.02939
        383802.03
        3771802.00
        0.03024
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384002.03
                  383952.03
                                             3771802.00
                                                                                   0.02661
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                  384052.03
                                             3771802.00
                                                                                  0.02208
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                                                                                  0.01804
0.01503
0.01289
0.01134
                   384152.03
                                              3771802.00
                                                                                                                                                384202.03
                  384552.03
                                             3771802.00
                                                                                   0.01015
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                  384652.03
                                             3771802.00
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                                                                                  0.00917
0.00155
0.00169
0.00193
0.00232
0.00297
0.00408
                  382752.03
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0.00260
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  **MODELOPTs:
                                                                                                                                                                                                                                                           PAGE 118
                                                          DFAULT ELEV
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                                                                                          *** THE SUMMARY OF MAXIMUM ANNUAL ( 2 YRS) RESULTS ***
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*** Echo Park Lake Rehabilitation

*** HRA - PM Diesel (Unmitigated)
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DFAULT ELEV CONC \*\*\* THE SUMMARY OF MAXIMUM ANNUAL ( 2 YRS) RESULTS \*\*\* \*\* CONC OF DPM IN MICROGRAMS/M\*\*3 GROUP ID AVERAGE CONC RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID 1ST HIGHEST VALUE IS 0.85218 AT ( 383752.03, 3771252.00, 2ND HIGHEST VALUE IS 0.68778 AT ( 383752.03, 3771202.00, 3RD HIGHEST VALUE IS 0.64267 AT ( 383792.56, 3770989.25, 4TH HIGHEST VALUE IS 0.6959 AT ( 383802.03, 3771252.00, 5TH HIGHEST VALUE IS 0.59077 AT ( 383802.03, 3771262.00, 6TH HIGHEST VALUE IS 0.54705 AT ( 383802.03, 3771002.00, 7TH HIGHEST VALUE IS 0.44705 AT ( 383702.03, 3771302.00, 7TH HIGHEST VALUE IS 0.48835 AT ( 383660.97, 3771329.50, 8TH HIGHEST VALUE IS 0.47662 AT ( 383552.03, 3771092.00, 10TH HIGHEST VALUE IS 0.47662 AT ( 383552.03, 3770992.00, 10TH HIGHEST VALUE IS 0.47662 AT ( 383552.03, 3770992.00, 0.00, 0.00, 0.00, 0.00, 0.00, 0.00, 0.00, 0.00, 0.00) 0.00, 0.00, 0.00, 0.00, 0.00, 0.00) 0.00) 0.00) 0.00) 0.00) 0.00) \*\*\* RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

\*\*\* AERMOD - VERSION 07026 \*\*\* \*\*\* Echo Park Lake Rehabilitation

\*\*\*MODELOPTS:

\*\*\* HRA - PM Diesel (Unmitigated) 04/20/10 PAGE 121 DFAULT ELEV \*\*\* Message Summary : AERMOD Model Execution \*\*\* A Total of 0 Fatal Error Message(s)
A Total of 0 Warning Message(s)
A Total of 113 Informational Message(s)
A Total of 0 Calm Hours Identif 113 Missing Hours Identified ( 0.64 Percent) \*\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*\*

\*\*\* NONE \*\*\* \*\*\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*\*\*

\*\*\* NONE \*\*\* 

# Appendix F SCAQMD Rule 403

(Adopted May 7, 1976) (Amended November 6, 1992) (Amended July 9, 1993) (Amended February 14, 1997) (Amended December 11, 1998)(Amended April 2, 2004) (Amended June 3, 2005)

### **RULE 403. FUGITIVE DUST**

# (a) Purpose

The purpose of this Rule is to reduce the amount of particulate matter entrained in the ambient air as a result of anthropogenic (man-made) fugitive dust sources by requiring actions to prevent, reduce or mitigate fugitive dust emissions.

# (b) Applicability

The provisions of this Rule shall apply to any activity or man-made condition capable of generating fugitive dust.

# (c) Definitions

- (1) ACTIVE OPERATIONS means any source capable of generating fugitive dust, including, but not limited to, earth-moving activities, construction/demolition activities, disturbed surface area, or heavy- and light-duty vehicular movement.
- (2) AGGREGATE-RELATED PLANTS are defined as facilities that produce and / or mix sand and gravel and crushed stone.
- (3) AGRICULTURAL HANDBOOK means the region-specific guidance document that has been approved by the Governing Board or hereafter approved by the Executive Officer and the U.S. EPA. For the South Coast Air Basin, the Board-approved region-specific guidance document is the Rule 403 Agricultural Handbook dated December 1998. For the Coachella Valley, the Board-approved region-specific guidance document is the Rule 403 Coachella Valley Agricultural Handbook dated April 2, 2004.
- (4) ANEMOMETERS are devices used to measure wind speed and direction in accordance with the performance standards, and maintenance and calibration criteria as contained in the most recent Rule 403 Implementation Handbook.
- (5) BEST AVAILABLE CONTROL MEASURES means fugitive dust control actions that are set forth in Table 1 of this Rule.

- (6) BULK MATERIAL is sand, gravel, soil, aggregate material less than two inches in length or diameter, and other organic or inorganic particulate matter.
- (7) CEMENT MANUFACTURING FACILITY is any facility that has a cement kiln at the facility.
- (8) CHEMICAL STABILIZERS are any non-toxic chemical dust suppressant which must not be used if prohibited for use by the Regional Water Quality Control Boards, the California Air Resources Board, the U.S. Environmental Protection Agency (U.S. EPA), or any applicable law, rule or regulation. The chemical stabilizers shall meet any specifications, criteria, or tests required by any federal, state, or local water agency. Unless otherwise indicated, the use of a non-toxic chemical stabilizer shall be of sufficient concentration and application frequency to maintain a stabilized surface.
- (9) COMMERCIAL POULTRY RANCH means any building, structure, enclosure, or premises where more than 100 fowl are kept or maintained for the primary purpose of producing eggs or meat for sale or other distribution.
- (10) CONFINED ANIMAL FACILITY means a source or group of sources of air pollution at an agricultural source for the raising of 3,360 or more fowl or 50 or more animals, including but not limited to, any structure, building, installation, farm, corral, coop, feed storage area, milking parlor, or system for the collection, storage, or distribution of solid and liquid manure; if domesticated animals, including horses, sheep, goats, swine, beef cattle, rabbits, chickens, turkeys, or ducks are corralled, penned, or otherwise caused to remain in restricted areas for commercial agricultural purposes and feeding is by means other than grazing.
- (11) CONSTRUCTION/DEMOLITION ACTIVITIES means any on-site mechanical activities conducted in preparation of, or related to, the building, alteration, rehabilitation, demolition or improvement of property, including, but not limited to the following activities: grading, excavation, loading, crushing, cutting, planing, shaping or ground breaking.
- (12) CONTRACTOR means any person who has a contractual arrangement to conduct an active operation for another person.
- (13) DAIRY FARM is an operation on a property, or set of properties that are contiguous or separated only by a public right-of-way, that raises cows or

- produces milk from cows for the purpose of making a profit or for a livelihood. Heifer and calf farms are dairy farms.
- (14) DISTURBED SURFACE AREA means a portion of the earth's surface which has been physically moved, uncovered, destabilized, or otherwise modified from its undisturbed natural soil condition, thereby increasing the potential for emission of fugitive dust. This definition excludes those areas which have:
  - (A) been restored to a natural state, such that the vegetative ground cover and soil characteristics are similar to adjacent or nearby natural conditions;
  - (B) been paved or otherwise covered by a permanent structure; or
  - (C) sustained a vegetative ground cover of at least 70 percent of the native cover for a particular area for at least 30 days.
- (15) DUST SUPPRESSANTS are water, hygroscopic materials, or non-toxic chemical stabilizers used as a treatment material to reduce fugitive dust emissions.
- (16) EARTH-MOVING ACTIVITIES means the use of any equipment for any activity where soil is being moved or uncovered, and shall include, but not be limited to the following: grading, earth cutting and filling operations, loading or unloading of dirt or bulk materials, adding to or removing from open storage piles of bulk materials, landfill operations, weed abatement through disking, and soil mulching.
- (17) DUST CONTROL SUPERVISOR means a person with the authority to expeditiously employ sufficient dust mitigation measures to ensure compliance with all Rule 403 requirements at an active operation.
- (18) FUGITIVE DUST means any solid particulate matter that becomes airborne, other than that emitted from an exhaust stack, directly or indirectly as a result of the activities of any person.
- (19) HIGH WIND CONDITIONS means that instantaneous wind speeds exceed 25 miles per hour.
- (20) INACTIVE DISTURBED SURFACE AREA means any disturbed surface area upon which active operations have not occurred or are not expected to occur for a period of 20 consecutive days.
- (21) LARGE OPERATIONS means any active operations on property which contains 50 or more acres of disturbed surface area; or any earth-moving operation with a daily earth-moving or throughput volume of 3,850 cubic

- meters (5,000 cubic yards) or more three times during the most recent 365-day period.
- (22) OPEN STORAGE PILE is any accumulation of bulk material, which is not fully enclosed, covered or chemically stabilized, and which attains a height of three feet or more and a total surface area of 150 or more square feet.
- (23) PARTICULATE MATTER means any material, except uncombined water, which exists in a finely divided form as a liquid or solid at standard conditions.
- (24) PAVED ROAD means a public or private improved street, highway, alley, public way, or easement that is covered by typical roadway materials, but excluding access roadways that connect a facility with a public paved roadway and are not open to through traffic. Public paved roads are those open to public access and that are owned by any federal, state, county, municipal or any other governmental or quasi-governmental agencies. Private paved roads are any paved roads not defined as public.
- (25) PM<sub>10</sub> means particulate matter with an aerodynamic diameter smaller than or equal to 10 microns as measured by the applicable State and Federal reference test methods.
- (26) PROPERTY LINE means the boundaries of an area in which either a person causing the emission or a person allowing the emission has the legal use or possession of the property. Where such property is divided into one or more sub-tenancies, the property line(s) shall refer to the boundaries dividing the areas of all sub-tenancies.
- (27) RULE 403 IMPLEMENTATION HANDBOOK means a guidance document that has been approved by the Governing Board on April 2, 2004 or hereafter approved by the Executive Officer and the U.S. EPA.
- (28) SERVICE ROADS are paved or unpaved roads that are used by one or more public agencies for inspection or maintenance of infrastructure and which are not typically used for construction-related activity.
- (29) SIMULTANEOUS SAMPLING means the operation of two PM<sub>10</sub> samplers in such a manner that one sampler is started within five minutes of the other, and each sampler is operated for a consecutive period which must be not less than 290 minutes and not more than 310 minutes.
- (30) SOUTH COAST AIR BASIN means the non-desert portions of Los Angeles, Riverside, and San Bernardino counties and all of Orange

- County as defined in California Code of Regulations, Title 17, Section 60104. The area is bounded on the west by the Pacific Ocean, on the north and east by the San Gabriel, San Bernardino, and San Jacinto Mountains, and on the south by the San Diego county line.
- (31) STABILIZED SURFACE means any previously disturbed surface area or open storage pile which, through the application of dust suppressants, shows visual or other evidence of surface crusting and is resistant to wind-driven fugitive dust and is demonstrated to be stabilized. Stabilization can be demonstrated by one or more of the applicable test methods contained in the Rule 403 Implementation Handbook.
- (32) TRACK-OUT means any bulk material that adheres to and agglomerates on the exterior surface of motor vehicles, haul trucks, and equipment (including tires) that have been released onto a paved road and can be removed by a vacuum sweeper or a broom sweeper under normal operating conditions.
- (33) TYPICAL ROADWAY MATERIALS means concrete, asphaltic concrete, recycled asphalt, asphalt, or any other material of equivalent performance as determined by the Executive Officer, and the U.S. EPA.
- (34) UNPAVED ROADS means any unsealed or unpaved roads, equipment paths, or travel ways that are not covered by typical roadway materials. Public unpaved roads are any unpaved roadway owned by federal, state, county, municipal or other governmental or quasi-governmental agencies. Private unpaved roads are all other unpaved roadways not defined as public.
- (35) VISIBLE ROADWAY DUST means any sand, soil, dirt, or other solid particulate matter which is visible upon paved road surfaces and which can be removed by a vacuum sweeper or a broom sweeper under normal operating conditions.
- (36) WIND-DRIVEN FUGITIVE DUST means visible emissions from any disturbed surface area which is generated by wind action alone.
- (37) WIND GUST is the maximum instantaneous wind speed as measured by an anemometer.

### (d) Requirements

(1) No person shall cause or allow the emissions of fugitive dust from any active operation, open storage pile, or disturbed surface area such that:

- (A) the dust remains visible in the atmosphere beyond the property line of the emission source; or
- (B) the dust emission exceeds 20 percent opacity (as determined by the appropriate test method included in the Rule 403 Implementation Handbook), if the dust emission is the result of movement of a motorized vehicle.
- (2) No person shall conduct active operations without utilizing the applicable best available control measures included in Table 1 of this Rule to minimize fugitive dust emissions from each fugitive dust source type within the active operation.
- (3) No person shall cause or allow PM<sub>10</sub> levels to exceed 50 micrograms per cubic meter when determined, by simultaneous sampling, as the difference between upwind and downwind samples collected on high-volume particulate matter samplers or other U.S. EPA-approved equivalent method for PM<sub>10</sub> monitoring. If sampling is conducted, samplers shall be:
  - (A) Operated, maintained, and calibrated in accordance with 40 Code of Federal Regulations (CFR), Part 50, Appendix J, or appropriate U.S. EPA-published documents for U.S. EPA-approved equivalent method(s) for PM<sub>10</sub>.
  - (B) Reasonably placed upwind and downwind of key activity areas and as close to the property line as feasible, such that other sources of fugitive dust between the sampler and the property line are minimized.
- (4) No person shall allow track-out to extend 25 feet or more in cumulative length from the point of origin from an active operation. Notwithstanding the preceding, all track-out from an active operation shall be removed at the conclusion of each workday or evening shift.
- (5) No person shall conduct an active operation with a disturbed surface area of five or more acres, or with a daily import or export of 100 cubic yards or more of bulk material without utilizing at least one of the measures listed in subparagraphs (d)(5)(A) through (d)(5)(E) at each vehicle egress from the site to a paved public road.
  - (A) Install a pad consisting of washed gravel (minimum-size: one inch) maintained in a clean condition to a depth of at least six inches and extending at least 30 feet wide and at least 50 feet long.

- (B) Pave the surface extending at least 100 feet and at least 20 feet wide.
- (C) Utilize a wheel shaker/wheel spreading device consisting of raised dividers (rails, pipe, or grates) at least 24 feet long and 10 feet wide to remove bulk material from tires and vehicle undercarriages before vehicles exit the site.
- (D) Install and utilize a wheel washing system to remove bulk material from tires and vehicle undercarriages before vehicles exit the site.
- (E) Any other control measures approved by the Executive Officer and the U.S. EPA as equivalent to the actions specified in subparagraphs (d)(5)(A) through (d)(5)(D).
- (6) Beginning January 1, 2006, any person who operates or authorizes the operation of a confined animal facility subject to this Rule shall implement the applicable conservation management practices specified in Table 4 of this Rule.

# (e) Additional Requirements for Large Operations

- (1) Any person who conducts or authorizes the conducting of a large operation subject to this Rule shall implement the applicable actions specified in Table 2 of this Rule at all times and shall implement the applicable actions specified in Table 3 of this Rule when the applicable performance standards can not be met through use of Table 2 actions; and shall:
  - (A) submit a fully executed Large Operation Notification (Form 403 N) to the Executive Officer within 7 days of qualifying as a large operation;
  - (B) include, as part of the notification, the name(s), address(es), and phone number(s) of the person(s) responsible for the submittal, and a description of the operation(s), including a map depicting the location of the site;
  - (C) maintain daily records to document the specific dust control actions taken, maintain such records for a period of not less than three years; and make such records available to the Executive Officer upon request;

- (D) install and maintain project signage with project contact signage that meets the minimum standards of the Rule 403 Implementation Handbook, prior to initiating any earthmoving activities;
- (E) identify a dust control supervisor that:
  - (i) is employed by or contracted with the property owner or developer;
  - (ii) is on the site or available on-site within 30 minutes during working hours;
  - (iii) has the authority to expeditiously employ sufficient dust mitigation measures to ensure compliance with all Rule requirements;
  - (iv) has completed the AQMD Fugitive Dust Control Class and has been issued a valid Certificate of Completion for the class; and
- (F) notify the Executive Officer in writing within 30 days after the site no longer qualifies as a large operation as defined by paragraph (c)(18).
- (2) Any Large Operation Notification submitted to the Executive Officer or AQMD-approved dust control plan shall be valid for a period of one year from the date of written acceptance by the Executive Officer. Any Large Operation Notification accepted pursuant to paragraph (e)(1), excluding those submitted by aggregate-related plants and cement manufacturing facilities must be resubmitted annually by the person who conducts or authorizes the conducting of a large operation, at least 30 days prior to the expiration date, or the submittal shall no longer be valid as of the expiration date. If all fugitive dust sources and corresponding control measures or special circumstances remain identical to those identified in the previously accepted submittal or in an AQMD-approved dust control plan, the resubmittal may be a simple statement of no-change (Form 403NC).

# (f) Compliance Schedule

The newly amended provisions of this Rule shall become effective upon adoption. Pursuant to subdivision (e), any existing site that qualifies as a large operation will have 60 days from the date of Rule adoption to comply with the notification and recordkeeping requirements for large operations. Any Large Operation

Notification or AQMD-approved dust control plan which has been accepted prior to the date of adoption of these amendments shall remain in effect and the Large Operation Notification or AQMD-approved dust control plan annual resubmittal date shall be one year from adoption of this Rule amendment.

# (g) Exemptions

- (1) The provisions of this Rule shall not apply to:
  - (A) Dairy farms.
  - (B) Confined animal facilities provided that the combined disturbed surface area within one continuous property line is one acre or less.
  - (C) Agricultural vegetative crop operations provided that the combined disturbed surface area within one continuous property line and not separated by a paved public road is 10 acres or less.
  - (D) Agricultural vegetative crop operations within the South Coast Air Basin, whose combined disturbed surface area includes more than 10 acres provided that the person responsible for such operations:
    - (i) voluntarily implements the conservation management practices contained in the Rule 403 Agricultural Handbook;
    - (ii) completes and maintains the self-monitoring form documenting sufficient conservation management practices, as described in the Rule 403 Agricultural Handbook; and
    - (iii) makes the completed self-monitoring form available to the Executive Officer upon request.
  - (E) Agricultural vegetative crop operations outside the South Coast Air Basin whose combined disturbed surface area includes more than 10 acres provided that the person responsible for such operations:
    - (i) voluntarily implements the conservation management practices contained in the Rule 403 Coachella Valley Agricultural Handbook; and
    - (ii) completes and maintains the self-monitoring form documenting sufficient conservation management practices, as described in the Rule 403 Coachella Valley Agricultural Handbook; and
    - (iii) makes the completed self-monitoring form available to the Executive Officer upon request.

- (F) Active operations conducted during emergency life-threatening situations, or in conjunction with any officially declared disaster or state of emergency.
- (G) Active operations conducted by essential service utilities to provide electricity, natural gas, telephone, water and sewer during periods of service outages and emergency disruptions.
- (H) Any contractor subsequent to the time the contract ends, provided that such contractor implemented the required control measures during the contractual period.
- (I) Any grading contractor, for a phase of active operations, subsequent to the contractual completion of that phase of earthmoving activities, provided that the required control measures have been implemented during the entire phase of earth-moving activities, through and including five days after the final grading inspection.
- (J) Weed abatement operations ordered by a county agricultural commissioner or any state, county, or municipal fire department, provided that:
  - (i) mowing, cutting or other similar process is used which maintains weed stubble at least three inches above the soil; and
  - (ii) any discing or similar operation which cuts into and disturbs the soil, where watering is used prior to initiation of these activities, and a determination is made by the agency issuing the weed abatement order that, due to fire hazard conditions, rocks, or other physical obstructions, it is not practical to meet the conditions specified in clause (g)(1)(H)(i). The provisions this clause shall not exempt the owner of any property from stabilizing, in accordance with paragraph (d)(2), disturbed surface areas which have been created as a result of the weed abatement actions.
- (K) sandblasting operations.
- (2) The provisions of paragraphs (d)(1) and (d)(3) shall not apply:
  - (A) When wind gusts exceed 25 miles per hour, provided that:

- (i) The required Table 3 contingency measures in this Rule are implemented for each applicable fugitive dust source type, and;
- (ii) records are maintained in accordance with subparagraph (e)(1)(C).
- (B) To unpaved roads, provided such roads:
  - (i) are used solely for the maintenance of wind-generating equipment; or
  - (ii) are unpaved public alleys as defined in Rule 1186; or
  - (iii) are service roads that meet all of the following criteria:
    - (a) are less than 50 feet in width at all points along the road;
    - (b) are within 25 feet of the property line; and
    - (c) have a traffic volume less than 20 vehicle-trips per day.
- (C) To any active operation, open storage pile, or disturbed surface area for which necessary fugitive dust preventive or mitigative actions are in conflict with the federal Endangered Species Act, as determined in writing by the State or federal agency responsible for making such determinations.
- (3) The provisions of (d)(2) shall not apply to any aggregate-related plant or cement manufacturing facility that implements the applicable actions specified in Table 2 of this Rule at all times and shall implement the applicable actions specified in Table 3 of this Rule when the applicable performance standards of paragraphs (d)(1) and (d)(3) can not be met through use of Table 2 actions.
- (4) The provisions of paragraphs (d)(1), (d)(2), and (d)(3) shall not apply to:
  - (A) Blasting operations which have been permitted by the California Division of Industrial Safety; and
  - (B) Motion picture, television, and video production activities when dust emissions are required for visual effects. In order to obtain this exemption, the Executive Officer must receive notification in writing at least 72 hours in advance of any such activity and no nuisance results from such activity.
- (5) The provisions of paragraph (d)(3) shall not apply if the dust control actions, as specified in Table 2, are implemented on a routine basis for

- each applicable fugitive dust source type. To qualify for this exemption, a person must maintain records in accordance with subparagraph (e)(1)(C).
- (6) The provisions of paragraph (d)(4) shall not apply to earth coverings of public paved roadways where such coverings are approved by a local government agency for the protection of the roadway, and where such coverings are used as roadway crossings for haul vehicles provided that such roadway is closed to through traffic and visible roadway dust is removed within one day following the cessation of activities.
- (7) The provisions of subdivision (e) shall not apply to:
  - (A) officially-designated public parks and recreational areas, including national parks, national monuments, national forests, state parks, state recreational areas, and county regional parks.
  - (B) any large operation which is required to submit a dust control plan to any city or county government which has adopted a District-approved dust control ordinance.
  - (C) any large operation subject to Rule 1158, which has an approved dust control plan pursuant to Rule 1158, provided that all sources of fugitive dust are included in the Rule 1158 plan.
- (8) The provisions of subparagraph (e)(1)(A) through (e)(1)(C) shall not apply to any large operation with an AQMD-approved fugitive dust control plan provided that there is no change to the sources and controls as identified in the AQMD-approved fugitive dust control plan.
- (h) Fees

Any person conducting active operations for which the Executive Officer conducts upwind/downwind monitoring for  $PM_{10}$  pursuant to paragraph (d)(3) shall be assessed applicable Ambient Air Analysis Fees pursuant to Rule 304.1. Applicable fees shall be waived for any facility which is exempted from paragraph (d)(3) or meets the requirements of paragraph (d)(3).

Guidance	<ul> <li>Mix backfill soil with water prior to moving</li> <li>Dedicate water truck or high capacity hose to backfilling equipment</li> <li>Empty loader bucket slowly so that no dust plumes are generated</li> <li>Minimize drop height from loader bucket</li> </ul>	<ul> <li>Maintain live perennial vegetation where possible</li> <li>Apply water in sufficient quantity to prevent generation of dust plumes</li> </ul>	<ul> <li>Use of high pressure air to clear forms may cause exceedance of Rule requirements</li> </ul>	<ul> <li>Follow permit conditions for crushing equipment</li> <li>Pre-water material prior to loading into crusher</li> <li>Monitor crusher emissions opacity</li> <li>Apply water to crushed material to prevent dust plumes</li> </ul>
Control Measure	Stabilize backfill material when not actively handling; and Stabilize backfill material during handling; and Stabilize soil at completion of activity.	Maintain stability of soil through pre-watering of site prior to clearing and grubbing; and Stabilize soil during clearing and grubbing activities; and Stabilize soil immediately after clearing and grubbing activities.	Use water spray to clear forms; or Use sweeping and water spray to clear forms; or Use vacuum system to clear forms.	Stabilize surface soils prior to operation of support equipment; and Stabilize material after crushing.
	01-1 01-2 01-3	02-1 02-2 02-3	03-1 03-2 03-3	04-1
Source Category	Backfilling	Clearing and grubbing	Clearing forms	Crushing

Source Category	-	Control Measure	Guidance
Cut and fill	05-1	Pre-water soils prior to cut and fill activities; and	✓ For large sites, pre-water with sprinklers or water trucks and allow time for penetration
	05-2	Stabilize soil during and after cut and fill activities.	<ul> <li>Use water trucks/pulls to water soils to depth</li> <li>of cut prior to subsequent cuts</li> </ul>
Demolition – mechanical/manual	06-1	Stabilize wind erodible surfaces to reduce dust; and	<ul> <li>Apply water in sufficient quantities to prevent the generation of visible dust plumes</li> </ul>
	06-2	Stabilize surface soil where support equipment and vehicles will operate; and	
	06-3	Stabilize loose soil and demolition debris; and Comply with AQMD Rule 1403.	
Disturbed soil	07-1	Stabilize disturbed soil throughout the construction site; and	<ul> <li>Limit vehicular traffic and disturbances on soils where possible</li> </ul>
	07-2	Stabilize disturbed soil between structures	If interior block walls are planned, install as
			Apply water or a stabilizing agent in
			sufficient quantities to prevent the generation of visible dust plumes
Earth-moving	08-1	Pre-apply water to depth of proposed cuts; and Re-apply water as necessary to maintain soils in a	✓ Grade each project phase separately, timed
activities	) )	damp condition and to ensure that visible emissions	to coincide with construction phase  Upwind fencing can prevent material
	08-3	Stabilize soils once earth-moving activities are	movement on site  Apply water or a stabilizing agent in
		complete.	sufficient quantities to prevent the generation of visible dust plumes

Source Category		Control Measure	Guidance
Importing/exporting of bulk materials	09-1 09-2 09-3 09-4	Stabilize material while loading to reduce fugitive dust emissions; and Maintain at least six inches of freeboard on haul vehicles; and Stabilize material while transporting to reduce fugitive dust emissions; and Stabilize material while unloading to reduce fugitive dust emissions; and Comply with Vehicle Code Section 23114.	<ul> <li>Use tarps or other suitable enclosures on haul trucks</li> <li>Check belly-dump truck seals regularly and remove any trapped rocks to prevent spillage</li> <li>Comply with track-out prevention/mitigation requirements</li> <li>Provide water while loading and unloading to reduce visible dust plumes</li> </ul>
Landscaping	10-1	Stabilize soils, materials, slopes	<ul> <li>Apply water to materials to stabilize</li> <li>Maintain materials in a crusted condition</li> <li>Maintain effective cover over materials</li> <li>Stabilize sloping surfaces using soil binders until vegetation or ground cover can effectively stabilize the slopes</li> <li>Hydroseed prior to rain season</li> </ul>
Road shoulder maintenance	11-1	Apply water to unpaved shoulders prior to clearing; and Apply chemical dust suppressants and/or washed gravel to maintain a stabilized surface after completing road shoulder maintenance.	<ul> <li>Installation of curbing and/or paving of road shoulders can reduce recurring maintenance costs</li> <li>Use of chemical dust suppressants can inhibit vegetation growth and reduce future road shoulder maintenance costs</li> </ul>

Source Category		Control Measure	Guidance
Screening	12-1 12-2 12-3	Pre-water material prior to screening; and Limit fugitive dust emissions to opacity and plume length standards; and Stabilize material immediately after screening.	<ul> <li>Dedicate water truck or high capacity hose to screening operation</li> <li>Drop material through the screen slowly and minimize drop height</li> <li>Install wind barrier with a porosity of no more than 50% upwind of screen to the height of the drop point</li> </ul>
Staging areas	13-1	Stabilize staging areas during use; and Stabilize staging area soils at project completion.	<ul> <li>Limit size of staging area</li> <li>Limit vehicle speeds to 15 miles per hour</li> <li>Limit number and size of staging area entrances/exists</li> </ul>
Stockpiles/ Bulk Material Handling	14-1	Stabilize stockpiled materials. Stockpiles within 100 yards of off-site occupied buildings must not be greater than eight feet in height; or must have a road bladed to the top to allow water truck access or must have an operational water irrigation system that is capable of complete stockpile coverage.	<ul> <li>Add or remove material from the downwind portion of the storage pile</li> <li>Maintain storage piles to avoid steep sides or faces</li> </ul>

Source Category		Control Measure	Guidance
Traffic areas for construction activities	15-1 15-2 15-3	Stabilize all off-road traffic and parking areas; and Stabilize all haul routes; and Direct construction traffic over established haul routes.	<ul> <li>Apply gravel/paving to all haul routes as soon as possible to all future roadway areas</li> <li>Barriers can be used to ensure vehicles are only used on established parking areas/haul routes</li> </ul>
Trenching	16-1	Stabilize surface soils where trencher or excavator and support equipment will operate; and Stabilize soils at the completion of trenching activities.	<ul> <li>Pre-watering of soils prior to trenching is an effective preventive measure. For deep trenching activities, pre-trench to 18 inches soak soils via the pre-trench and resuming trenching</li> <li>Washing mud and soils from equipment at the conclusion of trenching activities can prevent crusting and drying of soil on equipment</li> </ul>
Truck loading	17-1	Pre-water material prior to loading; and Ensure that freeboard exceeds six inches (CVC 23114)	<ul> <li>Empty loader bucket such that no visible dust plumes are created</li> <li>Ensure that the loader bucket is close to the truck to minimize drop height while loading</li> </ul>
Turf Overseeding	18-1	Apply sufficient water immediately prior to conducting turf vacuuming activities to meet opacity and plume length standards; and Cover haul vehicles prior to exiting the site.	<ul> <li>Haul waste material immediately off-site</li> </ul>

Source Category Unpaved	19-1	Control Measure  19-1 Stabilize soils to meet the applicable performance	Guidance  V Restricting vehicular access to established
roads/parking lots	19-2	standards; and 19-2 Limit vehicular travel to established unpaved roads (haul routes) and unpaved parking lots.	unpaved travel paths and parking lots can reduce stabilization requirements
Vacant land	20-1	20-1 In instances where vacant lots are 0.10 acre or larger and have a cumulative area of 500 square feet or more that are driven over and/or used by motor vehicles and/or off-road vehicles, prevent motor vehicle and/or off-road vehicle trespassing, parking and/or access by installing barriers, curbs, fences, gates, posts, signs, shrubs, trees or other effective control measures.	

Table 2
DUST CONTROL MEASURES FOR LARGE OPERATIONS

		UKES FOR LARGE OF EKATIONS
FUGITIVE DUST SOURCE CATEGORY		CONTROL ACTIONS
Earth-moving (except construction cutting and filling areas, and mining operations)	(1a)	Maintain soil moisture content at a minimum of 12 percent, as determined by ASTM method D-2216, or other equivalent method approved by the Executive Officer, the California Air Resources Board, and the U.S. EPA. Two soil moisture evaluations must be conducted during the first three hours of active operations during a calendar day, and two such evaluations each subsequent four-hour period of active operations; OR
	(1a-1)	For any earth-moving which is more than 100 feet from all property lines, conduct watering as necessary to prevent visible dust emissions from exceeding 100 feet in length in any direction.
Earth-moving: Construction fill areas:	(1b)	Maintain soil moisture content at a minimum of 12 percent, as determined by ASTM method D-2216, or other equivalent method approved by the Executive Officer, the California Air Resources Board, and the U.S. EPA. For areas which have an optimum moisture content for compaction of less than 12 percent, as determined by ASTM Method 1557 or other equivalent method approved by the Executive Officer and the California Air Resources Board and the U.S. EPA, complete the compaction process as expeditiously as possible after achieving at least 70 percent of the optimum soil moisture content. Two soil moisture evaluations must be conducted during the first three hours of active operations during a calendar day, and two such evaluations during each subsequent four-hour period of active operations.

**Table 2 (Continued)** 

		abic 2 (Continued)
FUGITIVE DUST SOURCE CATEGORY		CONTROL ACTIONS
Earth-moving: Construction cut areas and mining operations:	(1c)	Conduct watering as necessary to prevent visible emissions from extending more than 100 feet beyond the active cut or mining area unless the area is inaccessible to watering vehicles due to slope conditions or other safety factors.
Disturbed surface areas (except completed grading areas)	(2a/b)	Apply dust suppression in sufficient quantity and frequency to maintain a stabilized surface. Any areas which cannot be stabilized, as evidenced by wind driven fugitive dust must have an application of water at least twice per day to at least 80 percent of the unstabilized area.
Disturbed surface areas: Completed grading areas	(2c)	Apply chemical stabilizers within five working days of grading completion; OR  Take actions (3a) or (3c) specified for inactive disturbed surface areas.
Inactive disturbed surface areas	(3a) (3b) (3c)	Apply water to at least 80 percent of all inactive disturbed surface areas on a daily basis when there is evidence of wind driven fugitive dust, excluding any areas which are inaccessible to watering vehicles due to excessive slope or other safety conditions; OR Apply dust suppressants in sufficient quantity and frequency to maintain a stabilized surface; OR Establish a vegetative ground cover within 21 days after active operations have ceased. Ground cover must be of sufficient density to expose less than 30 percent of unstabilized ground within 90 days of planting, and at all times thereafter; OR Utilize any combination of control actions (3a), (3b),
	(30)	and (3c) such that, in total, these actions apply to all inactive disturbed surface areas.

**Table 2 (Continued)** 

ELICITIVE DUCT		,
FUGITIVE DUST SOURCE CATEGORY		CONTROL ACTIONS
Unpaved Roads	(4a)	Water all roads used for any vehicular traffic at least once per every two hours of active operations [3 times per normal 8 hour work day]; OR
	(4b)	Water all roads used for any vehicular traffic once daily and restrict vehicle speeds to 15 miles per hour; OR
	(4c)	Apply a chemical stabilizer to all unpaved road surfaces in sufficient quantity and frequency to maintain a stabilized surface.
Open storage piles	(5a) (5b)	Apply chemical stabilizers; OR Apply water to at least 80 percent of the surface area of all open storage piles on a daily basis when there is evidence of wind driven fugitive dust; OR
	(5c)	Install temporary coverings; OR
	(5d)	Install a three-sided enclosure with walls with no more than 50 percent porosity which extend, at a minimum, to the top of the pile. This option may only be used at aggregate-related plants or at cement manufacturing facilities.
All Categories	(6a)	Any other control measures approved by the Executive Officer and the U.S. EPA as equivalent to the methods specified in Table 2 may be used.

