
* E I S NEWSLETTER *
*

April 10, 1973
No. I-1

This is the first in a series of newsletters regarding the environmental impact statement (EIS). Further editions of this newsletter will possibly be provided once a week. Through such a publication, the Office of Environmental Quality Control hopes to inform various governmental agencies, interested civic groups, and the concerned individuals about procedures for EIS, as well as provide information about the impact statements currently being processed by our Office. For further information concerning items in this newsletter, please contact the Office of Environmental Quality Control, 550 Halekaiwila Street, Room 301, Honolulu, Hawaii 96813, phone 548-6915.

BACKGROUND INFORMATIONAL NOTES

Requirements: In his Executive Order of August 23, 1971, Governor John A. Burns required the preparation and filing of EIS for all major projects requiring State funds or State lands. OEQC was designated as the clearinghouse agency for the receipt and review of these statements. The Governor's Executive Order was modeled after the National Environmental Policy Act (NEPA of 1969, Public Law 96-190), which "requires each Federal agency to prepare a statement of environmental impact in advance of each major action, recommendation or report on legislation that may significantly affect the quality of the human environment".

ENVIRONMENTAL IMPACT STATEMENTS - Purpose: The purpose of the EIS is to insure that full consideration of environmental consequences is provided by State agencies and to assure timely public information concerning major State actions. It is also a tool which is utilized to obtain information and recommendations in the form of responses to the draft statement. The intended goal of the environmental impact statement procedure is two-fold: to gain foresight into the consequences of a proposed action and with this knowledge to provide preventive measures and/or counteractions which would mitigate environmental degradation.

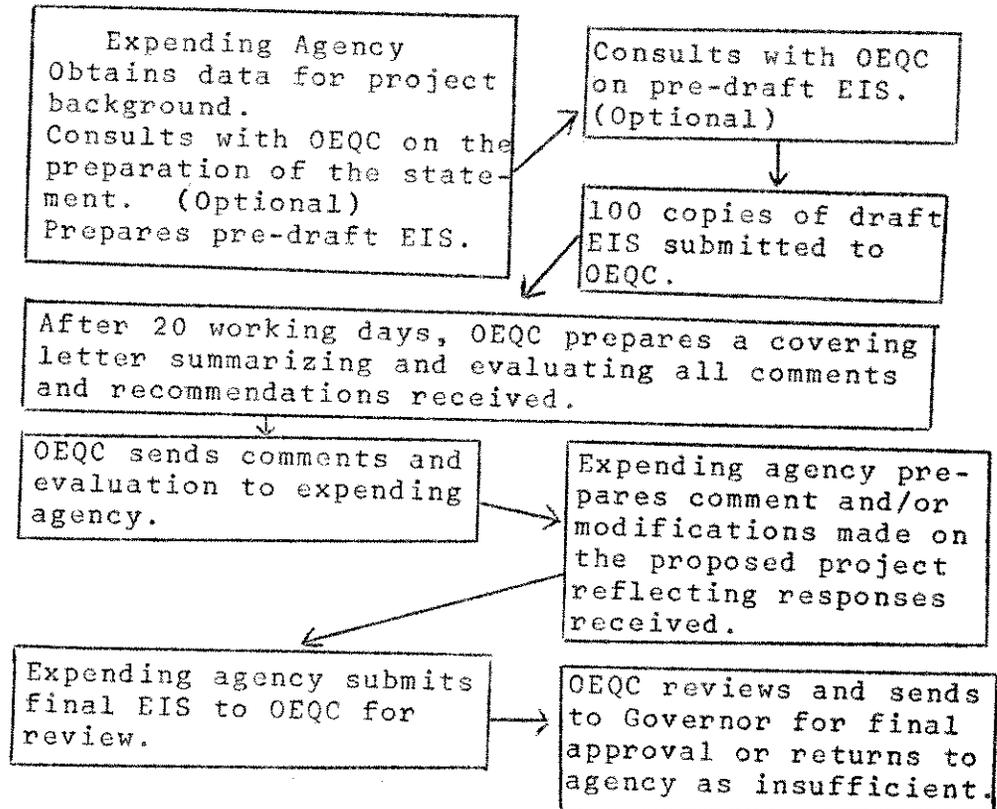
Contents: The EIS contains five sections:

- (1) The environmental impact of a proposed project.
- (2) Any adverse environmental effects which cannot be avoided should the proposal be implemented.
- (3) Alternatives to the proposed action.

- (4) The relationship between local short-term uses of man's environment and the maintenance and enhancement of long-term productivity.
- (5) Any irreversible and irretrievable commitments of resources which would be involved in the proposed action.

A sixth, strongly recommended section would be an analysis of the economic and social impact of the proposed project.

