

DOCKETED

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Application for Certification (15-AFC-01)

Puente Power Project (P3)
Oxnard, CA

Responses to CEC Data Request Set 2 **Appendix 74-1**



November 2015

Submitted to:
The California Energy Commission



Prepared by:  **sierra research**
AIR POLLUTION RESEARCH & CONTROL
ENVIRONMENTAL PROJECT MANAGEMENT
A Trinity Consultants Company

AECOM

**MANDALAY GENERATING STATION
PHASE II ENVIRONMENTAL SITE ASSESSMENT**

June 1997

Submitted to
Southern California Edison Company

Volume 1

Prepared by:



CH2MHILL

*3 Hutton Centre Drive, Suite 200
Santa Ana, CA 92707*

Revision: Final

EP014 0902



CH2MHILL

CH2M HILL
3 Hutton Centre Drive
Suite 200
Santa Ana, CA
92707
Tel 714.429.2000
Fax 714.429.2050

August 27, 1997

137125.ED.PM

Mr. Jeff Koch
Attorney
Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770

Dear Mr. Koch:

Subject: Phase I and Phase II Environmental Site Assessment Clarifications
Mandalay Generating Station
Edison P.O. Number C4096906

The purpose of this letter is to provide supplemental information and clarification of issues regarding site specific features at the Mandalay Generating Station (MGS). This letter serves as an addendum to the Southern California Edison (Edison) MGS Phase II Environmental Site Assessment (prepared by CH2M HILL, June 1997).

The Phase I Environmental Site Assessment (ESA) for the MGS, dated May 1997, was prepared based on observations and reported conditions at the site visit performed at the MGS on June 18, 1996. Pages 25 and 26 of the Phase I ESA indicated that the marine terminal facility consisted of several hundred feet of a flexible pipeline. Since this time, Edison has informed CH2M HILL that "the facility is actually composed of over 5,000 feet of steel pipe that runs from on top of the ocean bottom, underneath the sand dunes, and into the station proper." This clarification does not change any recommendations or conclusions of the MGS Phase II ESA.

Page 24, item 8 of the Phase I ESA does not make reference to the sand blast grit disposal areas since they were not discovered during the Phase I ESA site reconnaissance and records review. During performance of the Phase II ESA, however, Edison reported two sand blast grit disposal areas that CH2M HILL subsequently investigated as part of the Phase II ESA dated June 1997. This clarification does not change any recommendations or conclusions of the MGS Phase II ESA.

Following final submittal of the MGS Phase II ESA, CH2M HILL was informed that Edison currently holds a permit for a container-crushing and puncturing device at the MGS issued by the Department of Toxic Substances Control (DTSC) (see attached). This DTSC permit authorizes puncturing and crushing of aerosol cans, containers, and drums of 110-gallon capacity or less. The MGS currently uses only an aerosol can-puncturing device located



EDD 003719

EP014 0903

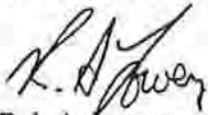
Mr. Jeff Koch
Page 2
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137125.ED.PM

outside the shop and warehouse building (see attached). As the location of a permitted activity with potential for environmental impact, this area is included with the Phase II ESA of the MGS, as amended with this letter. On August 18, 1997, CH2M HILL observed the current location of the can-puncturing device. The can-puncturing device was observed outside the shop area that was paved, and no evidence of staining was observed. The closest sampling conducted during the Phase II ESA included boring MBH34, which is too far from the location to provide any indication of possible contamination related to the device. Based on the visual assessment of the container-puncturing area, no further action is recommended for the can-puncturing area.

If you have any questions pertaining to these documents, please call me at 714/429-2020, extension 2173.

Sincerely,

CH2M HILL



Rob A. Lowey
Assistant Project Manager

h:\work\rapan\ed-out\obgslet.doc

c: Mr. Ralph De La Parra, P.E./Edison
Mr. Bernard J. Rapan, P.E./Edison
Mr. David Barrett/Latham & Watkins
Ms. Cynthia Burch/Munger, Tolles and Olson

DEPARTMENT OF TOXIC SUBSTANCES CONTROL

400 P STREET, 4TH FLOOR

P.O. BOX 805

SACRAMENTO, CA 95812-0805

(916) 323-5871



09/16/94

EPA ID: CAD000630913

SOUTHERN CALIF EDISON/MANDALAY GEN STA
CHRIS JOHNSON
PO BOX 800 #497
ROSEMEAD, CA 91770

For facility located at:

393 N HARBOR BLVD
OXNARD, CA 93030

Authorization Date: 09/16/94

Dear Conditionally Authorized and/or Conditionally Exempt Facility:

ACKNOWLEDGEMENT OF UNITS OPERATING UNDER CONDITIONAL AUTHORIZATION AND/OR CONDITIONAL EXEMPTION

The Department of Toxic Substances Control (DTSC) has received your facility specific notification (form DTSC 1772) and forms for Conditional Authorization and/or Conditional Exemption for Specified Wastestreams (form DTSC 1772B and/or 1772C). Your notifications are administratively complete, but have not been reviewed for technical adequacy. A technical review of your notifications will be conducted when an inspection is performed. At any time, you may be inspected and will be subject to penalty if violations of laws or regulations are found.