TABLE 3
CONTINGENCY CONTROL MEASURES FOR LARGE OPERATIONS

FUGITIVE DUST SOURCE CATEGORY		CONTROL MEASURES
Earth-moving	(1A)	Cease all active operations; OR
	(2A)	Apply water to soil not more than 15 minutes prior to moving such soil.
Disturbed surface areas	(0B)	On the last day of active operations prior to a weekend, holiday, or any other period when active operations will not occur for not more than four consecutive days: apply water with a mixture of chemical stabilizer diluted to not less than 1/20 of the concentration required to maintain a stabilized surface for a period of six months; OR
	(1B) (2B)	Apply chemical stabilizers prior to wind event; OR Apply water to all unstabilized disturbed areas 3 times per day. If there is any evidence of wind driven fugitive dust, watering frequency is increased to a minimum of four times per day; OR
	(3B) (4B)	Take the actions specified in Table 2, Item (3c); OR Utilize any combination of control actions (1B), (2B), and (3B) such that, in total, these actions apply to all
		disturbed surface areas.
Unpaved roads	(1C) (2C)	Apply chemical stabilizers prior to wind event; OR Apply water twice per hour during active operation; OR
	(3C)	Stop all vehicular traffic.
Open storage piles	(1D) (2D)	Apply water twice per hour; OR Install temporary coverings.
Paved road track-out	(1E)	Cover all haul vehicles; OR
	(2E)	Comply with the vehicle freeboard requirements of Section 23114 of the California Vehicle Code for both public and private roads.
All Categories	(1F)	Any other control measures approved by the Executive Officer and the U.S. EPA as equivalent to the methods specified in Table 3 may be used.

Table 4
(Conservation Management Practices for Confined Animal Facilities)

(Conservation		,
SOURCE		CONSERVATION MANAGEMENT PRACTICES
CATEGORY		
Manure	(1a)	Cover manure prior to removing material off-site; AND
Handling	(1b)	Spread the manure before 11:00 AM and when wind conditions
		are less than 25 miles per hour; AND
(Only	(1c)	Utilize coning and drying manure management by removing
applicable to		manure at laying hen houses at least twice per year and maintain
Commercial		a base of no less than 6 inches of dry manure after clean out; or
Poultry		in lieu of complying with conservation management practice
Ranches)	(1.1)	(1c), comply with conservation management practice (1d).
	(1d)	Utilize frequent manure removal by removing the manure from
		laying hen houses at least every seven days and immediately
	(2.)	thin bed dry the material.
Feedstock	(2a)	Utilize a sock or boot on the feed truck auger when filling feed
Handling	(2)	storage bins.
Disturbed	(3a)	Maintain at least 70 percent vegetative cover on vacant portions
Surfaces	(21)	of the facility; OR
	(3b)	Utilize conservation tillage practices to manage the amount,
		orientation and distribution of crop and other plant residues on
		the soil surface year-round, while growing crops (if applicable)
	(20)	in narrow slots or tilled strips; OR Apply dust suppressants in sufficient concentrations and
	(3c)	frequencies to maintain a stabilized surface.
Unpaved	(4a)	Restrict access to private unpaved roads either through signage
Roads	( <del>4</del> a)	or physical access restrictions and control vehicular speeds to
Roaus		no more than 15 miles per hour through worker notifications,
		signage, or any other necessary means; OR
	(4b)	Cover frequently traveled unpaved roads with low silt content
	(10)	material (i.e., asphalt, concrete, recycled road base, or gravel to
		a minimum depth of four inches); OR
	(4c)	Treat unpaved roads with water, mulch, chemical dust
		suppressants or other cover to maintain a stabilized surface.
Equipment	(5a)	Apply dust suppressants in sufficient quantity and frequency to
Parking Areas		maintain a stabilized surface; OR
	(5b)	Apply material with low silt content (i.e., asphalt, concrete,
		recycled road base, or gravel to a depth of four inches).

Appendix G

Mobile Noise

# $L_{eq}$ Noise Level Estimates for the Construction Traffic - Based on AM Peak Hour

# Existing 2009

Glendale Blvd

Echo Park Ave

Park Ave

Daisting 2002	<u> </u>								1 50 6 1
			TOT.	FOLIIVAL FN'	T LANE DISTANCE	VEHICLE TYPE %	VEHICLE SPEED	NOISE LEVEL (dBA)	50 ft ROW
ROAD SEGMENT			# VEH.	EQUITIEET	I LINI DISTINCE	Auto MT HT	Auto k/h MT k/h HT k/h	Auto MT HT	Leq
	from:	to:		D1 D2	Eq. Dis.	% Auto % MT % HT			(dBA)
Glendale Blvd	Park Ave	Bellevue Ave	2530	14 44	25	91 2302 6 152 3 75.9	35 56 35 56 35 56	67.9 65.8 68.0	70.4
Echo Park Ave	Reservoir St	Bellevue Ave	797	17 29	22	91 725 6 47.8 3 23.9	35 56 35 56 35 56	62.9 60.8 63.0	65.5
Park Ave	Glendale Blvd	Echo Park Ave	318	12 35	20	91 289 6 19.1 3 9.54	25 40 25 40 25 40	54.7 54.6 59.2	60.0
Future With	out Project 2013	<b>,</b>							
1 44410 111411	040110,000 2010	<u>.</u>							50 ft
			TOT.	<b>EQUIVALEN</b>	T LANE DISTANCE	VEHICLE TYPE %	VEHICLE SPEED	NOISE LEVEL (dBA)	ROW
ROAD SEGMENT			# VEH.			Auto MT HT	Auto k/h MT k/h HT k/h	Auto MT HT	Leq
	from:	to:		D1 D2	Eq. Dis.	% Auto % MT % HT			(dBA)

70.9

65.8

60.2

50 ft

59.4

25

22

14 44

12 35

17 29

331

# **Future With Project 2013**

Park Ave

Reservoir St

Glendale Blvd

Bellevue Ave

Bellevue Ave

Echo Park Ave

			TOT.	EQ	UIVALE	NT LANE DISTANCE	VEHICLE TYPE %		VEHICLE SPEED						NOISE LEVEL (dBA)			ROW				
ROAD SEGMENT			# VEH.				Auto		MT		HT		Auto	k/h	MT	<u>k/h</u>	HT	k/h	Auto	MT	HT	Leq
	from:	to:		D1	D2	Eq. Dis.	%	Auto	%	MT	%	HT										(dBA)
Glendale Blvd	Park Ave	Bellevue Ave	2854	14	44	25	91	2597	6	171	3	98.6	35	56	35	56	35	56	68.5	66.4	69.2	71.2
Echo Park Ave	Reservoir St	Bellevue Ave	851	17	29	22	91	774	6	51	3	54.5	35	56	35	56	35	56	63.2	61.1	66.6	67.4
Park Ave	Glendale Blvd	Echo Park Ave	331	12	35	20	91	301	6	19.9	3	29.9	25	40	25	40	25	40	54.9	54.7	64.2	63.6

# $L_{\text{eq}}$ Noise Level Estimates for the Construction Traffic - Based on PM Peak Hour

# Existing 2009

Emisting 200	_														50 ft
			TOT.	<b>EQUIVALEN</b>	T LANE DISTANCE	V	EHICLE TYP	E %	VEHI	CLE SPEE	D	NOIS	E LEVEL	(dBA)	ROW
ROAD SEGMENT			# VEH.			Auto	MT	<u>HT</u>	Auto k/h	MT k/h	HT k/h	Auto	MT	HT	Leq
	from:	to:		D1 D2	Eq. Dis.	% A	Auto % M	IT % HT							(dBA)
Glendale Blvd	Park Ave	Bellevue Ave	2759	14 44	25	91 25	2510 6 10	66 3 82.8	35 56	35 56	35 56	68.3	66.2	68.4	70.8
Echo Park Ave	Reservoir St	Bellevue Ave	729	17 29	22	91 6	663 6 43	3.7 3 21.9	35 56	35 56	35 56	62.5	60.4	62.6	65.2
Park Ave	Glendale Blvd	Echo Park Ave	454	12 35	20	91 4	413 6 27	7.2 3 13.6	25 40	25 40	25 40	56.3	56.1	60.7	61.6

# **Future Without Project 2013**

			TOT.	EC	UIVAL	ENT LANE DISTANCE	VEHICLE TYPE %		VEHICLE SPEED						NOIS	ROW						
ROAD SEGMENT			# VEH.				Auto		MT		HT		Auto	k/h	MT	k/h	HT	k/h	Auto	MT	HT	Leq
	from:	to:		D1	D2	Eq. Dis.	%	Auto	%	MT	%	HT				_		_				(dBA)
Glendale Blvd	Park Ave	Bellevue Ave	3209	14	44	25	91	2920	6	193	3	96.3	35	56	35	56	35	56	69.0	66.9	69.1	71.4
Echo Park Ave	Reservoir St	Bellevue Ave	853	17	29	22	91	776	6	51.2	3	25.6	35	56	35	56	35	56	63.2	61.1	63.3	65.8
Park Ave	Glendale Blvd	Echo Park Ave	472	12	35	20	91	430	6	28.3	3	14.2	25	40	25	40	25	40	56.4	56.3	60.9	61.7

# **Future With Project 2013**

			TOT.	EQ	UIVALE	NT LANE DISTANCE	VEHICLE TYPE %		VEHICLE SPEED						NOISE LEVEL (dBA)			ROW				
ROAD SEGMENT			# VEH.				Auto		MT		HT		Auto	k/h	MT	k/h	HT	k/h	Auto	MT	HT	Leq
	from:	to:		D1	D2	Eq. Dis.	%	Auto	%	MT	%	HT		_		_		_				(dBA)
Glendale Blvd	Park Ave	Bellevue Ave	3209	14	44	25	91	2920	6	193	3	117	35	56	35	56	35	56	69.0	66.9	69.9	71.8
Echo Park Ave	Reservoir St	Bellevue Ave	853	17	29	22	91	776	6	51.2	3	50.6	35	56	35	56	35	56	63.2	61.1	66.3	67.2
Park Ave	Glendale Blvd	Echo Park Ave	472	12	35	20	91	430	6	28.3	3	26.2	25	40	25	40	25	40	56.4	56.3	63.6	63.5

# **Summary**

# AM PEAK HOUR

				With Project	
ROAD SEGMENT			Baseline	Construction	Impact
	from:	to:	(dBa)	(dBa)	(dBa)
Glendale Blvd	Park Ave	Bellevue Ave	70.9	71.2	0.3
Echo Park Ave	Reservoir St	Bellevue Ave	65.8	67.4	1.6
Park Ave	Glendale Blvd	Echo Park Ave	60.2	63.6	3.4

### PM PEAK HOUR

				With Project	
ROAD SEGMENT			Baseline	Construction	Impact
	from:	to:	(dBa)	(dBa)	(dBa)
Glendale Blvd	Park Ave	Bellevue Ave	71.4	71.8	0.4
Echo Park Ave	Reservoir St	Bellevue Ave	65.8	67.2	1.4
Park Ave	Glendale Blvd	Echo Park Ave	61.7	63.5	1.8

# DRAFT ENVIRONMENTAL IMPACT REPORT APPENDIX C

**HEALTH RISK ASSESSMENT** 

#### Memorandum

TO: Shannon Daniels

**AECOM** 

FROM: Sam Silverman, Senior Environmental Scientist

Terry A. Hayes Associates LLC

DATE: April 22, 2010

RE: Echo Park Lake Rehabilitation Project Construction Health Risk Assessment

Terry A. Hayes Associates LLC (TAHA) completed an Air Quality and Noise Impact Report for the Echo Park Rehabilitation Project. As a supplement to this Report, TAHA completed a health risk assessment (HRA) for construction activity associated with the proposed project. The results of the HRA are presented in this memorandum, and included in the Air Quality and Noise Impact Report.

#### Methodology

The HRA was prepared based on emissions from haul trucks and diesel-powered construction equipment. The first step was to calculate the mass emissions from these sources. The proposed project would generate 8,858 truck trips during the construction phase. On-road truck emissions were calculated based on the haul route from the project site to US Highway 101 and emission rates from the EMFAC2007 model. It was assumed that each truck would idle on the project site for 15 minutes, and the idle emission rate was also obtained from the EMFAC2007 model. Equipment emissions were obtained from the OFFROAD model. It was assumed that ten pieces of equipment would operate on the project site.

The truck and equipment emission rates were input into the AERMOD dispersion model to obtain annual exposure concentrations. The model is a steady state Gaussian plume model for estimating ground level impacts from point, area, and volume sources in simple and complex terrain. The model offers additional flexibility by allowing the user to assign initial vertical and lateral dispersion parameters for stationary sources. Truck emissions were modeled based on the South Coast Air Quality Management District (SCAQMD) Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis (August 2003). Idle emissions were treated as an area source with a five-meter release height. On-road emissions along the haul route were input as a line source with a release height of five meters.

Shannon Daniels April 22, 2010 Page 2

Construction equipment emissions were modeled based on guidance from the SCAQMD Localized Significance Methodology. Equipment emissions were input as an area source with a release height of five meters. Based on SCAQMD guidance, a 50-meter receptor grid was used to obtain the maximum annual pollutant concentration and the receptor release height was set at 0.0 meters. AERMOD utilized surface meteorological and upper air data from the Downtown Los Angeles station.

#### **Risk Characterization**

Carcinogenic compounds are not considered to have threshold levels (i.e., dose levels below which there are no risks). Any exposure, therefore, will have some associated risk. As a result, the State of California has established a threshold of one in one hundred thousand (1.0E-05) as a level posing no significant risk for exposures to carcinogens regulated under the Safe Drinking Water and Toxic Enforcement Act (Proposition 65).

Health risks associated with exposure to carcinogenic compounds can be defined in terms of the probability of developing cancer as a result of exposure to a chemical at a given concentration. Under a deterministic approach (i.e., point estimate methodology), the cancer risk probability is determined by multiplying the chemical's annual concentration by its unit risk factor (URF). The URF is a measure of the carcinogenic potential of a chemical when a dose is received through the inhalation pathway. It represents an upper bound estimate of the probability of contracting cancer as a result of continuous exposure to an ambient concentration of one microgram per cubic meter ( $\mu$ g/m³) over a 70-year lifetime.

The carcinogenic risk was calculated based on the SCAQMD Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis. According to this document, the cancer risks from diesel particulate matter associated with motor vehicles occur exclusively through the inhalation pathway. Therefore, the cancer risks can be estimated from the following equation:

 $CR_{DPM} = C_{DPM} \times URF_{DPM} \times LEA$ 

where,

CR<sub>DPM</sub> Cancer risks from diesel particulate matter; the probability of an individual developing

cancer as a result of exposure to diesel particulate matter.

 $C_{DPM}$  Annual average diesel particulate matter concentration in  $\mu g/m^3$ .

URF<sub>DPM</sub> Unit risk factor for diesel particulate matter; estimated probability that a person will

contract cancer as a result of inhalation of a diesel particulate matter concentration of 1

µg/m<sup>3</sup> continuously over a period of 70 years.

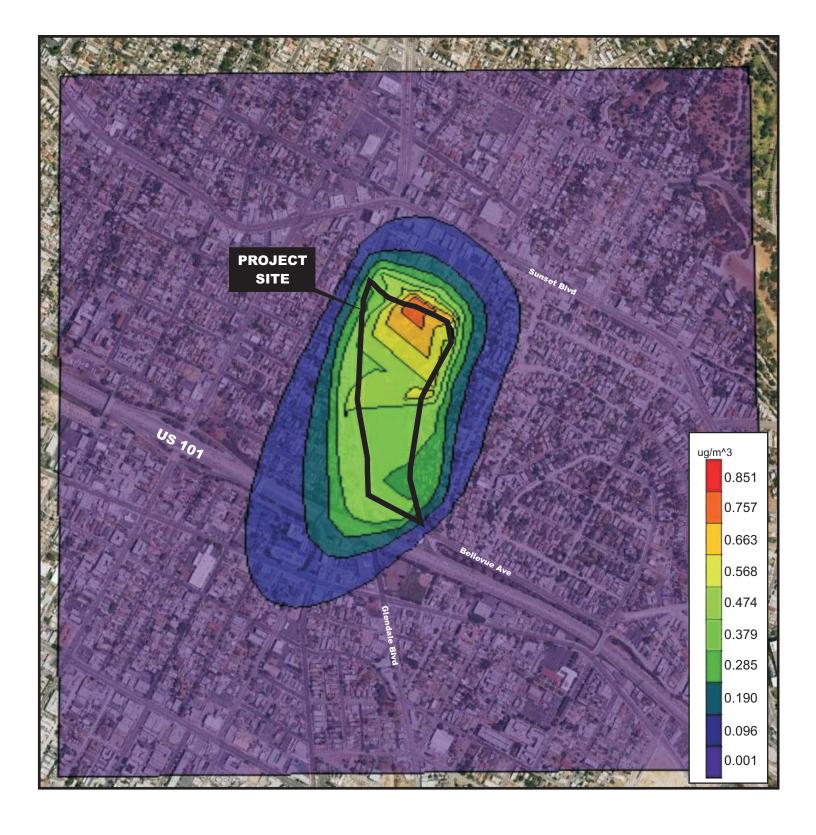
LEA Lifetime exposure adjustment.

The URF utilized in the assessment and corresponding cancer potency factors was obtained from California Office of Environmental Health Hazard Assessment (OEHHA) guidance. The LEA accounts for the fact that exposure would be less than 70 years. Based on information provided by the Applicant, the exposure level was adjusted to account for 10 hours per day, 5 days per week, 48 weeks per year, and 2 years.

Shannon Daniels April 22, 2010 Page 3

#### **Results**

**Figure 1** is a contour map showing exposure concentrations to diesel particulate matter generated during construction activity. The maximum off-site annual concentration would be 0.85 micrograms per cubic meter. This results in a carcinogenic risk of 2.2 persons in one million, which is less than the ten persons in one million significance threshold. Construction-related diesel emissions would result in a less-than-significant impact.







APPROX.
SCALE

0 464 928
FEET

SOURCE: TAHA, 2009



# Appendix A

ISC-AERMOD Output Files and Calculations

### **HEALTH RISK ASSESSMENT**

**Project Alternative** 

PROJECT: Echo Park Lake PROJECT NO: 2009-034

**Annual Average Receptor Concentration** 

Pollutant	micrograms/cubic meter
Diesel Particular Matter (DPM)	0.85218

#### **EXCESS CANCER RISK CALCULATION**

**Lifetime Exposure Adjustment (LEA)** 

Receptor:	Sensitive Receptors
hours per day	10
days per week	5
weeks per year	48
years	2.17
LEA	0.008503401

Unit Risk Factor (URF) for DPM	0.0003

#### **FINDINGS**

Receptor:	Sensitive Receptors		
Excess Cancer Risk			
Excess Cancer Risk (Per 1	2.1739		
Million Persons)	2.1739		
SCAQMD Threshold	>= 10 in 1 million		
Exceed Threshold?	No		

#### Formulas:

Cancer Risk = DPM Conc x DPM URF x LEA

DPM = Diesel Particulate Matter

URF = Unit Risk Factor

LEA = Lifetime Exposure Adjustment

Source: SCAQMD Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Idle Emissions for CEQA Air Quality Analysis, August 2003; California Air Resources Board, Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values, April 25, 2005

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** AERMOD Input Produced by:

** AERMOD View Ver. 6.2.1

** Lakes Environmental Software Inc.

** Date: 4/20/2010

** File: J:\Projects\LADWP Echo Park Lake Rehabilitation Project 2009-034\Air Quality\Haul Truck HRA\HRA\HRA.ADI

**
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TITLETWO HRA - PM Diesel (Unmitigated)
MODELOPT DFAULT CONC
AVERTIME ANNUAL
  URBANOPT 9862049 LA
POLLUTID DPM
RUNORNOT RUN
CO FINISHED
  *********
  SO STARTING
** Source Location **

** Source ID - Type - X Coord. - Y Coord. **
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  ** DESCRISC Equipment Emissions
LOCATION HAULIDLE AREAPOLY 383597.686 3771297.106 0.0
** DESCRRC Equipment Emissions
LOCATION HAULIDLE AREAPOLY 383597.686 3771297.106 0.

** DESCRSRC Haul Truck Idle

** Line Source represented by Separated Volume Sources

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LINE Source ID = HAUL
DESCRSRC haul route

** Length of Side = 10.00

** Emission Rate = 0.004766

** Elevated

** Vertical Dimension = 1.16

** SZINIT = 0.27

** Nodes = 11

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** End of Line Source

** Source Parameters **

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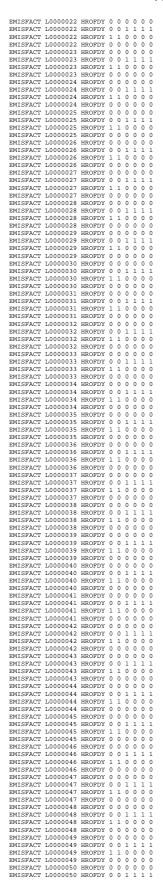
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	383452.04			
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DISCCART		3770151.94	0.00	0.00
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DISCOND	383552.04		0 00	0 00
DISCCART DISCCART	383552.04 383602.04	3770151.94 3770151.94	0.00	0.00

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DISCCART	384302.04	3770251.94 3770251.94	0.00	0.00
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DISCCART	304402.04	3//0231.54	0.00	0.00
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DISCCART	383152.04 383202.04 383252.04	3770301.94	0.00	0.00
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DIUCCHILI	555502.04	35301.74	0.00	0.00

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DISCCART	383802.04	3770501.94	0.00	0.00
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DISCCART	384452.04	3770501.94	0.00	0.00
DISCCART	384502.04	3770501.94	0.00	0.00
DISCCART	384552.04	3770501.94	0.00	0.00
DISCCART	384602.04	3770501.94	0.00	0.00
DISCCART	384652.04	3770501.94	0.00	0.00
DISCCART	384702.04	3770501.94	0.00	0.00
DISCCART	382752.04	3770551.94	0.00	0.00
DISCCART	382802.04	3770551.94	0.00	0.00
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DISCCART	382902.04	3770551.94	0.00	0.00
DISCCART	382952.04	3770551.94	0.00	0.00
DISCCART	383002.04	3770551.94	0.00	0.00
DISCCART	383052.04	3770551.94	0.00	0.00
DISCCART	383102.04	3770551.94	0.00	0.00
DISCCART	383152.04	3770551.94	0.00	0.00
DISCCART		3770551.94	0.00	
DISCCART	383202.04	3770551.94		0.00
DISCOART	383252.04 383302.04		0.00	
DISCCART	383302.04	3770551.94	0.00	0.00
DISCCART	383352.04	3770551.94	0.00	0.00
DISCCART	383402.04	3770551.94	0.00	0.00
DISCCART	383452.04	3770551.94	0.00	0.00
DISCCART	383502.04	3770551.94	0.00	0.00
DISCCART	383552.04	3770551.94	0.00	0.00
DISCCART	383602.04	3770551.94	0.00	0.00
DISCCART			0.00	0.00
DISCCART	383652.04 383702.04	3770551.94 3770551.94 3770551.94	0.00	0.00
DISCCART	383752.04	3770551.94	0.00	0.00
DISCCART	383802.04	3770551.94	0.00	0.00
DISCCART	383852.04	3770551.94	0.00	0.00
	383852.04			
DISCCART		3770551.94	0.00	0.00
DISCCART	383952.04	3770551.94	0.00	0.00
DISCCART	384002.04	3770551.94	0.00	0.00
DISCCART	384052.04	3770551.94	0.00	0.00
DISCCART	384102.04	3770551.94	0.00	0.00
DISCCART	384152.04	3770551.94	0.00	0.00
DISCCART	384202.04	3770551.94	0.00	0.00
DISCCART	384252.04	3770551.94	0.00	0.00
DISCCART	384302.04	3770551.94	0.00	0.00
DISCCART	384352.04	3770551.94	0.00	0.00
DISCCART	384402.04	3770551.94	0.00	0.00
DISCCART	384452.04	3770551.94	0.00	0.00
DISCCART	384502.04	3770551.94	0.00	0.00
	384502.04	3770551.94		
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DISCCART				0.00
B = 0	384602.04	3770551.94	0.00	
DISCCART DISCCART	384602.04 384652.04 384702.04	3770551.94 3770551.94 3770551.94	0.00	0.00

DISCCART	382752.04	3770601.94	0.00	0.00
DISCCART	382802.04	3770601.94	0.00	0.00
DISCCART				
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DISCCART	382902.04	3770601.94	0.00	0.00
DISCCART	382952.04	3770601.94	0.00	0.00
DISCCART	383002.04	3770601.94	0.00	0.00
DISCCART	383052.04	3770601.94	0.00	0.00
DISCCART	383102.04	3770601.94	0.00	0.00
DISCCART	383152.04	3770601.94	0.00	0.00
DISCCART	383202.04	3770601.94	0.00	0.00
DISCCART	383252.04	3770601.94	0.00	0.00
DISCCART	383302.04	3770601.94	0.00	0.00
DISCCART	383352.04	3770601.94	0.00	0.00
DISCCART	383402.04	3770601.94	0.00	0.00
	383452.04	3770601.94		
DISCCART			0.00	0.00
DISCCART	383502.04	3770601.94	0.00	0.00
DISCCART	383552.04	3770601.94	0.00	0.00
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DISCCART	383652.04	3770601.94	0.00	0.00
DISCCART	383702.04	3770601.94	0.00	0.00
DISCCART	383752.04	3770601.94	0.00	0.00
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DISCCART	383802.04	3770601.94	0.00	0.00
DISCCART	383852.04	3770601.94	0.00	0.00
DISCCART	383902.04	3770601.94	0.00	0.00
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DISCCART	384102.04	3770601.94	0.00	0.00
	304102.04			
DISCCART	384152.04	3770601.94	0.00	0.00
DISCCART	384202.04	3770601.94	0.00	0.00
DISCCART	384252.04	3770601.94	0.00	0.00
DISCCART	384302.04	3770601.94	0.00	0.00
DISCCART	384352.04	3770601.94	0.00	0.00
DISCCART	384402.04	3770601.94	0.00	0.00
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DISCCART	384452.04	3770601.94	0.00	
DISCCART	384502.04	3770601.94	0.00	0.00
DISCCART	384552.04	3770601.94	0.00	0.00
DISCCART	384602.04	3770601.94	0.00	0.00
DISCCART	384652.04	3770601.94	0.00	0.00
DISCCART	384702.04	3770601.94	0.00	0.00
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DISCCART	382852.04	3770651.94	0.00	0.00
DISCCART	382902.04	3770651.94	0.00	0.00
DISCCART	382952.04	3770651.94	0.00	0.00
DISCCART	383002.04	3770651.94	0.00	0.00
DISCCART	383052.04	3770651.94	0.00	0.00
DISCCART	383102.04		0.00	0.00
		3770651.94		
DISCCART	383152.04	3770651.94	0.00	0.00
DISCCART	383202.04	3770651.94	0.00	0.00
DISCCART	383252.04	3770651.94	0.00	0.00
DISCCART	383302.04	3770651.94	0.00	0.00
DISCCART	383352.04	3770651.94	0.00	0.00
DISCCART	383402.04	3770651.94	0.00	0.00
DISCCART	383452.04	3770651.94	0.00	0.00
DISCCART	383502.04	3770651.94	0.00	0.00
DISCCART	383552.04	3770651.94	0.00	0.00
DISCCART	383602.04	3770651.94	0.00	0.00
DISCCART	383652.04	3770651.94	0.00	0.00
DISCCART	383702.04	3770651.94	0.00	0.00
DISCCART	383802.04	3770651.94	0.00	0.00
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DISCCART	383902.04	3770651.94	0.00	0.00
DISCCART	383952.04	3770651.94	0.00	0.00
DISCCART	384002.04	3770651.94	0.00	0.00
DISCCART	384052.04	3770651.94	0.00	0.00
DISCCART	384102.04	3770651.94	0.00	0.00
	384152.04			
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DISCCART	384252.04	3770651.94	0.00	0.00
DISCCART	384302.04	3770651.94	0.00	0.00
DISCCART	384352.04	3770651.94	0.00	0.00
DISCOART	384402.04	3770651.94	0.00	0.00
DISCCART	384452.04	3770651.94	0.00	0.00
DISCCART	384502.04	3770651.94	0.00	0.00
DISCCART	384552.04	3770651.94	0.00	0.00
DISCCART	384602.04	3770651.94	0.00	0.00
DISCCART	384652.04	3770651.94	0.00	0.00
DISCCART	384702.04	3770651.94	0.00	0.00
DISCCART	382752.04	3770701.94	0.00	0.00
DISCCART	382802.04	3770701.94	0.00	0.00
DISCCART	382852.04	3770701.94	0.00	0.00
	382852.04	3770701.94	0.00	
DISCCART				0.00
DISCCART	382952.04	3770701.94	0.00	0.00
DISCCART	383002.04	3770701.94	0.00	0.00
DISCCART	383052.04	3770701.94	0.00	0.00
DISCCART	383102.04	3770701.94	0.00	0.00
DISCCART	383152.04	3770701.94	0.00	0.00
DISCCART	383202.04		0.00	0.00
		3770701.94		
DISCCART	383252.04	3770701.94	0.00	0.00
DISCCART	383302.04	3770701.94	0.00	0.00
DISCCART	383352.04	3770701.94	0.00	0.00
DISCCART		3770701.94	0.00	0.00
DISCCART	383402.04 383452.04	3770701.94	0.00	0.00
DISCCART		3770701.94	0.00	0.00
DISCCART	383552.04	3770701.94	0.00	0.00
DISCCART	383802.04	3770701.94	0.00	0.00
DISCCART	383852.04	3770701.94	0.00	0.00
	383902.04			
DISCCART		3770701.94	0.00	0.00
DISCCART	383952.04	3770701.94	0.00	0.00
DISCCART	384002.04	3770701.94	0.00	0.00
DISCCART	384052.04	3770701.94	0.00	0.00
DISCCART	384102.04	3770701.94	0.00	0.00
DISCCART	384152.04	3770701.94	0.00	0.00
DISCCART	384202.04	3770701.94	0.00	0.00
DISCCART		3770701.94	0.00	0.00
	JUMZJZ.U4			
DISCCART	204200 01	3770701.94	0.00	0.00
DISCCART	384302.04			0.00
	384352.04	3770701.94	0.00	
DISCCART	384352.04 384402.04	3770701.94 3770701.94	0.00	0.00
DISCCART	384352.04 384402.04 384452.04	3770701.94 3770701.94 3770701.94	0.00	0.00
DISCCART DISCCART	384352.04 384402.04 384452.04	3770701.94 3770701.94 3770701.94 3770701.94	0.00	0.00
DISCCART DISCCART DISCCART	384352.04 384402.04 384452.04	3770701.94 3770701.94 3770701.94 3770701.94 3770701.94	0.00 0.00 0.00	0.00
DISCCART DISCCART DISCCART	384352.04 384402.04 384452.04 384502.04 384552.04	3770701.94 3770701.94 3770701.94 3770701.94 3770701.94	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
DISCCART DISCCART	384352.04 384402.04 384452.04	3770701.94 3770701.94 3770701.94 3770701.94	0.00 0.00 0.00	0.00 0.00 0.00

DISCCART	384702.04	3770701.94	0.00	0.00
DISCCART				
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DISCCART	382902.04	3770751.94	0.00	0.00
DISCCART	382952.04	3770751.94	0.00	0.00
DISCCART	383002.04	3770751.94	0.00	0.00
DISCCART	383052.04	3770751.94	0.00	0.00
DISCCART	383102.04	3770751.94	0.00	0.00
DISCCART	383152.04	3770751.94	0.00	0.00
DISCCART	383202.04	3770751.94	0.00	0.00
DISCCART	383252.04	3770751.94	0.00	0.00
DISCCART	383302.04	3770751.94	0.00	0.00
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DISCCART	383402.04	3770751.94	0.00	0.00
DISCCART	383452.04	3770751.94	0.00	0.00
DISCCART	383502.04	3770751.94	0.00	0.00
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DISCCART	384002.04	3770751.94	0.00	0.00
DISCCART	384052.04	3770751.94	0.00	0.00
DISCCART	384102.04	3770751.94	0.00	0.00
DISCCART	384152.04	3770751.94	0.00	0.00
DISCCART	384202.04	3770751.94	0.00	0.00
DISCCART	384252.04	3770751.94	0.00	0.00
DISCCART	384302.04	3770751.94	0.00	0.00
	384352.04		0.00	0.00
DISCCART		3770751.94		
DISCCART	384402.04	3770751.94	0.00	0.00
DISCCART	384452.04	3770751.94	0.00	0.00
DISCCART	384502.04	3770751.94	0.00	0.00
DISCCART	384552.04	3770751.94	0.00	0.00
DISCCART	384602.04	3770751.94	0.00	0.00
DISCCART	384652.04	3770751.94	0.00	0.00
DISCCART	384702.04	3770751.94	0.00	0.00
DISCCART	382752.04	3770801.94	0.00	0.00
DISCCART	382802.04	3770801.94	0.00	0.00
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DISCCART			0.00	
DISCCART	382902.04	3770801.94	0.00	0.00
DISCCART	382952.04	3770801.94	0.00	0.00
DISCCART	383002.04	3770801.94	0.00	0.00
DISCCART	383052.04	3770801.94	0.00	0.00
DISCCART	383102.04	3770801.94	0.00	0.00
DISCCART	383152.04	3770801.94	0.00	0.00
DISCCART	383202.04	3770801.94	0.00	0.00
DISCCART	383252.04	3770801.94	0.00	0.00
DISCCART	383302.04	3770801.94	0.00	0.00
DISCCART	383352.04	3770801.94	0.00	0.00
DISCCART	383402.04	3770801.94	0.00	0.00
DISCCART	383452.04	3770801.94	0.00	0.00
DISCCART	383502.04	3770801.94	0.00	0.00
DISCCART	383552.04	3770801.94	0.00	0.00
DISCCART	383802.04	3770801.94	0.00	0.00
DISCCART	383852.04	3770801.94	0.00	0.00
DISCCART	383902.04	3770801.94	0.00	0.00
DISCCART	383952.04	3770801.94	0.00	0.00
DISCCART	384002.04	3770801.94	0.00	0.00
DISCCART	384052.04	3770801.94	0.00	0.00
DISCCART	384102.04			
		3770801.94	0.00	0.00
DISCCART	384152.04	3770801.94	0.00	0.00
DISCCART	384202.04	3770801.94	0.00	0.00
DISCCART	384252.04	3770801.94	0.00	0.00
DISCCART	384302.04	3770801.94	0.00	0.00
DISCCART	384352.04	3770801.94	0.00	0.00
DISCCART	384402.04	3770801.94	0.00	0.00
DISCCART	384452.04	3770801.94	0.00	0.00
DISCCART	384502.04	3770801.94	0.00	0.00
DISCCART	384552.04	3770801.94	0.00	0.00
DISCCART	384602.04	3770801.94	0.00	0.00
			0.00	0.00
DISCCART	384652.04	3770801.94		
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DISCCART	382752.04	3770851.94	0.00	0.00
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DISCCART	382902.04	3770851.94	0.00	0.00
DISCCART	382952.04	3770851.94	0.00	0.00
DISCCART	383002.04	3770851.94	0.00	0.00
DISCCART	383052.04	3770851.94	0.00	0.00
DISCCART	383102.04	3770851.94	0.00	0.00
DISCCART	383152.04	3770851.94	0.00	0.00
DISCCART	383202.04	3770851.94	0.00	0.00
DISCCART		3770851.94	0.00	0.00
DISCCART	383252.04	3770851.94	0.00	0.00
DISCCART	383352.04	3770851.94	0.00	
DISCCART	383352.04	3770851.94		0.00
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DISCCART	383452.04	3770851.94	0.00	0.00
DISCCART	383502.04	3770851.94	0.00	0.00
DISCCART	383552.04	3770851.94	0.00	0.00
DISCCART	383802.04	3770851.94	0.00	0.00
DISCCART	383852.04	3770851.94	0.00	0.00
DISCCART			0.00	0.00
DISCCART	383952.04	3770851.94 3770851.94 3770851.94	0.00	0.00
DISCCART	384002.04	3770851.94	0.00	0.00
DISCCART	384052.04	3770851.94	0.00	0.00
DISCCART	384102.04	3770851.94	0.00	0.00
DISCCART	384152.04	3770851.94	0.00	0.00
DISCCART		3770851.94		
	384202.04		0.00	0.00
DISCCART	384252.04	3770851.94	0.00	0.00
DISCCART	384302.04	3770851.94	0.00	0.00
DISCCART	384352.04	3770851.94	0.00	0.00
DISCCART	384402.04	3770851.94	0.00	0.00
DISCCART	304402.04		0.00	0.00
DISCCART	384452.04	3770851.94		0.00
	384452.04 384502.04	3770851.94	0.00	
DISCCART	384452.04 384502.04	3770851.94	0.00	0.00
DISCCART	384452.04 384502.04	3770851.94		
DISCCART	384452.04 384502.04 384552.04 384602.04	3770851.94 3770851.94 3770851.94	0.00	0.00
DISCCART	38452.04 384502.04 384552.04 384602.04 384652.04	3770851.94 3770851.94 3770851.94 3770851.94	0.00 0.00 0.00	0.00 0.00 0.00
DISCCART DISCCART DISCCART	384452.04 384502.04 384552.04 384602.04 384652.04 384702.04	3770851.94 3770851.94 3770851.94 3770851.94 3770851.94	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
DISCCART DISCCART DISCCART DISCCART	384452.04 384502.04 384552.04 384602.04 384652.04 384702.04 382752.04	3770851.94 3770851.94 3770851.94 3770851.94 3770851.94 3770901.94	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
DISCCART DISCCART DISCCART DISCCART DISCCART	384452.04 384502.04 384552.04 384602.04 384652.04 384702.04 382752.04	3770851.94 3770851.94 3770851.94 3770851.94 3770851.94 3770901.94	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
DISCCART DISCCART DISCCART DISCCART DISCCART DISCCART	384452.04 384502.04 384552.04 384652.04 384652.04 384702.04 382752.04 382852.04	3770851.94 3770851.94 3770851.94 3770851.94 3770901.94 3770901.94 3770901.94	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
DISCCART DISCCART DISCCART DISCCART DISCCART	384452.04 384502.04 384552.04 384602.04 384652.04 384702.04 382752.04	3770851.94 3770851.94 3770851.94 3770851.94 3770851.94 3770901.94	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00