Procedures:



OTHER TYPES OF STATEMENTS - The broad range of State actions will invariably raise questions as to what constitutes a "major" action or a "significant" impact. To minimize divergent interpretations of the words "major" and "significant", other formats for impact statements have been created. These include:

Environmental Statement of Non-Impact - Includes proposed actions which would have minimal effects on the environment and/or may modify the function of a facility on an existing site, but would not alter its original purpose. Such actions would include minor replacement of/or addition to an existing facility, or minimal augmentation to enhance the function of a facility, that shall not exceed the limits of Federal, State County standards of air, water, noise quality, and also, would not alter the intended or original purpose of the existing facility.

Request for Exemption from Preparing an EIS - Proposed actions which are minor, having no significant detrimental impact on the environment and/or actions of a maintenance or operational nature. Such proposed actions would include but not be limited to:

- (a) Substituting or replacing minor existing facilities.
- (b) Minor reparations that would not alter or modify the intended function at that facility.
- (c) Operations that are part of routine operation or maintenance procedure.
- (d) State funded actions which involve no physical impact on the environment.
- (e) Temporary or interim actions and/or projects (for a duration of less than one year) with minimal adverse impacts (emergency actions).

Both a statement of non-impact and a request for exemption should include a brief description of the proposed action, the environmental impacts of the proposed action and the reasons for filing a non-impact statement or exemption.

Procedures:

Expending Agency

Gathers necessary data on proposed project.
Determines what type of EIS to file.

Consults with OEQC. (Optional)

Submits three copies of the statement to OEQC.

OEQC Process

(10 working days)
Evaluates statement.
Obtains comments and recommendations from other governmental and civic organizations. (Optional)
Obtains additional information.

OEQC concurs with the request or the submittal of the non-impact statement.

OEQC disapproves with the submittal of a non-impact statement or request for exemption.

OEQC formally requests additional information.

Return to Expending Agency

Environmental Assessment - OEQC encourages the submittal of an environmental assessment prior to the preparation of an environmental impact statement. The environmental assessment is a preliminary evaluation which should be conducted during the early planning stages of a project. The assessment would allow an initial evaluation of the proposed project by various governmental agencies and concerned parties with the purpose of (1) obviating environmental degradation and undue expense, should such a proposal be found unsound; (2) affirming the goals, needs or demands for such a project, and (3) providing ample time for other alternatives to be considered.

More information about EIS will be provided in future newsletters.

EIS REGISTER

This section of the newsletter is provided to inform the reader of the current environmental impact statements being processed by our Office. Should the reader be interested in reviewing and commenting on these statements, please contact our Office.

Draft Environmental Impact Statements

| <u>Name</u> | <u>Location</u> | <u>Expending or Initiating Agency</u> | <u>Description</u> | <u>Suspense Date</u> |
|--|-----------------|---|---|----------------------|
| 1. Kahoma Stream Flood Control Project | Lahaina, Maui | U.S. Corps of Engineers | The proposed project consists of a revetted outlet, major realignment and construction of about 5,280 feet of concrete-lined trapezoidal section channel, reconstruction of three bridges, a diversion levee, and a rock sill and debris basin at the upper limits of the project area. The improvements are designed to provide protection to the flood-prone northern section of Lahaina, Maui. | 4/10 |
| 2. Pukalani Elementary School Site Selection | Pukalani, Maui | Department of Accounting and General Services | Site selection for the proposed Pukalani Elementary School. The EIS was prepared for a specific site chosen for the proposed project. | 4/11 |
| 3. Flood Control for the Maikua Uka Area | Hilo, Hawaii | Department of Public Works, County of Hawaii | The proposed project consists of a diversion of Palai Stream into Four Mile Creek, a channel to carry the combined flows of the Palai Stream and the Four Mile Creek, a detention dam and injection wells would provide flood protection for the low density residential area at South Hilo. | 4/24 |

| <u>Name</u> | <u>Location</u> | <u>Expending or Initiating Agency</u> | <u>Description</u> | <u>Suspense Date</u> |
|-----------------------------------|-----------------|---|---|----------------------|
| 4. Mililani Kai Elementary School | Mililani, Oahu | Department of Accounting and General Services | Site Selection Study for the proposed Mililani Kai Elementary School. The FIS was prepared for a specific site chosen for the proposed project. | 5/4 |

Final Environmental Impact Statement

| | | | | |
|--|---------------|--|---|--|
| 1. Construction of Sewage Collection System and East Water Reclamation Plant | Lahaina, Maui | Department of Public Works, County of Maui | The proposed project for the construction of a sewer interceptor system for an area extending from Lahaina Town to Nanili and a waste water reclamation plant at Honokowai. | Currently being reviewed by this Office. |
|--|---------------|--|---|--|

