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CAL/EPA'S FRAMEWORK FOR CUMULATIVE IMPACTS ANALYSIS

Executive Summary

Chapter 1. Introduction

- *Purpose and scope of the report*
- *Legal and legislative history*
- *Process used to develop the framework*
- *Overview of the report*

Chapter 2. Scientific Background

- *Science behind cumulative impacts*
- *Multiple chemical exposures and pathways*
- *Susceptible and vulnerable populations*

Chapter 3. Key Concepts

- *Working definition of cumulative impacts*
 - *Exposures, public health or environmental effects*
 - *Sensitive populations*
 - *Socioeconomic factors*
- *Cumulative and aggregate risk and cumulative impact*

Chapter 4. Key Contexts

- *Situations and case studies where cumulative impacts arise*
- *Aspects encountered and considered by Cal/EPA, e.g., pilot projects*

Chapter 5. Scientific Methods for Assessing Cumulative Impacts

- *Overview of available methods*
- *Characterizing geographic areas*
- *Characterizing sensitive populations*
- *Emerging metrics*

Chapter 6. Phase I: Framework for Analysis of Cumulative Impacts

- *Framework: Elements to be considered in conducting a cumulative impacts analysis.*
- *Public involvement*
- *Scoping and problem formulation*
- *Key factors to consider in cumulative impacts analysis*
- *Types of information and data sources*

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Chapter 7. Opportunities for Cumulative Impacts Analysis at Cal/EPA (Decision Contexts)

- *Introduction (types of decisions made by the BDOs and examples of how cumulative impacts are currently factored into those decisions)*
- *Potential value for Cal/EPA in C.I. Analysis (how cumulative impact analyses could be important for BDOs and CalEPA decision making)*
- *Potential programmatic areas for implementation (examples of when and how a cumulative impacts analysis tool being developed under CI/PA could be used by the BDOs)*
- *Paths to implementation (what are the current obstacles to the implementation of cumulative impacts analyses, e.g. mandates, regulations, resources, interagency coordination, jurisdictions, etc.)*

Chapter 8. Recommendations

- *Next steps for Phase II*

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DECISION CONTEXTS

INTRODUCTION (*types of decisions made by the BDOs and examples of how cumulative impacts are currently factored into those decisions*)

- Provide a description of the scope of decision-making by individual BDOs as described on their websites.
- Cite examples of where cumulative impact-type analyses are currently being used by the BDOs (e.g. ARB/GIS use of socio-economic data).

POTENTIAL VALUE FOR CAL/EPA IN C.I. ANALYSIS (*how cumulative impact analyses could be important for BDOs and CalEPA decision making*)

- Provides a more accurate understanding of environmental impacts.
- Improves efficiency by focusing resources on the most urgent locations that would benefit from environmental actions.
- Describes cross media impacts and targets which media are the most important.
- Targets where regulatory efforts in one medium (e.g. air) affect exposure from another medium (e.g. water or waste).
- Identifies circumstances where non-Cal/EPA agencies could help to mitigate impacts (CalTrans, local government, social services agencies, etc.).
- Identifies circumstances where interagency cooperation may be critical in future regulatory efforts (e.g. cumulative impact zones, land use policies).
- Guides policy decisions by providing the ability to confirm (or not) which communities have the most significant cumulative impacts.

POTENTIAL PROGRAMATIC AREAS FOR IMPLEMENTATION (*examples of when and how a cumulative impacts analysis tool being developed under CI/PA could be used by the BDOs*)

- Prioritize regulatory/risk management activities to have the greatest impact (e.g. groundwater or other site cleanup, pesticide monitoring, enforcement).
- Conduct CEQA or CEQA-equivalent analyses (e.g. hazardous-waste facility permitting, site cleanup, solid-waste facility siting)
- Develop future regulatory or incentive programs that address exposures (e.g. Carl Moyer Program, regional initiatives aimed at large facilities such as ports and railyards).
- Consider cumulative impacts in future risk assessments, guidelines and programs (e.g. vulnerable populations).

PATHS TO IMPLEMENTATION (*what are the current obstacles to the implementation of cumulative impacts analyses, e.g. mandates, regulations, resources, interagency coordination, jurisdictions, etc.*)