The Department acknowledges receipt of your completed notification for the treatment unit(s) listed on the last page of this letter. These units operating under Conditional Authorization or Conditional Exemption are authorized by California law without additional Department action, pursuant to Health and Safety Code sections 25200.3 and 25201.5. Your authorization to operate continues until you notify DTSC that you have stopped treating waste and have fully closed the unit(s). You will be charged annual fees calculated on a calendar year basis for each year you operate and have not notified DTSC that the units have been closed.

You must notify the DTSC 60 days before first treating hazardous wastes in any new unit. You must also notify the DTSC whenever any of the information you provided in these notifications changes. To revise information, mail a cover letter to the above address explaining the changes, attach only the pages of your notification package that have changed, and re-sign and date at the signature space on page 3 of form 1772.

Your status to operate under Conditional Authorization and/or Conditional Exemption is contingent upon the accuracy of information submitted by you in the notifications mentioned above, and your compliance with all applicable requirements in the Health and Safety Code. Any misrepresentation or any failure to fully disclose all relevant facts shall render your authorization to operate null and void.

You are also required to properly close any treatment unit. Additional guidance on closure will be issued and distributed to all authorized onsite facilities later this year.



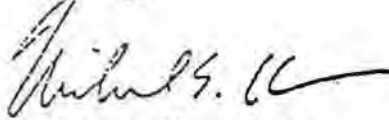
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EP014 0905

If you have any questions regarding this letter, or have questions on operating requirements for your facility, please contact the nearest DTSC regional office, or this office at the letterhead address or phone number.

Sincerely,



Michael S. Horner, Chief
Onsite Hazardous Waste Treatment Unit
Permit Streamlining Branch
Hazardous Waste Management Program

Enclosure

cc: ROY YEAMAN
DTSC REGION 3 OFFICE
SURVEILLANCE & ENFORCEMENT BR.
1011 GRANDVIEW AVENUE
GLENDALE, CA 91201

DONALD W. KOEPP
VENTURA COUNTY
ENVIRON. HEALTH DIVISION-L1730
RESOURCE MANAGEMENT AGENCY
800 SOUTH VICTORIA AVENUE
VENTURA, CA 93009-0001

ENCLOSURE 1

Units authorized to operate at this location:

UNDER CONDITIONAL AUTHORIZATION:

UNDER CONDITIONAL EXEMPTION:

UNIT 1C

Southern California Edison Company

P. O. BOX 800

2244 WALNUT GROVE AVENUE

ROSEMEAD, CALIFORNIA 91770

December 10, 1993

Mr. Donald W. Koepp, Deputy Director
Environmental Health Division - L1730
County of Ventura
800 South Victoria Avenue
Ventura, CA 93009

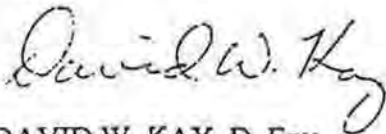
Ladies and Gentlemen:

SUBJECT: TIERED PERMIT APPLICATIONS FOR HAZARDOUS WASTE
TREATMENT UNITS

Southern California Edison Company has revised its applications for Tiered Permits for hazardous waste treatment units located at facilities within your jurisdiction. As required by the California Department of Toxic Substances Control, enclosed for your information are signed copies of the Tiered Permit application forms submitted to the state for those facilities.

Please call me at (818) 302-2149 if you should have any questions.

Sincerely,



DAVID W. KAY, D. Env.
Sr. Environmental Specialist

Check Number

---Staple Check Here---

ONSITE HAZARDOUS WASTE TREATMENT NOTIFICATION FORM FACILITY SPECIFIC NOTIFICATION

For Use by Hazardous Waste Generators Performing Treatment
Under Conditional Exemption and Conditional Authorization,
and by Permit By Rule Facilities

Corrected ☒ Initial
Revised ☐

Please refer to the attached instructions before completing this form. You may notify for more than one permitting tier by using this notification form, DTSC 1772. You must attach a separate unit specific notification form for each unit at this location. There are different unit specific notification forms for each of the four categories and an additional notification form for transportable treatment units (TTU's). You only have to submit forms for the tier(s) that cover your unit(s). Discard or recycle the other unused forms. Number each page of your completed notification package and indicate the total number of pages at the top of each page as the 'Page ___ of ___'. Put your EPA ID Number on each page. Please provide all of the information requested; all fields must be completed except those that state 'if different' or 'if available'. Please type the information provided on this form and any attachments.