Environmental Statements of Non-Impact

| | | | | |
|--|----------------|--|--|------|
| 1. Iokapu Saddle Road Relief Drain | Kaneohe, Oahu | Department of Public Works, City & County of Honolulu via Department of Transportation | The proposed relief drain project will consist of approximately 230 lineal feet of reinforced concrete box culvert and approximately 620 lineal feet of reinforced concrete drain pipe. The water will be discharged into Kaneohe Bay. | 4/12 |
| 2. Motor Vehicle Control Inspection Station Under Kapolei-Kapahulu Overpass-Interstate Highway | Honolulu, Oahu | City and County of Honolulu | The project will consist of a one-story masonry walled building with a total floor area of 320 square feet, there will be paved parking stalls for 26 vehicles. Project will provide inspection services to all vehicles requiring police inspection for safety and noise control. | 4/18 |

| <u>Name</u> | <u>Location</u> | <u>Expending or Initiating Agency</u> | <u>Description</u> | <u>Suspense Date</u> |
|--|---|--|---|--|
| 3. Kinau Street Reconstruction, Alapai Street to Makiki Street | Honolulu, Oahu | Department of Public Works, City & County of Honolulu via State Department of Transportation | New concrete gutters will be constructed. The existing curbing will be reset or new curbing constructed, as required by new roadway grades, new sidewalks, driveways and driveway ramps will replace existing ones as necessary. Other work includes adjustments to existing sewer, water and storm drainage facilities. Adjustments to existing electrical, telephone and gas facilities will be done by the respective utility companies. | Currently being reviewed by OEQC 4/12 |
| 4. Hilo Hospital Helicopter Landing Pad | Hilo, Hawaii | Department of Accounting and General Services | Construction of an intermittent use heliport on the grounds of Hilo Hospital for mobilizing the ill or injured by helicopter. | 4/16 |
| 5. August Ahrens Elementary School New Recreational Field | Waipahu, Oahu | Department of Accounting and General Services | Construction of a recreation field approximately 100,000 sq. feet (340' x 300') with a sprinkler system and chain link fencing. | 4/16 |
| 6. Pali Highway Lights | Pali Tunnel to Waimanalo Junction, Oahu | Department of Transportation | This project will provide approximately 62 additional twin arm 30' high, 400 watt mercury luminaries in the median and approximately 19 single arms in the Mt. Olomano area. | 4/12 |

Request for Exemption

| <u>Name</u> | <u>Location</u> | <u>Expending Agency</u> | <u>Description</u> | <u>Suspense Date For Reply To Expending Agency</u> |
|--|-----------------|----------------------------------|---|--|
| 1. Police Radio Station for the County of Maui | County-wide | Police Department County of Maui | Upgrading by supplementing and improving the existing County of Maui two-way F.M. Radio System. | 4/12 |
| 2. Hanalei Highway | Kaunapali, Maui | Department of Transportation | The purpose of these borings is to obtain information the exist- ing and subsurface soil conditions and provide a basis for the determina- tion of the most suitable and economical design of the highway facility. | 4/12 |

CURRENT HAPPENINGS

The Administration's measure concerning environmental impact statements will be acted upon by legislators during the final week of this legislative session. House Bill 1522 proposes to extend Environmental Impact Statement requirements to the County agencies as well as the private sector. By enveloping all levels of government and the private sector in the procedure, it is hoped that environmental consciousness will be enhanced and that this concern for a quality environment will result in mitigation of environmental degradation in the State.

A Second Draft Environmental Impact Statement for the Proposed Pauahi Urban Renewal Project Has Been Received - This draft was prepared by the Department of Housing and Urban Development in compliance with NEPA; deadline date for responses to our Office is being set for April 24, 1973. Because of the limited number of copies available, this Office has not distributed this second draft. The first draft EIS was prepared by the Honolulu Redevelopment Agency. These two draft statements are quite different from each other, therefore comments or recommendations should be provided on both draft statements. Although this Office is not the clearinghouse for the HUD's draft statement we will be providing a reply to the Department of Housing and Urban Development from the responses we receive as well as transmitting copies of all responses to HUD.

UPCOMING DRAFT ENVIRONMENTAL IMPACT STATEMENTS

Kaneohe Intermediate School (site selection), Keeli Golf Course (Kona), Lanakila Health Center (new building), Honolulu District Court (relocation), Sand Island State Parks, Kalama Uka Elementary School (site selection), and Kahuluu Flood Control Project.

This being the first newsletter, we invite our reviewers to provide comments and suggestions about the newsletter's format, contents, or possible additions. Please feel free to contact our Office should you require additional information about impact statements mentioned in this newsletter.