DISCCART	383002.04	3770901.94	0.00	0.00
DISCCART	383052.04	3770901.94	0.00	0.00
DISCCART	383102.04	3770901.94	0.00	0.00
DISCCART	383152.04	3770901.94	0.00	0.00
DISCCART	383202.04	3770901.94	0.00	0.00
DISCCART	383252.04	3770901.94	0.00	0.00
DISCCART	383302.04	3770901.94	0.00	0.00
DISCCART	383352.04	3770901.94	0.00	0.00
DISCCART	383402.04	3770901.94	0.00	0.00
DISCCART	383452.04	3770901.94	0.00	0.00
DISCCART	383502.04	3770901.94	0.00	0.00
DISCCART	383552.04	3770901.94	0.00	0.00
DISCCART	383802.04	3770901.94	0.00	0.00
DISCCART	383852.04	3770901.94	0.00	0.00
DISCCART	383902.04	3770901.94	0.00	0.00
DISCCART	383952.04	3770901.94	0.00	0.00
DISCCART	384002.04	3770901.94	0.00	0.00
DISCCART	384052.04	3770901.94	0.00	0.00
DISCCART	384102.04	3770901.94	0.00	0.00
DISCCART	384152.04	3770901.94	0.00	0.00
DISCCART	384202.04	3770901.94	0.00	0.00
DISCCART	384252.04	3770901.94	0.00	0.00
DISCCART	384302.04	3770901.94	0.00	0.00
DISCCART	384352.04	3770901.94	0.00	0.00
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DISCCART	383102.04	3770951.94	0.00	0.00
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DISCCART	383202.04	3770951.94	0.00	0.00
DISCCART	383252.04	3770951.94	0.00	0.00
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DISCCART	383352.04	3770951.94	0.00	0.00
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DISCCART	383502.04	3770951.94	0.00	0.00
DISCCART	383552.04	3770951.94	0.00	0.00
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DISCCART	383902.04	3770951.94	0.00	0.00
DISCCART	383952.04	3770951.94	0.00	0.00
DISCCART	384002.04	3770951.94	0.00	0.00
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DISCCART	383452.04	3771151.94	0.00	0.00
DISCCART	383502.04	3771151.94	0.00	0.00
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DISCCART	384202.04	3771151.94	0.00	0.00
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DISCCART	383852.04 383902.04 383952.04	3771201.94	0.00	0.00
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DISCCART	383152.04	3771301.94	0.00	0.00
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DISCCART	383402.04	3771351.94	0.00	0.00
DISCCART		3771351.94	0.00	0.00
DISCCART	383452.04		0.00	0.00
	383452.04 383502.04	3771351.94		
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DISCCART DISCCART	383502.04 383552.04 383602.04 383652.04	3771351.94 3771351.94 3771351.94	0.00	0.00
DISCCART DISCCART DISCCART	383502.04 383552.04 383602.04 383652.04 383702.04	3771351.94 3771351.94 3771351.94 3771351.94	0.00 0.00 0.00	0.00 0.00 0.00
DISCCART DISCCART DISCCART DISCCART	383502.04 383552.04 383602.04 383652.04 383702.04 383752.04	3771351.94 3771351.94 3771351.94 3771351.94 3771351.94	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
DISCCART DISCCART DISCCART DISCCART DISCCART	383502.04 383552.04 383602.04 383652.04 383702.04 383752.04	3771351.94 3771351.94 3771351.94 3771351.94 3771351.94 3771351.94	0.00 0.00 0.00	0.00 0.00 0.00
DISCCART DISCCART DISCCART DISCCART DISCCART DISCCART	383502.04 383552.04 383602.04 383652.04 383702.04 383752.04	3771351.94 3771351.94 3771351.94 3771351.94 3771351.94	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
DISCCART DISCCART DISCCART DISCCART DISCCART DISCCART	383502.04 383552.04 383602.04 383652.04 383702.04 383752.04 383802.04 383852.04	3771351.94 3771351.94 3771351.94 3771351.94 3771351.94 3771351.94 3771351.94	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
DISCCART DISCCART DISCCART DISCCART DISCCART	383502.04 383552.04 383602.04 383652.04 383702.04 383752.04	3771351.94 3771351.94 3771351.94 3771351.94 3771351.94 3771351.94	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00

DIGGGADE	384002.04	2771251 04	0 00	0.00
DISCCART	384052.04	3771351.94	0.00	0.00
DISCCART		3771351.94	0.00	0.00
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DISCCART	384152.04	3771351.94	0.00	0.00
DISCCART	384202.04	3771351.94	0.00	0.00
DISCCART	384252.04	3771351.94	0.00	0.00
DISCCART	384302.04	3771351.94	0.00	0.00
DISCCART	384352.04	3771351.94	0.00	0.00
DISCCART	384402.04	3771351.94	0.00	0.00
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DISCCART			0.00	
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DISCCART	382952.04	3771401.94	0.00	0.00
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DISCCART				
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DISCCART	383152.04	3771401.94	0.00	0.00
DISCCART	383202.04	3771401.94	0.00	0.00
DISCCART	383252.04	3771401.94	0.00	0.00
DISCCART	383302.04	3771401.94	0.00	0.00
DISCCART	383352.04	3771401.94	0.00	0.00
DISCCART	383402.04	3771401.94	0.00	0.00
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DISCCART		3771401.94		
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DISCCART	383552.04	3771401.94	0.00	0.00
DISCCART	383602.04	3771401.94	0.00	0.00
DISCCART	383652.04	3771401.94	0.00	0.00
DISCCART	383702.04	3771401.94	0.00	0.00
DISCCART	383752.04	3771401.94	0.00	0.00
DISCCART	383802.04	3771401.94	0.00	0.00
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DISCCART	384102.04	3771401.94	0.00	0.00
DISCCART	384152.04	3771401.94	0.00	0.00
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DISCCART				
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DISCCART	384402.04	3771401.94	0.00	0.00
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DISCCART				0.00
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DISCCART	383452.04	3771451.94	0.00	0.00
DISCCART	383502.04	3771451.94	0.00	0.00
DISCCART	383552.04	3771451.94	0.00	0.00
DISCCART	383602.04	3771451.94	0.00	0.00
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DISCCART	383752.04	3771451.94	0.00	0.00
	363/52.04	3//1451.94		
DISCCART	383802.04	3771451.94 3771451.94	0.00	0.00
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DISCCART	384002.04	3771451.94	0.00	0.00
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DISCCART	384102.04	3771451.94	0.00	0.00
DISCCART	204152 04	3771451.94	0.00	0.00
DISCCART	384202.04	3771451.94	0.00	0.00
DISCCART	384202.04	3771451.94	0.00	
DISCUART	384252.04	3//1451.94		0.00
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DISCCART	384352.04	3771451.94	0.00	0.00
DISCCART	384402.04	3771451.94	0.00	0.00
DISCCART	384452.04	3771451.94	0.00	0.00
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DISCCART	384602.04	3771451.94	0.00	0.00
DISCCART	384602.04 384652.04	3771451.94	0.00	0.00
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DISCCART	382902.04	3771501.94	0.00	0.00
DISCCART	382952.04	3771501.94	0.00	0.00
DISCCART	383002.04	3771501.94	0.00	0.00
DISCCART	202052 04	3771501.94	0.00	0.00
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DISCCART	383702.04	3771501.94	0.00	0.00
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DISCCART	384502.04	3771501.94	0.00	0.00
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DISCCART	384652.04	3771501.94	0.00	0.00
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DISCCART	382802.04	3771551.94	0.00	0.00
DISCCART	382852.04	3771551.94	0.00	0.00
DISCCART	382902.04	3771551.94	0.00	0.00
DISCCART	382952.04	3771551.94	0.00	0.00
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DISCCART	383502.04	3771551.94	0.00	0.00
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DISCCART	383902.04	3771551.94	0.00	0.00
DISCCART	383952.04	3771551.94	0.00	0.00
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DISCCART	384052.04	3771551.94	0.00	0.00
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DISCCART	383402.04	3771601.94	0.00	0.00
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DISCCART	383602.04	3771601.94	0.00	0.00
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DISCCART	383752.04	3771601.94	0.00	0.00
DISCCART	383802.04	3771601.94	0.00	0.00
DISCCART	383852.04	3771601.94	0.00	
DISCORRI				0.00
DISCCART	383902.04	3771601.94	0.00	0.00
DISCCART	383952.04	3771601.94	0.00	0.00
DISCCART	384002.04	3771601.94	0.00	0.00
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DISCCART	384102.04	3771601.94	0.00	0.00
DISCCART	384152.04	3771601.94	0.00	0.00
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DISCCART	384302.04 384352.04	3771601.94 3771601.94	0.00	0.00
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DISCCART	384452.04	3771601.94	0.00	0.00
DISCCART	384502.04	3771601.94	0.00	0.00
	384502.04	3771601.94		
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DISCCART	382952.04	3771651.94	0.00	0.00
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DISCCART	383102.04	3771651.94	0.00	0.00
DISCCART	383152.04	3771651.94	0.00	0.00
	383152.04			
DISCCART	383202.04 383252.04	3771651.94 3771651.94	0.00	0.00
DISCCART		4//1651.94	0.00	0.00
	303232.04		0.00	
DISCCART DISCCART	383302.04 383352.04	3771651.94 3771651.94	0.00	0.00

DISCCART	383402.04	3771651.94	0.00	0.00
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DISCCART				
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DISCCART	383602.04	3771651.94	0.00	0.00
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DISCCART	384152.04	3771651.94	0.00	0.00
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DISCCART	384402.04	3771651.94	0.00	0.00
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DISCCART	384602.04	3771651.94		
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DISCCART	384652.04	3771651.94	0.00	0.00
DISCCART	384702.04	3771651.94	0.00	0.00
DISCCART	382752.04	3771701.94	0.00	0.00
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DISCCART	382852.04	3771701.94	0.00	0.00
DISCCART	382902.04	3771701.94	0.00	0.00
DISCCART	382952.04	3771701.94	0.00	0.00
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DISCCART	383052.04	3771701.94	0.00	0.00
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DISCCART	383352.04	3771701.94	0.00	0.00
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DISCCART	383402.04	3//1/01.94	0.00	
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DISCCART	383752.04	3771701.94	0.00	0.00
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DISCCART	383902.04	3771701.94	0.00	0.00
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DISCCART	384152.04	3771701.94	0.00	0.00
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DISCCART	384402.04	3771701.94	0.00	0.00
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DISCCART	382852.04	3771751.94	0.00	0.00
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DISCCART		3771751.94	0.00	0.00
DISCCART	383552.04	3771751.94	0.00	0.00
DISCCART	383652.04	3771751.94	0.00	0.00
DISCCART	383702.04	3771751.94	0.00	0.00
DISCCART	383752.04	3771751.94	0.00	
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DISCCART	383902.04	3771751.94	0.00	0.00
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DISCCART	384252.04	3771751.94	0.00	0.00
DISCCART	384302.04	3771751.94	0.00	0.00
DISCCART	384352.04	3771751.94	0.00	
DISCCART	384352.04	3771751.94		0.00
			0.00	0.00
DISCCART	384452.04	3771751.94	0.00	0.00
DISCCART	384502.04	3771751.94	0.00	0.00
DISCCART	384552.04	3771751.94	0.00	0.00
DISCCART	384602.04	3771751.94	0.00	0.00
DISCCART	384652.04	3771751.94	0.00	0.00
DISCCART	384702.04	3771751.94	0.00	0.00
DISCCART	382752.04	3771801.94	0.00	0.00
DISCCART	382802.04	3771801.94	0.00	0.00
DISCCART	382852.04	3771801.94	0.00	0.00
DISCCART		3771801.94	0.00	0.00
DISCCART	382902.04 382952.04	3771801.94	0.00	0.00
DISCCART	383002.04	3771801.94	0.00	
		3771801.94	0.00	0.00
DISCCART	383052.04	J//10U1.94	0.00	0.00

DISCCART DISCCART	383102.04 383152.04	3771801.94 3771801.94	0.00	0.00
DISCCART	383202.04	3771801.94	0.00	0.00
DISCCART	383252.04	3771801.94	0.00	0.00
DISCCART	383302.04	3771801.94	0.00	0.00
DISCCART	383352.04	3771801.94	0.00	0.00
DISCCART	383402.04	3771801.94	0.00	0.00
DISCCART	383452.04	3771801.94	0.00	0.00
DISCCART	383502.04	3771801.94	0.00	0.00
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DISCCART	383652.04	3771801.94	0.00	0.00
DISCCART	383702.04	3771801.94	0.00	0.00
DISCCART	383752.04	3771801.94	0.00	0.00
DISCCART	383802.04	3771801.94	0.00	0.00
DISCCART	383852.04	3771801.94	0.00	0.00
DISCCART	383902.04	3771801.94	0.00	0.00
DISCCART	383952.04	3771801.94	0.00	0.00
DISCCART	384002.04	3771801.94	0.00	0.00
DISCCART	384052.04	3771801.94	0.00	0.00
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DISCCART	384152.04 384202.04	3771801.94 3771801.94	0.00	0.00
DISCCART	384252.04	3771801.94	0.00	0.00
DISCCART	384302.04	3771801.94	0.00	0.00
DISCCART	384352.04	3771801.94	0.00	0.00
DISCCART	384402.04	3771801.94	0.00	0.00
DISCCART	384452.04	3771801.94	0.00	0.00
DISCCART	384502.04	3771801.94	0.00	0.00
DISCCART	384552.04	3771801.94	0.00	0.00
DISCCART	384602.04	3771801.94	0.00	0.00
DISCCART	384652.04	3771801.94	0.00	0.00
DISCCART	384702.04	3771801.94	0.00	0.00
DISCCART DISCCART	382752.04 382802.04	3771851.94 3771851.94	0.00	0.00
DISCCART	382852.04	3771851.94	0.00	0.00
DISCCART	382902.04	3771851.94	0.00	0.00
DISCCART	382952.04	3771851.94	0.00	0.00
DISCCART	383002.04	3771851.94	0.00	0.00
DISCCART	383052.04	3771851.94	0.00	0.00
DISCCART	383102.04	3771851.94	0.00	0.00
DISCCART	383152.04	3771851.94	0.00	0.00
DISCCART	383202.04 383252.04	3771851.94 3771851.94	0.00	0.00
DISCCART	383302.04	3771851.94	0.00	0.00
DISCCART	383352.04	3771851.94	0.00	0.00
DISCCART	383402.04	3771851.94	0.00	0.00
DISCCART	383452.04	3771851.94	0.00	0.00
DISCCART	383502.04	3771851.94	0.00	0.00
DISCCART	383552.04	3771851.94	0.00	0.00
DISCCART	383602.04	3771851.94	0.00	0.00
DISCCART	383652.04	3771851.94	0.00	0.00
DISCCART	383702.04 383752.04	3771851.94 3771851.94	0.00	0.00
DISCCART DISCCART	383802.04	3771851.94	0.00	0.00
DISCCART	383852.04	3771851.94	0.00	0.00
DISCCART	383902.04	3771851.94	0.00	0.00
DISCCART	383952.04	3771851.94	0.00	0.00
DISCCART	384002.04	3771851.94	0.00	0.00
DISCCART	384052.04	3771851.94	0.00	0.00
DISCCART	384102.04	3771851.94	0.00	0.00
DISCCART	384152.04	3771851.94	0.00	0.00
DISCCART	384202.04	3771851.94	0.00	0.00
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DISCCART	384352.04	3771851.94	0.00	0.00
DISCCART	384402.04	3771851.94	0.00	0.00
DISCCART	384452.04	3771851.94	0.00	0.00
DISCCART	384502.04	3771851.94	0.00	0.00
DISCCART	384552.04	3771851.94	0.00	0.00
DISCCART	384602.04	3771851.94	0.00	0.00
DISCCART	384652.04	3771851.94	0.00	0.00
DISCCART	384702.04	3771851.94	0.00	0.00
DISCCART DISCCART	382752.04 382802.04	3771901.94 3771901.94	0.00	0.00
DISCCART	382852.04	3771901.94	0.00	0.00
DISCCART	382902.04	3771901.94 3771901.94	0.00	0.00
DISCCART	382952.04	3771901.94	0.00	0.00
DISCCART	383002.04	3771901.94	0.00	0.00
DISCCART	383052.04	3771901.94	0.00	0.00
DISCCART	383102.04	3771901.94	0.00	0.00
DISCCART	383152.04	3771901.94 3771901.94	0.00	0.00
DISCCART	383202.04 383252.04	3771901.94 3771901.94	0.00	0.00
DISCCART	383302.04	3771901.94	0.00	0.00
DISCCART	383352.04	3771901.94	0.00	0.00
DISCCART	383402.04	3771901.94	0.00	0.00
DISCCART	383452.04	3771901.94	0.00	0.00
DISCCART	383502.04	3771901.94	0.00	0.00
DISCCART	383552.04	3771901.94	0.00	0.00
DISCCART	383602.04	3771901.94	0.00	0.00
DISCCART	383652.04	3771901.94	0.00	0.00
DISCCART	383702.04 383752.04	3771901.94 3771901.94	0.00	0.00
DISCCART	383802.04	3771901.94	0.00	0.00
DISCCART	383852.04	3771901.94	0.00	0.00
DISCCART	383902.04	3771901.94	0.00	0.00
DISCCART	383952.04	3771901.94	0.00	0.00
DISCCART	384002.04	3771901.94	0.00	0.00
DISCCART	384052.04	3771901.94	0.00	0.00
DISCCART	384102.04	3771901.94	0.00	0.00
DISCCART	384152.04	3771901.94	0.00	0.00
DISCCART DISCCART	384202.04 384252.04	3771901.94 3771901.94	0.00	0.00
DISCCART	384252.04	3771901.94	0.00	0.00
DISCCART	384352.04	3771901.94	0.00	0.00
DISCCART	384402.04	3771901.94	0.00	0.00
DISCCART	384452.04	3771901.94	0.00	0.00
DISCCART	384502.04	3771901.94	0.00	0.00
DISCCART	384552.04	3771901.94	0.00	0.00
DISCCART	384602.04	3771901.94	0.00	0.00
DISCCART	384652.04	3771901.94	0.00	0.00
DISCCART RE FINISHED	384702.04	3771901.94	0.00	0.00
RE FINISHED				

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**
 ** AERMOD Meteorology Pathway
me STARTING
SURFFILE cela.SFC
PROFFILE cela.PFL
SURFDATA 0 2006
UAIRDATA 3190 2006
PROFBASE 87 METERS
ME FINISHED
***
 Auto-Generated Plotfiles
PLOTFILE ANNUAL ALL HRA.AD\ANOOGALL.PLT
 PLOTFILE ANNUAL OnSite HRA.AD\AN00G001.PLT
PLOTFILE ANNUAL Haulidle HRA.AD\AN00G002.PLT
PLOTFILE ANNUAL Haulrout HRA.AD\AN00G003.PLT
OU FINISHED
 ********
  *** SETUP Finishes Successfully ***
   DFAULT ELEV
  *** MODEL SETUP OPTIONS SUMMARY ***
 **Model Is Setup For Calculation of Average CONCentration Values.
        -- DEPOSITION LOGIC
 -- DEPOSITION LOGIC --
**Model Uses NO DRY DEPLETION. DDPLETE = F
**Model Uses NO WET DEPLETION. WDPLETE = F
**NO GAS DRY DEPOSITION Data Provided.
 **Model Uses URBAN Dispersion Algorithm for the SBL for 57 Source(s), for Total of 1 Urban Area(s):

Urban Population = 9862049.0; Urban Roughness Length = 1.000 m
 **Model Uses Regulatory DEFAULT Options:

1. Stack-tip Downwash.

2. Model Accounts for ELEVated Terrain Effects.

3. Use Calms Processing Routine.

4. Use Missing Data Processing Routine.

5. No Exponential Decay for URBAN/Non-SO2
 **Model Assumes No FLAGPOLE Receptor Heights.
 **Model Calculates ANNUAL Averages Only
  **This Run Includes: 57 Source(s);
                                                                                                  4 Source Group(s); and 1548 Receptor(s)
  **The Model Assumes A Pollutant Type of: DPM
  **Model Set To Continue RUNning After the Setup Testing.
  **Output Options Selected:

Model Outputs Tables of ANNUAL Averages by Receptor

Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
 **NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours
                                                                                                                                               m for Missing Hours
b for Both Calm and Missing Hours
 **Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 87.00; Decay Coef. = 0.000; Rot. Emission Units = GRAMS/SEC; Emission Rate Unit Factor = Output Units = MICROGRAMS/M**3
                                                                                                                                                                                                                                         ; Rot. Angle
  **Approximate Storage Requirements of Model = 1.4 MB of RAM.
   **MODELOPTs:
                                                                                                                                                                                                                                                                                   PAGE
                                                              DFAULT ELEV
                                                                                                                 *** VOLUME SOURCE DATA ***
                                                                                                                 BASE RELEASE INIT. INIT. URBAN EMISSION RATE
                             NUMBER EMISSION RATE
                                NUMBER EMISSION RAID
PART. (GRAMS/SEC) X Y ELEV. HEIGHT SY SZ
CATS. (METERS) (METERS) (METERS) (METERS) (METERS) (METERS) (METERS)
          SOURCE
                                                                                                                                                                                                              SOURCE SCALAR VARY
                              0 0.86655E-04 383546.8 3770633.2 0 0.86655E-04 383540.7 3770633.2 0 0.86655E-04 383540.5 3770633.2 0 0.86655E-04 383540.5 3770633.0 0 0.86655E-04 383510.6 3770623.0 0 0.86655E-04 383492.9 3770613.0 0 0.86655E-04 383495.6 3770598.0 0 0.86655E-04 383495.6 3770598.0 0 0.86655E-04 383495.6 3770598.0 0 0.86655E-04 383512.8 3770598.0 0 0.86655E-04 383512.8 3770578.2 0 0.86655E-04 383547.2 3770576.8 0 0.86655E-04 383547.3 3770575.2 0 0.86655E-04 383547.3 3770555.2 0 0.86655E-04 383561.3 3770555.2 0 0.86655E-04 383610.3 3770598.8 
      L0000001
L0000002
L0000003
                                                                                                                             0.0
                                                                                                                                                    1.52
                                                                                                                                                                         2.88
4.78
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0.27
                                                                                                                                                                                                                   YES
                                                                                                                                                                                                                                   HROFDY
      L0000004
                                                                                                                                                    1.52
                                                                                                                                                                                                                                   HROFDY
      T-0000005
     L0000005
L0000007
L0000008
L0000009
                                                                                                                                                    1.52
                                                                                                                                                                                                                   YES
      L0000010
      T-0000011
                                                                                                                                                    1.52
                                                                                                                                                                                                                                   HROFDY
      L0000012
      L0000012
L0000013
L0000014
L0000015
      L0000016
                                                                                                                                                    1.52
                                                                                                                                                                                                                   YES
                                                                                                                                                                                                                                   HROFDY
      L0000017
                                                                                                                                                                                                                                   HROFDY
      T-0000018
                                                                                                                                                    1.52
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0 0.86655E-04 383607.5 3770635.8
0 0.86655E-04 383604.7 3770654.5
0 0.86655E-04 383601.9 3770673.0
0 0.86655E-04 383699.1 377091.5
0 0.86655E-04 383699.1 3770710.0
0 0.86655E-04 383696.3 3770710.0
0 0.86655E-04 383626.0 3770699.0
0 0.86655E-04 383643.4 3770689.8
0 0.86655E-04 383643.4 3770689.8
                                                                                                                                       0.0
                                                                                                                                                          1.52
     L0000021
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0.27
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0.27
     L0000022
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                                                                                                                                                          1.52
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                                                                                                                                                                                                                            YES
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      1.0000022
     L0000023
L0000024
L0000025
L0000026
L0000027
  L0000027 0 0 .86655E-04 383643.4 3770689.8 0.0 1.52  
L0000028 0 0 .86655E-04 383660.8 3770680.8 0.0 1.52  
L0000029 0 0.86655E-04 383678.2 3770671.5 0.0 1.52  
L0000031 0 0.86655E-04 383678.2 3770671.5 0.0 1.52  
L0000031 0 0.86655E-04 383730.6 3770644.0 0.0 1.52  
L0000032 0 0.86655E-04 383730.6 3770644.0 0.0 1.52  
L0000033 0 0.86655E-04 383730.6 3770644.0 0.0 1.52  
L0000034 0 0.86655E-04 383736.3 3770652.5 0.0 1.52  
L0000035 0 0.86655E-04 383769.2 3770653.0 0.0 1.52  
L0000036 0 0.86655E-04 383769.2 3770657.2 0.0 1.52  
L0000037 0 0.86655E-04 383769.2 3770657.2 0.0 1.52  
L0000038 0 0.86655E-04 383767.3 3770676.8 0.0 1.52  
L0000038 0 0.86655E-04 383767.3 3770676.8 0.0 1.52  
L0000039 0 0.86655E-04 383765.4 3770715.5 0.0 1.52  
L00000040 0 0.86655E-04 383765.4 3770715.5 0.0 1.52  
L0000040 VERSION 07026 ***  
*** AERMOD - VERSION 07026 ***  
*** HRA - PM Diesel (Unmitigated)
                                                                                                                                                          1.52
                                                                                                                                                                                                                           YES
                                                                                                                                                                                                                                            HROFDY
                                                                                                                                                                                                                           YES
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HROFDY
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YES
YES
YES
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                                                                                                                                                                                                                                           HROFDY
HROFDY
HROFDY
                                                                                                                                                                                                                           YES
                                                                                                                                                                                                                                                                                              04/20/10
                                                                                                                                                                                                                                                                                               11:23:25
 **MODELOPTs:
                                                                  DFAULT ELEV
                                                                                                                     *** VOLUME SOURCE DATA ***
                                                                                                                          BASE RELEASE INIT.
                              NUMBER EMISSION RATE
                                                                                                                                                                                                 INIT. URBAN EMISSION RATE
                                 NUMBER EMISSION RATE
PART. (GRAMS/SEC) X Y ELEV. HEIGHT SY SZ
CATS. (METERS) (METERS) (METERS) (METERS) (METERS) (METERS)
          SOURCE
 0 0.86655E-04 383763.5 3770754.5
     L0000041
                                                                                                                                                                                9.04
                                                                                                                                                                                                      0.27
                                                                                                                                                                                                                           YES
                                                                                                                                                                                                                                            HROFDY
                                                                                                                                                                                9.04
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                                                                                                                                                                                                                                            HROFDY
                                                                                                                                                                                9.04
                                                                                                                                                                                                                            YES
                                                                                                                                                                                                                                            HROFDY
                                                                                                                                                                                9.04
                                                                                                                                                                                                                            YES
                                                                                                                                                                                                                                            HROFDY
                                                                                                                                                                                9.04
                                                                                                                                                                                                                            YES
                                                                                                                                                                                                                                            HROFDY
                                                                                                                                                                                                                            YES
                                                                                                                                                                                7.63
                                                                                                                                                                                                                           YES
                                                                                                                                                                                                                                           HROFDY
                                                                                                                                                                                                                                                                                              04/20/10
                                                                                                                                                                                                                                                                                               11:23:25
PAGE 4
 **MODELOPTs:
                                                                  DFAULT ELEV
                                                                                                                *** AREAPOLY SOURCE DATA ***
                               NUMBER EMISSION RATE LOCATION OF AREA BASE RELEASE NUMBER PART. (GRAMS/SEC X Y ELEV. HEIGHT OF VERTS. CATS. /METER**2) (METERS) (METERS) (METERS) (METERS)
                                                                                                                                                                                                      INIT. URBAN EMISSION RATE
SZ SOURCE SCALAR VARY
                                                                                                                                                                                                     SZ
(METERS)
                                                                                                                                                                                                                                                     BY
-
   SITE 0 0.66350E-06 383597.7 3771297.0 0.0 5.00 HAULIDLE 0 0.60760E-09 383597.7 3771297.0 0.0 5.00 *** AERMOD - VERSION 07026 *** *** ECho Park Lake Rehabilitation *** HRA - PM Diesel (Unmitigated)
                                                                                                                                                                                                                                                                                              04/20/10
                                                                  DFAULT ELEV
CONC
                                                                                                     *** SOURCE IDS DEFINING SOURCE GROUPS ***
  ONSITE SITE ,
   HAULIDLE HAULIDLE.
   HAULROUT L0000001, L0000002, L0000003, L0000004, L0000005, L0000006, L0000007, L0000008, L0000009, L0000010, L0000011, L0000012,
                          \texttt{L0000013, L0000014, L0000015, L0000016, L0000017, L0000018, L0000019, L0000020, L0000021, L0000022, L0000023, L0000024, L0000024, L0000024, L0000024, L0000024, L0000024, L0000024, L0000018, L00000018, L0000018, 
                         L0000025, L0000026, L0000027, L0000028, L0000029, L0000030, L0000031, L0000032, L0000033, L0000034, L0000035, L0000036,
                         L0000037, L0000038, L0000039, L0000040, L0000041, L0000042, L0000043, L0000044, L0000045, L0000046, L0000047, L0000048,
                         L0000049, L0000050, L0000051, L0000052, L0000053, L0000054, L0000055,
                                            , HAULIDLE, L0000001, L0000002, L0000003, L0000004, L0000005, L0000006, L0000007, L0000008, L0000009, L0000010,
                         L0000011, L0000012, L0000013, L0000014, L0000015, L0000016, L0000017, L0000018, L0000019, L0000020, L0000021, L0000022,
                         L0000023, L0000024, L0000025, L0000026, L0000027, L0000028, L0000029, L0000030, L0000031, L0000032, L0000033, L0000034,
                         L0000035, L0000036, L0000037, L0000038, L0000039, L0000040, L0000041, L0000042, L0000043, L0000044, L0000045, L0000046
   L0000047, L0000048, L0000049, L0000050, L0000051, L0000052, L0000053, L0000054, L0000055,