The notification will not be considered complete without payment of the appropriate fee for each tier under which you are operating. (Please note that the fee is per TIER not per UNIT. For example, if you operate 5 units but they are all Conditionally Authorized, you only owe \$1,140, NOT 5 times \$1,140. If you operate any Permit by Rule units and any units under Conditional Authorization you owe \$2,280.) Checks should be made payable to the Department of Toxic Substances Control and be stapled to the top of this form. Please write your EPA ID Number on the check. Fill in the check number in the box above.

I. NOTIFICATION CATEGORIES

Indicate the number of units you operate in each tier. This will also be the number of unit specific notification forms you must attach. Conditionally Exempt Small Quantity Treatment operations may not operate units under any other tier.

Number of units and attached unit specific notifications			Fee per Tier (not per unit)
A.	_____	Conditionally Exempt-Small Quantity Treatment (Form DTSC 1772A)	\$ 100
B.	<u>1</u>	Conditionally Exempt-Specified Wastestream (Form DTSC 1772B)	\$ 100
C.	_____	Conditionally Authorized (Form DTSC 1772C)	\$1,140
D.	_____	Permit by Rule (Form DTSC 1772D)	\$1,140
=====			=====
	<u>1</u>	Total Number of Units	Total Fee Attached \$ <u>\$100</u>

II. GENERATOR IDENTIFICATION

EPA ID NUMBER CA D000630913 BOE NUMBER (if available) HF HQ 38000653

NAME (Company or Facility)

(DBA-Doing Business As)

PHYSICAL LOCATION

Southern California Edison Co.

Mandalay Generating Station

393 N. Harbor Blvd.

CITY

Oxnard

CA

ZIP 93030

COUNTY

Ventura

CONTACT PERSON

David

Kay

PHONE NUMBER (818) 302-2149

(First Name)

(Last Name)

For DTSC Use Only

Region _____

CAD000630913

MAILING ADDRESS, IF DIFFERENT:

COMPANY NAME (DBA) Southern California Edison Co.
 STREET Environmental Affairs
P.O. Box 800, Room 497
 CITY Rosemead STATE CA ZIP 91770
 COUNTRY _____
 (only complete if not USA)
 CONTACT PERSON David Kay PHONE NUMBER (818) 302 - 2149
 (First Name) (Last Name)

III. TYPE OF COMPANY: STANDARD INDUSTRIAL CLASSIFICATION (SIC) CODE:

Use either one or two SIC codes (a four digit number) that best describe your company's products, services, or industrial activity.

Example: 7384 Photofinishing lab 3672 Printed circuit boards

First: 4911 Electrical Services Second: _____

IV. PRIOR PERMIT STATUS: Check yes or no to each question:

- | YES | NO | |
|-------------------------------------|-------------------------------------|--|
| ☐ | ☒ | 1. Did you file a PBR Notices of Intent to Operate (DTSC Form 8462) in 1992 for this location? |
| ☒ | ☐ | 2. Do you now have or have you ever held a state or federal hazardous waste facility full permit or interim status for any of these treatment units? |
| ☐ | ☒ | 3. Do you now have or have you ever held a state or federal full permit or interim status for any other hazardous waste activities at this location? |
| ☐ | ☒ | 4. Have you ever held a variance issued by the Department of Toxic Substances Control for the treatment you are now notifying for at this location? |
| ☒ | ☐ | 5. Has this location ever been inspected by the state or any local agency as a hazardous waste generator? |

V. PRIOR ENFORCEMENT HISTORY: Not required from generators only notifying as conditionally exempt.

- | YES | NO | |
|--------------------------|-------------------------------------|---|
| ☐ | ☒ | Within the last three years, has this facility been the subject of any convictions, judgments, settlements, or final orders resulting from an action by any local, state, or federal environmental, hazardous waste, or public health enforcement agency? |

(For the purposes of this form, a notice of violation does not constitute an order and need not be reported unless it was not corrected and became a final order.)