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* E I S NEWSLETTER *
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April 17, 1973
No. I-2

This is the second publication of the EIS Newsletter. Through the regular publication of this newsletter, the Office of Environmental Quality Control (OEQC) will keep the public informed of the current environmental statements being processed within the State. In the future, it is hoped that the scope of this newsletter can be expanded to encompass broader environmental concerns beyond environmental impact statements. Concerned groups or individuals are welcome to comment on the form and contents of this publication, and to inquire about the specific items included in this newsletter. Persons interested in obtaining additional information should contact this Office at 550 Halekauwila Street, Tani Building, Room 301, Honolulu, Hawaii 96813, or call 548-6915.

BACKGROUND INFORMATIONAL NOTES

The first newsletter briefly identified the five sections contained in an EIS. These five sections, again, are:

- I. The environmental impact of a proposed project
- II. Any adverse environmental effects which cannot be avoided should the proposal be implemented
- III. Alternatives to the proposed action
- IV. The relationship between local short-term uses of man's environment and the maintenance and enhancement of long-term productivity.
- V. Any irreversible and irretrievable commitments of resources which would be involved in the proposed action

Prior to the environment impact of a proposed project, the first section, "background data" should be provided. For this reason items (a) through (d) below could be called an Introduction to the EIS or could be incorporated into the Project Description.

This portion of the EIS should include the following:

- (a) A concise discussion of the goals and objectives of the proposed project. This sub-section is

important in identifying the need for the proposed project. The reviewer can either challenge these goals and objectives, or if he concurs with the intent of the project, keep the purpose of the project in mind as he reads the EIS.

- (b) A description of the proposed project. The project description should include a detailed discussion of the site and the physical facilities to be constructed, support facilities or systems (water reservoir, cesspools, utilities, transportation system), services and activities that would be performed on the site or within the facility after completion, the total area to be utilized by the project, and discussion of the construction and land transformation activities and methods. When possible and available, plans and/or maps should be included to supplement such discussions.
- (c) A description of the existing conditions and activities occurring on and adjacent to the site. The checklist below indicates the areas which could be included in this sub-section. This description is especially important because it allows the reviewer to make comparisons between the existing conditions and the proposed future conditions. This allows the reviewer to determine whether the change is desirable or if the impact of the proposed project should be modified or discouraged.
- (d) Identification of all Federal, State, or local agencies and other organizations and private individuals consulted in preparing the EIS, and list of the persons, firms, or agencies that prepared the EIS. Identification of the governmental approvals, permits, etc., which must be obtained prior to construction of the facility. Because the EIS per se does not decide on whether a project should be continued, and is an information document, OEQC can utilize this sub-section so that the EIS and the responses received can be forwarded to those agencies empowered to make such decision.

CHECKLIST OF THE EXISTING CHARACTERISTICS,
CONDITIONS AND USES OF THE PROPOSED
PROJECT SITE

(This checklist serves to provide an outline or remind the preparer of the EIS of the potential aspects which should be covered in describing the proposed or recommended site.)

I. Physical Characteristics

A. Earth

1. Land form
2. Soils
3. Unique physical features
4. Topography
 - a. General characteristics
 - b. Details on critical features

B. Geographic extent of project

1. Boundaries of project
2. Adjacent areas which affect the project

C. Water

1. Surface
2. Underground
3. Quality (e.g. salt content, nutrient content, etc.)
4. Recharge
5. Ocean
6. Streams and rivers
7. Temperature
8. Reservoirs and lakes

D. Atmosphere

1. Quality
2. Climate (Micro and Macro)
3. Temperature
4. Wind velocity and direction

II. Biological Factors

A. Flora

1. Trees
2. Shrubs
3. Grass
4. Crops
5. Aquatic plants
6. Microflora
7. Rare and endangered species

B. Fauna

1. Mammals
2. Birds
3. Insects
4. Micro-organisms
5. Marine animals and benthic organisms
6. Rare and endangered species

III. Land Use

A. General project site

1. Present land use and quality
 - a. Wilderness and open spaces
 - b. Wetlands
 - c. Forestry
 - d. Grazing
 - e. Agriculture
 - f. Residential
 - g. Commercial
 - h. Industrial (Manufacturing)
 - i. Resource production and extraction, mining and farming
 - j. Watershed
 - k. Playgrounds
 - l. Museums
 - m. Resorts
 - n. Institutional (e.g. schools, hospitals)
2. Designated Land Use and Zoning in Master Plan
3. Comprehensive long range plans

IV. Cultural and Social Factors

A. Recreation

1. Hunting
2. Fishing
3. Boating
4. Swimming
5. Camping and hiking
6. Picnicking
7. Surfing
8. Skin diving

B. Aesthetics and Human Interest

1. Scenic views
2. Wilderness Quality
3. Open space quality
4. Landscape design
5. Parks and reserves
6. Historical, archaeological sites and objects and monuments
7. Rare and unique species or ecosystems
8. Unique physical features

C. Social Status

1. Various life styles

2. Health (physiological and psychological) and safety
3. Employment
4. Household incomes (broad survey)
5. User groups

D. Demographic Factors

1. Total population
2. Growth trends
3. Density and distribution
4. Population composition (by sex, age, race)

V. Significant Ecological Relationships

- A. Eutrophication
- B. Food chains
- C. Disease-insect vectors
- D. Vegetation competition
- E. Other

Next week's newsletter will elaborate upon the first and second sections of the EIS.