*** AERMOD - VERSION 07026 *** 

*** Echo Park Lake Rehabilitation

*** HRA - PM Diesel (Ummitigated)
                                                                                                                                                                                                                                                                                              04/20/10
                                                                                                                                                                                                                                                                                              11:23:25
 **MODELOPTs:
                                                                 DFAULT ELEV
                                                               * SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *
                                                                                                                                                  HOUR SCATAR
         HOTTE SCATAR
                                                   HOUR SCALAR
                                                                                                  HOUR SCALAR
                                                                                                                                                                                                   HOTTE SCALAR
                                                                                                                                                                                                                                                         HOTTE SCATAR
```

	armn .										
OURCE ID	= SITE ;	SOURCE 2	TYPE = AREAPO .00000E+00	OLY :	.00000E+00	4	.00000E+00	5	.00000E+00	6	.00000E+00
7	.10000E+01	8	.00000E+00 .10000E+01 .10000E+01	9	.10000E+01	10	.10000E+01	11	.10000E+01	12	.10000E+01
19	.00000E+00	20	.00000E+01	21	.00000E+00	22	.00000E+01	23	.00000E+00	24	.00000E+00
OURCE ID	= HAULIDLE ;	SOURCE	TYPE = AREAP	OLY:							
7	.00000E+00	2 8	.00000E+00 .00000E+00 .00000E+01 .00000E+01	9	.00000E+00	10	.00000E+00	5 11	.00000E+00	6 12	.00000E+00
13	.10000E+01	14	.10000E+01	15	.00000E+00	16	.00000E+00	17	.00000E+00	18	.00000E+00
19	.00000E+00	20	.00000E+00	21	.00000E+00	22	.00000E+00	23	.00000E+00	24	.00000E+00
NIBCE ID	- 10000001 -	COURCE	TYPE = VOLUM								
1	.00000E+00	2	.00000E+00 .00000E+00 .00000E+01 .00000E+00	3	.00000E+00	4	.00000E+00	5	.00000E+00	6	.00000E+00
7	.00000E+00	8	.00000E+00	9	.10000E+01	10	.10000E+01	11	.10000E+01	12	.10000E+01
19	.00000E+00	20	.00000E+00	21	.00000E+00	22	.00000E+00	23	.00000E+00	24	.00000E+00
OURCE ID	= L0000002 ;	SOURCE	TYPE = VOLUM	E :							
1 7	.00000E+00	2	.00000E+00 .00000E+00	3	.00000E+00	10	.00000E+00	5 11	.00000E+00	6 12	.00000E+00
13	.10000E+01	14	.10000E+01 .00000E+00	15	.00000E+00	16	.00000E+00	17	.00000E+00	18	.00000E+00
19	.00000E+00	20	.00000E+00	21	.00000E+00	22	.00000E+00	23	.00000E+00	24	.00000E+00
URCE ID	= L0000003 ;	SOURCE	TYPE = VOLUM	E :	000005+00	4	000005+00	5	000005+00	6	000005+00
7	.00000E+00	8	.00000E+00 .00000E+00 .00000E+01	9	.10000E+01	10	.10000E+01	11	.10000E+01	12	.10000E+01
13 19	.10000E+01	14 20	.10000E+01 .00000E+00	15 21	.00000E+00	16 22	.00000E+00	17 23	.00000E+00	18 24	.00000E+00
								23	.000002100		
** AERMO	OD - VERSION	07026 **	** *** Echo *** HRA		Lake Rehabili Diesel (Unmiti						** 04/20, ** 11:23
MODELOPT						,					PAGE
ONC		DF	FAULT ELEV								
		* 5	SOURCE EMISSION	N RATE	SCALARS WHIC	H VARY	FOR EACH HOU	R OF THE	DAY *		
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
TIDGE ID	- 10000004 :	COURCE	TYPE = VOLUM								
1	.00000E+00	2	.00000E+00 .00000E+00	3	.00000E+00	4	.00000E+00	5	.00000E+00	6	.00000E+00
7	.00000E+00	8	.00000E+00 .10000E+01	9	.10000E+01	10	.10000E+01	11	.10000E+01	12	.10000E+01
			.00000E+01								
OURCE ID	= L0000005 ;	SOURCE	TYPE = VOLUM	E :							
1	.00000E+00	2	.00000E+00	3	.00000E+00	4	.00000E+00	5	.00000E+00	6	.00000E+00
13	.10000E+01	14	.10000E+00 .10000E+01 .00000E+00	15	.00000E+01	16	.00000E+01	17	.00000E+01	18	.00000E+01
19	.00000E+00	20	.00000E+00	21	.00000E+00	22	.00000E+00	23	.00000E+00	24	.00000E+00
OURCE ID	= L0000006 ;	SOURCE	TYPE = VOLUM	3 E :	000005+00	4	000005+00	5	000005+00	6	000005+00
7	.00000E+00	8	.00000E+00 .00000E+00 .00000E+01 .00000E+00	9	.10000E+01	10	.10000E+01	11	.10000E+01	12	.10000E+01
13	.10000E+01	14	.10000E+01	15	.00000E+00	16	.00000E+00	17	.00000E+00	18	.00000E+00
17	.00000100	20	.000000	21	.000000100	22	.000000100	23	.00000100	21	.00000100
UIDCE ID	- 10000007 :	COURCE	TYPE = VOLUM								
1	00000E+00	2	00000E+00	3	00000E+00	4	.00000E+00	5	.00000E+00	6	.00000E+00
7	.00000E+00	8	.00000E+00	9 15	.10000E+01	10	.10000E+01	11	.10000E+01	12	.10000E+01
19	.00000E+01	20	.00000E+00 .10000E+01 .00000E+00	21	.00000E+00	22	.00000E+00	23	.00000E+00	24	.00000E+00
			TYPE = VOLUM								
1	.00000E+00	2	.00000E+00	3	.00000E+00	10	.00000E+00	5	.00000E+00	6	.00000E+00
13	.10000E+00	14	.00000E+00 .10000E+01	15	.00000E+01	16	.00000E+01	17	.00000E+01	18	.00000E+00
19	.00000E+00	20	.00000E+00	21	.00000E+00	22	.00000E+00	23	.00000E+00	24	.00000E+00
** AERMO	OD - VERSION	07026 **		Park	Lake Rehabili	tation					** 04/20
MODELOPT	ľs:		*** HRA	- PM D	Diesel (Unmiti	gated)				*	** 11:23: PAGE
NC NC		DF	FAULT ELEV								FAGÉ
		* 0	SOURCE EMISSION	N RATE	SCALARS WHIC	YARV H	FOR EACH HOU	R OF THE	DAY *		
		- 2	EMISSIU	. AMIE	. Jummic WILC	vadi	- JA DACH ROUI	or int			
HOUR	SCALAR	HOUR	SCALAR	HOTTR	SCALAR	HOUR	SCALAR	HOIIB	SCALAR	HOITE	SCALAR
URCE_ID	= L0000009 ;	SOURCE	TYPE = VOLUM	E :				_	000000	_	
1 7	.00000E+00	2 8	.00000E+00 .00000E+00 .10000E+01 .00000E+00	3 9	.00000E+00	4 10	.00000E+00 .10000E+01	5 11	.00000E+00	6 12	.00000E+00 .10000E+01
13	.10000E+01	14	.10000E+01	15	.00000E+00	16	.00000E+00	17	.00000E+00	18	.00000E+00
19	.00000E+00	20	.00000E+00	21	.00000E+00	22	.00000E+00	23	.00000E+00	24	.00000E+00
URCE ID	= L0000010 ;	SOURCE	TYPE = VOLUM	2 E :	000005+00	4	.00000E+00	5	.00000E+00	6	.00000E+00
7	.00000E+00	8	.00000E+00 .00000E+00	9	.10000E+01	10	.10000E+01	11	.10000E+01	12	.10000E+01
13	.10000E+01	14	.10000E+01 .00000E+00	15	.00000E+00	16	.00000E+00	17	.00000E+00	18	.00000E+00
19	. JUUUULE+UU	20	.000000+00	21	.000000E+00	22	.00000E+00	23	.0000011100	24	.000000
UDGE TO	- 10000011	come	TUDE . TOTTO								
URCE ID	= LUUU0011 ;	SOURCE 2	TYPE = VOLUM .00000E+00	ь : 3	.00000E+00	4	.00000E+00	5	.00000E+00	6	.00000E+00
7	.00000E+00 .10000E+01	. 8	.00000E+00 .00000E+00 .10000E+01	9	.10000E+01	10	.10000E+01	11	.10000E+01	12	.10000E+01
13 19	.10000E+01	14 20	.10000E+01 .00000E+00	15 21	.00000E+00	16 22	.00000E+00	17 23	.00000E+00	18 24	.00000E+00
				-							

SOURCE ID	= L0000012	SOURC	E TYPE = VOLUME									
1	.00000E+00	2	.00000E+00	3	.00000E+00 .10000E+01	4	.00000E+00	5	.00000E+00	6	.00000E+00	
			.00000E+00 .10000E+01	9 15	.10000E+01	10 16	.10000E+01	11	.10000E+01	12 18	.10000E+01	
			.00000E+00								.00000E+00	
SOURCE ID	= L0000013	SOURC	E TYPE = VOLUME	: 3								
1	.00000E+00	2	.00000E+00 .00000E+00	3	.00000E+00	4	.00000E+00	5	.00000E+00 .10000E+01	1.0	.00000E+00 .10000E+01	
13	.10000E+01	14	.10000E+00 .10000E+01 .00000E+00	15	.00000E+01	16	.00000E+01	17	.00000E+01	18	.00000E+00	
19	.00000E+00	20	.00000E+00	21	.00000E+00	22	.00000E+00	23	.00000E+00	24	.00000E+00	
			** *** Echo								*** 04/2	20/10
		0.020			iesel (Unmiti					1	*** 11:2	23:25
**MODELOP		D	FAULT ELEV								PAGE	E 9
CONC												
		*	SOURCE EMISSION	I RATE	SCALARS WHIC	H VARY	FOR EACH HOUR	R OF THE	DAY *			
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	
GOUDGE TD		COURG	E TYPE = VOLUME									
SOURCE ID	.00000E+00	2	.00000E+00	3	.00000E+00	4	.00000E+00	5	.00000E+00	6	.00000E+00	
7	.00000E+00	8	.00000E+00 .00000E+00 .10000E+01	9	.10000E+01	10	.10000E+01	11	.10000E+01	12	.10000E+01	
13	.10000E+01	20	.10000E+01	21	.00000E+00	16	.00000E+00	23	.00000E+00	18 24	.00000E+00	
17	.00000100	20	. 50000100		.000002100	22	.00000100	23	.000000100	23	.00000100	
COURCE ID	- T000001E	COURG	E TYPE - VOLUM									
1	.00000E+00	2	E TYPE = VOLUME .00000E+00	3	.00000E+00	4	.00000E+00	5	.00000E+00	6	.00000E+00	
. 7	.00000E+00	8	.00000E+00	9	.10000E+01	10	.10000E+01	11	.10000E+01	12	.10000E+01	
13	.10000E+01	14	.00000E+00 .00000E+00 .00000E+01 .00000E+00	15 21	.00000E+00	16 22	.00000E+00	17	.10000E+01 .00000E+00 .00000E+00	18	.00000E+00 .00000E+00	
1.7	.000002	20	.500002700	21	.0000000	22	.000000	23	.000000+00	24	.000000	
COURCE	- 10000035		p mynn *****	, .								
1	.00000E+00	2	E TYPE = VOLUME .00000E+00	3	.00000E+00	4	.00000E+00	5	.00000E+00	6	.00000E+00	
7	.00000E+00	8	.00000E+00	9	.10000E+01	10	.10000E+01	11	.10000E+01	12	.10000E+01	
13	.10000E+01	14	.00000E+00 .10000E+01 .00000E+00	15 21	.00000E+00	16	.00000E+00 .00000E+00	17	.00000E+00	18	.00000E+00	
19	.0000UE+UU	20	.00000400	21	.00000E+00	22	.00000E+00	23	.00000E+00	24	.00000E+00	
COURCE TO	- 10000017	come	E TYPE = VOLUME									
			.00000E+00			4	.00000E+00	5	.00000E+00	6	.00000E+00	
7	.00000E+00	8	.00000E+00	9	.10000E+01	10	.10000E+01	11	.10000E+01	12	.10000E+01	
			.10000E+01									
19	.00000E+00	∠0	.00000E+00	21	.00000E+00	22	.00000E+00	23	.uuuuuE+UU	24	.00000E+00	
SOURCE ID	= LU000018 .	SOURC 2	E TYPE = VOLUME .00000E+00	3	.00000E+00	4	.00000E+00	5	.00000E+00	6	.00000E+00	
7	.00000E+00	8	.00000E+00 .00000E+00	9	.10000E+01	10	.10000E+01	11	.00000E+00 .10000E+01	12	.10000E+01	
1.0												
	.10000E+01	14	.10000E+01	15	.00000E+00	16	.00000E+00	17	.00000E+00	18	.00000E+00	
	.10000E+01	14	.10000E+01 .00000E+00	15	.00000E+00	16	.00000E+00	17	.00000E+00	18 24	.00000E+00	
19	.10000E+01 .00000E+00	14 20	.10000E+01 .00000E+00 ** *** Echo	15 21 Park	.00000E+00 .00000E+00 Lake Rehabili	16 22 tation	.00000E+00	17	.00000E+00	18 24	.00000E+00 .00000E+00	
19 *** AERM	.10000E+01 .00000E+00	14 20	.10000E+01 .00000E+00 ** *** Echo	15 21 Park	.00000E+00	16 22 tation	.00000E+00	17	.00000E+00	18 24	.00000E+00 .00000E+00 *** 04/2 *** 11:2	
19 *** AERM  **MODELOP	.10000E+01 .00000E+00 OD - VERSION	14 20 07026 *	.10000E+01 .00000E+00 ** *** Echo	15 21 Park	.00000E+00 .00000E+00 Lake Rehabili	16 22 tation	.00000E+00	17	.00000E+00	18 24	.00000E+00 .00000E+00 *** 04/2 *** 11:2	23:25
19 *** AERM  **MODELOP	.10000E+01 .00000E+00 OD - VERSION	14 20 07026 *	.10000E+01 .00000E+00 ** *** Echo *** HRA -	15 21 Park - PM D	.00000E+00 .00000E+00 Lake Rehabili piesel (Unmiti	16 22 tation gated)	.00000E+00	17 23	.00000E+00	18 24	.00000E+00 .00000E+00 *** 04/2 *** 11:2	23:25
19 *** AERM  **MODELOP	.10000E+01 .00000E+00 OD - VERSION	14 20 07026 *	.10000E+01 .00000E+00 ** *** Echo *** HRA -	15 21 Park - PM D	.00000E+00 .00000E+00 Lake Rehabili piesel (Unmiti	16 22 tation gated)	.00000E+00	17 23	.00000E+00	18 24	.00000E+00 .00000E+00 *** 04/2 *** 11:2	23:25
19 *** AERM **MODELOP CONC	.10000E+01 .00000E+00 OD - VERSION	14 20 07026 *	.10000E+01 .00000E+00 ** *** Echo *** HRA - FAULT ELEV SOURCE EMISSION	15 21 Park - PM E	.0000E+00 .0000E+00 Lake Rehabili piesel (Unmiti	16 22 tation gated)	.00000E+00 .00000E+00	17 23 R OF THE	.00000E+00	18 24	.00000E+00 .00000E+00 *** 04/2 *** 11:2	23:25
19 *** AERM **MODELOP CONC	.10000E+01 .00000E+00 OD - VERSION	14 20 07026 *	.10000E+01 .00000E+00 ** *** Echo *** HRA - FAULT ELEV SOURCE EMISSION	15 21 Park - PM E	.0000E+00 .0000E+00 Lake Rehabili piesel (Unmiti	16 22 tation gated)	.00000E+00 .00000E+00	17 23 R OF THE	.00000E+00 .00000E+00	18 24	.0000E+00 .00000E+00 *** 04/2 *** 11:2 PAGE	23:25
19 *** AERM **MODELOP CONC	.10000E+01 .00000E+00 OD - VERSION	14 20 07026 *	.10000E+01 .00000E+00 ** *** Echo *** HRA - FAULT ELEV SOURCE EMISSION	15 21 Park - PM E	.0000E+00 .0000E+00 Lake Rehabili piesel (Unmiti	16 22 tation gated)	.00000E+00 .00000E+00	17 23 R OF THE	.00000E+00 .00000E+00	18 24	.0000E+00 .00000E+00 *** 04/2 *** 11:2 PAGE	23:25
*** AERM  **MODELOP  CONC  HOUR   SOURCE ID	.10000E+01 .00000E+00 OD - VERSION Ts:  SCALAR	14 20 07026 * D * HOUR 	.10000E+01 .00000E+01 .00000E+01 .** *** Echo .** HRA - FAULT ELEV SOURCE EMISSION	15 21 Park - PM E N RATE HOUR 	.0000E+00 .00000E+00 Lake Rehabili iesel (Unmiti	16 22 tation gated)	.0000E+00 .00000E+00	17 23 R OF THE HOUR	.00000E+00 .00000E+00	18 24 HOUR	.00000E+00 .00000E+00 *** 04/2 *** 11:2 PAGE	23:25
*** AERM  **MODELOP  CONC  HOUR   SOURCE ID	.10000E+01 .00000E+00 OD - VERSION Ts:  SCALAR	14 20 07026 * D * HOUR 	.10000E+01 .00000E+01 .00000E+01 .** *** Echo .** HRA - FAULT ELEV SOURCE EMISSION	15 21 Park - PM E N RATE HOUR 	.0000E+00 .00000E+00 Lake Rehabili iesel (Unmiti	16 22 tation gated)	.0000E+00 .00000E+00	17 23 R OF THE HOUR	.00000E+00 .00000E+00	18 24 HOUR	.00000E+00 .00000E+00 *** 04/2 *** 11:2 PAGE	23:25
*** AERM  **MODELOP  CONC  HOUR   GOURCE ID  1  7	.10000E+01 .00000E+00 OD - VERSION Ts:  SCALAR = L0000019 .00000E+00 .00000E+00	14 20 07026 * D * HOUR SOURC 2 8	.10000E+01 .00000E+00 *** *** Echo *** HRA - FAULT ELEV  SOURCE EMISSION  SCALAR E TYPE = VOLUME .00000E+00 .00000E+00	Park - PM D N RATE HOUR	.00000E+00 Lake Rehabili iesel (Unmiti  SCALARS WHIC  SCALAR  .00000E+00 .10000E+01	16 22 tation gated) TH VARY HOUR 	.00000E+00 .00000E+00  FOR EACH HOUE SCALAR .00000E+00 .10000E+01	17 23 R OF THE HOUR	.00000E+00 .DAY * SCALAR .00000E+00	18 24 HOUR 6 12	.00000E+00 .00000E+00 *** 04/2 *** 11:2 PAGE SCALAR 	23:25
*** AERM  **MODELOP CONC  HOUR SOURCE ID 1 7 13	.10000E+01 .00000E+00 OD - VERSION Ts:  SCALAR 00000E+00 .00000E+00 .0000E+01 .10000E+01	14 20 07026 * D * HOUR 2 SOURC 2 8 14	.10000E+01 .00000E+01 .00000E+01 .** *** Echo .** HRA - FAULT ELEV SOURCE EMISSION	Park Park PM E N RATE	.00000E+00 .Lake Rehabili liesel (Unmiti  SCALARS WHIC  SCALAR  .00000E+00 .10000E+01	16 22 tation gated) TH VARY HOUR 	.00000E+00 .00000E+00 FOR EACH HOUF SCALAR .00000E+00 .10000E+01	17 23 R OF THE HOUR 	.00000E+00 .00000E+00  DAY *  SCALAR .00000E+00 .10000E+01 .00000E+01	HOUR 6 12 18	.00000E+00 .00000E+00 *** 04/2 *** 11:2 PAGE SCALAR .00000E+00 .10000E+01	23:25
*** AERM  **MODELOP CONC  HOUR SOURCE ID 1 7 13	.10000E+01 .00000E+00 OD - VERSION Ts:  SCALAR 00000E+00 .00000E+00 .0000E+01 .10000E+01	14 20 07026 * D * HOUR 2 SOURC 2 8 14	.10000E+01 .00000E+01 .00000E+01 ** *** Echo *** HRA - FAULT ELEV  SOURCE EMISSION  SCALAR E TYPE = VOLUMI .0000E+01 .0000E+01 .10000E+01	Park Park PM E N RATE	.00000E+00 .Lake Rehabili liesel (Unmiti  SCALARS WHIC  SCALAR  .00000E+00 .10000E+01	16 22 tation gated) TH VARY HOUR 	.00000E+00 .00000E+00 FOR EACH HOUF SCALAR .00000E+00 .10000E+01	17 23 R OF THE HOUR 	.00000E+00 .00000E+00  DAY *  SCALAR .00000E+00 .10000E+01 .00000E+01	HOUR 6 12 18	.00000E+00 .00000E+00 *** 04/2 *** 11:2 PAGE SCALAR .00000E+00 .10000E+01	23:25
*** AERM **MODELOP CONC  HOUR 1 1 1 1 19	.10000E+01 .00000E+00 OD - VERSION Ts: SCALAR 	14 20 07026 * D	.10000E+01 .00000E+01 .00000E+01 *** *** Echo *** HRA - FAULT ELEV  SOURCE EMISSION  SCALAR E TYPE = VOLUME .00000E+00 .00000E+01 .00000E+01	Park - PM E HOUR	.00000E+00 .00000E+01 Lake Rehabili liesel (Unmiti  SCALARS WHIC  SCALAR  .00000E+00 .10000E+01 .00000E+00 .00000E+00	16 22 .tation gated) TH VARY HOUR 	.00000E+00 .00000E+00 FOR EACH HOUF SCALAR .00000E+00 .10000E+01 .00000E+00	17 23 R OF THE HOUR 	.00000E+00 .00000E+00  DAY *  SCALAR .00000E+00 .10000E+01 .00000E+00 .00000E+00	HOUR 6 12 18 24	.00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00	23:25
*** AERM **MODELOP CONC  HOUR 1 1 1 13 19	.10000E+01 .00000E+00 OD - VERSION Ts: SCALAR 	14 20 07026 * D	.10000E+01 .00000E+01 .00000E+01 *** *** Echo *** HRA - FAULT ELEV  SOURCE EMISSION  SCALAR E TYPE = VOLUME .00000E+00 .00000E+01 .00000E+01	Park - PM E HOUR	.00000E+00 .00000E+01 Lake Rehabili liesel (Unmiti  SCALARS WHIC  SCALAR  .00000E+00 .10000E+01 .00000E+00 .00000E+00	16 22 .tation gated) TH VARY HOUR 	.00000E+00 .00000E+00 FOR EACH HOUF SCALAR .00000E+00 .10000E+01 .00000E+00	17 23 R OF THE HOUR 	.00000E+00 .00000E+00  DAY *  SCALAR .00000E+00 .10000E+01 .00000E+00 .00000E+00	HOUR 6 12 18 24	.00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00	23:25
*** AERM **MODELOP CONC  HOUR 1 1 1 1 19	.10000E+01 .00000E+00 OD - VERSION Ts: SCALAR 	14 20 07026 * D	.10000E+01 .00000E+01 .00000E+01 *** *** Echo *** HRA - FAULT ELEV  SOURCE EMISSION  SCALAR E TYPE = VOLUME .00000E+00 .00000E+01 .00000E+01	Park - PM E HOUR	.00000E+00 .00000E+01 Lake Rehabili liesel (Unmiti  SCALARS WHIC  SCALAR  .00000E+00 .10000E+01 .00000E+00 .00000E+00	16 22 .tation gated) TH VARY HOUR 	.00000E+00 .00000E+00 FOR EACH HOUF SCALAR .00000E+00 .10000E+01 .00000E+00	17 23 R OF THE HOUR 	.00000E+00 .00000E+00  DAY *  SCALAR .00000E+00 .10000E+01 .00000E+00 .00000E+00	HOUR 6 12 18 24	.00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00	23:25
*** AERM **MODELOP CONC  HOUR 1 1 1 1 19	.10000E+01 .00000E+00 OD - VERSION Ts: SCALAR 	14 20 07026 * D	.10000E+01 .00000E+01 .00000E+01 *** *** Echo *** HRA - FAULT ELEV  SOURCE EMISSION  SCALAR E TYPE = VOLUME .00000E+00 .00000E+01 .00000E+01	Park - PM E HOUR	.00000E+00 .00000E+01 Lake Rehabili liesel (Unmiti  SCALARS WHIC  SCALAR  .00000E+00 .10000E+01 .00000E+00 .00000E+00	16 22 .tation gated) TH VARY HOUR 	.00000E+00 .00000E+00 FOR EACH HOUF SCALAR .00000E+00 .10000E+01 .00000E+00	17 23 R OF THE HOUR 	.00000E+00 .00000E+00  DAY *  SCALAR .00000E+00 .10000E+01 .00000E+00 .00000E+00	HOUR 6 12 18 24	.00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00	23:25
*** AERM **MODELOP CONC  HOUR 1 1 1 13 19	.10000E+01 .00000E+00 OD - VERSION Ts: SCALAR 	14 20 07026 * D	.10000E+01 .00000E+00 **	Park - PM E HOUR	.00000E+00 .00000E+01 Lake Rehabili liesel (Unmiti  SCALARS WHIC  SCALAR  .00000E+00 .10000E+01 .00000E+00 .00000E+00	16 22 .tation gated) TH VARY HOUR 	.00000E+00 .00000E+00 FOR EACH HOUF SCALAR .00000E+00 .10000E+01 .00000E+00	17 23 R OF THE HOUR 	.00000E+00 .00000E+00  DAY *  SCALAR .00000E+00 .10000E+01 .00000E+00 .00000E+00	HOUR 6 12 18 24	.00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00	23:25
*** AERM **MODELOPCONC  HOUR 1 3 19  SOURCE ID 1 7 13 19  SOURCE ID 1 7 13 19	.10000E+01 .00000E+00 .00000E+00 .0000D - VERSION Ts:  SCALAR	14 20 07026 *  HOUR SOURC 2 8 14 20 SOURC 2 8 14 20 SOURC 2 8 14 20 SOURC 2	.10000E+01 .00000E+00 **	15 21  Park - PM F RATE  HOUR 15 21  E : 3 9 15 21  E : 3 9 15 21	.00000E+00 Lake Rehabili iesel (Unmiti SCALARS WHIC SCALAR .00000E+00 .10000E+01 .00000E+00 .00000E+00 .10000E+01 .00000E+00 .00000E+00 .00000E+00 .00000E+00	16 22 tation gated)  H VARY HOUR 4 10 16 22	.0000E+00 .0000E+00 FOR EACH HOUE SCALAR .0000E+00 .10000E+01 .0000E+00 .0000E+00 .10000E+01 .0000E+00	17 23 R OF THE HOUR 	.00000E+00 .00000E+00  DAY * SCALAR .00000E+00 .10000E+01 .00000E+00 .10000E+01 .00000E+00 .10000E+00	HOUR 6 12 18 24 6 12 18 24	.00000E+00 .00000E+00 .00000E+00 .11:2 PAGE  SCALAR .00000E+00 .10000E+01 .00000E+00 .00000E+00 .10000E+00 .10000E+00 .10000E+00 .00000E+00 .00000E+00	23:25
*** AERM **MODELOPCONC  HOUR 1 3 19  SOURCE ID 7 13 19  SOURCE ID 1 7 13 19	.10000E+01 .00000E+00 .00000E+00 .0000D - VERSION Ts:  SCALAR	14 20 07026 *  HOUR SOURC 2 8 14 20 SOURC 2 8 14 20 SOURC 2 8 14 20 SOURC 2	.10000E+01 .00000E+00 **	15 21  Park - PM F RATE  HOUR 15 21  E : 3 9 15 21  E : 3 9 15 21	.00000E+00 Lake Rehabili iesel (Unmiti SCALARS WHIC SCALAR .00000E+00 .10000E+01 .00000E+00 .00000E+00 .10000E+01 .00000E+00 .00000E+00 .00000E+00 .00000E+00	16 22 tation gated)  H VARY HOUR 4 10 16 22	.0000E+00 .0000E+00 FOR EACH HOUE SCALAR .0000E+00 .10000E+01 .0000E+00 .0000E+00 .10000E+01 .0000E+00	17 23 R OF THE HOUR 	.00000E+00 .00000E+00  DAY * SCALAR .00000E+00 .10000E+01 .00000E+00 .10000E+01 .00000E+00 .10000E+00	HOUR 6 12 18 24 6 12 18 24	.00000E+00 .00000E+00 .00000E+00 .11:2 PAGE  SCALAR .00000E+00 .10000E+01 .00000E+00 .00000E+00 .10000E+00 .10000E+00 .10000E+00 .00000E+00 .00000E+00	23:25
*** AERM **MODELOPCONC  HOUR 1 3 19  SOURCE ID 7 13 19  SOURCE ID 1 7 13 19	.10000E+01 .00000E+00 .00000E+00 .0000D - VERSION Ts:  SCALAR	14 20 07026 *  HOUR SOURC 2 8 14 20 SOURC 2 8 14 20 SOURC 2 8 14 20 SOURC 2	.10000E+01 .00000E+00 **	15 21  Park - PM F RATE  HOUR 15 21  E : 3 9 15 21  E : 3 9 15 21	.00000E+00 Lake Rehabili iesel (Unmiti SCALARS WHIC SCALAR .00000E+00 .10000E+01 .00000E+00 .00000E+00 .10000E+01 .00000E+00 .00000E+00 .00000E+00 .00000E+00	16 22 tation gated)  H VARY HOUR 4 10 16 22	.0000E+00 .0000E+00 FOR EACH HOUE SCALAR .0000E+00 .10000E+01 .0000E+00 .0000E+00 .10000E+01 .0000E+00	17 23 R OF THE HOUR 	.00000E+00 .00000E+00  DAY * SCALAR .00000E+00 .10000E+01 .00000E+00 .10000E+01 .00000E+00 .10000E+00	HOUR 6 12 18 24 6 12 18 24	.00000E+00 .00000E+00 .00000E+00 .11:2 PAGE  SCALAR .00000E+00 .10000E+01 .00000E+00 .00000E+00 .10000E+00 .10000E+00 .10000E+00 .00000E+00 .00000E+00	23:25
*** AERM **MODELOP CONC  HOUR 1 3 19  SOURCE ID 1 7 13 19  SOURCE ID 1 7 13 19	.10000E+01 .00000E+00 .00000E+00 .0000D - VERSION Ts:  SCALAR	14 20 07026 *  HOUR SOURC 2 8 14 20 SOURC 2 8 14 20 SOURC 2 8 14 20 SOURC 2	.10000E+01 .00000E+00 **	15 21  Park - PM F RATE  HOUR 15 21  E : 3 9 15 21  E : 3 9 15 21	.00000E+00 Lake Rehabili iesel (Unmiti SCALARS WHIC SCALAR .00000E+00 .10000E+01 .00000E+00 .00000E+00 .10000E+01 .00000E+00 .00000E+00 .00000E+00	16 22 tation gated)  H VARY HOUR 4 10 16 22	.0000E+00 .0000E+00 FOR EACH HOUE SCALAR .0000E+00 .10000E+01 .0000E+00 .0000E+00 .10000E+01 .0000E+00	17 23 R OF THE HOUR 	.00000E+00 .00000E+00  DAY * SCALAR .00000E+00 .10000E+01 .00000E+00 .10000E+01 .00000E+00 .10000E+00	HOUR 6 12 18 24 6 12 18 24	.00000E+00 .00000E+00 .00000E+00 .11:2 PAGE  SCALAR .00000E+00 .10000E+01 .00000E+00 .00000E+00 .10000E+00 .10000E+00 .10000E+00 .00000E+00 .00000E+00	23:25
*** AERM **MODELOPCONC  HOUR 1 3 19  SOURCE ID 7 13 19  SOURCE ID 1 7 13 19	.10000E+01 .00000E+00 .00000E+00 .0000D - VERSION Ts:  SCALAR	14 20 07026 *  HOUR SOURC 2 8 14 20 SOURC 2 8 14 20 SOURC 2 8 14 20 SOURC 2	.10000E+01 .00000E+01 .00000E+00 *** *** Echo *** HRA - FAULT ELEV  SOURCE EMISSION  SCALAR E TYPE = VOLUME .00000E+00 .10000E+00 .10000E+00 .00000E+00 .00000E+00 .10000E+00 .10000E+00 .10000E+00 .10000E+00 .10000E+00 .10000E+00	15 21  Park - PM F RATE  HOUR 15 21  E : 3 9 15 21  E : 3 9 15 21	.00000E+00 Lake Rehabili iesel (Unmiti SCALARS WHIC SCALAR .00000E+00 .10000E+01 .00000E+00 .00000E+00 .10000E+01 .00000E+00 .00000E+00 .00000E+00	16 22 tation gated)  H VARY HOUR 4 10 16 22	.0000E+00 .0000E+00 FOR EACH HOUE SCALAR .0000E+00 .10000E+01 .0000E+00 .0000E+00 .10000E+01 .0000E+00	17 23 R OF THE HOUR 	.00000E+00 .00000E+00  DAY * SCALAR .00000E+00 .10000E+01 .00000E+00 .10000E+01 .00000E+00 .10000E+00	HOUR 6 12 18 24 6 12 18 24	.00000E+00 .00000E+00 .00000E+00 .11:2 PAGE  SCALAR .00000E+00 .10000E+01 .00000E+00 .00000E+00 .10000E+00 .10000E+00 .10000E+00 .00000E+00 .00000E+00	23:25
*** AERM **MODELOP* CONC  HOUR 13 19  SOURCE ID 1 7 13 19  SOURCE ID 1 7 13 19	.10000E+01 .00000E+00 OD - VERSION TS:  SCALAR 0.0000E+00 .00000E+00	14 20 07026 * D * HOUR	.10000E+01 .00000E+01 .00000E+00 **	15 21 Park - PM F N RATE HOUR 3 3 9 15 21 E : 3 9 15 21	.00000E+00 .Lake Rehabili iesel (Unmiti SCALARS WHIC SCALAR .00000E+00 .10000E+01 .00000E+00 .10000E+01 .00000E+00 .10000E+00 .10000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00	16 22 ttation gated) H VARY HOUR	.0000E+00 .0000E+00 .00000E+00 .0000E+00 .10000E+01 .00000E+00 .10000E+01 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00	17 23 R OF THE HOUR 	.00000E+00 .00000E+00 .00000E+00 .00000E+00 .10000E+00 .00000E+00	HOUR 6 12 18 24 6 12 18 24 6 12 18 24	.00000E+00 .00000E+00 .00000E+00 .11:2 PAGE  SCALAR  .00000E+00 .10000E+01 .00000E+01 .00000E+00 .10000E+00 .10000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00	23:25
*** AERM **MODELOP* CONC  HOUR 13 19  SOURCE ID 1 7 13 19  SOURCE ID 1 7 13 19	.10000E+01 .00000E+00 OD - VERSION TS:  SCALAR 0.0000E+00 .00000E+00	14 20 07026 * D * HOUR	.10000E+01 .00000E+01 .00000E+00 **	15 21 Park - PM F N RATE HOUR 3 3 9 15 21 E : 3 9 15 21	.00000E+00 .Lake Rehabili iesel (Unmiti SCALARS WHIC SCALAR .00000E+00 .10000E+01 .00000E+00 .10000E+01 .00000E+00 .10000E+00 .10000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00	16 22 ttation gated) H VARY HOUR	.0000E+00 .0000E+00 .00000E+00 .0000E+00 .10000E+01 .00000E+00 .10000E+01 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00	17 23 R OF THE HOUR 	.00000E+00 .00000E+00 .00000E+00 .00000E+00 .10000E+00 .00000E+00	HOUR 6 12 18 24 6 12 18 24 6 12 18 24	.00000E+00 .00000E+00 .00000E+00 .11:2 PAGE  SCALAR  .00000E+00 .10000E+01 .00000E+01 .00000E+00 .10000E+00 .10000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00	23:25
*** AERM **MODELOPCONC  HOUR 13 19  SOURCE ID 1 7 13 19  SOURCE ID 1 7 13 19	.10000E+01 .00000E+00 OD - VERSION TS:  SCALAR 0.0000E+00 .00000E+00	14 20 07026 * D * HOUR	.10000E+01 .00000E+01 .00000E+00 **	15 21 Park - PM F N RATE HOUR 3 3 9 15 21 E : 3 9 15 21	.00000E+00 .Lake Rehabili iesel (Unmiti SCALARS WHIC SCALAR .00000E+00 .10000E+01 .00000E+00 .10000E+01 .00000E+00 .10000E+00 .10000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00	16 22 ttation gated) H VARY HOUR	.0000E+00 .0000E+00 .00000E+00 .0000E+00 .10000E+01 .00000E+00 .10000E+01 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00	17 23 R OF THE HOUR 	.00000E+00 .00000E+00 .00000E+00 .00000E+00 .10000E+00 .00000E+00	HOUR 6 12 18 24 6 12 18 24 6 12 18 24	.00000E+00 .00000E+00 .00000E+00 .11:2 PAGE  SCALAR  .00000E+00 .10000E+01 .00000E+01 .00000E+00 .10000E+00 .10000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00	23:25
*** AERM **MODELOPCONC  HOUR 13 19  SOURCE ID 1 7 13 19  SOURCE ID 1 7 13 19	.10000E+01 .00000E+00 OD - VERSION TS:  SCALAR 0.0000E+00 .00000E+00	14 20 07026 * D * HOUR	.10000E+01 .00000E+01 .00000E+00 **	15 21 Park - PM F N RATE HOUR 3 3 9 15 21 E : 3 9 15 21	.00000E+00 .Lake Rehabili iesel (Unmiti SCALARS WHIC SCALAR .00000E+00 .10000E+01 .00000E+00 .10000E+01 .00000E+00 .10000E+00 .10000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00	16 22 ttation gated) H VARY HOUR	.0000E+00 .0000E+00 .00000E+00 .0000E+00 .10000E+01 .00000E+00 .10000E+01 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00	17 23 R OF THE HOUR 	.00000E+00 .00000E+00 .00000E+00 .00000E+00 .10000E+00 .00000E+00	HOUR 6 12 18 24 6 12 18 24 6 12 18 24	.00000E+00 .00000E+00 .00000E+00 .11:2 PAGE  SCALAR .00000E+00 .10000E+01 .00000E+01 .00000E+00 .10000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00	23:25
19  *** AERM  **MODELOP CONC  HOUR 7 13 19  SOURCE ID 1 7 13 19  SOURCE ID 1 7 13 19	.10000E+01 .00000E+00 OD - VERSION TS:  SCALAR 0.0000E+00 .00000E+00	14 20 07026 * D * HOUR	.10000E+01 .00000E+01 .00000E+00 *** *** ECho *** HRA - FAULT ELEV  SOURCE EMISSION  SCALAR E TYPE = VOLUME .00000E+00 .10000E+00 .10000E+00 .10000E+01 .00000E+01 .00000E+01 .00000E+01 .00000E+01 .0000E+01 .0000E+01 .0000E+01 .0000E+01 .0000E+01 .0000E+01 .0000E+01 .0000E+01 .0000E+01 .00000E+01 .00000E+01 .00000E+01	15 21 Park - PM F N RATE HOUR 3 3 9 15 21 E : 3 9 15 21	.00000E+00 .Lake Rehabili iesel (Unmiti SCALARS WHIC SCALAR .00000E+00 .10000E+01 .00000E+00 .10000E+01 .00000E+00 .10000E+00 .10000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00	16 22 ttation gated) H VARY HOUR	.0000E+00 .0000E+00 .00000E+00 .0000E+00 .10000E+01 .00000E+00 .10000E+01 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00	17 23 R OF THE HOUR 	.00000E+00 .00000E+00 .00000E+00 .00000E+00 .10000E+00 .00000E+00	HOUR 6 12 18 24 6 12 18 24 6 12 18 24	.00000E+00 .00000E+00 .00000E+00 .11:2 PAGE  SCALAR .00000E+00 .10000E+01 .00000E+01 .00000E+00 .10000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00	23:25
19 *** AERM **MODELOPCONC  HOUR 50URCE ID 1 7 13 19  SOURCE ID 1 7 13 19  SOURCE ID 1 7 13 19	.10000E+01 .00000E+00 OD - VERSION TTS:  SCALAR	14 20 07026 * D * HOUR	.10000E+01 .00000E+01 .00000E+00 *** *** ECho *** HRA - FAULT ELEV  SOURCE EMISSION  SCALAR E TYPE = VOLUME .00000E+00 .10000E+00	15 21 Park F PM E F PM	.00000E+00 .Lake Rehabili iesel (Urmiti SCALARS WHIC SCALAR .00000E+00 .10000E+01 .00000E+00 .10000E+01 .00000E+00 .10000E+01 .00000E+00	166 22 tation gated) H VARY HOUR	.0000E+00 .0000E+00 .00000E+00 .0000E+00 .0000E+00 .10000E+01 .00000E+00 .10000E+01 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .0000E+00 .0000E+00 .0000E+00 .0000E+00 .0000E+00 .0000E+00 .0000E+00	17 23 R OF THE HOUR 5 11 17 23 5 11 17 23	.00000E+00 .00000E+00 .00000E+00 .00000E+00 .10000E+01 .00000E+00 .10000E+01 .00000E+00 .00000E+00 .0000E+00	HOUR 6 12 18 24 6 12 18 24 6 12 18 24 6 12 18 24	.00000E+00 .00000E+00 .00000E+00 .11:2 PAGE  SCALAR00000E+00 .10000E+01 .00000E+01 .00000E+00 .00000E+00	23:25
19 *** AERM **MODELOPCONC  HOUR 7 13 19  SOURCE ID 1 7 13 19  SOURCE ID 1 7 13 19  SOURCE ID 1 7 13 19	.10000E+01 .00000E+00 OD - VERSION TTS:  SCALAR	14 20 07026 * D * HOUR	.10000E+01 .00000E+01 .00000E+00 *** *** ECho *** HRA - FAULT ELEV  SOURCE EMISSION  SCALAR E TYPE = VOLUME .00000E+00 .10000E+00	15 21 Park F PM E F PM	.00000E+00 .Lake Rehabili iesel (Urmiti SCALARS WHIC SCALAR .00000E+00 .10000E+01 .00000E+00 .10000E+01 .00000E+00 .10000E+01 .00000E+00	166 22 tation gated) H VARY HOUR	.0000E+00 .0000E+00 .00000E+00 .0000E+00 .0000E+00 .10000E+01 .00000E+00 .10000E+01 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .0000E+00 .0000E+00 .0000E+00 .0000E+00 .0000E+00 .0000E+00 .0000E+00	17 23 R OF THE HOUR 5 11 17 23 5 11 17 23	.00000E+00 .00000E+00 .00000E+00 .00000E+00 .10000E+01 .00000E+00 .10000E+01 .00000E+00 .00000E+00 .0000E+00	HOUR 6 12 18 24 6 12 18 24 6 12 18 24 6 12 18 24	.00000E+00 .00000E+00 .00000E+00 .11:2 PAGE  SCALAR00000E+00 .10000E+01 .00000E+01 .00000E+00 .00000E+00	23:25
*** AERM  **MODELOP'CONC  HOUR 13 19  SOURCE ID 1 7 13 19	.10000E+01 .00000E+00 OD - VERSION TS:  SCALAR 0 = L0000019 .00000E+00	HOUR	.10000E+01 .00000E+01 .00000E+00 ***	15 21 Park F PM F P	.00000E+00	16 22 tation gated) H VARY HOUR	.0000E+00 .0000E+00 .00000E+00 .0000E+00 .10000E+01 .00000E+00 .10000E+01 .00000E+00 .10000E+01 .00000E+00 .10000E+01 .0000E+00	17 23 R OF THE HOUR 	.0000E+00 .00000E+00	HOUR 6 12 18 24 6 12 18 24 6 12 18 24 6 12 18 24 6 12 18 24 6 12 18 24	.00000E+00 .00000E+00 .00000E+00 .11:2 PAGE  SCALAR  .00000E+00 .10000E+01 .00000E+01 .00000E+00 .10000E+00 .10000E+00 .00000E+00	23:25
*** AERM  **MODELOP CONC  HOUR 1 7 13 19  SOURCE ID 1 7 13 19	.10000E+01 .00000E+00 OD - VERSION TTs:  SCALAR = L0000019 .00000E+00 .10000E+01 .00000E+01 .00000E+01 .00000E+01 .10000E+01	14 20 07026 * D * * HOUR	.10000E+01 .00000E+01 .00000E+00 *** *** ECho *** HRA - FAULT ELEV  SOURCE EMISSION  SCALAR E TYPE = VOLUME .00000E+00 .10000E+00	15 21 Park PM E PM	.00000E+00 .Lake Rehabili iesel (Unmiti SCALARS WHICE SCALARS00000E+00 .10000E+01 .00000E+00 .10000E+01 .00000E+00 .10000E+01 .00000E+00 .10000E+01 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00	166 22 tation gated) H VARY HOUR	.0000E+00 .0000E+00 .00000E+00 .0000E+00 .10000E+01 .00000E+00 .10000E+01 .0000E+01	17 23 R OF THE HOUR 5 11 17 23 5 11 17 23 5 11 17 23	.0000E+00 .0000E+00 .00000E+00 .00000E+00 .0000E+00 .10000E+00 .0000E+00	HOUR 6 12 18 24 6 12 18 24 6 12 18 24 6 12 18 24 6 12 18 24 18 18 18 18 18 18 18 18 18 18 18 18 18	.00000E+00 .00000E+00 .00000E+00 .11:2 PAGE  SCALAR00000E+00 .10000E+01 .00000E+00 .10000E+01 .00000E+00	23:25
*** AERM **MODELOP CONC  HOUR 17 13 19  SOURCE ID 17 7 13 19	.10000E+01 .00000E+00 OD - VERSION TTS:  SCALAR	14 14 14 14 14 14 14 14 14 14 14 14 14 1	.10000E+01 .00000E+01 .00000E+00 *** *** ECho *** HRA - FAULT ELEV  SOURCE EMISSION  SCALAR E TYPE = VOLUME .00000E+00 .10000E+00 .10000E+00 .00000E+00 .10000E+00 .10000E+00 .10000E+00 .10000E+00 .0000E+00	15 21 Park F PM F F PM F F PM F PM F PM F PM F PM	.00000E+00 .Lake Rehabili iesel (Urmiti SCALARS WHICE SCALARS WHICE SCALARS (10000E+01) .00000E+00 .10000E+01 .00000E+00 .10000E+01 .00000E+00 .10000E+01 .00000E+00	166 22 tation gated) H VARY HOUR	.0000E+00 .0000E+00 .00000E+00 .0000E+00 .10000E+01 .00000E+00 .10000E+01 .00000E+00 .10000E+01 .00000E+00 .10000E+01 .00000E+00 .00000E+00 .10000E+00 .10000E+00 .00000E+00	17 23 R OF THE HOUR 5 11 17 23 5 11 17 23 5 11 17 23	.0000E+00 .0000E+00 .00000E+00 .00000E+00 .0000E+00 .10000E+00 .0000E+00	HOUR 6 12 18 24 6 12 18 24 6 12 18 24 6 12 18 24 6 12 18 24 6 12 18 24	.00000E+00 .00000E+00 .00000E+00 .11:2 PAGE  SCALAR00000E+00 .10000E+01 .00000E+01 .00000E+01 .00000E+00 .10000E+01 .00000E+00 .10000E+00 .00000E+00	33:25
*** AERM  **MODELOP CONC  HOUR 1 1 7 13 19  SOURCE ID 1 7 13 19	.10000E+01 .00000E+00 OD - VERSION TTS:  SCALAR	14 14 14 14 14 14 14 14 14 14 14 14 14 1	.10000E+01 .00000E+01 .00000E+00 ***	15 21 Park HOUR	.00000E+00	16 22 tation gated) H VARY HOUR 4 10 16 22 4 10 16 22 4 4 10 16 16 22 4 4 10 16 16 22 4 4 10 16 16 22 4 4 10 16 16 22 4 4 10 16 16 22 4 4 10 16 16 22 4 4 10 16 16 22 4 4 10 16 16 22 4 4 10 16 16 22 4 4 10 16 16 22 4 4 10 16 16 22 4 4 10 16 16 22 4 4 10 16 16 22 4 4 10 16 16 22 4 4 10 16 16 22 4 4 10 16 16 22 4 4 10 16 16 22 4 4 10 16 16 16 16 16 16 16 16 16 16 16 16 16	.0000E+00 .0000E+00 .00000E+00 .0000E+00 .10000E+01 .00000E+00 .10000E+01 .00000E+00 .10000E+01 .00000E+00 .10000E+01 .00000E+00 .00000E+00 .10000E+00 .10000E+00 .00000E+00	17 23 R OF THE HOUR 5 11 17 23 5 11 17 23 5 11 17 23	.0000E+00 .0000E+00 .00000E+00 .00000E+00 .0000E+00 .10000E+00 .0000E+00	HOUR 6 12 18 24 6 12 18 24 6 12 18 24 6 12 18 24 6 12 18 24	.00000E+00 .00000E+00 .00000E+00 .111: PAGE  SCALAR  .00000E+00 .10000E+01 .00000E+00 .10000E+00 .10000E+00 .10000E+00 .10000E+00 .00000E+00	23:25 E 10
*** AERM **MODELOP'CONC  HOUR SOURCE ID 1 7 13 19  *** AERM **MODELOP'	.10000E+01 .00000E+00 OD - VERSION Ts:  SCALAR 0 - 00000E+00 .00000E+00 .10000E+01 .00000E+00 .10000E+01 .00000E+00 .10000E+01 .00000E+00 .0000E+00 .00000E+00 .0000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .0000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .0000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .0000E+00 .0000E+0	14 14 14 14 14 14 14 14 14 14 14 14 14 1	.10000E+01 .00000E+01 .00000E+00 *** *** Echo *** HRA - FAULT ELEV  SOURCE EMISSION  SCALAR E TYPE = VOLUME .00000E+00 .10000E+00 .10000E+01 .00000E+00 .10000E+01 .00000E+01 .0000E+01 .00000E+01 .0000E+01 .00000E+01 .0000E+01 .00000E+01 .00000E+01 .00000E+01 .00000E+01 .00000E+01 .00000E+01 .00000E+01 .00000E+01 .0000E+01 .000	15 21 Park HOUR	.00000E+00 .Lake Rehabili iesel (Urmiti SCALARS WHICE SCALARS WHICE SCALARS (10000E+01) .00000E+00 .10000E+01 .00000E+00 .10000E+01 .00000E+00 .10000E+01 .00000E+00	16 22 tation gated) H VARY HOUR 4 10 16 22 4 10 16 22 4 4 10 16 16 22 4 4 10 16 16 22 4 4 10 16 16 22 4 4 10 16 16 22 4 4 10 16 16 22 4 4 10 16 16 22 4 4 10 16 16 22 4 4 10 16 16 22 4 4 10 16 16 22 4 4 10 16 16 22 4 4 10 16 16 22 4 4 10 16 16 22 4 4 10 16 16 22 4 4 10 16 16 22 4 4 10 16 16 22 4 4 10 16 16 22 4 4 10 16 16 22 4 4 10 16 16 16 16 16 16 16 16 16 16 16 16 16	.0000E+00 .0000E+00 .00000E+00 .0000E+00 .10000E+01 .00000E+00 .10000E+01 .00000E+00 .10000E+01 .00000E+00 .10000E+01 .00000E+00 .00000E+00 .10000E+00 .10000E+00 .00000E+00	17 23 R OF THE HOUR 5 11 17 23 5 11 17 23 5 11 17 23	.0000E+00 .0000E+00 .00000E+00 .00000E+00 .0000E+00 .10000E+00 .0000E+00	HOUR 6 12 18 24 6 12 18 24 6 12 18 24 6 12 18 24 6 12 18 24	.00000E+00 .00000E+00 ***	33:25
19 *** AERM **MODELOPCONC  HOUR 17 13 19  SOURCE ID 17 13 19	.10000E+01 .00000E+00 OD - VERSION Ts:  SCALAR 0 - 00000E+00 .00000E+00 .10000E+01 .00000E+00 .10000E+01 .00000E+00 .10000E+01 .00000E+00 .0000E+00 .00000E+00 .0000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .0000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .0000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .00000E+00 .0000E+00 .0000E+0	14 14 14 14 14 14 14 14 14 14 14 14 14 1	.10000E+01 .00000E+01 .00000E+00 ***	15 21 Park HOUR	.00000E+00	16 22 tation gated) H VARY HOUR 4 10 16 22 4 10 16 22 4 4 10 16 16 22 4 4 10 16 16 22 4 4 10 16 16 22 4 4 10 16 16 22 4 4 10 16 16 22 4 4 10 16 16 22 4 4 10 16 16 22 4 4 10 16 16 22 4 4 10 16 16 22 4 4 10 16 16 22 4 4 10 16 16 22 4 4 10 16 16 22 4 4 10 16 16 22 4 4 10 16 16 22 4 4 10 16 16 22 4 4 10 16 16 22 4 4 10 16 16 22 4 4 10 16 16 16 16 16 16 16 16 16 16 16 16 16	.0000E+00 .0000E+00 .00000E+00 .0000E+00 .10000E+01 .00000E+00 .10000E+01 .00000E+00 .10000E+01 .00000E+00 .10000E+01 .00000E+00 .00000E+00 .10000E+00 .10000E+00 .00000E+00	17 23 R OF THE HOUR 5 11 17 23 5 11 17 23 5 11 17 23	.0000E+00 .0000E+00 .00000E+00 .00000E+00 .0000E+00 .10000E+00 .0000E+00	HOUR 6 12 18 24 6 12 18 24 6 12 18 24 6 12 18 24 6 12 18 24	.00000E+00 .00000E+00 ***	20/10 220/10

 $<sup>\</sup>star$  source emission rate scalars which vary for each hour of the day  $\star$ 

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1 . 7 . 13 .	.00000E+00 .00000E+00 .10000E+01	2 8 14	E TYPE = VOLUMM .00000E+00 .00000E+00 .10000E+01 .00000E+00	3 9 15	.00000E+00	16	.00000E+00	17	.00000E+00 .10000E+01 .00000E+00	18	.00000E+00 .10000E+01 .00000E+00 .00000E+00
1 . 7 . 13 .	.00000E+00 .00000E+00 .10000E+01	2 8 14	E TYPE = VOLUME .00000E+00 .00000E+00 .10000E+01 .00000E+00	3 9 15		10 16	.10000E+01 .00000E+00	11 17	.00000E+00	12 18	
1 .	.00000E+00	2	E TYPE = VOLUMN .00000E+00 .00000E+00 .10000E+01 .00000E+00	3	.00000E+00 .10000E+01 .00000E+00	4 10 16 22	.00000E+00 .10000E+01 .00000E+00	5 11 17 23	.00000E+00 .10000E+01 .00000E+00	6 12 18 24	.00000E+00 .10000E+01 .00000E+00 .00000E+00