- ☐ If you answered Yes, check this box and attach a listing of convictions, judgments, settlements, or orders and a copy of the cover sheet from each document. (See the Instructions for more information)

VI. ATTACHMENTS:

- ☒ 1. A plot plan/map detailing the location(s) of the covered unit(s) in relation to the facility boundaries.
- ☒ 2. A unit specific notification form for each unit to be covered at this location.

VII. CERTIFICATIONS: *This form must be signed by an authorized corporate officer or any other person in the company who has operational control and performs decision-making functions that govern operation of the facility (per title 22, California Code of Regulations (CCR) section 66270.11). All three copies must have original signatures.*

Waste Minimization I certify that I have a program in place to reduce the volume, quantity, and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment.

Tiered Permitting Certification I certify that the unit or units described in these documents meet the eligibility and operating requirements of state statutes and regulations for the indicated permitting tier, including generator and secondary containment requirements. I understand that if any of the units operate under Permit by Rule or Conditional Authorization, I will also be required to provide required financial assurances by January 1, 1994, and conduct a Phase I environmental assessment by January 1, 1995.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete.

I am aware that there are substantial penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

John R. Fielder
Name (Print or Type)

Signature

Vice President, Regulatory Policy
Title & Affairs

11/24/93
Date/Signed

OPERATING REQUIREMENTS:

Please note that generators treating hazardous waste onsite are required to comply with a number of operating requirements which differ depending on the tier(s) under which one operates. These operating requirements are set forth in the statutes and regulations, some of which are referenced in the Tier-Specific Factsheets.

SUBMISSION PROCEDURES:

You must submit two copies of this completed notification by certified mail, return receipt requested, to:

Department of Toxic Substances Control
Form 1772
Onsite Hazardous Waste Treatment Unit
400 P Street, 4th Floor (walk in only)
P.O. Box 806
Sacramento, CA 95812-0806

You must also submit one copy of the notification and attachments to the local regulatory agency in your jurisdiction as listed in the instruction materials. You must also retain a copy as part of your operating record.

All three forms must have original signatures, not photocopies.

CONDITIONALLY EXEMPT - SPECIFIED WASTESTREAMS

UNIT SPECIFIC NOTIFICATION

(pursuant to Health and Safety Code Section 25201.5(c))

UNIT NAME Container Crushing

UNIT ID NUMBER Unit 1C

NUMBER OF TREATMENT DEVICES: Tank(s)

 1 Container(s)

Each unit must be clearly identified and labeled on the plot plan attached to Form 1772. Assign your own unique number to each unit. The number can be sequential (1, 2, 3) or using any system you choose.

Enter the estimated monthly total volume of hazardous waste treated by this unit. This should be the maximum or highest amount treated in any month. Indicate in the narrative (Section II) if your operations have seasonal variations.

I. WASTESTREAMS AND TREATMENT PROCESSES:

Estimated Monthly Total Volume Treated: 300 pounds and/or gallons

The following are the eligible wastestreams and treatment processes. Please check all applicable boxes:

- ☐ 1. Treats resins mixed in accordance with the manufacturer's instructions.
- ☒ 2. Treat containers of 110 gallons or less capacity that contained hazardous waste by rinsing or physical processes, such as crushing, shredding, grinding, or puncturing.
- ☐ 3. Drying special wastes, as classified by the department pursuant to title 22, CCR, section 66261.124, by pressing or by passive or heat-aided evaporation to remove water.
- ☐ 4. Magnetic separation or screening to remove components from special waste, as classified by the department pursuant to title 22, CCR, section 66261.124.
- ☐ 5. Neutralize acidic or alkaline (base) wastes from the regeneration of ion exchange media used to demineralize water. (This waste cannot contain more than 10 percent acid or base by weight to be eligible for conditional exemption.)
- ☐ 6. Neutralize acidic or alkaline (base) wastes from the food processing industry.
- ☐ 7. Recovery of silver from photofinishing. The volume limit for conditional exemption is 500 gallons per generator (at the same location) in any calendar month.
- ☐ 8. Gravity separation of the following, including the use of flocculants and demulsifiers if
 - ☐ a. The settling of solids from the waste where the resulting aqueous/liquid stream is not hazardous.
 - ☐ b. The separation of oil/water mixtures and separation sludges, if the average oil recovered per month is less than 25 barrels (42 gallons per barrel).
- ☐ 9. Neutralizing acidic or alkaline (base) material by a state certified laboratory or a laboratory operated by an educational institution. (To be eligible for conditional exemption, this waste cannot contain more than 10 percent acid or base by weight.)