UPDATE (formerly titled Current Happenings)

EIS Legislation - The Administration's Bill (HB 1522, Senate Bill 1319) proposing that the EIS requirements be extended to the county agencies and the private sector failed to pass during the past legislative session. The bill had intended to strengthen environmental concerns by engaging all levels of government and private citizens into the EIS process. It is hoped that during the interim period, studies and possible modifications to the bill can be done to prepare for its consideration by next year's session.

Proposed EIS Workshop - The State Department of Personnel Services in cooperation with OEQC will be sponsoring a 2 1/2 day workshop on Environmental Impact Statements. The workshop is scheduled for May 30, 31, and June 1 at the Coral Ballroom of the Hilton Hawaiian Village. This workshop is especially designed for governmental agencies and private individuals involved in the preparation and review of EISs. Speakers representing all levels of government, representatives from private industries and civic organizations have been invited. More information on the workshop will be provided in the next newsletter.

ANTICIPATED DRAFT EIS

Keel Golf Course (Kona), Lanakila Health Center (new building), Honolulu District Court (relocation), Sand Island State Park, Kahaluu Flood Control Project, and Kaneohe Civic Center (site selection).

EIS REGISTER

Draft Environmental Impact Statements

| <u>Project Name - Expending or Initiating Agency</u> | <u>Location</u> | <u>Description</u> | <u>Suspense Date</u> |
|--|---------------------|--|----------------------|
| 1. <u>Flood Control for the Waikae Uka Area - Department of Public Works, County of Hawaii</u> | Hilo, Hawaii | The proposed project consists of a diversion of Palai Stream into Four Mile Creek, a channel to carry the combined flows of the Palai Stream and the Four Mile Creek, a detention dam and injection wells would provide flood protection for the low density residential area at South Hilo. | 4/24 |
| 2. <u>Mililani Kai Elementary School - Department of Accounting and General Services</u> | Mililani, Oahu | Site Selection Study for the proposed Mililani Kai Elementary School. The EIS was prepared for a specific site chosen for the proposed project. | 5/4 |
| *3. <u>Kalama-Uka Elementary School Site Selection - Department of Accounting and General Services</u> | Kalama Valley, Oahu | This proposed elementary school will relieve the projected overloading of Kamiloiki Elementary. The scope of the EIS evaluates two alternative sites and describes the environmental impacts of the recommended six-acre site adjacent to the Kalama Business Center. | 5/5 |
| *4. <u>Kaneohe Intermediate School Site Selection - Department of Accounting and General Services</u> | Kaneohe, Oahu | The proposed school may accommodate for both intermediate as well as high school students projected for the Windward side. The recommended site is located mauka of the Keapuka Subdivision in an area partially planted in banana fields. | 5/5 |
| *5. <u>Kihei Sewerage System - Department of Public Works, County of Maui</u> | Kihei, Maui | The proposed project provides for construction of a sewage collection system and waste-water reclamation plant for an area extending from Wailea northward to Kihei. | 5/29 |

Final Environmental Impact Statement

No final environmental impact statement has been received by OEQC this week.

* New entry from last week.

Statements of Non-Impact

Project Name - Expanding or
Initiating Agency

Due Date for OECC's
Reply to the
Expanding Agency

Location

Description

| <u>Project Name - Expanding or Initiating Agency</u> | <u>Location</u> | <u>Description</u> | <u>Due Date for OECC's Reply to the Expanding Agency</u> |
|---|--|--|--|
| *1. <u>Kauai Belt Road, Drainage Improvement at Anahole - Depart- ment of Transportation</u> | Dist. of Kawaihau, Kauai, .30 mile north of Anahola Post Office | This project consists of installing 1,290 feet of perforated underdrain pipes along the right (mauka) paved gutter with five (5) laterals extend- ing beneath the pavement at various points and eight (8) cleanouts to facilitate maintenance of the system. | 4/23 |
| *2. <u>Kuhio Highway, Repairs to Wainiha Bridges No. 2 and No. 3, Kauai - Department of Trans- portation</u> | Dist. of Hanalei, Kauai, State Route 56 over Wainiha River | Replace existing timber members with new treated timber. If funds available, clean and paint structural steel members. | 4/23 |
| *3. <u>Drainage Improvements at Kona and Kehala, Hawaii (Routes II and 270) - Department of Transportation</u> | Along the Kawaihae- Mahukona Road, County of Hawaii | The proposed improvements consist of con- struction of cutoff drainage ditches (200' x 4') at two locations and channelization (300' x 20') at the inlet end of a drainage culvert structure along the Kawaihae- Mahukona Road. | 4/23 |
| *4. <u>Hawaii Belt Road, Drainage Improvement at Kau - Department of Transportation</u> | Piikea Stream, Hilea Stream, Hawaii Belt Road, County of Hawaii | Piikea Stream - constructing a trapezoidal channel along the stream bed, 150' long x 40' wide. Purpose is to eliminate flooding over Hawaii Belt Road. Hilea Stream - con- structing a grouted rubble lined ditch 100' in length. Purpose is to protect the high- way embankment section from erosion. | 4/23 |
| *5. <u>Liliha-Puunui Drain- age (Liliha Street to Waolani Stream) - Department of Public Works, City and County of Honolulu</u> | Liliha-Puunui area, Honolulu, Oahu | Consists of constructing 803 linear feet of pipes (54", 48", 18") 4 catch basins, 8 man- holes and 33 linear feet of 6' x 2' box drain. | |