1 .		2	E TYPE = VOLUMI .00000E+00 .00000E+00 .10000E+01 .00000E+00	3	.00000E+00 .10000E+01 .00000E+00	4 10 16 22	.00000E+00 .10000E+01 .00000E+00	11 17	.00000E+00 .10000E+01 .00000E+00	6 12 18 24	.00000E+00 .10000E+01 .00000E+00 .00000E+00
1 . 7 . 13 . 19 .	.00000E+00 .00000E+00 .10000E+01 .00000E+00	2 8 14 20	E TYPE = VOLUMN .00000E+00 .00000E+00 .10000E+01 .00000E+00	3 9 15 21	.10000E+01	10 16 22	.10000E+01	11	.00000E+00 .10000E+01 .00000E+00	12 18 24	.00000E+00 .10000E+01 .00000E+00 .00000E+00
**MODELOPTS			*** HRA -		Lake kenabili iesel (Unmiti						** 04/20/10 ** 11:23:25 PAGE 12
CONC			FAULT ELEV SOURCE EMISSION	N RATE	SCALARS WHIC	H VARY	FOR EACH HOU	R OF THE	DAY *		
			SCALAR						SCALAR		
1 .	.00000E+00	2	E TYPE = VOLUMI .00000E+00 .00000E+00 .10000E+01 .00000E+00	3	. I O O O O E + O I	10	. 10000E+01	11	.00000E+00 .10000E+01 .00000E+00 .00000E+00	12	.10000E+01
1 . 7 . 13 .	.00000E+00 .00000E+00 .10000E+01	2 8 14	E TYPE = VOLUMI .00000E+00 .00000E+00 .10000E+01 .00000E+00	3 9 15	.00000E+00	16	.00000E+00	11 17	.00000E+00 .10000E+01 .00000E+00	12 18	.00000E+00 .10000E+01 .0000E+00 .00000E+00
1 . 7 . 13 .	.00000E+00 .00000E+00 .10000E+01	2 8 14	E TYPE = VOLUMI .00000E+00 .00000E+01 .00000E+01	3 9 15	.00000E+00	16		11 17		12 18	
1 . 7 . 13 .		2 8 14	E TYPE = VOLUMI .00000E+00 .00000E+00 .10000E+01 .00000E+00	3 9 15	.00000E+01	4 10 16 22	.00000E+00 .10000E+01 .00000E+00	5 11 17 23	.00000E+00 .10000E+01 .00000E+00	6 12 18 24	.00000E+00 .10000E+01 .00000E+00 .00000E+00
SOURCE ID = 1	= L0000033; .00000E+00 .00000E+00 .10000E+01	SOURCE 2 8 14 20	E TYPE = VOLUMI .00000E+00 .00000E+00 .10000E+01 .00000E+00	3 9 15 21	.00000E+00 .10000E+01 .00000E+00	4 10 16 22	.00000E+00 .10000E+01 .00000E+00	5 11 17 23	.00000E+00 .10000E+01 .00000E+00	6 12 18 24	.00000E+00 .10000E+01 .00000E+00
*** AERMOD	D - VERSION	07026 **			Lake Rehabili iesel (Unmiti					*	** 04/20/10 ** 11:23:25 PAGE 13
CONC			FAULT ELEV								11102 13
		* 5	SOURCE EMISSION	I RATE	SCALARS WHIC	H VARY	FOR EACH HOU	R OF THE	DAY *		
			SCALAR								SCALAR
SOURCE ID = 1	= L0000034 ; .00000E+00 .00000E+00 .10000E+01	SOURCE 2 8 14 20	E TYPE = VOLUM! .00000E+00 .00000E+00 .10000E+01 .00000E+00	3 9 15 21	.00000E+00 .10000E+01 .00000E+00	4 10 16 22	.00000E+00 .10000E+01 .00000E+00	5 11 17 23	.00000E+00 .10000E+01 .00000E+00	6 12 18 24	.00000E+00 .10000E+01 .0000E+00 .00000E+00
1 . 7 . 13 .	.00000E+00 .00000E+00 .10000E+01	2 8 14	E TYPE = VOLUME .00000E+00 .00000E+01 .10000E+01	3 9 15	.10000E+01 .00000E+00	10 16	.10000E+01	11 17	.00000E+00	12 18	.00000E+00 .10000E+01 .00000E+00 .00000E+00
1 .	= L0000036; .00000E+00	2	E TYPE = VOLUMI .00000E+00 .00000E+00	3	.00000E+00	4 10	.00000E+00 .10000E+01	5 11	.00000E+00 .10000E+01	6 12	.00000E+00 .10000E+01

13 .10000 19 .00000	)E+01 )E+00	14 20	.10000E+01	15 21	.00000E+00	16 22	.00000E+00	17 23	.00000E+00	18 24	.00000E+00	
13 .10000	)E+00 )E+00 )E+01	2 8 14	.00000E+00 .00000E+00 .10000E+01	3 9 15	.00000E+00 .10000E+01 .00000E+00	16	.00000E+00	17	.00000E+00	18	.00000E+00 .10000E+01 .00000E+00	
COURCE ID - 1000	10020 .	COURCE	TYPE - VOLUME									
								17 23	.00000E+00			
*** AERMOD - VE **MODELOPTs:	ERSION 07				Lake Rehabilit Diesel (Unmitic						*** 11:2	20/10 23:25 E 14
CONC				RATE	SCALARS WHICE	I VARY	FOR EACH HOUF	R OF THE	DAY *			
HOUR SCAL	LAR :	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	
SOURCE ID = L000	00039 ;	SOURCE	TYPE = VOLUME	: :								
1 .00000 7 .00000	)E+00 )E+00	2 8	.00000E+00	3 9	.00000E+00 .10000E+01	4 10	.00000E+00 .10000E+01	5 11	.00000E+00 .10000E+01	6 12	.00000E+00 .10000E+01	
13 .10000 19 .00000	)E+01 )E+00	14 20	.10000E+01 .00000E+00	15 21	.10000E+01 .00000E+00 .00000E+00	16 22	.00000E+00 .00000E+00	17 23	.00000E+00 .00000E+00	18 24	.00000E+00 .00000E+00	
SOURCE ID = L000	00040 ;	SOURCE	TYPE = VOLUME									
1 .00000 7 .00000	)E+00 )E+00	2 8	.00000E+00	3 9	.00000E+00 .10000E+01	10	.00000E+00 .10000E+01	5 11	.00000E+00 .10000E+01	6 12	.00000E+00 .10000E+01	
1 .00000 7 .00000 13 .10000 19 .00000	)E+01 )E+00	14 20	.10000E+01 .00000E+00	15 21	.00000E+00	16 22	.00000E+00	17 23	.00000E+00	18 24	.00000E+00 .00000E+00	
SOURCE ID = L000	00041 ;	SOURCE	TYPE = VOLUME	: :								
1 .00000	E+00	2	.00000E+00	3	.00000E+00	10	.00000E+00	5 11	.00000E+00	6 12	.00000E+00	
13 .10000 19 .00000	)E+01 )E+00	14	.10000E+01 .00000E+00	15 21	.00000E+00 .10000E+01 .00000E+00 .00000E+00	16 22	.00000E+00	17 23	.00000E+00	18 24	.00000E+00	
SOURCE ID = L000 1 .00000	00042 ; 0E+00	SOURCE 2	TYPE = VOLUME .00000E+00	3	.00000E+00	4	.00000E+00	5	.00000E+00	6	.00000E+00	
7 .00000	)E+00	8	.00000E+00	9	.10000E+01 .00000E+00	10	.10000E+01	11				
19 .00000	)E+00	20	.00000E+00	21	.00000E+00	22	.00000E+00	23	.00000E+00	24	.00000E+00	
SOURCE ID = L000 1 .00000	00043 ; 0E+00	SOURCE 2	TYPE = VOLUME	: :	.00000E+00	4	.00000E+00	5	.00000E+00	6	.00000E+00	
13 .10000	E+01	14	.10000E+01	15	.00000E+00 .10000E+01 .00000E+00	16	.00000E+00	17	.10000E+01 .00000E+00	12 18	.10000E+01 .00000E+00	
					.00000E+00		.00000E+00	23	.00000E+00			
*** AERMOD - VE  **MODELOPTs:		026 **	* *** Echo *** HRA -	Park PM D	Lake Rehabilit Diesel (Unmitig	ation gated)					*** 11:2	20/10 23:25 E 15
CONC			AULT ELEV	י האתר	SCALARS WHICE	I WADY	BOD BACH HOUE	OF THE	Day *			
		. 5	OURCE EMISSION	I RAIL	SCALARS WHICE	1 VARI	FOR EACH HOUP	C OF THE	DAI "			
HOUR SCAL							SCALAR			HOUR	SCALAR	
SOURCE ID = L000 1 .00000	00044 ; . 0E+00	SOURCE 2	TYPE = VOLUME	: :	.00000E+00	4	.00000E+00	5	.00000E+00	6	.00000E+00	
7 .00000	E+00 E+01	8 14	.00000E+00	9 15	.00000E+00 .10000E+01	10 16	.10000E+01	11 17	.10000E+01	12 18	.10000E+01	
19 .00000	E+00	20	.00000E+00	21	.00000E+00 .00000E+00	22	.00000E+00	23	.00000E+00	24	.00000E+00	
SOURCE ID = L000	00045 ;	SOURCE	TYPE = VOLUME	:								
1 .00000 7 .00000	)E+00 )E+00	2 8	.00000E+00	3 9	.00000E+00 .10000E+01	10	.00000E+00 .10000E+01	5 11	.00000E+00 .10000E+01	6 12	.00000E+00 .10000E+01	
SOURCE ID = L000 1 .00000 7 .00000 13 .10000 19 .00000	)E+01 )E+00	14 20	.10000E+01 .00000E+00	15 21	.00000E+00 .00000E+00	16 22	.00000E+00 .00000E+00	17 23	.00000E+00 .00000E+00	18 24	.00000E+00 .00000E+00	
SOURCE ID = L000	00046 ;	SOURCE	TYPE = VOLUME	: :								
1 .00000 7 .00000	)E+00 )E+00	2 8	.00000E+00 .00000E+00	3 9	.00000E+00 .10000E+01	4 10	.00000E+00 .10000E+01	5 11	.00000E+00 .10000E+01	6 12	.00000E+00 .10000E+01	
13 .10000 19 .00000	)E+01 )E+00	14 20	.10000E+01 .00000E+00	15 21	.00000E+00 .10000E+01 .00000E+00	16 22	.00000E+00 .00000E+00	17 23	.00000E+00 .00000E+00	18 24	.00000E+00 .00000E+00	
SOURCE ID = L000	00047 ;	SOURCE	TYPE = VOLUME	: :								
1 .00000 7 .00000	)E+00 )E+00	2	.00000E+00	3 9	.00000E+00 .10000E+01	4 10	.00000E+00 .10000E+01	5 11	.00000E+00 .10000E+01	6 12	.00000E+00 .10000E+01	
13 .10000	E+01	14	.10000E+01	15 21	.00000E+00 .00000E+00	16 22	.00000E+00 .00000E+00	17 23	.00000E+00 .00000E+00	18 24	.00000E+00 .10000E+01 .00000E+00 .00000E+00	
19 .00000	E+00	20	.00000E+00									
							.00000E+00		.00000E+00	6 12	.00000E+00	
							.00000E+00 .10000E+01 .00000E+00		.00000E+00 .10000E+01 .00000E+00	6 12 18 24	.00000E+00 .10000E+01 .00000E+00	
	00048 ; DE+00 DE+00 DE+01 DE+01	SOURCE 2 8 14 20	TYPE = VOLUME .00000E+00 .00000E+00 .10000E+01 .00000E+00	: : 3 9 15 21	.00000E+00 .10000E+01 .00000E+00 .00000E+00	4 10 16 22	.00000E+00 .10000E+01 .00000E+00		.00000E+00 .10000E+01 .00000E+00		*** 04/2	20/10
SOURCE ID = L000 1 .00000 7 .00000 13 .10000 19 .00000	00048 ; DE+00 DE+00 DE+01 DE+01	SOURCE 2 8 14 20	TYPE = VOLUME .00000E+00 .00000E+00 .10000E+01 .00000E+00	: : 3 9 15 21	.00000E+00 .10000E+01 .00000E+00	4 10 16 22	.00000E+00 .10000E+01 .00000E+00 .00000E+00		.00000E+00 .10000E+01 .00000E+00 .00000E+00		*** 04/1 *** 11:1	20/10 23:25 E 16

 $^{\star}$  source emission rate scalars which vary for each hour of the day  $^{\star}$ 

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	
SOURCE ID	= L0000049	; SOURCE	TYPE = VOLUI	ME :	00000E+00	4	00000E+00	5	00000E+00	6	00000E+	nn
7	.00000E+00	8	.00000E+00	9	.10000E+01	10	.10000E+01	11	.10000E+01	12	.10000E+	01
13	.10000E+01	14	.10000E+01	15 21	.00000E+00	16 22	.00000E+00	17	.00000E+00 .10000E+01 .00000E+00 .00000E+00	18	.00000E+	00
17	.000000100	20	.00000100	21	.00000100	22	.000000100	23	.00000100	21	.000001	00
SOURCE ID	= L0000050	; SOURCE	TYPE = VOLUI	ME :								
1 7	.00000E+00	2	.00000E+00	3	.00000E+00	4	.00000E+00	5 11	.00000E+00	12	.00000E+	00
13	.10000E+01	14	.10000E+01	15	.00000E+00	16	.00000E+00	17	.10000E+01 .00000E+00 .00000E+00	18	.00000E+	00
19	.00000E+00	20	.00000E+00	21	.00000E+00	22	.00000E+00	23	.00000E+00	24	.00000E+	00
COURGE ID	- 10000051	· compa	TYPE = VOLU	ur .								
						4	.00000E+00	5	.00000E+00 .10000E+01	6	.00000E+	00
7	.00000E+00	1.4	.00000E+00	9 15	.10000E+01	10	.10000E+01	11	.10000E+01 .00000E+00	12	.10000E+	01
19	.00000E+00	20	.00000E+00	21	.00000E+00	22	.00000E+00	23	.00000E+00	24	.00000E+	00
SOURCE ID	= L0000052 .00000E+00	; SOURCE 2	.00000E+00	ME :	.00000E+00	4	.00000E+00	5	.00000E+00	6	.00000E+	00
7	.00000E+00	8	.00000E+00	9	.10000E+01	10	.10000E+01	11	.10000E+01	12	.10000E+	01
									.00000E+00 .00000E+00			
SOURCE ID	= L0000053	; SOURCE	TYPE = VOLUI	ME :	000007-00	4	000000-00	-	000007-00	_	00000=	0.0
7	.00000E+00	8	.00000E+00	9	.00000E+00	10	.00000E+00	5 11	.00000E+00 .10000E+01 .00000E+00	12	.10000E+	01
13	.10000E+01	14	.10000E+01	15	.00000E+00	16	.00000E+00	17	.00000E+00 .00000E+00	18	.00000E+	00
							.00000E+00	23	.00000E+00			
*** AERMO	OD - VERSION	07026 **			Lake Rehabili iesel (Unmiti							04/20/10 11:23:25
**MODELOPT		DF	AULT ELEV									PAGE 17
				אר פארים	SCALARS WHIC	u wadv	EUD EYGN NULL	ום ∩ני ידעני	DAY *			
			JOOKEE ENIESEN	ON KAIL	SCADARS WIIIC	II VAICI	rok EACH HOU	nt or ing	DAI			
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	
SOURCE ID	= L0000054	; SOURCE	TYPE = VOLU	ME :								
1	.00000E+00	2	.00000E+00	3	.00000E+00	4	.00000E+00	5	.00000E+00 .10000E+01 .00000E+00 .00000E+00	6	.00000E+	00
13	.10000E+00	14	.10000E+00	15	.00000E+01	16	.00000E+01	17	.00000E+01	18	.00000E+	00
19	.00000E+00	20	.00000E+00	21	.00000E+00	22	.00000E+00	23	.00000E+00	24	.00000E+	00
SOURCE ID	= T.0000055	: SOURCE	TYPE = VOLU	ME :								
1	.00000E+00	2	.00000E+00	3	.00000E+00	4	.00000E+00	5	.00000E+00	6	.00000E+	00
13	.10000E+00	14	.10000E+00	15	.00000E+01	16	.00000E+01	17	.00000E+00 .10000E+01 .00000E+00	18	.00000E+	00
							.00000E+00	23	.00000E+00			00
*** AERMO					Lake Rehabili iesel (Unmiti					*		04/20/10 11:23:25
**MODELOPT			AULT ELEV									PAGE 18
20112		2.	11021 2221									
					ISCRETE CARTE							
				(X-COOR	D, Y-COORD, Z (MET		HILL, ZFLAG)					
( 3836	661.0, 37713	29.5,	0.0,	0.0,	0.0);		( 383792.6,	3770989.	2, 0.0,		0.0,	0.0);
( 3836	667.4, 37705	37.2, 52 0	0.0,	0.0,	0.0);		( 382752.0,	3769952.	2, 0.0, 0, 0.0, 0, 0.0, 0, 0.0, 0, 0.0,		0.0,	0.0);
( 3829	902.0, 37699	52.0,	0.0,	0.0,	0.0);		( 382952.0,	3769952.	0, 0.0,		0.0,	0.0);
( 3830	002.0, 37699	52.0,	0.0,	0.0,	0.0);		( 383052.0,	3769952.	0, 0.0, 0, 0.0,		0.0,	0.0);
( 3832	102.0, 37699 202.0, 37699	52.0,	0.0,	0.0,	0.0);		( 383152.0, ( 383252.0,	3769952.	0, 0.0, 0, 0.0,		0.0,	0.0);
	302.0, 37699		0.0,	0.0,	0.0);		( 383352.0,				0.0, 0.0,	0.0);
	402.0, 37699 502.0, 37699		0.0,	0.0,	0.0);		( 383452.0, ( 383552.0,				0.0,	0.0);
	602.0, 37699		0.0,	0.0,	0.0);		( 383652.0,		0, 0.0,		0.0,	0.0);
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( 3839	902.0, 37699	52.0,	0.0,	0.0,	0.0);		( 383952.0,	3769952.	0, 0.0,		0.0,	0.0);
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( 3842	202.0, 37699	52.0,	0.0,	0.0,	0.0);		( 384252.0,	3769952.	0, 0.0,		0.0,	0.0);
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( 3845	502.0, 37699	52.0,	0.0,	0.0,	0.0);		( 384552.0,	3769952.	0, 0.0,		0.0,	0.0);
	602.0, 37699 702.0, 37699		0.0,	0.0,	0.0);		( 384652.0, ( 382752.0,	3769952.	0, 0.0, 0, 0.0,		0.0,	0.0);
( 3828	802.0, 37700	02.0,	0.0,	0.0,	0.0);		( 382852.0,	3770002.	0, 0.0,		0.0,	0.0);
( 3829	902.0, 37700 002.0, 37700	02.0,	0.0,	0.0,	0.0);		( 382952.0, ( 383052.0,	3770002.	0, 0.0,		0.0, 0.0,	0.0);
( 3831	102.0, 37700	02.0,	0.0,	0.0,	0.0);		( 383152.0,	3770002.	0, 0.0,		0.0,	0.0);
( 3832	202.0, 37700 302.0, 37700	02.0,	0.0,	0.0,	0.0);		( 383252.0, ( 383352.0,		0, 0.0,		0.0,	0.0);
( 3834	402.0, 37700	02.0,	0.0,	0.0,	0.0);		( 383452.0,	3770002.	0, 0.0,		0.0,	0.0);
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( 3837	702.0, 37700	02.0,	0.0,	0.0,	0.0);		( 383752.0,	3770002.	0, 0.0,		0.0,	0.0);
( 3838	802.0, 37700 902.0, 37700	02.0,	0.0,	0.0,	0.0);		( 383852.0, ( 383952.0,	3770002.	0, 0.0,		0.0, 0.0,	0.0);
( 3840	002.0, 37700	02.0,	0.0,	0.0,	0.0);		( 384052.0,	3770002.	0, 0.0,		0.0,	0.0);
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*** Echo Park Lake Rehabilitation

*** HRA - PM Diesel (Unmitigated)
                                                                                                                                                                                                                                                                  04/20/10
                                                                                                                                                                                                                                                                  11:23:25
**MODELOPTs:
                                                                                                                                                                                                                                                                  PAGE 19
                                                           DEAULT ELEV
                                                                                               *** DISCRETE CARTESIAN RECEPTORS
                                                                                          (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
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**Diesel (Unmitigated)
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**MODELOPTs:
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*** Echo Park Lake Rehabilitation
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*** Echo Park Lake Rehabilitation

*** HRA - PM Diesel (Unmitigated)
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*** Echo Park Lake Rehabilitation
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*** AERMOD - VERSION 07026 ***
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*** HRA - PM Diesel (Unmitigated)
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 **MODELOPTs:
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**MODELOPTs:
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                                                                                                                  DFAULT ELEV
                                                                                                                                                                              *** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
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 **MODELOPTs:
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	(	*** DISCRETE CARTES: X-COORD, Y-COORD, ZE: (METE)	IAN RECEPTORS *** LEV, ZHILL, ZFLAG) RS)			
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*** AERMOD - VERSION 07026  **MODELOPTs: CONC	*** *** Echo *** HRA DFAULT ELEV	Park Lake Rehabilita - PM Diesel (Unmitiga	ation ated)		***	04/20/10 11:23:25 PAGE 26
		*** DISCRETE CARTES: X-COORD, Y-COORD, ZE: (METE)	LEV, ZHILL, ZFLAG)			
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*** Echo Park Lake Rehabilitation

*** HRA - PM Diesel (Unmitigated)
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CONC
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*** Echo Park Lake Rehabilitation
*** HRA - PM Diesel (Unmitigated)
                   ( 384302.0, 3771202.0,
( 384402.0, 3771202.0,
( 384502.0, 3771202.0,
AERMOD - VERSION 07026 ***
                                                                                                                                                                                                                                                                                        384352.0, 3771202.0,
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 **MODELOPTs:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PAGE 29
                                                                                                             DFAULT ELEV
                                                                                                                                                                     *** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)
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( 382752.0, 3771252.0,
( 382852.0, 3771252.0,
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( 384702.0, 3771202.0,
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*** AERMOD - VERSION 07026 ***
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*** Echo Park Lake Rehabilitation
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                                                                                                                                                                        *** HRA - PM Diesel (Unmitigated)
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**MODELOPTs:
                                                                                                                                     DFAULT ELEV
                                                                                                                                                                                                                   *** DISCRETE CARTESIAN RECEPTORS ***
                                                                                                                                                                                                         (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
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**MODELOPTs:
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*** AERMOD - VERSION 07026 ***
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*** Echo Park Lake Rehabilitation

*** HRA - PM Diesel (Unmitigated)
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                                                                                                                                                 DFAULT ELEV
CONC
                                                                                                                                                                                                                                        *** DISCRETE CARTESIAN RECEPTORS ***
                                                                                                                                                                                                                           (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)

(METERS)
                        ( 384352.0, 3771552.0,
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384502.0, 3771552.0,
(384602.0, 3771552.0,
(384702.0, 3771552.0,
382802.0, 3771602.0,
(382902.0, 3771602.0,
(383002.0, 3771602.0,
(383102.0, 3771602.0,
(383202.0, 3771602.0,
                              384452.0, 3771552.0,
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                                  383152.0, 3771602.0,
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384302.0, 3771602.0,
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( 382752.0, 3771652.0,
( 382752.0, 3771702.0,
AERMOD - VERSION 07026 ***
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*** Echo Park Lake Rehabilitation

*** HRA - PM Diesel (Unmitigated)
                                                                                                                                                                                                                                                                                                                                                                                    382802.0, 3771702.0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0.0);
04/20/10
                                                                                                                                               DFAULT ELEV
                                                                                                                                                                                                                                       *** DISCRETE CARTESIAN RECEPTORS ***
                                                                                                                                                                                                                           (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)
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*** Echo Park Lake Rehabilitation

*** HRA - PM Diesel (Unmitigated)
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(383152.0, 3771802.0,
(383152.0, 3771802.0,
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AERMOD - VERSION 07026
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    **MODELOPTs:
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                                                                                                                                                          DFAULT ELEV
                                                                                                                                                                                                                                                      *** DISCRETE CARTESIAN RECEPTORS ***
                                                                                                                                                                                                                                          (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)
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*** Echo Park Lake Rehabilitation
*** HRA - PM Diesel (Unmitigated)
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AERMOD - VERSION 07026 ***
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    **MODELOPTs:
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CONC
                                                                                                                                                         DFAULT ELEV
                                                                                                                                                                                                                                                      *** DISCRETE CARTESIAN RECEPTORS ***
                                                                                                                                                                                                                                          (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)
                         ( 383852.0, 3771902.0,
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*** Echo Park Lake Rehabilitation
*** HRA - PM Diesel (Unmitigated)
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AERMOD - VERSION 07026 ***
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     **MODELOPTs:
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                                                                                                                                                          DFAULT ELEV
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<sup>\*</sup> SOURCE-RECEPTOR COMBINATIONS FOR WHICH CALCULATIONS MAY NOT BE PERFORMED \*

LESS THAN 1.0 METER OR WITHIN OPEN PIT SOURCE SOURCE - RECEPTOR LOCATION -383502.0 3770602.0
383502.0 3770602.0
383602.0 3770552.0
383602.0 3770552.0
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383702.0 3770652.0
383702.0 3770652.0
383702.0 3770652.0 L0000008 -4.07 -13.59 -3.89 0.46 -7.21 -1.42 -1.61 T-0000014 1.0000015 L0000015 L0000016 L0000018 L0000019 L0000020 L0000021 T-0000030 -7.43 -8.53 L0000031 L0000031 383702.0 3770652.0 L0000054 383792.6 3770989.2 L0000055 383792.6 3770989.2 L0000055 383802.0 3771002.0 \*\*\* AERMOD - VERSION 07026 \*\*\* \*\*\* Echo Park Lake Rehabilitation \*\*\* HRA - PM Diesel (Unmitigated) 11:23:25 \*\*MODELOPTs: DFAULT ELEV \*\*\* METEOROLOGICAL DAYS SELECTED FOR PROCESSING \*\*\* (1=YES; 0=NO) METEOROLOGICAL DATA PROCESSED BETWEEN START DATE: 0 0 0 0 0 AND END DATE: 9999 99 99 24 NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE. \*\*\* UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES \*\*\* (METERS/SEC)5.14, 8.23, 10.80, 04/20/10 DFAULT ELEV \*\*\* UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA \*\*\* 6.3 0.64 19.1 0.64 19.1 0.64 15.2 0.64 15.2 0.64 19.0 0.64 19.0 0.64 14.1 0.64 -95.4 0.64 -95.2 0.64 -19.2 0.64 -131.8 0.64 -131.8 0.64 -131.8 0.64 -131.8 0.64 125.0 0.64 125.0 0.64 125.0 0.64 125.0 0.64 125.0 0.64 125.0 0.64 126.1 0.64 126.1 0.64 126.1 0.64 126.1 0.64 126.1 0.64 126.1 0.64 126.1 0.64 126.1 0.64 126.1 0.64 126.1 0.64 126.1 0.64 126.1 0.64 126.1 0.64 86. 75. 82. 1.00 1.00 1.00 1.00 1.00 381.9 0.64 402.5 0.64 1.00 4.60 88. 1.00 1.00 21.3 284.9 673.0 0.64 649.7 0.64 First hour of profile data
YR MO DY HR HEIGHT F WDIR WSPD AMB\_TMP sigmaA sigmaW sigmaV
06 01 01 01 17.7 0 -999. -99.00 286.5 99.0 -99.00 -99.00
06 01 01 01 21.3 1 347. 0.70 -999.0 99.0 -99.00 -99.00 F indicates top of profile (=1) or below (=0)
\*\*\* AERMOD - VERSION 07026 \*\*\*

\*\*\* Echo Park Lake Rehabilitation

\*\*\* HRA - PM Diesel (Unmitigated) \*\*MODELOPTs: PAGE 39 DFAULT ELEV \*\*\* THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: ONSITE \*\*\* INCLUDING SOURCE(S): SITE , \*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF DPM IN MICROGRAMS/M\*\*3

X-COORD (M) Y-COORD (M)

CONC

X-COORD (M) Y-COORD (M)

CONC

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383660.97
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3770537.25
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0.10049
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*** AERMOD - VERSION 07026 ***
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                                                         *** Echo Park Lake Rehabilitation

*** HRA - PM Diesel (Unmitigated)
                                                                                                                                                                                                      11:23:25
**MODELOPTs:
                                                                                                                                                                                                      PAGE 40
                                            DEAHLT ELEV
                             *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: ONSITE ***
INCLUDING SOURCE(S): SITE ,
                                                                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                               ** CONC OF DPM IN MICROGRAMS/M**3
        X-COORD (M) Y-COORD (M) CONC

384652.03 3770002.00 0.00182

382752.03 3770052.00 0.02960

382852.03 3770052.00 0.03451
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*** AERMOD - VERSION 07026 ***
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*** Echo Park Lake Rehabilitation
*** HRA - PM Diesel (Unmitigated)
                                                                                                                                                                                                       11:23:25
**MODELOPTs:
                                             DFAULT ELEV
                            *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: ONSITE *** INCLUDING SOURCE(S): SITE ,
                                                                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                ** CONC OF DPM IN MICROGRAMS/M**3
        X-COORD (M) Y-COORD (M) CONC X-COORD (M) Y-COORD (M) CONC

384602.03 3770102.00 0.00205 384652.03 3770102.00 0.0015

384702.03 3770102.00 0.00183 382752.03 3770152.00 0.0288

382802.03 3770152.00 0.03171 382852.03 3770152.00 0.0347

382902.03 3770152.00 0.03797 382952.03 3770152.00 0.0411

383002.03 3770152.00 0.04422 383052.03 3770152.00 0.0462
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 384502.03 3770202.00
*** AERMOD - VERSION 07026 ***
                                                              *** Echo Park Lake Rehabilitation
                                                                                                                                                                                                                       04/20/10
                                                              *** HRA - PM Diesel (Unmitigated)
                                                                                                                                                                                                                        11:23:25
**MODELOPTs:
                                                DFAULT ELEV
                               *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: ONSITE *** INCLUDING SOURCE(S): SITE ,
                                                                             *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                     ** CONC OF DPM IN MICROGRAMS/M**3
         X-COORD (M) Y-COORD (M) CONC

384602.03 3770202.00 0.00224
384702.03 3770252.00 0.03032
382802.03 3770252.00 0.03767
383002.03 370252.00 0.04600
383102.03 3770252.00 0.05437
383302.03 3770252.00 0.056437
383302.03 3770252.00 0.06089
                                                                                                                   X-COORD (M) Y-COORD (M) CONC

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382752.03 3770252.00 0.033
382952.03 3770252.00 0.031
383952.03 3770252.00 0.050
383952.03 3770252.00 0.050
383152.03 3770252.00 0.058
383152.03 3770252.00 0.058
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*** AERMOD - VERSION 07026 ***
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                                                              *** Echo Park Lake Rehabilitation

*** HRA - PM Diesel (Unmitigated)
                                                                                                                                                                                                                        11:23:25
**MODELOPTs:
                                             DFAULT ELEV
                               *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: ONSITE ***
INCLUDING SOURCE(S): SITE ,
                                                                            *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                    ** CONC OF DPM IN MICROGRAMS/M**3
                                  Y-COORD (M) CONC :

3770302.00 0.00252
3770302.00 0.02322
3770352.00 0.02800
3770352.00 0.04583
3770352.00 0.04583
3770352.00 0.05738
3770352.00 0.06919
3770352.00 0.07809
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                                                                  *** Echo Park Lake Rehabilitation
*** HRA - PM Diesel (Unmitigated)
 *** AERMOD - VERSION 07026 ***
                                                                                                                                                                                                                                    04/20/10
                                                                                                                                                                                                                                     11:23:25
                                                  DFAULT ELEV
                                  *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: ONSITE ***
INCLUDING SOURCE(S): SITE
                                                               INCLUDING SOURCE(S):
                                                                                *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                        ** CONC OF DPM IN MICROGRAMS/M**3
       X-COORD (M) Y-COORD (M) CONC

384602.03 3770402.00 0.00291
384702.03 3770452.00 0.02503
382802.03 3770452.00 0.03290
383002.03 3770452.00 0.03290
383002.03 3770452.00 0.05752
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384652.03 3770452.00
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*** AERMOD - VERSION 07026 ***
                                                                  *** Echo Park Lake Rehabilitation

*** HRA - PM Diesel (Unmitigated)
                                                                                                                                                                                                                                     04/20/10
                                                                                                                                                                                                                                     11:23:25
**MODELOPTs:
                                                                                                                                                                                                                                     PAGE 45
                                                 DFAULT ELEV
                                *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: ONSITE ***
INCLUDING SOURCE(S): SITE
                                                              INCLUDING SOURCE(S):
                                                                                                                SITE
                                                                                *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                        ** CONC OF DPM IN MICROGRAMS/M**3
         X-COORD (M) Y-COORD (M) CONC X

384602.03 3770502.00 0.00349

884702.03 3770502.00 0.00317

382802.03 3770552.00 0.02176

382902.03 3770552.00 0.02176

382902.03 3770552.00 0.05458

383102.03 3770552.00 0.05458

383102.03 3770552.00 0.07531

383302.03 3770552.00 0.10237

383402.03 3770552.00 0.10237
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384652.03 3770552.00 0.01332
382752.03 3770552.00 0.02506
382952.03 3770552.00 0.03381
383052.03 3770552.00 0.04642
383152.03 3770552.00 0.06417
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*** AERMOD - VERSION 07026 ***
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                                                                                  *** Echo Park Lake Rehabilitation
*** HRA - PM Diesel (Unmitigated)
                                                                                                                                                                                                                                                                                         04/20/10
**MODELOPTs:
                                         *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: ONSITE SITE ,
                                                                                                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                              0.00434
0.00384
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384652.03 3770602.00 0.00408
382752.03 3770652.00 0.01622
382852.03 3770652.00 0.02331
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            X-COORD (M) Y-COORD (M)
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*** AERMOD - VERSION 07026 ***
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                                                                                  *** Echo Park Lake Rehabilitation

*** HRA - PM Diesel (Unmitigated)
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**MODELOPTs:
                                         *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: ONSITE
                                                                             INCLUDING SOURCE(S):
                                                                                                                                          SITE
                                                                                                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                                          ** CONC OF DPM IN MICROGRAMS/M**3
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*** AERMOD - VERSION 07026 ***
                                                                0.04063
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PAGE 48
                          *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: ONSITE *** SITE ,