3 2

CONDITIONALLY EXEMPT - SPECIFIED WASTESTREAMS
UNIT SPECIFIC NOTIFICATION
(pursuant to Health and Safety Code Section 25201.5(c))

NARRATIVE DESCRIPTIONS: *Provide a brief description of the specific waste treated and the treatment process used.*

1. **SPECIFIC WASTE TYPES TREATED:** Aerosol cans, containers, drums.
2. **TREATMENT PROCESS(ES) USED:** Puncturing, drum crushing.

III. RESIDUAL MANAGEMENT: *Check Yes or No to each question as it applies to all residuals from this treatment unit.*

YES NO

- ☐ ☒ 1. Do you discharge non-hazardous aqueous waste to a publicly owned treatment works (POTW)/sewer?
- ☐ ☒ 2. Do you discharge non-hazardous aqueous waste under an NPDES permit?
- ☒ ☐ 3. Do you have your residual hazardous waste hauled offsite by a registered hazardous waste hauler?
If you do, where is the waste sent? *Check all that apply.*
- ☒ a. Offsite recycling
- ☐ b. Thermal treatment
- ☐ c. Disposal to land
- ☒ d. Further treatment
- ☒ ☐ 4. Do you dispose of non-hazardous solid waste residues at an offsite location?
- ☒ ☐ 5. Other method of disposal. Specify: Scrap metal is recycled.

IV. BASIS FOR NOT NEEDING A FEDERAL PERMIT:

In order to demonstrate eligibility for one of the onsite treatment tiers, facilities are required to provide the basis for determining that a hazardous waste permit is not required under the federal Resource Conservation and Recovery Act (RCRA) and the federal regulations adopted under RCRA (Title 40, Code of Federal Regulations (CFR)).

Choose the reason(s) that describe the operation of your onsite treatment units:

- ☐ 1. The hazardous waste being treated is not a hazardous waste under federal law although it is regulated as a hazardous waste under California state law.
- ☐ 2. The waste is treated in wastewater treatment units (tanks), as defined in 40 CFR Part 260.10, and discharged to a publicly owned treatment works (POTW)/sewerage agency or under an NPDES permit. 40 CFR 264.1(g)(6) and 40 CFR 270.2.

CONDITIONALLY EXEMPT - SPECIFIED WASTESTREAMS

UNIT SPECIFIC NOTIFICATION

(pursuant to Health and Safety Code Section 25201.5(c))

IV. BASIS FOR NOT NEEDING A FEDERAL PERMIT: (continued)

- ☐ 3. The waste is treated in elementary neutralization units, as defined in 40 CFR Part 260.10, and discharged to a POTW/sewering agency or under an NPDES permit. 40 CFR 264.1(g)(6) and 40 CFR 270.2.
- ☐ 4. The waste is treated in a totally enclosed treatment facility as defined in 40 CFR Part 260.10; 40 CFR 264.1(g)(5).
- ☐ 5. The company generates no more than 100 kg (approximately 27 gallons) of hazardous waste in a calendar month and is eligible as a federal conditionally exempt small quantity generator. 40 CFR 260.10 and 40 CFR 261.5.
- ☐ 6. The waste is treated in an accumulation tank or container within 90 days for over 1000 kg/month generators and 180 or 270 days for generators of 100 to 1000 kg/month. 40 CFR 262.34, 40 CFR 270.1(c)(2)(i), and the Preamble to the March 24, 1986 Federal Register.
- ☐ 7. Recyclable materials are reclaimed to recover economically significant amounts of silver or other precious metals. 40 CFR 261.6(a)(2)(iv), 40 CFR 264.1(g)(2), and 40 CFR 266.70.
- ☒ 8. Empty container rinsing and/or treatment. 40 CFR 261.7.
- ☐ 9. Other: Specify: _____

V. TRANSPORTABLE TREATMENT UNIT: Check Yes or No. Please refer to the Instructions for more information.

YES NO

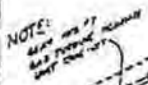
☐☒

Is this unit a Transportable Treatment Unit?

If you answered yes, you must also complete and attach Form 1772E to this page.

The Tier-Specific Factsheets contain a summary of the operating requirements for this category. Please review those requirements carefully before completing or submitting this notification package.

ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED



**MANDALAY GENERATING STATION
PHASE II ENVIRONMENTAL SITE ASSESSMENT**
June 1997

Submitted to
Southern California Edison Company

Volume 1

Prepared by:



CH2MHILL

*3 Hutton Centre Drive, Suite 200
Santa Ana, CA 92707*

Revision: Final

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3. Site Investigation Methods and Rationale
4. Summary of Analytical Screening Criteria
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7. Soil Analytical Data
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FIGURES

1. Site Vicinity Map
2. Mandalay Generating Station Facilities Map
3. Mandalay Generating Station—Cooling Water Intake Canal Map
4. Sample Location Map
5. Sample Location Map—Cooling Water Intake Canal

APPENDIXES

- A. Soil Boring Logs
- B. Sample Location Control Data
- C. Laboratory Analytical Data, Chain-of-Custody Forms, and Data Validation Reports

Executive Summary

At the request of Southern California Edison Company (Edison), CH2M HILL performed a Phase II Environmental Site Assessment (ESA) of the Mandalay Generating Station (MGS) located at 393 North Harbor Boulevard in Oxnard, California (Figure 1, Site Vicinity Map, and Figure 2, Mandalay Generating Station Facilities Map). The MGS property has been owned and operated by Edison as an electric generating station since 1956. The Phase II ESA was performed to evaluate the environmental condition of the MGS by investigating further evidence of recognized environmental conditions and areas of potential concern identified in Phase I ESA Report (CH2M HILL, 1997) and other areas of potential concern identified during performance of the Phase II ESA. The primary objective of the Phase II ESA was to determine whether any action is required to address hazardous substances or petroleum products at locations identified as recognized environmental conditions and areas of potential concern at the MGS. A secondary objective was to obtain initial information pertaining to the nature and extent of contaminants identified.

To address these objectives, the following major activities were conducted:

- A comprehensive review of readily available documentation of past and present facility usage and relevant investigations was performed. Both Edison and regulatory agency files were reviewed;
- Interviews with appropriate Edison staff were conducted to obtain additional information;
- A sampling and analysis plan was prepared and implemented to investigate the potential for contamination in soil and groundwater and, if contamination was detected, to provide initial information regarding the nature and extent of the contamination;
- This Phase II ESA Report was prepared to present a summary of the Phase II ESA investigation activities, the investigation results, and the conclusions and recommendations made for each site feature investigated.

Based on the results of the Phase II ESA investigation, no further action is recommended for the site features identified below:

- Hazardous Waste Site at Nearby Property on W. 5th Street at Harbor Boulevard
- Former Underground Storage Tanks Area
- Peaker Unit Fuel Pumping Area
- Transformers
- Pig Launching Area
- Oil-Spills
- Septic Tank
- Hazardous Waste Storage Areas
- Secondary Fuel Pumping Area
- Demolition Debris Area
- Adjacent Petroleum Facility (Torch Operations Company)

- Suspected Blast Grit Disposal Areas
- Oil Skimmer
- Cooling Water Intake Canal
- Former Drum Storage Area

Site features that were not readily accessible for subsurface investigation or where access to the area was restricted, due to existing structures and/or operations, were either not investigated or the investigation was limited. No further action is recommended for these areas at this time. However, agency negotiations, additional sampling, and/or remediation may be necessary or appropriate as part of facility decommissioning. The site features associated with these areas are identified below:

- Aboveground Storage Tanks
- Primary Fuel Oil Pumping Area
- Switchyard
- Submarine Pipeline Sump
- Dredge Spoil Piles
- Power Block
- Oil/Water Separator and Sump

Edison is currently implementing a Water Quality Monitoring Program to evaluate the potential impact to soil and groundwater by the MGS retention basins, including the retention basins. Results of Edison's investigation are pending. Accordingly, investigation or assessment of the retention basins was not undertaken as part of this Phase II ESA.

1.0 Introduction

Southern California Edison (Edison) owns and operates an electrical generating station located at 393 North Harbor Boulevard in Oxnard, California (Figure 1, Site Vicinity Map). At request of Edison, CH2M HILL conducted a Phase I Environmental Site Assessment (ESA) (CH2M HILL, 1997) of the Mandalay Generating Station (MGS) to achieve the following objectives:

- Provide factual information that may be considered in an appraisal of the facility and adjacent property;
- Provide factual information that may be factored into an application for rate recovery in connection with environmental conditions at the facility;
- Assist in providing full disclosure of environmental conditions to prospective buyers of the facility.

Subsequent to the Phase I ESA, Edison contracted with CH2M HILL to conduct a Phase II ESA to evaluate soil and groundwater conditions at the site features identified as recognized environmental conditions (RECs) or areas of potential concern (AOPCs).