Statement of Non-Impact

Due Date for OEQC's
Reply to the
Expanding Agency

Project Name - Expanding or
Initiating Agency

Location

Description

*6. Water Storage Reservoir,
Transmission Line, and
Access Road - Depart-
ment of Water Supply,
County of Hawaii

The proposed site is situated in the
Waiakea Forest Reserve. It will provide
water to the Hilo Town and Country
Estates (39 lots from Waiakea Uka
Springs). The project involves the con-
struction of a 20,000-gallon reinforced
concrete water reservoir, a 20-foot ease-
ment access road (2,200 feet long), and
the installation of an 8-inch iron ductile
water transmission line.

Waiakea, South
Hilo, Island of
Hawaii

4/26

*7. Kynnnersly Road Improv-
ments - Department of
Public Works, County
of Hawaii

North Kohala
Island of
Hawaii

4/23

Widening, resurfacing, and realigning of
Kynnnersly Road between Kaauhuhu Road and
Hawi Road to a 20' wide pavement.

Request for Exemption

*1. Roadway Resurfacing
Projects - Department
of Accounting and
General Services

Throughout the
State

Estimated occurrence is about 24 projects
per year. Consists of minor resurfacing
and spot construction for parking lots,
playcourts, roadways, etc. For D.A.G.S.
projects.

4/23

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* E I S NEWSLETTER *
*

April 24, 1973
No. I-3

Persons interested in obtaining additional information should contact this Office at 550 Halekawila Street, Tani Building, Room 307, Honolulu, Hawaii 96813, or call 548-6915.

BACKGROUND INFORMATIONAL NOTES

In the previous newsletter (April 17, 1973; No. I-2), we began a discussion of the contextual requirement for environmental impact statements. In that newsletter, we covered the items necessary for the Introduction or Project Description to the EIS. These items included the following:

- a. A concise description of the goals and objectives of the proposed project.
- b. A description of the proposed project.
- c. A description of existing conditions and activities occurring on and adjacent to the site.
- d. Identification of all Federal, State or local agencies and other organizations and private individuals consulted in preparing the EIS, and a list of the persons, firms, or agencies that prepared the EIS.

This week, content requirements for the first two sections of the EIS will be discussed. Section (I) is concerned with the description of environmental impacts that are anticipated should the project be implemented and Section II, any adverse environmental effects which cannot be avoided should the proposal be implemented.

- I. The environmental impact of a proposed project.
- II. Any adverse environmental effects which cannot be avoided should the proposal be implemented.
- III. Alternatives to the proposed action.
- IV. The relationship between local short-term uses of man's environment and the maintenance and enhancement of long-term productivity.
- V. Any irreversible and irretrievable commitment of resources which would be involved in the proposed action.

Emphasis should be given to these two sections because they are the focus point of an EIS. This should include the following eight (8) categories:

1. Airborne Emissions
2. Waterborne Effluents
3. Noise Emissions
4. Generation of Solid Wastes
5. Resource Depletion
6. Land Use
7. Governmental Services
8. Transportation

Section I should identify the sources, describe the parameters used, and determine the significance of the impact. Determination of whether the impact will be temporary (e.g. during construction) or continual (throughout the existence of the facility), direct or indirect should be noted in this section.