                                                                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                ** CONC OF DPM IN MICROGRAMS/M**3
       X-COORD (M) Y-COORD (M) CONC

383252.03 3770852.00 0.06518
383352.03 3770852.00 0.11115
383452.03 3770852.00 0.20196
383552.03 3770852.00 0.45188
                                                                                                            X-COORD (M) Y-COORD (M) CONC

383302.03 3770852.00 0.0845
383402.03 3770852.00 0.1483
383502.03 3770852.00 0.2886
383802.03 3770852.00 0.3553
                                                                                                                                                                      0.08451
0.14835
0.28583
0.35537
                                  3770852.00
            383852.03
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*** AERMOD - VERSION 07026 ***
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*** Echo Park Lake Rehabilitation

*** HRA - PM Diesel (Unmitigated)
                                                                                                                                                                                                        11:23:25
PAGE 49
                            *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: ONSITE ***
INCLUDING SOURCE(S): SITE ,
                                                                      *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                ** CONC OF DPM IN MICROGRAMS/M**3
                                                                                                            X-COORD (M) Y-COORD (M)

383902.03 3770952.00
384002.03 3770952.00
384102.03 3770952.00
384202.03 3770952.00
       X-COORD (M) Y-COORD (M) CONC

383852.03 3770952.00 0.22196
383952.03 3770952.00 0.09930
384052.03 3770952.00 0.05659
384152.03 3770952.00 0.05666
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            384252.03
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            384352.03
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  384102.03 3771052.00
384202.03 3771052.00
*** AERMOD - VERSION 07026 ***
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*** Echo Park Lake Rehabilitation

*** HRA - PM Diesel (Unmitigated)
                                                                                                                                                                                                     04/20/10
 **MODELOPTs:
                                            DFAULT ELEV
CONC
                             *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: ONSITE ***
INCLUDING SOURCE(S): SITE ,
                                                                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
       X-COORD (M) Y-COORD (M) CONC

384302.03 3771052.00 0.02655
384402.03 3771052.00 0.01519
384602.03 3771052.00 0.01205
3771052.00 0.00752
0.00752
0.00752
0.00973
                                                                ** CONC OF DPM IN MICROGRAMS/M**3
                                                                                                            X-COORD (M) Y-COORD (M) CONC

384352.03 3771052.00 0.02277
384452.03 3771052.00 0.01724
384552.03 3771052.00 0.01348
384552.03 3771052.00 0.010383
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                                                         *** Echo Park Lake Rehabilitation
*** HRA - PM Diesel (Unmitigated)
  *** AERMOD - VERSION 07026 ***
                                                                                                                                                                                                     04/20/10
                             *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: ONSITE ***
INCLUDING SOURCE(S): SITE ,
                                                                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                                                            X-COORD (M) Y-COORD (M) CONC

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383102.03 3771202.00 0.01109
383202.03 3771202.00 0.01516
         X-COORD (M) Y-COORD (M) CONC X
                                 3771202.00 0.00641
3771202.00 0.00776
3771202.00 0.00973
3771202.00 0.01283
3771202.00 0.01837
3771202.00 0.0332
3771202.00 0.06643
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*** Echo Park Lake Rehabilitation
*** HRA - PM Diesel (Unmitigated)
                                                                                                                                                                                                  11:23:25
**MODELOPTs:
                                                                                                                                                                                                 PAGE 52
                                            DFAULT ELEV
                           *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: ONSITE ***
INCLUDING SOURCE(S): SITE ,
                                                                     *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                               ** CONC OF DPM IN MICROGRAMS/M**3
        CONC
                                                                                                           X-COORD (M) Y-COORD (M)
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                                                        *** Echo Park Lake Rehabilitation
*** HRA - PM Diesel (Unmitigated)
  *** AERMOD - VERSION 07026 ***
                                                                                                                                                                                                 04/20/10
**MODELOPTs:
                                                                                                                                                                                                 PAGE 53
CONC
                                           DFAULT ELEV
                             *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: ONSITE ***
INCLUDING SOURCE(S): SITE ,
                                                      INCLUDING SOURCE(S):
                                                                                                SITE
                                                                     *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                               ** CONC OF DPM IN MICROGRAMS/M**3
         X-COORD (M) Y-COORD (M)
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                                                                                                           X-COORD (M) Y-COORD (M)
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  383252.03 3771502.00
*** AERMOD - VERSION 07026 ***
                                                        0.00594
*** Echo Park Lake Rehabilitation
                                                                                                               383302.03
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                                                                                                                                                                 0.00705
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MODELOPTs:	DFAU	*** HRA - PM Diesel ( LT ELEV					PAGE 5
	*** THE ANNUAL	AVERAGE CONCENTRATION INCLUDING SOURCE(S):	VALUES AVERAGED OVER SITE ,	2 YEARS FOR	SOURCE GROUP:	ONSITE	***
		*** DISCRETE	CARTESIAN RECEPTOR POI	NTS ***			
		** CONC OF DPM	IN MICROGRAMS/M**3		**		
X-COORD (M)	Y-COORD (M)		X-COORD (M)		CONC		
383352.03	3771502.00	0.00874	383402.03	3771502.00	0.01146		
	3771502.00 3771502.00	0.01599 0.03666	383502.03	3771502.00 3771502.00	0.02377 0.05469		
383652.03	3771502.00	0.07280	383702.03	3771502.00	0.08471		
383852.03	3771502.00 3771502.00	0.07909	383902.03	3771502.00 3771502.00	0.06967		
383952.03 384052.03	3771502.00	0.06001 0.04427	384002.03	3771502.00	0.05141		
384152.03	3771502.00	0.03388	384202.03	3771502.00	0.03852		
	3771502.00	0.02691 0.02192	384402.03	3771502.00			
	3771502.00 3771502.00	0.01815 0.01523		3771502.00 3771502.00	0.01661		
384652.03	3771502.00	0.01293	384702.03	3771502.00	0.01195		
382852.03	3771552.00 3771552.00	0.00271	382902.03	3771552.00 3771552.00	0.00284		
382952.03 383052.03	3771552.00	0.00300 0.00342		3771552.00 3771552.00	0.00319 0.00371		
383152.03	3771552.00	0.00409	383202.03	3//1552.00	0.00460		
383352.03	3771552.00 3771552.00	0.00533 0.00800	383402.03	3771552.00 3771552.00	0.00639 0.01053		
	3771552.00 3771552.00	0.01459 0.03084		3771552.00 3771552.00			
383652.03	3771552.00	0.05602	383702.03	3771552.00	0.06511		
383852.03		0.06909 0.06384	383902.03	3771552.00 3771552.00	0.06826 0.05738 0.04381		
383952.03 384052.03		0.05036 0.03819	384002.03 384102.03	3771552.00 3771552.00	0.03356		
384152.03	3771552.00 3771552.00 3771552.00	0.02979 0.02409	384202.03	3771552.00 3771552.00 3771552.00	0.02668		
384352.03	3771552.00	0.01998	384402.03	3771552.00	0.01832		
	3771552.00 3771552.00			3771552.00 3771552.00			
384652.03	3771552.00	0.01234	384702.03	3771552.00	0.01147		
382752.03 382852.03		0.00226 0.00244	382902.03	3771602.00 3771602.00	0.00235 0.00256		
382952.03 383052.03	3771602.00 3771602.00	0.00269 0.00307	383002.03	3771602.00 3771602.00	0.00286 0.00334		
383152.03	3771602.00	0.00370	383202.03	3771602.00 3771602.00	0.00420		
302252 02					0.00593		
383252.03 ** AERMOD - VERS		*** Echo Park Lake Re	habilitation	3771002.00		***	
*** AERMOD - VERS MODELOPTs: DNC	SION 07026 *** DFAU		Phabilitation Unmitigated) VALUES AVERAGED OVER			***	11:23:2 PAGE 5
*** AERMOD - VERS MODELOPTs: DNC	SION 07026 *** DFAU	*** Echo Park Lake Re *** HRA - PM Diesel ( LT ELEV  AVERAGE CONCENTRATION INCLUDING SOURCE(S):  *** DISCRETE	habilitation Unmitigated)  VALUES AVERAGED OVER SITE ,  CARTESIAN RECEPTOR POI	2 YEARS FOR		***	11:23:2 PAGE 5
** AERMOD - VERS	SION 07026 *** DFAU	*** Echo Park Lake Re *** HRA - PM Diesel ( LT ELEV  AVERAGE CONCENTRATION INCLUDING SOURCE(S):  *** DISCRETE  ** CONC OF DPM	habilitation Unmitigated)  VALUES AVERAGED OVER SITE , CARTESIAN RECEPTOR POI IN MICROGRAMS/M**3	2 YEARS FOR	SOURCE GROUP:	***	11:23:2 PAGE 5
** AERMOD - VERS MODELOPTs: NC  X-COORD (M)	DFAU  *** THE ANNUAL  Y-COORD (M)	*** Echo Park Lake Re *** HRA - PM Diesel ( LT ELEV  AVERAGE CONCENTRATION INCLUDING SOURCE(S):  *** DISCRETE ** CONC OF DPM CONC	habilitation Unmitigated)  VALUES AVERAGED OVER SITE , CARTESIAN RECEPTOR POI IN MICROGRAMS/M**3  X-COORD (M)	2 YEARS FOR	SOURCE GROUP:  **  CONC	*** ONSITE	11:23:2 PAGE 5
*** AERMOD - VERS MODELOPTs: NNC  X-COORD (M) 383352.03 383452.03	DFAU  *** THE ANNUAL  Y-COORD (M)  3771602.00 3771602.00	*** Echo Park Lake Re *** HRA - PM Diesel (  LT ELEV  AVERAGE CONCENTRATION INCLUDING SOURCE(S):  *** DISCRETE  ** CONC OF DPM  CONC  0.00747 0.01342	habilitation Unmitigated)  VALUES AVERAGED OVER SITE ,  CARTESIAN RECEPTOR POI IN MICROGRAMS/M**3  X-COORD (M)  383402.03 383502.03	2 YEARS FOR NTS ***  Y-COORD (M) 3771602.00 3771602.00	SOURCE GROUP:  **  CONC 0.009883	*** ONSITE	11:23:2 PAGE 5
** AERMOD - VERS MODELOPTs: NC  X-COORD (M) 383352.03 383452.03	DFAU  *** THE ANNUAL  Y-COORD (M)  3771602.00	*** Echo Park Lake Re *** HRA - PM Diesel ( LT ELEV  AVERAGE CONCENTRATION INCLUDING SOURCE(S):  *** DISCRETE  ** CONC OF DPM  CONC  0.00747	habilitation Unmitigated)  VALUES AVERAGED OVER SITE , CARTESIAN RECEPTOR POI IN MICROGRAMS/M**3  X-COORD (M) 383402.03 383502.03 383502.03	2 YEARS FOR  NTS ***  Y-COORD (M)  3771602.00	SOURCE GROUP:  **  CONC 0.00982 0.01883 0.03573	*** ONSITE	11:23:2 PAGE 5
** AERMOD - VERS MODELOPTs: NC  X-COORD (M) 383352.03 383452.03 383552.03 383552.03	Y-COORD (M) 3771602.00 3771602.00 3771602.00	*** Echo Park Lake Re *** HRA - PM Diesel ( LT ELEV  AVERAGE CONCENTRATION INCLUDING SOURCE(S):  *** DISCRETE  ** CONC OF DPM CONC  0.00747 0.01342 0.02643 0.04499 0.05562	habilitation Unmitigated)  VALUES AVERAGED OVER SITE ,  CARTESIAN RECEPTOR POI IN MICROGRAMS/M**3 X-COORD (M)	2 YEARS FOR  Y-COORD (M)  3771602.00  3771602.00  3771602.00  3771602.00	SOURCE GROUP:  **  CONC   0.00982 0.01883 0.03573 0.05204 0.05565	*** ONSITE	11:23:2 PAGE 5
** AERMOD - VERS MODELOPTs: NC  X-COORD (M)  3833452.03 383452.03 383552.03 383552.03 383952.03	*** THE ANNUAL  Y-COORD (M) 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00	*** Echo Park Lake Re *** HRA - PM Diesel ( LT ELEV  AVERAGE CONCENTRATION INCLUDING SOURCE(S):  *** DISCRETE  ** CONC OF DPM CONC  0.00747 0.01342 0.02643 0.04499 0.05562 0.05283 0.04299	habilitation Unmitigated)  VALUES AVERAGED OVER SITE ,  CARTESIAN RECEPTOR POI IN MICROGRAMS/M**3  X-COORD (M)  383402.03 383502.03 383702.03 383702.03 383902.03 383902.03	2 YEARS FOR  Y-COORD (M)  3771602.00 3771602.00 3771602.00 3771602.00 3771602.03 3771602.00	SOURCE GROUP:  **  CONC0.00982 0.01883 0.03573 0.05264 0.05565	ONSITE	11:23:2 PAGE 5
** AERMOD - VERS MODELOPTs: NC  X-COORD (M)	*** THE ANNUAL  Y-COORD (M)  3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00	*** Echo Park Lake Re *** HRA - PM Diesel ( LT ELEV  AVERAGE CONCENTRATION INCLUDING SOURCE(S):  *** DISCRETE  ** CONC OF DPM  CONC	habilitation Unmitigated)  VALUES AVERAGED OVER SITE ,  CARTESIAN RECEPTOR POI IN MICROGRAMS/M**3  X-COORD (M)  383402.03 383502.03 383702.03 383802.03 383902.03 383902.03 383802.03	2 YEARS FOR  Y-COORD (M)  3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00	**  CONC  0.00982 0.01883 0.03573 0.05204 0.05565 0.04824 0.03786 0.02949 0.02373	ONSITE	11:23:2 PAGE 5
** AERMOD - VERS MODELOPTS: NNC  X-COORD (M) 383352.03 383452.03 383552.03 383752.03 383952.03 383952.03 383952.03 383952.03	*** THE ANNUAL  Y-COORD (M)  3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00	*** Echo Park Lake Re *** HRA - PM Diesel (  LT ELEV  AVERAGE CONCENTRATION INCLUDING SOURCE(S):  *** DISCRETE  ** CONC OF DPM  CONC 0.00747 0.01342 0.02643 0.04499 0.05562 0.05283 0.04299 0.03332 0.02633 0.02157	habilitation Unmitigated)  VALUES AVERAGED OVER SITE ,  CARTESIAN RECEPTOR POI  IN MICROGRAMS/M**3  X-COORD (M)	2 YEARS FOR  Y-COORD (M)  3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00	CONC	ONSITE	11:23:2 PAGE 5
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** AERMOD - VERS MODELOPTs: NC  X-COORD (M)  383352.03 383552.03 383552.03 383552.03 383552.03 38352.03 38452.03 38452.03 38452.03 38452.03	Y-COORD (M)  Y-COORD (M)  Y-COORD (M)  Y-COORD (M)  Y-COORD (M)  3771602.00  3771602.00  3771602.00  3771602.00  3771602.00  3771602.00  3771602.00  3771602.00  3771602.00  3771602.00  3771602.00  3771602.00  3771602.00	*** Echo Park Lake Re *** HRA - PM Diesel ( LT ELEV  AVERAGE CONCENTRATION INCLUDING SOURCE(S):	habilitation Unmitigated)  VALUES AVERAGED OVER SITE ,  CARTESIAN RECEPTOR POI IN MICROGRAMS/M**3  X-COORD (M)  383402.03 383502.03 383702.03 383702.03 383902.03 383902.03 383902.03 383902.03 383902.03 38402.03 38402.03 38402.03 38402.03 38402.03	2 YEARS FOR  Y-COORD (M)  3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00	CONC  CONC  0.00982 0.01883 0.03573 0.05204 0.03565 0.04824 0.03786 0.02949 0.02373 0.01675 0.01441 0.01250 0.010250	ONSITE	11:23:2 PAGE 5
** AERMOD - VERS MODELOPTs: NC  X-COORD (M)	*** THE ANNUAL  Y-COORD (M)  3771602.00	*** Echo Park Lake Re *** HRA - PM Diesel (  LT ELEV  AVERAGE CONCENTRATION INCLUDING SOURCE(S):	habilitation Unmitigated)  VALUES AVERAGED OVER SITE ,  CARTESIAN RECEPTOR POI IN MICROGRAMS/M**3  X-COORD (M)  383402.03 383502.03 383602.03 383902.03 383902.03 383402.03 384402.03 384402.03 384402.03 384402.03 384402.03 384602.03 384602.03 384602.03 384602.03	2 YEARS FOR  Y-COORD (M)  3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00	CONC  CONC  0.00982 0.01883 0.03573 0.05204 0.05565 0.04824 0.03766 0.02349 0.02373 0.01975 0.01441 0.01250 0.01092 0.00213 0.00213	ONSITE	11:23:2 PAGE 5
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** AERMOD - VERS MODELOPTS: NNC  X-COORD (M)	*** THE ANNUAL  *** THE ANNUAL	*** Echo Park Lake Re *** HRA - PM Diesel (  LT ELEV  AVERAGE CONCENTRATION INCLUDING SOURCE(S):  *** DISCRETE  ** CONC OF DPM  CONC	habilitation Unmitigated)  VALUES AVERAGED OVER SITE ,  CARTESIAN RECEPTOR POI  IN MICROGRAMS/M**3  X-COORD (M)	2 YEARS FOR  Y-COORD (M)  3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771652.00	CONC	*** ONSITE	11:23:2 PAGE 5
** AERMOD - VERS  MODELOPTS: NNC   X-COORD (M) 383352.03 383452.03 383452.03 383752.03 383752.03 383752.03 383752.03 383852.03 38452.03 38452.03 38452.03 38452.03 38452.03 38452.03 38452.03 382752.03 38352.03 38352.03 38352.03 38352.03 38352.03 38352.03 38352.03 38352.03 38352.03 38352.03 38352.03 38352.03 38352.03 38352.03 38352.03 38352.03 38352.03 38352.03	*** THE ANNUAL  *** THE ANNUAL	*** Echo Park Lake Re *** HRA - PM Diesel ( LT ELEV  AVERAGE CONCENTRATION INCLUDING SOURCE(S):  *** DISCRETE  ** CONC OF DPM CONC	habilitation Unmitigated)  VALUES AVERAGED OVER SITE ,  CARTESIAN RECEPTOR POI IN MICROGRAMS/M**3  X-COORD (M)	2 YEARS FOR  Y-COORD (M)  3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771652.00	CONC  0.00982 0.11883 0.03573 0.05204 0.05565 0.04824 0.03786 0.02949 0.02373 0.01679 0.01441 0.01250 0.01092 0.00233 0.00259 0.00306 0.00391 0.00560 0.00592 0.01695 0.04288 0.0213 0.00259 0.00361 0.00592 0.01695 0.001331 0.01690 0.01331 0.01169 0.01331 0.01169 0.01331	*** ONSITE	11:23:2 PAGE 5
** AERMOD - VERS MODELOPTS: NNC  X-COORD (M) 383352.03 383452.03 383452.03 383552.03 383952.03 383952.03 383952.03 38452.03 38452.03 38452.03 38452.03 38452.03 38452.03 38452.03 38452.03 38252.03 38252.03 38252.03 38352.03	Y-COORD (M)  3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771652.00	*** ECHO PATK LAKE RE *** HRA - PM DIESEI ( LT ELEV  AVERAGE CONCENTRATION INCLUDING SOURCE(S):  *** DISCRETE  ** CONC OF DPM CONC	habilitation Unmitigated)  VALUES AVERAGED OVER SITE ,  CARTESIAN RECEPTOR POI IN MICROGRAMS/M**3  X-COORD (M)	2 YEARS FOR  Y-COORD (M)	CONC 0.00982 0.01883 0.03573 0.055204 0.05565 0.04824 0.03786 0.02949 0.02373 0.01675 0.014141 0.01250 0.00213 0.00232 0.00299 0.00301 0.00560 0.00922 0.00391 0.00560 0.00923 0.00310 0.00560 0.00923 0.001895 0.03016 0.004129 0.0317 0.02618 0.02124 0.01781 0.01529 0.01331 0.01529 0.01331 0.01529 0.01331 0.01529 0.01331 0.01529 0.01331 0.011529 0.01331 0.011529 0.01331	ONSITE	11:23:2 PAGE 5
** AERMOD - VERS MODELOPTS: NNC  X-COORD (M) 383352.03 383452.03 383552.03 383552.03 383552.03 38352.03 38352.03 38452.03 38452.03 38452.03 38452.03 38452.03 38452.03 38452.03 38252.03 38252.03 38252.03 38252.03 38352.03	Y-COORD (M)  *** THE ANNUAL  Y-COORD (M)  3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771652.00	*** Echo Park Lake Re *** HRA - PM Diesel (  LT ELEV  AVERAGE CONCENTRATION INCLUDING SOURCE(S):   *** DISCRETE  ** CONC OF DPM  CONC	habilitation Unmitigated)  VALUES AVERAGED OVER SITE ,  CARTESIAN RECEPTOR POI  IN MICROGRAMS/M**3  X-COORD (M)	2 YEARS FOR  Y-COORD (M)	SOURCE GROUP:  ***  CONC  0.00982 0.01883 0.03573 0.05204 0.05565 0.04824 0.03786 0.02949 0.02373 0.01675 0.01411 0.01250 0.01092 0.00301 0.00595 0.00301 0.00595 0.00301 0.00595 0.00301 0.00599 0.00301 0.00599 0.00301 0.00599 0.00301 0.00599 0.00310 0.00599 0.00313 0.0064624 0.04129 0.03317 0.02618 0.02124 0.01781 0.01529 0.01331 0.01169 0.01032 0.00195 0.00131 0.01169 0.01032 0.00195 0.00238	*** ONSITE	11:23:2 PAGE 5
** AERMOD - VERS  MODELOPTS: NNC   X-COORD (M)  3  83352.03  833552.03  838552.03  838752.03  838752.03  838452.03  838452.03  838452.03  838452.03  838452.03  838452.03  838452.03  838452.03  838252.03  838252.03  838352.03  838352.03  838352.03  838352.03  838352.03  838352.03  838352.03  838352.03  838352.03  838352.03  838452.03  838452.03  838452.03  838452.03  838452.03  838452.03  838452.03  838452.03	Y-COORD (M)	*** ECHO PARK LAKE RE *** HRA - PM Diesel ( LT ELEV  AVERAGE CONCENTRATION INCLUDING SOURCE(S):  *** DISCRETE  ** CONC OF DPM  CONC	habilitation Unmitigated)  VALUES AVERAGED OVER SITE ,  CARTESIAN RECEPTOR POI  IN MICROGRAMS/M**3  X-COORD (M)	2 YEARS FOR  Y-COORD (M)	SOURCE GROUP:  ***  CONC  0.00982 0.01883 0.03573 0.05204 0.05565 0.04824 0.03786 0.02949 0.02373 0.01675 0.01411 0.01250 0.01092 0.00301 0.00595 0.00301 0.00595 0.00301 0.00595 0.00301 0.00599 0.00301 0.00599 0.00301 0.00599 0.00301 0.00599 0.00310 0.00599 0.00313 0.0064624 0.04129 0.03317 0.02618 0.02124 0.01781 0.01529 0.01331 0.01169 0.01032 0.00195 0.00131 0.01169 0.01032 0.00195 0.00238	*** ONSITE	11:23:2 PAGE 5
** AERMOD - VERS  MODELOPTS: NNC   X-COORD (M)  3  83352.03  833552.03  838552.03  838752.03  838752.03  838452.03  838452.03  838452.03  838452.03  838452.03  838452.03  838452.03  838452.03  838252.03  838252.03  838352.03  838352.03  838352.03  838352.03  838352.03  838352.03  838352.03  838352.03  838352.03  838352.03  838452.03  838452.03  838452.03  838452.03  838452.03  838452.03  838452.03  838452.03	Y-COORD (M)  *** THE ANNUAL  Y-COORD (M)  3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771602.00 3771652.00 3771702.00 3771702.00 3771702.00 3771702.00 3771702.00 3771702.00	*** Echo Park Lake Re *** HRA - PM Diesel (  LT ELEV  AVERAGE CONCENTRATION INCLUDING SOURCE(S):   *** DISCRETE  ** CONC OF DPM  CONC	habilitation Unmitigated)  VALUES AVERAGED OVER SITE ,  CARTESIAN RECEPTOR POI  IN MICROGRAMS/M**3  X-COORD (M)	2 YEARS FOR  Y-COORD (M)	SOURCE GROUP:  ***  CONC  0.00982 0.01883 0.03573 0.05204 0.05565 0.04824 0.03786 0.02949 0.02373 0.01675 0.01411 0.01250 0.01092 0.00301 0.00595 0.00301 0.00595 0.00301 0.00595 0.00301 0.00599 0.00301 0.00599 0.00301 0.00599 0.00301 0.00599 0.00310 0.00599 0.00313 0.0064624 0.04129 0.03317 0.02618 0.02124 0.01781 0.01529 0.01331 0.01169 0.01032 0.00195 0.00131 0.01169 0.01032 0.00195 0.00238	*** ONSITE	04/20/1 11:23:2 PAGE 5

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*** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                   ** CONC OF DPM IN MICROGRAMS/M**3
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*** AERMOD - VERSION 07026 ***
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0.00295
0.00408
*** Echo Park Lake Rehabilitation
*** HRA - PM Diesel (Unmitigated)
**MODELOPTs:
                                                                                                                                                                                                              PAGE 57
                                             DFAULT ELEV
                             *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: ONSITE *** INCLUDING SOURCE(S): SITE ,
                                                                           *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                  ** CONC OF DPM IN MICROGRAMS/M**3
         X-COORD (M) Y-COORD (M)
                                  Y-COORD (M)

3771802.00

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3771802.00

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*** Echo Park Lake Rehabilitation

*** HRA - PM Diesel (Unmitigated)
**MODELOPTs:
                                                                                                                                                                                                              PAGE 58
                                              DFAULT ELEV
                              *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: ONSITE ***
INCLUDING SOURCE(S): SITE ,
                                                                           *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                   ** CONC OF DPM IN MICROGRAMS/M**3
         X-COORD (M) Y-COORD (M)
                                                               CONC
                                                                                                                X-COORD (M) Y-COORD (M)
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*** AERMOD - VERSION 07026 ***
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*** Echo Park Lake Rehabilitation

*** HRA - PM Diesel (Unmitigated)
                                                                                                                                                                                                          04/20/10
                                                                                                                                                                                                           11:23:25
**MODELOPTs:
                                             DFAULT ELEV
                              *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: HAULIDLE ***
HAULIDLE,
                                                                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                 ** CONC OF DPM IN MICROGRAMS/M**3
                                                                                                               X-COORD (M) Y-COORD (M) CONC

383792.56 3770989.25 0.00028

382752.03 3769952.00 0.00000

382852.03 3769952.00 0.00000

382952.03 3769952.00 0.00000

383052.03 3769952.00 0.00000

3831052.03 3769952.00 0.00000
         X-COORD (M) Y-COORD (M) CONC
383660.97 3771329.50 0.00029
383667.38 3770537.25 0.00001
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*** AERMOD - VERSION 07026 ***
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                                                           *** Echo Park Lake Rehabilitation
                                                           *** HRA - PM Diesel (Unmitigated)
                                                                                                                                                                                                           11:23:25
**MODELOPTs:
                                             DEAULT ELEV
                            *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: HAULIDLE ***
HAULIDLE,
                                                                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                 ** CONC OF DPM IN MICROGRAMS/M**3
        X-COORD (M) Y-COORD (M) CONC X-COORD (M) Y-COORD (M) CONC

384602.03 3770002.00 0.00000 384652.03 3770052.00 0.00000
384702.03 3770052.00 0.00000 382752.03 3770052.00 0.00000
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 *** AERMOD - VERSION 07026 ***
                                                        *** Echo Park Lake Rehabilitation
*** HRA - PM Diesel (Unmitigated)
                                                                                                                                                                                                  04/20/10
                                                                                                                                                                                                   11:23:25
**MODELOPTs:
                                            DFAULT ELEV
                            *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: HAULIDLE *** HAULIDLE,
                                                                     *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                                                          X-COORD (M) Y-COORD (M) CONC

384652.03 3770102.00 0.000
382752.03 3770152.00 0.000
382852.03 3770152.00 0.000
382952.03 3770152.00 0.000
383052.03 3770152.00 0.000
         X-COORD (M) Y-COORD (M)
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           -COORD (M) Y-COORD (M) CONC
384402.03 3770102.00 0.00000
382402.03 3770102.00 0.00000
382802.03 3770152.00 0.00000
382902.03 3770152.00 0.00000
383002.03 3770152.00 0.00000
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                                                         *** Echo Park Lake Rehabilitation
 *** AERMOD - VERSION 07026 ***
                                                                                                                                                                                                  04/20/10
                                                         *** HRA - PM Diesel (Unmitigated)
                                                                                                                                                                                                   11:23:25
**MODELOPTs:
                                           DFAULT ELEV
                            *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: HAULIDLE *** HAULIDLE,
                                                                     *** DISCRETE CARTESIAN RECEDTOR DOINTS ***
                                                              ** CONC OF DPM IN MICROGRAMS/M**3
                                                                                                          X-COORD (M) Y-COORD (M)

384652.03 3770252.00

382852.03 3770252.00

382952.03 3770252.00

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383152.03 3770252.00

383152.03 3770252.00
         X-COORD (M) Y-COORD (M) CONC

384602.03 3770202.00 0.00000
384702.03 3770202.00 0.00000
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                                                           *** Echo Park Lake Rehabilitation
*** HRA - PM Diesel (Unmitigated)
 *** AERMOD - VERSTON 07026 ***
                                                                                                                                                                                                          04/20/10
                             *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: HAULIDLE ***
                                                        INCLUDING SOURCE(S):
                                                                                                    HAULIDLE.
                                                                        *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                 ** CONC OF DPM IN MICROGRAMS/M**3
                                                                                                              CONC
        X-COORD (M) Y-COORD (M)
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                                                           *** HRA - PM Diesel (Unmitigated)
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                             *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: HAULIDLE *** HAULIDLE,
                                                                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                ** CONC OF DPM IN MICROGRAMS/M**3
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                                                           *** HRA - PM Diesel (Unmitigated)
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**MODELOPTs:
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CONC	DFAU	LT ELEV					
	*** THE ANNUAL	AVERAGE CONCENTRATION	VALUES AVERAGED OVER	2 YEARS FOR	SOURCE GROUP:	HAULIDLE	***
		<pre>INCLUDING SOURCE(S):</pre>					
		*** DISCRETE	CARTESIAN RECEPTOR POI	NTS ***			
		** CONC OF DPM	IN MICROGRAMS/M**3		**		
	Y-COORD (M)		X-COORD (M)				
384602.03		0.00000	384652.03	3770502.00	0.00000		
384702.03 382802.03		0.00000	382752.03 382852.03	3770552.00 3770552.00	0.00000		
382902.03	3770552.00 3770552.00	0.00000 0.00001	382952.03	3770552.00 3770552.00	0.00000		
383102.03	3770552.00	0.00001	383152.03	3770552.00	0.00001		
383302.03	3770552.00 3770552.00	0.00001 0.00001		3770552.00 3770552.00	0.00001		
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383602.03	3770552.00	0.00002	383652.03	3770552.00	0.00002		
383702.03 383802.03	3770552.00	0.00001 0.00001	383752.03 383852.03	3770552.00 3770552.00	0.00000		
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384302.03	3770552.00	0.00000	384352.03	3770552.00	0.00000		
384402.03 384502.03		0.00000	384452.03 384552.03	3770552.00 3770552.00	0.00000		
384602.03 384702.03	3770552.00 3770552.00	0.00000	384652.03 382752.03	3770552.00 3770602.00	0.00000		
382802.03	3770602.00 3770602.00	0.00000	382852.03	3770602.00 3770602.00	0.00000		
383002.03	3770602.00	0.00001	383052.03	3770602.00	0.00001		
383102.03 383202.03	3770602.00 3770602.00	0.00001 0.00001	383152.03 383252.03	3770602.00 3770602.00			
383302.03 383402.03		0.00001 0.00002	383352.03 383452.03	3770602.00 3770602.00	0.00002		
383502.03	3770602.00	0.00003	383552.03	3770602.00	0.00003		
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384002.03	3770602.00 3770602.00	0.00000	384052.03	3770602.00 3770602.00	0.00000		
384202.03	3770602.00	0.00000	384252.03	3770602.00	0.00000		
384302.03 384402.03	3770602.00	0.00000	384352.03 384452.03	3770602.00 3770602.00	0.00000		
384502.03 *** AERMOD - VER	3770602.00 RSION 07026 ***	0.00000 *** Echo Park Lake Re	384552.03 habilitation	3770602.00	0.00000	***	04/20/10
**MODELOPTs:		*** HRA - PM Diesel (	Unmitigated)			***	11:23:25 PAGE 66
CONC	DFAU	LT ELEV					11102 00
	*** THE ANNUAL	AVERAGE CONCENTRATION	VALUES AVERAGED OVER	2 VEARS FOR	SOURCE GROUP:	HAULIDLE	***
			VILLOUD IIV DIGIOUD OV DIC	E ILIMO ION			
		INCLUDING SOURCE(S):	HAULIDLE,				
		INCLUDING SOURCE(S):	HAULIDLE,  CARTESIAN RECEPTOR POI				
		INCLUDING SOURCE(S):	HAULIDLE, CARTESIAN RECEPTOR POI		**		
	Y-COORD (M)	INCLUDING SOURCE(S):  *** DISCRETE  ** CONC OF DPM  CONC	HAULIDLE,  CARTESIAN RECEPTOR POI  IN MICROGRAMS/M**3  X-COORD (M)	Y-COORD (M)	** CONC		
384602.03	Y-COORD (M)	*** DISCRETE  *** CONC OF DPM  CONC	HAULIDLE,  CARTESIAN RECEPTOR POI  IN MICROGRAMS/M**3  X-COORD (M)  384652.03	Y-COORD (M)	** CONC 		
384602.03 384702.03 382802.03	Y-COORD (M) 3 3770602.00 3 3770652.00	*** DISCRETE  *** CONC OF DPM  CONC  0.00000 0.00000 0.00000	HAULIDLE,  CARTESIAN RECEPTOR POI  IN MICROGRAMS/M**3  X-COORD (M)  384652.03 382752.03 382852.03	Y-COORD (M) 3770602.00 3770652.00	**		
384602.03 384702.03 382802.03 382902.03	Y-COORD (M) 3 3770602.00 3 3770602.00	*** DISCRETE  ** CONC OF DPM  CONC  0.00000 0.00000 0.00000 0.00000 0.00000	HAULIDLE,  CARTESIAN RECEPTOR POI  IN MICROGRAMS/M**3  X-COORD (M)  384652.03 382752.03 382852.03 382952.03	Y-COORD (M) 3770602.00	** CONC 0.00000 0.00000 0.00000 0.00000		
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<sup>\*\*\*</sup> DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

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** CONC OF DPM
                                                                                                IN MICROGRAMS/M**3
         X-COORD (M) Y-COORD (M)
                                                                 CONC
                                                                                                              X-COORD (M) Y-COORD (M)
                                                                                                                                                                       CONC
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                                                                                                                   382902.03 3770752.00
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                                                                                                                                                                       0.00000
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             383052.03
                                   3770752.00
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                                   3770752.00
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                                                          *** Echo Park Lake Rehabilitation
*** HRA - PM Diesel (Unmitigated)
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**MODELOPTs:
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                             *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: HAULIDLE *** HAULIDLE,
                                                                        *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                 ** CONC OF DPM IN MICROGRAMS/M**3
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                                                          *** Echo Park Lake Rehabilitation
*** HRA - PM Diesel (Unmitigated)
                             *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: HAULIDLE *** HAULIDLE,
                                                                        *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                 ** CONC OF DPM IN MICROGRAMS/M**3
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*** Echo Park Lake Rehabilitation

*** HRA - PM Diesel (Unmitigated)
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*** AERMOD - VERSION 07026 ***
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**MODELOPTs:
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                                          DFAULT ELEV
                          *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: HAULIDLE ***
INCLUDING SOURCE(S): HAULIDLE,