This report presents the findings of the Phase II ESA and is organized into the following general sections:

- **INTRODUCTION**—This section presents the purpose and scope of the Phase II ESA, a description of the facility, and a summary of RECs and AOPCs.
- **METHODOLOGY**—This section presents a summary of previous environmental investigations and remediations, interviews conducted with Edison staff, and a summary of the basis of work and field activities performed at the MGS.
- **RESULTS AND DATA EVALUATION**—This section presents a summary of the data and findings (i.e., a summary of the local topography, geology and hydrogeology, sample analytical results, and data validation), the criteria used to screen the analytical data, and an assessment of environmental conditions.
- **CONCLUSIONS**—This section summarizes the findings and conclusions of the Phase II ESA.
- **LIMITATIONS**—This section provides the limitations on the information and data collected for the Phase II ESA.
- **REFERENCES**—This section lists the bibliographic information on references cited in this Phase II ESA Report.

1.1 Purpose and Scope

At the request of Edison, CH2M HILL performed a Phase II Environmental Site Assessment (ESA) at the MGS (Figure 1). The purpose of the Phase II ESA performed at the MGS is to

evaluate soil and groundwater conditions at site features identified as RECs or AOPCs. The primary objective of the Phase II ESA was to determine whether any action is required to address hazardous substances or petroleum products at the facility. A second objective was to obtain initial information pertaining to the nature and extent of contaminants identified.

To address these objectives, the following major activities were conducted:

- A comprehensive review of readily available existing documentation of past and present usage and relevant investigations including review of both Edison and agency files;
- Interviews with appropriate Edison staff to obtain additional information and results of ongoing investigations; and
- Preparing and implementing a Sampling and Analysis Plan to investigate the potential for contamination in soil and groundwater and if contamination was detected, to provide information regarding the nature and extent of contamination.

1.2 Site Location and Description

Edison currently owns and operates, an electric generating station in Oxnard, California. The station is approximately 115 acres in size and is located approximately 4 miles west of Oxnard, California, as shown in Figure 1, Site Vicinity Map. The MGS facilities and site layout are shown in Figure 2.

The MGS is located just north of a vacant beachfront. A petrochemical facility is located to the southwest, vacant beachfront to the north, and a go-cart training track to the northeast. The eastern boundary of the property is Harbor Boulevard, across which are an Edison switchyard and oil production fields. The Pacific Ocean is due west of the MGS. A canal owned by Edison flows from the Channel Island Harbor to the MGS. Water from the canal is used at the MGS for cooling, and is subsequently discharged to the Pacific Ocean. Edison reported the existence of a County-operated landfill approximately 1/2-mile south of the MGS.

The current use of this facility is an electric generating station comprised of three gas/oil/distillate-fueled generating units. The predominant structures located on the property include large aboveground steel tanks containing petroleum products; process units including boilers, tanks, and various mechanical equipment and vessels; lined retention basins; and buildings used for offices, training, and control and maintenance operations.

The term power block as used in this report refers to the part of the generating station where energy is converted from a fuel (fuel oil, distillate, or natural gas) to electricity. Contained within the power blocks are various structures (such as battery rooms, lube oil rooms, elevators, various sumps, and control rooms) and equipment (such as boilers, pre-heaters, blowers, and turbines).

The MGS is a former beach dune area that has been graded to provide the present configuration. Historical records indicate that the first development activity on the property appeared in 1956, when Edison began construction of the generating station. After this date, Edison continued to use the property for electric generation.

2.0 Methodology

This section presents a summary of relevant ESA work previously performed at the facility, interviews conducted with Edison staff, information obtained during the regulatory agency file review, the site features investigated, and a summary of the basis of work, and field activities performed by CH2M HILL at the MGS facility.

2.1 Summary of Previous Environmental Investigations and Remediations

Several environmental investigations and/or remediations were previously conducted at the MGS prior to the Phase II ESA. Data from these previous investigations and remediations that are pertinent to the Phase II ESA are contained in Appendix A. The locations of these previous site activities are shown in Figure 4.

Two specific areas at the MGS were previously investigated and, because sufficient data already exists for these areas, they were not included in the Phase II ESA subsurface investigation. These areas are a former gasoline underground storage tank (UST) area and a suspected blast grit disposal area. One 1,000-gallon gasoline UST was removed in 1995 (Holguin, Fahan and Associates, Inc., 1995). The County of Ventura Environmental Health Division determined that cleanup of the UST area is complete (County of Ventura, 1996). A suspected blast grit disposal area was excavated in 1993, and sample results indicated the remediation was complete (SCE, 1996a).

Three past oil spills are reported and documented to have occurred at the MGS. These oil spills were either isolated and cleaned up by Edison or determined by Edison to have not affected marine life or beaches (Southern California Edison, 1996a). Therefore, no additional Phase II subsurface investigations for these areas were performed.