Using airborne emissions as an example, the writer could formulate an outline or guideline of items to be discussed as follows:

I. Airborne Emissions

| A. | Identification of Sources | Yes | No | Temp. Effects | Continual Effects |
|-----|---|-----|----|---------------|-------------------|
| 1. | Internal combustion engines (cars, trucks, buses, generators) | | | | |
| 2. | Open burning | | | | |
| 3. | Incinerator | | | | |
| 4. | Cooling towers | | | | |
| 5. | Training facilities -- e.g., fire fighting schools | | | | |
| 6. | Power generators | | | | |
| 7. | Road mix plants | | | | |
| 8. | Aircraft engine testing and operation | | | | |
| 9. | Rock crushing | | | | |
| 10. | Kilns | | | | |
| 11. | Unpaved road use | | | | |
| 12. | Exposure to erosion | | | | |
| B. | Measure Parameters and Determine Magnitude | | | | |
| 1. | Chemical | | | | |
| a. | SOx, NOx, CO, CO ₂ , O ₂ and O ₃ | | | | |

| | Yes | No | Temp. Effects | Continual Effects |
|---|-----|----|---------------|-------------------|
| b. Hydrocarbons and photochemical oxidants | | | | |
| c. Toxic substances | | | | |
| i) CO | | | | |
| ii) Beryllium | | | | |
| iii) Asbestos | | | | |
| iv) Cement dust | | | | |
| v) Other | | | | |
| 2. Biological | | | | |
| a. Particulate matter and/or visible emission, i.e., color and odor | | | | |
| b. Pollen, bacteria and microorganisms | | | | |
| C. The Effect of Airborne Emissions | | | | |
| 1. Health | | | | |
| 2. Economic | | | | |
| 3. Aesthetic | | | | |
| 4. Social | | | | |
| 5. Flora and Fauna | | | | |

After this is completed, the preparer must determine if the effects as provided under Section I-C are adverse. (If they are not adverse they should be indicated in Section I.) Therefore, Section II should include only discussion of the unavoidable adverse effects. For example, under Noise Emissions, harmful effect could be described by the following:

| | Yes | No | Temp. Effects | Continual Effects |
|---|-----|----|---------------|-------------------|
| 1. Health Significance | | | | |
| a. Loss or impairment of hearing | | | | |
| i) Long term effect of continuous noise | | | | |
| ii) The effects of loud discontinuous noise | | | | |
| b. Psychological | | | | |

| | Yes | No | Temp. Effects | Continual Effects |
|--|-----|----|------------------|----------------------|
| i) Annoyance | | | | |
| ii) Loss of sense and/or well being | | | | |
| iii) Generation of fear | | | | |
| c. Physiological | | | | |
| i) Hypertension | | | | |
| ii) Interference with sleep | | | | |
| iii) Involuntary muscular response | | | | |
| 2. Economic Significance | | | | |
| a. Distraction from work and lowered efficiency | | | | |
| b. Cost of acoustic insulation | | | | |
| c. Cost of relocating or insulating noise generators | | | | |
| d. Cost of public relations | | | | |
| e. Reduction of property value | | | | |
| 3. Aesthetic Losses | | | | |
| 4. Social Significance | | | | |
| a. Annoyances to the community | | | | |
| b. Distraction to education facilities | | | | |
| c. Distraction from recreational, entertainment, and cultural facilities | | | | |
| d. Impact on individuals living next to project site | | | | |
| 1. loss of privacy | | | | |
| 2. loss of comfort and enjoyment | | | | |
| 3. effect of vibrations | | | | |
| 5. Flora and Fauna | | | | |
| a. Disturbance of Ecosystem | | | | |
| b. Effect on Animals on the site or in adjacent area | | | | |

In addition, mitigation measures that would be taken to remedy or redress short-term and long term adverse effects and the extent of their effectiveness should be discussed. For example, waterborne emissions. Such mitigation measures may include:

1. Sedimentation, gravity separation
2. Filtration
3. Aeration
4. Heat treatment
5. Biological treatment
 - a. Aerobic
 - b. Anaerobic
6. Combustion and chemical
7. Chemical - precipitation, chlorination

Understandably, an exhaustive checklist encompassing much more than the above indicated eight categories can be developed, and other methods of organizing the various items can be devised. Frequently, there will be overlapping in the material presented, and therefore, the preparer is encouraged to use his judgement in determining where to place a specific item.

For a more detailed checklist for these categories please refer to the draft manual dated October 4, 1972, for the preparation and processing of environmental impact statements, Checklist III.

Update

Legislation - The following is a selected list of environmental bills and resolutions that have passed during this past legislative session. At present, they are under final consideration by the Governor. The outcome of these bills will be published in later editions of this newsletter.

- SB 37 - State Population & Planning Commission
- SB 56 - Commission of the Year 2000
- SE 129 - Importation of Plant Life
- SE 377 - Anti-Pollution Revenue Bonds
- SB 402 - Sewer Use Charges
- SB 929 - Management Program for Coastal Zones
- SE 930 - Shoreline Setbacks
- SB 1002 - Acquisition of Land Having Value as a Resource to the State
- SE 1206 - Relating to Planning
- SR 1380 - County Ordinances Establishing Historical, Cultural and Scenic Districts
- SCR 14 - Temporary Planning Commission
- SCR 17 - Ethical Environmental Impact Commission
- SR 43 - Soil Erosion, Sediment Control

HB 1089 - Environmental Quality
HB 1337 - Urban Design Plans for each County
HCR 32 - Soil Erosion, Sediment Control

Anticipated Draft EIS

Kei Golf Course (Kona), Lanakila Health Center (new building),
Honolulu District Court (relocation), Sand Island State Park,
Kahaluu Flood Control Project, and Kaneohe Civic Center (site
selection).