                                                                    *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                             ** CONC OF DPM IN MICROGRAMS/M**3
 X-COORD (M) Y-COORD (M) CONC

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*** Echo Park Lake Rehabilitation

*** HRA - PM Diesel (Unmitigated)
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*** AERMOD - VERSION 07026 ***
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                                          DFAULT ELEV
                           *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: HAULIDLE *** HAULIDLE,
                                                                    *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                            ** CONC OF DPM IN MICROGRAMS/M**3
       X-COORD (M) Y-COORD (M) CONC

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*** Echo Park Lake Rehabilitation
*** HRA - PM Diesel (Unmitigated)
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**MODELOPTs:
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CONC
                                           DFAULT ELEV
                             *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: HAULIDLE ***
THOUJIDING SOURCE(S): HAULIDLE
                                                                     *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                              ** CONC OF DPM IN MICROGRAMS/M**3
         X-COORD (M) Y-COORD (M) CONC

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*** Echo Park Lake Rehabilitation

*** HRA - PM Diesel (Unmitigated)
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MOD - VERSION 07026 ***
  *** AERMOD
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**MODELOPTs:
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CONC
                                           DFAULT ELEV
                           *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: HAULIDLE ***
HAULIDLE.
                                                                    *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                              ** CONC OF DPM IN MICROGRAMS/M**3
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*** AERMOD - VERSION 07026 ***
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*** Echo Park Lake Rehabilitation
*** HRA - PM Diesel (Unmitigated)
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**MODELOPTs:
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                                           DFAULT ELEV
                            *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: HAULIDLE *** HAULIDLE,
     X-COORD (M) Y-COORD (M) CONC

383352_03 3771502.00 0.00000
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                                                                        *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                ** CONC OF DPM IN MICROGRAMS/M**3
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*** Echo Park Lake Rehabilitation
*** HRA - PM Diesel (Unmitigated)
**MODELOPTs:
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                                            DFAULT ELEV
                            *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: HAULIDLE ***
                                                                         *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                               ** CONC OF DPM IN MICROGRAMS/M**3
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*** Echo Park Lake Rehabilitation
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*** AERMOD - VERSION 07026 ***
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                                                          *** HRA - PM Diesel (Unmitigated)
                                                                                                                                                                                                        11:23:25
**MODELOPTs:
                                            DFAULT ELEV
                            *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: HAULIDLE ***
INCLUDING SOURCE(S): HAULIDLE.
                                                      INCLUDING SOURCE(S):
                                                                                                  HAULIDLE,
                                                                         *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                ** CONC OF DPM IN MICROGRAMS/M**3
                                                                                                             X-COORD (M) Y-COORD (M) CONC

383402.03 3771702.00 0.00001
383502.03 3771702.00 0.00001
383602.03 3771702.00 0.00001
383702.03 3771702.00 0.00002
383802.03 3771702.00 0.00002
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*** AERMOD - VERSION 07026 ***
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                                                          *** Echo Park Lake Rehabilitation
*** HRA - PM Diesel (Unmitigated)
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**MODELOPTs:
                                            DEAULT ELEV
                             *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: HAULIDLE *** HAULIDLE,
                                                                         *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                                                             X-COORD (M) Y-COORD (M) CONC

383402.03 3771802.00 0.00000
383502.03 3771802.00 0.00001
383602.03 3771802.00 0.00001
383702.03 3771802.00 0.00001
                                                                ** CONC OF DPM IN MICROGRAMS/M**3
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*** AERMOD - VERSION 07026 ***
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*** Echo Park Lake Rehabilitation
*** HRA - PM Diesel (Unmitigated)
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**MODELOPTs:
                                                                        DFAULT ELEV
                                                  *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: HAULIDLE ***
HAULIDLE,
                                                                                                                      *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                                                            ** CONC OF DPM IN MICROGRAMS/M**3
                                                                                                                                                                                        X-COORD (M) Y-COORD (M) CONC

383402.03 3771902.00 0.00000
383502.03 3771902.00 0.00001
383602.03 3771902.00 0.00001
383702.03 3771902.00 0.00001
383802.03 3771902.00 0.00001
              X-COORD (M) Y-COORD (M) CONC

383352.03 3771902.00 0.00000

383452.03 3771902.00 0.00000
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*** Echo Park Lake Rehabilitation
*** HRA - PM Diesel (Unmitigated)
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**MODELOPTs:
                       *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: HAULROUT *** INCLUDING SOURCE(S): L0000001, L0000002, L0000003, L0000004, L0000005, L0000006, L0000007, L0000002, L0000011, L0000002, L0000012, L0000012, L0000013, L0000014, L0000014, L0000014, L0000014, L0000014, L0000015, L0000017, L0000018, L0000018
                                                                                                                         *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                                                              ** CONC OF DPM IN MICROGRAMS/M**3
             X-COORD (M) Y-COORD (M) CONC X

383660.97 3771329.50 0.00105
383667.38 3770537.25 0.01448
382802.03 3769952.00 0.00024
382802.03 3769952.00 0.00029
383002.03 3769952.00 0.00035
383102.03 3769952.00 0.00039
383202.03 3769952.00 0.00039
383302.03 3769952.00 0.00039
383302.03 3769952.00 0.00039
383502.03 3769952.00 0.00029
383502.03 3769952.00 0.00029
383502.03 3769952.00 0.00029
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382752.03 3769952.00 0.00022
382852.03 3769952.00 0.00023
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*** AERMOD - VERSION 07026 ***
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                                                                                                 *** Echo Park Lake Rehabilitation

*** HRA - PM Diesel (Unmitigated)
                      *** THE ANNUAL AVERAGE CONCENTRATION INCLUDING SOURCE(S): L0000001, L0000002, L0000004, L0000005, L0000006, L0000001, L0000001, L0000001, L0000001, L0000001, L0000001, L0000001, L0000001, L0000001, L000001, L00
                                                                                                                          *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                                                              ** CONC OF DPM IN MICROGRAMS/M**3
               X-COORD (M) Y-COORD (M)
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*** Echo Park Lake Rehabilitation

*** HRA - PM Diesel (Unmitigated)
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**MODELOPTs:
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                        *** THE ANNUAL AVERAGE CONCENTRATION LOUGHOUS, LOUGHOUS,
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*** AERMOD - VERSION 07026 ***
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                                                                                                    *** Echo Park Lake Rehabilitation
                                                                                                     *** HRA - PM Diesel (Unmitigated)
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**MODELOPTs:
                                                                            DFAULT ELEV
                       *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: HAULROUT *** INCLUDING SOURCE(S): L0000001, L0000002, L0000003, L0000004, L0000005, L0000006, L0000007, L0000008, L0000001, L0000011, L0000012, L0000012, L0000013, L0000014, L0000018, L0000017, L0000018, L0000018
                                                                                                                             *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                                                               ** CONC OF DPM IN MICROGRAMS/M**3
X-COORD (M) Y-COORD (M) CONC X-COORD (M) Y-COORD (M) CONC 384602.03 3770202.00 0.00009 384652.03 3770202.00 0.00000
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*** Echo Park Lake Rehabilitation
*** HRA - PM Diesel (Unmitigated)
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MOD - VERSION 07026 ***
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 *** AERMOD
**MODELOPTs:
                                                                                                                                                                                                                                                                                PAGE 83
                                                            DFAULT ELEV
                  *** THE ANNUAL AVERAGE CONCENTRATION UALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: HAULROUT *** L0000008, L0000009, L0000009, L0000011, L00000012, L0000001, L00000014, L00000015, L00000017, L0000018, L0000019, L00000020, L0000021, L0000022, L0000023, L0000024, L0000025, L0000026, L0000027, L0000028, L0000029, L0000030, . . . ,
                                                                                                  *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                                        ** CONC OF DPM IN MICROGRAMS/M**3
           X-COORD (M) Y-COORD (M) CONC

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*** Echo Park Lake Rehabilitation
*** HRA - PM Diesel (Unmitigated)
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*** AERMOD - VERSION 07026 ***
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**MODELOPTs:
                                                            DFAULT ELEV
                  *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: HAULROUT *** INCLUDING SOURCE(S): L0000001, L0000002, L0000003, L0000004, L0000005, L0000006, L0000007, L0000002, L000001, L0000011, L0000012, L0000013, L0000014, L0000015, L0000013, L0000014, L0000015, L0000017, L0000018, L0000017, L0000018, L0000017, L0000018, L0000018,
                                                                                                 *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                                      ** CONC OF DPM IN MICROGRAMS/M**3

        X-COORD (M)
        Y-COORD (M)
        CONC
        X-COORD (M)
        Y-COORD (M)
        CONC

        384602.03
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        384652.03
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        384702.03
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*** AERMOD - VERSION 07026 ***
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                                                                                  *** Echo Park Lake Rehabilitation
*** HRA - PM Diesel (Unmitigated)
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PAGE 85
                    *** THE ANNUAL AVERAGE CONCENTRATION LOUGHOUS, LOUGHOUS,
                                                                                                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                                           ** CONC OF DPM IN MICROGRAMS/M**3
X-COORD (M) Y-COORD (M) CONC

384602.03 3770502.00 0.00015
384702.03 3770552.00 0.00012
382802.03 3770552.00 0.00027
382902.03 3770552.00 0.00035
383002.03 3770552.00 0.00047
383102.03 3770552.00 0.00068
383202.03 3770552.00 0.00068
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*** Echo Park Lake Rehabilitation
*** HRA - PM Diesel (Unmitigated)
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                    *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: HAULROUT *** INCLUDING SOURCE(S): L0000001, L0000001, L0000002, L0000004, L0000005, L0000006, L0000007, L0000001, L0000011, L0000012, L0000013, L0000014, L0000015, L0000014, L0000015, L0000014, L0000015, L0000017, L0000018, L0000019, L0000020, L0000021, L0000022, L0000023, L0000024, L0000025, L0000026, L0000027, L0000028, L0000029, L0000030, . . . ,
                                                                                                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                                          ** CONC OF DPM IN MICROGRAMS/M**3
             X-COORD (M) Y-COORD (M) CONC X-COORD (M) Y-COORD (M) CONC 384602.03 3770602.00 0.00018 384752.03 3770602.00 0.00012 382752.03 3770652.00 0.00022 382802.03 3770652.00 0.00022 382802.03 3770652.00 0.00028 382952.03 3770652.00 0.00031 382952.03 3770652.00 0.00036 383002.03 3770652.00 0.00042 383052.03 3770652.00 0.00050
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*** AERMOD - VERSION 07026 ***
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                                                                                                                             *** Echo Park Lake Rehabilitation
                                                                                                                             *** HRA - PM Diesel (Unmitigated)
                                                                                                                                                                                                                                                                                                                                                                                                                                                11:23:25
**MODELOPTs:
                                                                                                 DFAULT ELEV
                              *** THE ANNUAL AVERAGE CONCENTRATION INCLUDING SOURCE(S): L0000001, L0000002, L0000003, L0000004, L0000005, L0000006, L0000007, L0000002, L000001, L0000012, L0000013, L0000014, L0000015, L0000016, L0000017, L0000018, L0000018, L0000018, L0000018, L0000019, L0000018, L0000018,
                                                                                                                                                             *** DISCRETE CARTESIAN RECEPTOR POINTS ***
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383002.03 3770752.00 

383102.03 3770752.00 

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*** AERMOD - VERSION 07026 ***
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*** Echo Park Lake Rehabilitation

*** HRA - PM Diesel (Unmitigated)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                 11:23:25
PAGE 88
                             *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: HAULROUT *** L00000018, L00000019, L00000010, L00000011, L00000012, L00000013, L00000014, L00000015, L00000015, L00000017, L00000018, L00000019, L0000019, L0000011, L0000012, L0000012, L0000012, L0000012, L0000013, L0000013, L0000013, L0000014, L0000014, L0000015, L0000015, L0000015, L0000017, L0000018, L0000018, L0000018, L0000018, L0000019, L0000018, L000001
                                                                                                                                                             *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                                                                                           ** CONC OF DPM IN MICROGRAMS/M**3
                 X-COORD (M) Y-COORD (M) CONC X

383252.03 3770852.00 0.00072
383352.03 3770852.00 0.00122
383452.03 3770852.00 0.00254
383552.03 3770852.00 0.00582
383852.03 3770852.00 0.01195
383952.03 3770852.00 0.01195
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*** AERMOD - VERSION 07026 ***
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                                                                                                         *** Echo Park Lake Rehabilitation
*** HRA - PM Diesel (Unmitigated)
                                                                                                                                                                                                                                                                                                                                                                        11:23:25
 **MODELOPTs:
                                                                                                                                                                                                                                                                                                                                                                        PAGE 89
CONC
                                                                                 DFAULT ELEV
                          *** THE ANNUAL AVERAGE CONCENTRATION DISCUSSION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: HAULROUT *** L00000018, L00000019, L00000019, L00000011, L00000012, L00000012, L00000013, L00000014, L00000015, L00000016, L00000017, L00000018, L00000019, L0000019, L00000019, L0000019, L000
                                                                                                                                    *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                                                                    ** CONC OF DPM IN MICROGRAMS/M**3
                X-COORD (M) Y-COORD (M) CONC

383852.03 3770952.00 0.00181
383952.03 3770952.00 0.00227
384152.03 3770952.00 0.00141
384252.03 3770952.00 0.00968
384352.03 3770952.00 0.00068
384352.03 3770952.00 0.00068
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383902.03 3770952.00 0.006
384002.03 3770952.00 0.001
384102.03 3770952.00 0.001
384202.03 3770952.00 0.001
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*** AERMOD - VERSION 07026 ***
                                                                                                         *** Echo Park Lake Rehabilitation
*** HRA - PM Diesel (Unmitigated)
                                                                                                                                                                                                                                                                                                                                                                        11:23:25
  **MODELOPTs:
                                                                                DFAULT ELEV
                          *** THE ANNUAL AVERAGE CONCENTRATION DICTURE 1 VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: HAULROUT *** INCLUDING SOURCE(S): L0000001, L000001, L000001
                                                                                                                                    *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                                                                   ** CONC OF DPM IN MICROGRAMS/M**3
                  X-COORD (M) Y-COORD (M) CONC

384302.03 3771052.00 0.00079

384402.03 3771052.00 0.00059
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   *** AERMOD - VERSION 07026 ***
                                                                                                    *** Echo Park Lake Rehabilitation
*** HRA - PM Diesel (Unmitigated)
CONC
                                                                              DFAULT ELEV
                         *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: HAULROUT ***

INCLUDING SOURCE(S): L0000001, L00000012, L0000002, L0000004, L0000005, L0000006, L0000007, L00000018, L00000019, L00000019, L00000019, L00000019, L00000011, L00000011, L00000012, L0000011, L000011, L0000111, L0000111, L0000011, L0000111, L0000111, L0000111, L0000111, L0000111, L0000111, L00000111, L0000111, L0000111
                                                                                                                             *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                                                               ** CONC OF DPM IN MICROGRAMS/M**3
                 X-COORD (M) Y-COORD (M)

382902.03 3771202.00

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*** Echo Park Lake Rehabilitation
*** HRA - PM Diesel (Unmitigated)
                        383152.03 3771302.00
MOD - VERSION 07026 ***
   *** AERMOD
 **MODELOPTs:
                                                                                                                                                                                                                                                                                                                                                      PAGE 92
CONC
                                                                              DFAULT ELEV
                         *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: HAULROUT *** L0000008, L0000009, L0000001, L0000018, L00000019, L00000019, L0000001, L00000011, L0000012, L0000013, L0000014, L0000018, L0000019, L0000018, L0000018, L0000018, L0000019, L0000018, L0000019, L0000018, L00000
                                                                                                                             *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                                                               ** CONC OF DPM IN MICROGRAMS/M**3
                                                        Y-COORD (M) CONC

3771302.00 0.00024
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3771302.00 0.00081
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383302.03 3771302.00 0.00028
383402.03 3771302.00 0.00040
                 X-COORD (M) Y-COORD (M)
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                                                                                                      *** Echo Park Lake Rehabilitation

*** HRA - PM Diesel (Unmitigated)
*** AERMOD - VERSION 07026 ***
                                                                                                                                                                                                                                                                                                                                                                      04/20/10
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                      *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: HAULROUT *** L0000008, L0000009, L0000001, L000001, L00000
                                                                                                                               *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                                                                  ** CONC OF DPM IN MICROGRAMS/M**3
            X-COORD (M) Y-COORD (M) CONC

383352.03 3771402.00 0.00027
383452.03 3771402.00 0.00039
383552.03 3771402.00 0.00053
383652.03 3771402.00 0.0005
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*** HRA - PM Diesel (Unmitigated)
*** AERMOD - VERSION 07026 ***
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PAGE 94
                      *** THE ANNUAL AVERAGE CONCENTRATION INCLUDING SOURCE(S): L0000001, L0000002, L0000003, L0000004, L0000005, L0000006, L00000007, L0000001, L0000001, L0000001, L0000001, L0000001, L0000001, L0000001, L0000001, L0000001, L000001, 
                                                                                                                               *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                                                                  ** CONC OF DPM IN MICROGRAMS/M**3
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*** AERMOD - VERSION 07026 ***
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*** Echo Park Lake Rehabilitation
*** HRA - PM Diesel (Unmitigated)
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**MODELOPTs:
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                                                                                                 DFAULT ELEV
                              *** THE ANNUAL AVERAGE CONCENTRATION DICTURE 1 VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: HAULROUT *** INCLUDING SOURCE(S): L0000001, L000001, L000001
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*** AERMOD - VERSION 07026 ***
                                                                                                                              *** Echo Park Lake Rehabilitation

*** HRA - PM Diesel (Unmitigated)
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**MODELOPTs:
                                                                                                 DFAULT ELEV
                             *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: HAULROUT *** INCLUDING SOURCE(S): L0000001, L0000002, L00000013, L0000004, L00000015, L00000016, L00000017, L00000017, L00000018, L00000017, L00000018, L00000017, L00000017, L0000018, L00000017, L0000018, L000001
                                                                                                                                                            *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                                                                                         ** CONC OF DPM IN MICROGRAMS/M**3
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*** Echo Park Lake Rehabilitation

*** HRA - PM Diesel (Unmitigated)
  383252.03 3771802.00
*** AERMOD - VERSION 07026 ***
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11:23:25
PAGE 97
**MODELOPTs:
                                                                                  DFAULT ELEV
                          *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: HAULROUT *** L0000008, L0000009, L0000009, L0000001, L000001, L0000001, L0000001, L0000001, L0000001, L0000001, L0000001, L0000001, L0000001, L0000001, L000001, L000001, L000001, L0000001, L000001, L000001,
          X-COORD (M) Y-COORD (M) CONC

383352.03 3771802.00 0.00016
383452.03 3771802.00 0.00027
383552.03 3771802.00 0.00027
383652.03 3771802.00 0.00044
383752.03 3771802.00 0.00044
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                                                                                                                     ** CONC OF DPM IN MICROGRAMS/M**3
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383402.03 3771802.00 0.00018

383502.03 3771802.00 0.00024

383602.03 3771802.00 0.00031

383702.03 3771802.00 0.00031
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*** AERMOD - VERSION 07026 ***
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*** Echo Park Lake Rehabilitation
*** HRA - PM Diesel (Unmitigated)
**MODELOPTs:
                                                                                                                                                                                                                                                                                                                                                                                 PAGE 98
                                                                                 DFAULT ELEV
                          *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: HAULROUT *** L0000008, L0000009, L0000009, L0000011, L0000012, L0000001, L00000012, L00000014, L00000015, L00000017, L0000018, L0000019, L0000019, L0000019, L0000011, L0000011, L0000012, L0000011, L0000012, L0000013, L0000014, L0000018, L0000019, L0000018, L0000018, L0000019, L0000018, L0000
                                                                                                                                    *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                                                                    ** CONC OF DPM IN MICROGRAMS/M**3
                                                                                                                                                                                                        X-COORD (M) Y-COORD (M) CONC

383402.03 3771902.00 0.00016
383502.03 3771902.00 0.00021
383602.03 3771902.00 0.00027
383702.03 3771902.00 0.00034
383802.03 3771902.00 0.00040
383902.03 3771902.00 0.00043
384002.03 3771902.00 0.00043
                X-COORD (M) Y-COORD (M) CONC X
383352.03 3771902.00 0.00014
383452.03 3771902.00 0.00018
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*** AERMOD - VERSION 07026 ***
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*** Echo Park Lake Rehabilitation
*** HRA - PM Diesel (Unmitigated)
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\*\*MODELOPTs:

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DFAULT ELEV
CONC
                                        *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER
                                                                                                                                                                                        2 YEARS FOR SOURCE GROUP: ALL
                   THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): SITE , HAULIDLE, L0000001, L0000002, L0000003, L0000004, L0000005, L0000001, L0000012, L0000013, L0000014, L0000015, L0000015, L0000016, L0000018, L0000019, L0000020, L0000021, L0000022, L0000023, L0000024, L0000025, L0000026, L0000027, L0000028, . . . . ,
                                                                                                   *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                                         ** CONC OF DPM IN MICROGRAMS/M**3
                                                                                                                                                     X-COORD (M) Y-COORD (M)
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                   383602.03
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0.00273
*** Echo Park Lake Rehabilitation
*** HRA - PM Diesel (Unmitigated)
  384502.03 3770002.00
*** AERMOD - VERSION 07026 ***
 **MODELOPTs:
                                                                                                                                                                                                                                                                               PAGE 100
                                                             DFAULT ELEV
                   *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): SITE , HAULIDLE, L0000001, L0000002, L0000003, L0000004, L0000005, L0000001, L0000001, L0000001, L0000015, L0000016, L0000017, L0000018, L0000019, L0000019, L00000012, L00000012, L00000013, L0000014, L0000015, L0000016, L0000018, L0000019, L0000019, L00000012, L00000012, L00000013, L0000014, L0000018, L0000019, L0000019, L00000019, L0000019, L00000019, L0000019, L0
                                                                                                   *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                                       ** CONC OF DPM IN MICROGRAMS/M**3
             X-COORD (M) Y-COORD (M) CONC

384652.03 3770002.00 0.00188
382752.03 3770052.00 0.02979
382852.03 3770052.00 0.03475
                                                                             0.00202
0.00177
0.03227
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*** AERMOD - VERSION 07026 ***
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0.00243
*** Echo Park Lake Rehabilitation
*** HRA - PM Diesel (Unmitigated)
                                                                                                                                                           384452.03
384552.03
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 **MODELOPTs:
                                                                                                                                                                                                                                                                               PAGE 101
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DEAULT ELEV

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*** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): SITE , HAULIDLE, L0000001, L0000002, L0000003, L0000001, L0000001, L0000001, L0000001, L0000001, L0000001, L0000001, L0000001, L0000001, L000001, L0000001, L000001, L000
                                                                                                   *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                                       ** CONC OF DPM IN MICROGRAMS/M**3
          CONC
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                                            3770102.00
3770102.00
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*** AERMOD - VERSION 07026 ***
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*** Echo Park Lake Rehabilitation
*** HRA - PM Diesel (Unmitigated)
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                                                         DFAULT ELEV
                 *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): SITE , HAULIDLE, L0000001, L0000002, L0000003, L0000004, L0000005,
L0000006, L0000007, L0000008, L0000009, L0000001, L000001, L0000013, L0000014, L0000015, L0000016, L0000017, L0000018, L0000019, L0000024, L0000025, L0000026, L0000027, L0000028, ...,
                                                                                                  *** DISCRETE CARTESIAN RECEPTOR POINTS ***
        X-COORD (M) Y-COORD (M) CONC

384602.03 3770202.00 0.00332
384702.03 3770252.00 0.03055
382902.03 3770252.00 0.03795
3770252.00 0.03795
3770252.00 0.04638
0.05490
                                                                                     ** CONC OF DPM IN MICROGRAMS/M**3
                                                                                                                                                    X-COORD (M) Y-COORD (M) CONC

384652.03 3770202.00 0.00221
382752.03 3770252.00 0.03409
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                                                                             *** Echo Park Lake Rehabilitation
*** HRA - PM Diesel (Unmitigated)
*** AERMOD - VERSION 07026 ***
                                                                                                                                                                                                                                                                                 04/20/10
                                                         DFAULT ELEV
                                     *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): SITE , HAULIDLE, L0000001, L0000002, L0000003, L0000004, L0000005,
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L0000006, L0000007, L0000008, L0000009, L0000010, L0000011, L0000012, L0000013, L0000014, L0000015, L0000016, L0000017, L0000018, L0000019, L0000020, L0000021, L0000022, L0000023, L0000024, L0000025, L0000026, L0000027, L0000028, . . . ,
                                                                              *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                     ** CONC OF DPM IN MICROGRAMS/M**3
                                                                                                                     X-COORD (M) Y-COORD (M) (
384652.03 3770352.00 (
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              383902.03
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                                                             *** Echo Park Lake Rehabilitation

*** HRA - PM Diesel (Unmitigated)
 *** AERMOD - VERSION 07026 ***
                                                                                                                                                                                                                      04/20/10
                                                                                                                                                                                                                       11:23:25
**MODELOPTs:
                                               DFAULT ELEV
              *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): SITE , HAULIDLE, L0000001, L0000002, L0000003, L0000004, L00000015, L00000015, L00000017, L00000018, L0000019, L00000019, L00000012, L00000012, L00000012, L0000013, L0000014, L0000015, L0000016, L0000017, L0000018, L0000019, L00000019, L00000012, L00000022, L00000023, L0000024, L0000025, L0000026, L0000027, L0000028, . . . ,
                                                                              *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                   ** CONC OF DPM IN MICROGRAMS/M**3
         X-COORD (M) Y-COORD (M) CONC :

384602.03 3770402.00 0.00303
384702.03 3770402.00 0.00278
382802.03 3770452.00 0.02530
382902.03 3770452.00 0.03523
                                                                                                                     X-COORD (M) Y-COORD (M) (384652.03 3770402.00 382752.03 3770452.00 382852.03 3770452.00 382852.03 3770452.00
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0.07546
              383002.03
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              383102.03
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              383302.03
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*** AERMOD - VERSION 07026 ***
                                                                      0.00407
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                                                              *** Echo Park Lake Rehabilitation
*** HRA - PM Diesel (Unmitigated)
                                                                                                                                                                                                                      04/20/10
               *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): SITE , HAULIDLE, L0000001, L0000002, L0000003, L0000004, L0000005,
L0000007, L0000008, L0000009, L0000001, L0000011, L0000012, L0000013, L0000014, L0000015, L0000016, L0000017,
L0000018, L0000019, L0000020, L0000021, L0000023, L0000024, L0000025, L0000026, L0000027, L0000028, . . . ,
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\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\* \*\* CONC OF DPM IN MICROGRAMS/M\*\*3 3770502.00 384602.03 3770502.00 0.00329 382802.03 3770552.00 0.02203 382852.03 3770552.00 0.02536 0.02203 0.02937 0.04002 0.05525 0.07640 0.10450 3770552.00 3770552.00 3770552.00 3770552.00 3770552.00 3770552.00 3770552.00 0.02536 0.03420 0.04698 0.06501 0.08953 383002.03 383102.03 383202.03 383052.03 383152.03 383252.03 3770552.00 3770552.00 383302.03 383352.03 0.12141 383402.03 3770552.00 0.14077 383452.03 3770552.00 0.16478 0.14077 0.19427 0.19059 0.09880 0.03332 0.01869 0.01305 383502.03 3770552.00 383552.03 3770552.00 0.22741 3770552.00 3770552.00 3770552.00 3770552.00 3770552.00 3770552.00 383652.03 383752.03 383752.03 383602 03 383902.03 384002.03 383952.03 384052.03 0.01128 384102.03 3770552.00 0.00986 384152.03 3770552.00 0.00870 0.00986 0.00774 0.00626 0.00526 0.00456 0.00404 0.00361 384152.03 384252.03 384352.03 384452.03 384552.03 384652.03 3770552.00 3770552.00 3770552.00 3770552.00 3770552.00 3770552.00 384202.03 3770552.00 0.00693 384302.03 384402.03 384502.03 384602.03 3770552.00 3770552.00 3770552.00 3770552.00 0.00693 0.00571 0.00488 0.00429 0.00382 3770552.00 3770602.00 384702.03 0.01784 382802.03 3770602.00 0.02038 382852.03 3770602.00 0.02348 382902.03 3770602.00 0.02725 382952.03 3770602.00 0.03185 383002.03 383102.03 383202.03 3770602.00 3770602.00 3770602.00 3770602.00 0.02723 0.03749 0.05272 0.07496 0.10665 383052.03 383152.03 383252.03 3770602.00 3770602.00 3770602.00 0.04436 0.06282 0.08945 383302.03 383352.03 0.12715 383402.03 3770602.00 0.15263 383452.03 3770602.00 0.19518 383502.03 3770602.00 0.28111 383552.03 3770602.00 0.29212 383602.03 3770602.00 0.28101 383652.03 3770602.00 0.24922 383702.03 383802.03 383902.03 384002.03 0.19049 0.05365 0.02579 383752.03 383852.03 383952.03 384052.03 3770602.00 3770602.00 3770602.00 0.11642 0.03461 0.02044 3770602.00 3770602.00 3770602.00 0.01680 0.01414 384102.03 3770602.00 0.01209 384152.03 3770602.00 0.01048 384202.03 3770602.00 0.00919 384252.03 3770602.00 0.00814 0.00730 0.00606 0.00519 384302 03 384352 03 0.00662 384302.03 3770602.00 384402.03 3770602.00 384502.03 3770602.00 \*\*\* AERMOD - VERSION 07026 \*\*\* \*\*\* Echo Park Lake Rehabilitation \*\*\* HRA - PM Diesel (Unmitigated) \*\*MODELOPTs: PAGE 106 DFAULT ELEV \*\*\* THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: ALL \*\*\*

INCLUDING SOURCE(S): SITE , HAULIDLE, L0000001, L0000002, L0000003, L0000004, L00000015, L00000015, L00000017, L00000018, L0000019, L00000019, L00000012, L00000012, L00000012, L0000013, L0000014, L0000015, L0000016, L0000017, L0000018, L0000019, L00000019, L00000012, L00000022, L00000023, L0000024, L0000025, L0000026, L0000027, L0000028, . . . , \*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\* \*\* CONC OF DPM IN MICROGRAMS/M\*\*3 X-COORD (M) Y-COORD (M) (384652.03 3770652.00 382752.03 3770652.00 382852.03 3770652.00 CONC CONC 0.00453 3770602.00 0.00424 3770602.00 0.01645 3770652.00 3770652.00 3770652.00 3770652.00 0.01876 0.02507 0.03471 0.04955 382852.03 382952.03 383052.03 383152.03 3770652.00 3770652.00 3770652.00 3770652.00 0.02159 0.02937 0.04133 0.05972 382802.03 3770652.00 383202.03 0.07226 383252.03 3770652.00 0.08766 383302.03 3770652.00 0.10654 383352.03 383452.03 3770652.00 0.12980 383402.03 3770652.00 3770652 00 0.20167 0.15939 0.28750 0.40208 0.42413 0.06180 0.02934 383502.03 383602.03 383702.03 383852.03 3770652.00 3770652.00 3770652.00 3770652.00 383552.03 383652.03 383802.03 383902.03 3770652.00 3770652.00 3770652.00 3770652.00 0.38072 3770652.00 383952.03 384002.03 3770652.00 0.02284 384052.03 3770652.00 0.01847 384102.03 3770652.00 0.01534 0.01534 0.01119 0.00868 0.00708 0.00595 0.00510 384152.03 3770652.00 0.01299 384202.03 3770652.00 3770652.00 3770652.00 3770652.00 3770652.00 0.01299 0.00979 0.00780 0.00647 0.00550 384302.03 384402.03 384502.03 384602.03 3770652.00 3770652.00 3770652.00 3770652.00 3770652.00 0.00474 3770652.00 384652.03 384702.03 0.00442 382752.03 3770702.00 0.01511 382802.03 3770702.00 0.01719 382852.03 3770702.00 0.01973 382902.03 3770702.00 0.02289 0.02683 0.03799 0.05582 0.08425 383002.03 383102.03 383202.03 382952.03 383252.03 3770702.00 383302.03 3770702.00 0.10423 383352.03 3770702.00 0.12951 383402.03 3770702.00 0.16223 383452.03 3770702.00 0.20711 383502.03 3770702.00 0.27551 3770702.00 3770702.00 3770702.00 3770702.00 3770702.00 383502.03 383802.03 383902.03 384002.03 384102.03 384202.03 3770702.00 3770702.00 3770702.00 3770702.00 3770702.00 3770702.00 0.39367 0.10465 0.04223 0.02437 0.24527 0.06179 0.03128 0.01966 383552.03 383552.03 383852.03 383952.03 384052.03 384152.03 384252.03 0.01629 0.01379 3770702.00 0.01190 384302.03 3770702.00 0.01043 384352.03 3770702.00 0.00927 384402.03 3770702.00 0.00832 384452.03 3770702.00 0.00753 384502.03 3770702.00 0.00685 384552.03 3770702.00 384552.03 3770702.00 384652.03 3770702.00 382752.03 3770752.00 \*\*\* AERMOD - VERSION 07026 \*\*\* 0.00753 0.00627 0.00531 0.01385 \*\*\* Echo Park Lake Rehabilitation \*\*\* HRA - PM Diesel (Unmitigated) 04/20/10 11:23:25 \*\*MODELOPTs: PAGE 107 DFAULT ELEV \*\*\* THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: ALL \*\*\*
INCLUDING SOURCE(S): SITE , HAULIDLE, L0000001, L0000002, L0000003, L0000004, L0000005,
L0000007, L0000008, L0000009, L0000001, L0000011, L0000012, L0000013, L0000014, L0000015, L0000016, L0000017,
L0000018, L0000019, L0000020, L0000021, L0000023, L0000024, L0000025, L0000026, L0000027, L0000028, . . . ,

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** CONC OF DPM
                                                                                                                                    IN MICROGRAMS/M**3
            X-COORD (M) Y-COORD (M)
                                                                                        CONC
                                                                                                                                                       X-COORD (M) Y-COORD (M)
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*** AERMOD - VERSION 07026 ***
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                                                                                *** Echo Park Lake Rehabilitation
*** HRA - PM Diesel (Unmitigated)
                                                                                                                                                                                                                                                                                 04/20/10
**MODELOPTs:
                   *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): SITE , HAULIDLE, L0000001, L0000002, L0000003, L0000004, L00000015, L00000015, L00000016, L00000017, L0000018, L00000019, L00000019, L00000011, L0000012, L0000012, L0000013, L0000014, L0000015, L0000016, L0000018, L0000019, L0000019, L0000021, L0000022, L0000023, L0000024, L0000025, L0000026, L0000027, L0000028, ...,
                                                                                                   *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                                        ** CONC OF DPM IN MICROGRAMS/M**3
            X-COORD (M) Y-COORD (M)
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*** Echo Park Lake Rehabilitation

*** HRA - PM Diesel (Unmitigated)
**MODELOPTs:
                                                                                                                                                                                                                                                                                 PAGE 109
                                                              DFAULT ELEV
                                     *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER
                                                                                                                                                                                         2 YEARS FOR SOURCE GROUP: ALL
                   INCLUDING SOURCE(S): SITE , HAULIDLE, L000001, L0000012, L0000013, L0000016, L0000019, L0000019, L0000001, L0000011, L0000012, L0000013, L0000014, L0000015, L0000017, L0000018, L0000019, L0000011, L0000012, L0000013, L0000014, L0000015, L0000018, L0000019, L0000019, L0000011, L0000012, L0000013, L0000014, L0000015, L0000015, L0000018, L0000019, L0000019, L0000019, L0000019, L00000019, L0000019, L0000019
                                                                                                     *** DISCRETE CARTESIAN RECEPTOR POINTS ***
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\*\* CONC OF DDM IN MICROGRAMS/M\*\*3

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X-COORD (M) Y-COORD (M)
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                                                                                                 *** Echo Park Lake Rehabilitation
*** HRA - PM Diesel (Unmitigated)
  *** AERMOD - VERSION 07026 ***
                                                                                                                                                                                                                                                                                                                                            04/20/10
                                                                                                                                                                                                                                                                                                                                              11:23:25
**MODELOPTs:
CONC
                       *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): SITE , HAULIDLE, L0000001, L0000002, L0000003, L0000004, L00000016, L00000015, L0000016, L00000017, L0000018, L0000019, L0000019, L00000012, L00000012, L0000012, L0000013, L0000014, L0000015, L0000016, L0000018, L0000019, L0000019, L00000019, L0000019, L00
                                                                                                                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                                                             ** CONC OF DPM IN MICROGRAMS/M**3
                X-COORD (M) Y-COORD (M)
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                                                                                                 *** Echo Park Lake Rehabilitation
*** HRA - PM Diesel (Unmitigated)
  *** AERMOD - VERSION 07026 ***
                       *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): SITE , HAULIDLE, L0000001, L0000002, L0000003, L0000001, L00000015, L0000016, L0000017, L0000018, L0000019, L00000019, L00000012, L0000012, L0000012, L0000013, L0000014, L0000015, L0000016, L0000017, L0000018, L0000019, L0000019, L0000011, L0000012, L0000012, L0000013, L0000014, L0000015, L0000018, L0000019, L0000019, L0000011, L0
                                                                                                                         *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                                                             ** CONC OF DPM IN MICROGRAMS/M**3
                X-COORD (M) Y-COORD (M)
                                                                                                         CONC
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*** AERMOD - VERSION 07026 ***
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*** Echo Park Lake Rehabilitation

*** HRA - PM Diesel (Unmitigated)
                                                                                                                                                                                                                                                                                                                                                           11:23:25
**MODELOPTs:
                                                                             DEAHLT ELEV
                        *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): SITE , HAULIDLE, L0000001, L0000002, L0000003, L0000004, L00000015, L00000015, L00000017, L00000018, L0000019, L00000019, L00000012, L00000012, L00000012, L0000013, L0000014, L0000015, L0000016, L0000017, L0000018, L0000019, L00000019, L00000019, L00000012, L00000012, L00000013, L0000014, L0000018, L0000019, L0000019, L00000019, L0000019, L00000019, L00000019, L0000019, L0000019, L0000019, L00000019, L0000019, 
                                                                                                                             *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                                                                 ** CONC OF DPM IN MICROGRAMS/M**3
              X-COORD (M) Y-COORD (M) CONC

383252.03 3771302.00 0.01202
383352.03 3771302.00 0.01815
383452.03 3771302.00 0.03423
383552.03 3771302.00 0.1357
383752.03 3771302.00 0.43073
                                                                                                                                                                                              X-COORD (M) Y-COORD (M) CONC

383302.03 3771302.00 0.014

383402.03 3771302.00 0.055

383702.03 3771302.00 0.557

383702.03 3771302.00 0.547

383802.03 3771302.00 0.343
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383052.03 3771402.00

383152.03 3771402.00

383252.03 3771402.00

*** AERMOD - VERSION 07026 ***
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0.00389
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                                                                                                     *** Echo Park Lake Rehabilitation
                                                                                                                                                                                                                                                                                                                                                           04/20/10
                                                                                                      *** HRA - PM Diesel (Unmitigated)
                                                                                                                                                                                                                                                                                                                                                           11:23:25
**MODELOPTs:
                                                                             DFAULT ELEV
                       *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): SITE , HAULIDLE, L0000001, L0000002, L0000003, L0000004, L00000015, L00000017, L00000018, L00000019, L00000019, L00000012, L00000012, L0000012, L0000013, L0000014, L0000015, L0000016, L0000017, L0000018, L0000019, L0000019, L0000019, L0000012, L0000012, L0000013, L0000014, L0000016, L0000018, L0000019, L0000019, L0000019, L0000011, L0000019, L0000019
                                                                                                                              *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                                                               ** CONC OF DPM IN MICROGRAMS/M**3
X-COORD (M) Y-COORD (M) CONC X-COORD (M) Y-COORD (M) CONC
383352.03 3771402.00 0.01182 383402.03 3771402.00 0.0152
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383452.03
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383602.03
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              383552.03
                                     3771402.00
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0.15987
0.17065
0.13421
0.09038
0.06142
0.04428
              383652.03
                                     3771402.00
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              383752.03
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              383152.03
                                     3771502.00
                                                                     0.00475
                                                             0.00611

*** Echo Park Lake Rehabilitation

*** HRA - PM Diesel (Unmitigated)
              383252.03 3771502.00
MOD - VERSION 07026 ***
                                                                                                                           383302.03
                                                                                                                                                  3771502.00
                                                                                                                                                                                   0.00725
*** AERMOD -
**MODELOPTs:
                                                                                                                                                                                                                        PAGE 114
                                                DFAULT ELEV
               *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): SITE , HAULIDLE, L0000001, L0000002, L0000003, L00000015, L0000016, L0000017, L0000018, L00000019, L00000011, L0000012, L0000012, L0000012, L0000013, L0000014, L0000015, L0000016, L0000017, L0000018, L0000019, L0000020, L0000021, L0000022, L0000023, L0000024, L0000025, L0000026, L0000027, L0000028, . . . ,
                                                                              *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                     ** CONC OF DPM IN MICROGRAMS/M**3
         X-COORD (M) Y-COORD (M) CONC

383402.03 3771502.00 0.01173

383502.03 3771502.00 0.02416

383602.03 3771502.00 0.05522
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0.07343
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              384252.03
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*** AERMOD - VERSION 07026 ***
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                                                              0.00387
0.00506
*** Echo Park Lake Rehabilitation
*** HRA - PM Diesel (Unmitigated)
**MODELOPTs:
                                                DFAULT ELEV
              *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): SITE , HAULIDLE, L0000001, L0000002, L0000003, L0000004, L0000005, L0000001, L0000015, L0000016, L0000015, L0000016, L0000017, L0000018, L0000019, L0000019, L0000012, L0000012, L0000013, L0000014, L0000015, L0000016, L0000018, L0000018, L0000019, L0000002, L00000022, L00000023, L0000024, L0000026, L0000027, L0000028, . . . ,
                                                                             *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                    ** CONC OF DPM IN MICROGRAMS/M**3

        X-COORD (M)
        Y-COORD (M)
        CONC
        X-COORD (M)
        Y-COORD (M)
        CONC

        383352.03
        3771602.00
        0.00767
        383402.03
        3771602.00
        0.01005

        383452.03
        3771602.00
        0.01369
        383502.03
        3771602.00
        0.01915

        383552.03
        3771602.00
        0.02680
        383602.03
        3771602.00
        0.03616
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0.04549
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383802.03
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0.03392
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*** AERMOD - VERSION 07026 ***
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                                                                                                                                                                                                       0.00551
                                                                      *** Echo Park Lake Rehabilitation
*** HRA - PM Diesel (Unmitigated)
                                                                                                                                                                                                                                               04/20/10
                                                                                                                                                                                                                                               11:23:25
PAGE 116
                 *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): SITE , HAULIDLE, L0000001, L0000002, L0000003, L0000004, L00000015, L00000015, L0000016, L00000017, L0000018, L0000019, L00000020, L00000021, L00000022, L00000023, L0000014, L0000015, L0000016, L0000017, L0000018, L0000019, L0000020, L0000021, L0000022, L0000023, L0000024, L0000025, L0000026, L0000027, L0000028, ...,
                                                                                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                             ** CONC OF DPM IN MICROGRAMS/M**3
X-COORD (M) Y-COORD (M) CONC

383352.03 3771702.00 0.00690
383452.03 3771702.00 0.01174
383552.03 3771702.00 0.03195
383652.03 3771702.00 0.03195
383752.03 3771702.00 0.03929
383852.03 3771702.00 0.03890
                                                                                                                                   X-COORD (M) Y-COORD (M) CONC

383402.03 3771702.00 0.015

383502.03 3771702.00 0.015

383602.03 3771702.00 0.026
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384102.03
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                 384352.03
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                 384452.03
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VERSION 07026 ***
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*** Echo Park Lake Rehabilitation
*** HRA - PM Diesel (Unmitigated)
                 383252.03
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  *** AERMOD
                                                                                                                                                                                                                                               04/20/10
                                                      DFAULT ELEV
                 *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): SITE , HAULIDLE, L0000001, L0000002, L0000003, L0000004, L00000015, L00000015, L0000016, L00000017, L0000018, L0000019, L00000020, L00000021, L00000022, L00000023, L0000014, L0000015, L0000016, L0000017, L0000018, L0000019, L0000020, L0000021, L0000022, L0000023, L0000024, L0000025, L0000026, L0000027, L0000028, ...,
                                                                                      *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                            ** CONC OF DPM IN MICROGRAMS/M**3

        X-COORD (M)
        Y-COORD (M)
        CONC
        X-COORD (M)
        Y-COORD (M)
        CONC

        383352.03
        3771802.00
        0.00632
        383402.03
        3771802.00
        0.01307

        383552.03
        3771802.00
        0.01021
        383502.03
        3771802.00
        0.02037

        383552.03
        3771802.00
        0.01653
        383602.03
        3771802.00
        0.02037

        383552.03
        3771802.00
        0.02413
        383702.03
        3771802.00
        0.02728

        383752.03
        3771802.00
        0.02939
        383802.03
        3771802.00
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384002.03
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    383252.03 3771902.00
*** AERMOD - VERSION 07026 ***
                                                                                                                                                383302.03
                                                                                                                                                                                                                0.00477
                                                                          *** Echo Park Lake Rehabilitation
                                                                                                                                                                                                                                                          04/20/10
                                                                          *** HRA - PM Diesel (Unmitigated)
                                                                                                                                                                                                                                                          11:23:25
  **MODELOPTs:
                                                                                                                                                                                                                                                           PAGE 118
                                                          DFAULT ELEV
                   *** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 2 YEARS FOR SOURCE GROUP: ALL *** INCLUDING SOURCE(S): SITE , HAULIDLE, L0000001, L0000002, L0000003, L0000004, L0000005, L0000007, L0000008, L0000009, L0000001, L0000012, L0000013, L0000014, L0000015, L0000016, L0000017, L0000018, L0000019, L0000024, L0000025, L0000026, L0000027, L0000028, ...,
                                                                                            *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                                  ** CONC OF DPM IN MICROGRAMS/M**3
                                                                       0.00583
0.00899
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                                             3771902.00
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                  383852.03
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                  384052.03
                                             3771902.00
                                                                                  0.01876
                                                                                                                                               384102.03
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0.01202
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                  384552.03
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                                                                                  0.00882
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                  384652.03
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                                                                         *** Echo Park Lake Rehabilitation
*** HRA - PM Diesel (Unmitigated)
   *** AERMOD - VERSION 07026 ***
                                                                                                                                                                                                                                                          04/20/10
                                                                                          *** THE SUMMARY OF MAXIMUM ANNUAL ( 2 YRS) RESULTS ***
                                                                                  ** CONC OF DPM IN MICROGRAMS/M**3
                                                              AVERAGE CONC RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID
 GROUP ID
ONSITE 1ST HIGHEST VALUE IS
2ND HIGHEST VALUE IS
3RD HIGHEST VALUE IS
4TH HIGHEST VALUE IS
5TH HIGHEST VALUE IS
6TH HIGHEST VALUE IS
7TH HIGHEST VALUE IS
8TH HIGHEST VALUE IS
9TH HIGHEST VALUE IS
10TH HIGHEST VALUE IS
                                                                        0.84992 AT ( 383752.03, 3771252.00, 0.68474 AT ( 383852.03, 3771252.00, 0.60720 AT ( 383802.03, 3771252.00, 0.60526 AT ( 383792.56, 3770989.25, 0.55582 AT ( 383702.03, 3771002.00, 0.48716 AT ( 383660.97, 3771302.00, 0.47345 AT ( 383552.03, 3770952.00, 0.47345 AT ( 383552.03, 3770952.00, 0.46696 AT ( 383552.03, 3770902.00, 0.46696 AT ( 383552.03, 3770902.00,
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HAULIDLE 1ST HIGHEST VALUE IS

2ND HIGHEST VALUE IS

3RD HIGHEST VALUE IS

4TH HIGHEST VALUE IS

5TH HIGHEST VALUE IS

6TH HIGHEST VALUE IS

7TH HIGHEST VALUE IS

8TH HIGHEST VALUE IS

9TH HIGHEST VALUE IS

10TH HIGHEST VALUE IS
                                                                          0.00050 AT ( 383752.03, 3771252.00, 0.00038 AT ( 383852.03, 3771252.00, 0.00035 AT ( 383802.03, 3771252.00, 0.00035 AT ( 383802.03, 3771302.00, 0.00029 AT ( 383660.97, 3771302.00, 0.00029 AT ( 383802.03, 377102.00, 0.00028 AT ( 383802.03, 3771002.00, 0.00025 AT ( 383852.03, 3771302.00, 0.00025 AT ( 383852.03, 3771302.00, 0.00023 AT ( 383852.03, 3771252.00, 0.00022 AT ( 383852.03, 3771252.00,
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                                                                         0.09171 AT ( 383552.03, 3770652

0.08387 AT ( 383552.03, 3770602

0.07282 AT ( 383552.03, 3770602

0.05246 AT ( 383552.03, 3770552

0.05911 AT ( 383602.03, 3770552

0.05577 AT ( 383602.03, 3770652

0.05539 AT ( 383602.03, 3770652

0.05539 AT ( 383502.03, 3770602

0.03100 AT ( 383562.03, 3770602

0.03810 AT ( 383702.03, 3770602

*** Echo Park Lake Rehabilitation

*** HRA - PM Diesel (Unmitigated)
 HAULROUT 1ST HIGHEST VALUE IS
2ND HIGHEST VALUE IS
3RD HIGHEST VALUE IS
4TH HIGHEST VALUE IS
                                                                                                                                 3770652.00,
3770602.00,
3770602.00,
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                    5TH HIGHEST VALUE IS
6TH HIGHEST VALUE IS
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                    7TH HIGHEST VALUE IS
8TH HIGHEST VALUE IS
9TH HIGHEST VALUE IS
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3770602.00,
3770652.00,
3770652.00,
   10TH HIGHEST VALUE IS
*** AERMOD - VERSION 07026 ***
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                                                                                                                                                                                                                    0.00)
                                                                                                                                                                                                                                                          04/20/10
                                                                                                                                                                                                                                                           11:23:25
  **MODELOPTs:
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DFAULT ELEV CONC \*\*\* THE SUMMARY OF MAXIMUM ANNUAL ( 2 YRS) RESULTS \*\*\* \*\* CONC OF DPM IN MICROGRAMS/M\*\*3 GROUP ID AVERAGE CONC RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID 1ST HIGHEST VALUE IS 0.85218 AT ( 383752.03, 3771252.00, 2ND HIGHEST VALUE IS 0.68778 AT ( 383752.03, 3771202.00, 3RD HIGHEST VALUE IS 0.64267 AT ( 383792.56, 3770989.25, 4TH HIGHEST VALUE IS 0.6959 AT ( 383802.03, 3771252.00, 5TH HIGHEST VALUE IS 0.59077 AT ( 383802.03, 3771262.00, 6TH HIGHEST VALUE IS 0.54705 AT ( 383802.03, 3771002.00, 7TH HIGHEST VALUE IS 0.44705 AT ( 383702.03, 3771302.00, 7TH HIGHEST VALUE IS 0.48835 AT ( 383660.97, 3771329.50, 8TH HIGHEST VALUE IS 0.47662 AT ( 383552.03, 3771092.00, 10TH HIGHEST VALUE IS 0.47662 AT ( 383552.03, 3770992.00, 10TH HIGHEST VALUE IS 0.47662 AT ( 383552.03, 3770992.00, 0.00, 0.00, 0.00, 0.00, 0.00, 0.00, 0.00, 0.00, 0.00) 0.00, 0.00, 0.00, 0.00, 0.00, 0.00) 0.00) 0.00) 0.00) 0.00) 0.00) \*\*\* RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

\*\*\* AERMOD - VERSION 07026 \*\*\* \*\*\* Echo Park Lake Rehabilitation

\*\*\*MODELOPTS:

\*\*\* HRA - PM Diesel (Unmitigated) 04/20/10 PAGE 121 DFAULT ELEV \*\*\* Message Summary : AERMOD Model Execution \*\*\* A Total of 0 Fatal Error Message(s)
A Total of 0 Warning Message(s)
A Total of 113 Informational Message(s)
A Total of 0 Calm Hours Identif 113 Missing Hours Identified ( 0.64 Percent) \*\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*\*

\*\*\* NONE \*\*\* \*\*\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*\*\*

\*\*\* NONE \*\*\* 

# DRAFT ENVIRONMENTAL IMPACT REPORT APPENDIX D

BIOLOGICAL RESOURCES
(Including Biological Reconnaissance Survey and Impact Analysis Report, and Wildlife Relocation Plan)

### BIOLOGICAL RECONNAISSANCE SURVEY AND IMPACT ANALYSIS REPORT

## ECHO PARK LAKE LOS ANGELES, CALIFORNIA

#### Prepared for:

Hala Z. Titus, P.E., PMP Black & Veatch 800 Wilshire Blvd, Suite 600 Los Angeles, California 90017

#### Prepared by:

EDAW, Inc. 515 South Flower Street, 9<sup>th</sup> Floor Los Angeles, California 90071 Contact: Jeanette Duffels

June 5, 2008