EIS REGISTER

Draft Environmental Impact Statements

| <u>Project Name - Expanding or Initiating Agency</u> | <u>Location</u> | <u>Description</u> | <u>Suspense Date</u> |
|---|---------------------|---|----------------------|
| 1. <u>Mililani Kai Elementary School - Department of Accounting and General Services</u> | Mililani, Oahu | Site Selection Study for the proposed Mililani Kai Elementary School. The EIS was prepared for a specific site chosen for the proposed project. | 5/4 |
| 2. <u>Kalama-Uka Elementary School Site Selection - Department of Accounting and General Services</u> | Kalama Valley, Oahu | This proposed elementary school will relieve the projected overloading of Kamiloiki Elementary. The scope of the EIS evaluates two alternative sites and describes the environmental impacts of the recommended six-acre site adjacent to the Kalama Business Center. | 5/5 |
| 3. <u>Kaneohe Intermediate School Site Selection - Department of Accounting and General Services</u> | Kaneohe, Oahu | The proposed school may accommodate for both intermediate as well as high school students projected for the Windward side. The recommended site is located mauka of the Keapuka Subdivision in an area partially planted in banana fields. | 5/11 |
| 4. <u>Kihei Sewerage System - Department of Public Works, County of Maui</u> | Kihei, Maui | The proposed project provides for construction of a sewage collection system and waste-water reclamation plant for an area extending from Wailea northward to Kihei. | 5/29 |

Final Environmental Impact Statement

| | | | |
|--|------------------|--|-----|
| *1. <u>Paahai Urban Renewal Project Hawaii R-15 - Honolulu Redevelopment Agency, City and County of Honolulu</u> | Honolulu, Hawaii | The Paahai Project is the first increment of the Chinatown General Neighborhood Renewal Area. It would involve the clearing of a majority of the buildings in the area, displacement of its residents and construction of various buildings for residential and business purposes. It also includes construction of supporting facilities such as drainage, streets, alleys and utility lines. | 5/2 |
|--|------------------|--|-----|

Statement of Non-Impact

Due Date for CEQC's Reply to the Expanding Agency

Project Name Expanding or Initiating Agency

Location

Description

1. Water Storage Reservoir, Transmission Line, and Access Road
Department of Water Supply, County of Hawaii

Waiakoa, South Kilauea Forest Reserve, Hawaii
 The proposed site is situated in the Waiakoa Forest Reserve. It will provide water to the Kilauea and County Estates (39 lots from Waiakoa Uka Springs). The project involves the construction of a 20,000 gallon reinforced concrete water reservoir, a 20-foot easement access road (2,000 feet long), and the installation of an 8 inch iron ductile water transmission line.

4/26

Construction of Segmented Circle Airport Marker System for Three (3) Airports
Department of Transportation

- (1) Fana Airport, Hawaii
- (2) Lanai Airport, Lanai
- (3) Waiakoa Airport, Lanai

Project consists of installing segmented circle and traffic pattern indicators around an existing field at each airport to meet the airport certification requirements (FAA).

4/30

Mihoilo Elementary School - Department of Accounting and General Services

Honolulu, Hawaii
 The project will consist of constructing a paved (asphalt) parking lot for about 25 automobiles encompassing an area of approximately 10,000 square feet. It will consist of demolishing a two story building's cottage and construction of approximately 1,100 square feet.

4/30

Runway Shoulder Modification at Kaneohe International Airport
Department of Transportation

Kaneohe, Hawaii
 This project will consist of raising the runway shoulders to a sufficient runway width grade. The raising of shoulders will eliminate the need for aircraft operations. It is also a requirement for aircraft certification (FAA).

4/30

5/1

The project consists of clearing and grubbing, restoring the sprinkler system and landscaping including replacing dead trees and plants, and placing gravel within the treatment plant site.

Waimanalo,
Oahu

*5. Landscaping and Sprinkler System, Waimanalo Core Sewerage System - Department of Land and Natural Resources

5/1

The project calls for constructing approximately a mile of pipeline along an existing road to serve the proposed Keonepoko Iki farm lot subdivision. The pipeline will enable the land to be subdivided and will provide water for the tenants who will be living and farming the proposed farm lots.

Puna,
Hawaii

*6. Waterline for Keonepoko Iki Farm Lot Subdivision Department of Land and Natural Resources

*New entry from last week.