Four specific areas or features at the MGS that have undergone environmental investigations were included in the Phase II ESA subsurface investigation. They include a submarine pipeline valve pit investigated in 1993 (SCE, 1993b); the west fuel oil tank investigated in 1994 (SCE, 1994); the peaker distillate tank investigated in 1995 (SCE, 1995a), and the primary fuel pump area investigated in 1994 (Simon Hydro-Search, 1994). The results of these previous investigations were either inconclusive, or visual observation indicated potential for a remaining impact to soil, or records reviewed indicated data gaps exist that require further investigation. Consequently, these areas were included in the Phase II ESA subsurface investigation.

On May 15, 1997, Edison reported that an oil/water spill was reported to have occurred at the nearby JNJ facility. The spill reportedly entered the canal and contaminated Edison property at the MGS canal. Edison did not have any documentation of the spill or records of any remedial actions. A release was reported to have occurred at the power block area units 1 and 2 in 1984. No other information was available about this release from Edison.

In addition to the above investigations, subsurface investigation of surface impoundments, including retention basins, is currently being conducted by Edison in response to a

corporate-wide negotiated order from DTSC. The investigation includes soil chemistry and groundwater sampling at the retention basins. This investigation is in progress and results are pending. Investigation and/or assessment of the retention basin areas is outside the scope of this Phase II ESA.

2.2 Interviews Conducted

Interviews were conducted with generating station and general office personnel. Questions were asked concerning unresolved issues in the Phase I ESA and other areas of potential environmental concern, including demolition debris, underground storage tanks, transformers, pipelines, the dredge spoil piles, and septic tanks.

2.3 Regulatory Agency File Review

CH2M HILL completed a review of regulatory agency files for the MGS during January and March 1997. Regulatory agencies files were also reviewed for three properties adjacent to the MGS that are identified in Table 1 as being areas of potential concern because of potential groundwater or surface water contamination impacts to the MGS. The specific agencies visited and the relevant results of the file reviews are described below. Copies were made of documents that contained pertinent and relevant information for additional review and evaluation.

U.S. EPA

CH2M HILL visited the U.S. Environmental Protection Agency (EPA) office in San Francisco, California, in January 1997, and reviewed the file for the MGS. The file contained copies of permit applications, permits, NPDES monitoring reports, and miscellaneous correspondence.

RWQCB, Los Angeles

The RWQCB does not maintain a file for the MGS.

DTSC

CH2M HILL visited the DTSC office in Glendale, California, in March 1997, and reviewed the file for the MGS. The file contained copies of Uniform Hazardous Waste Manifests and miscellaneous correspondence.

Oxnard Fire Department

CH2M HILL visited the Oxnard Fire Department in January 1997, and reviewed the file for MGS. The file contained copies of inspection reports, chemical inventory documents, and permit for hazardous materials.

City of Oxnard Building Department

The City of Oxnard Building Department does not maintain a file for the MGS. Based on the information reviewed at the regulatory agencies listed above, no additional areas of potential concern have been identified at the MGS.

Department of Fish and Game

The Department of Fish and Game, Region 5, was contacted for information related to any citations issued to Edison for the MGS. Based on a computer search and physical search of the files performed by the Department of Fish and Game, there are no reported citations related to the MGS.

Offsite Properties

CH2M HILL visited the RWQCB and reviewed documentation for the Torch Operating Company, JNJ Sales and Service, and Carney and Sons Landfill/JNJ Oil sites, located at 201 N. Harbor Boulevard, W. 5th Street at Harbor Boulevard, and 5th Street and Harbor Boulevard, respectively; no files existed for any of these offsite properties at the RWQCB. No files existed for the Torch Operating Company at the RWQCB. However, a file for the Carney and Sons Landfill/JNJ Oil site was reviewed. The file contained Discovery, CERCLA Screening Site Inspection, and Profile Reports, and miscellaneous correspondence. No information was found that indicated any impacts to the MGS property.

2.4 Summary of Investigated Site Features

CH2M HILL performed a Phase I ESA at the MGS facility in 1997. This assessment revealed evidence of a number of recognized environmental conditions and areas of potential concern. During the data evaluation and personnel interviews conducted in preparation for the Phase II ESA subsurface investigation, evidence of additional areas of potential concern beyond those identified in the Phase I ESA was revealed at the MGS. A summary of the site features investigated at the MGS as part of the Phase II ESA, the issues addressed, the investigation performed, results of the investigations, and the recommendations consequently made for each site feature is presented in Table 1.

2.5 Basis of Work and Field Activities

The Phase II ESA investigation was performed in accordance with the Sampling and Analysis Plans and Quality Assurance Project Plans, Phase II Environmental Site Assessments, SCE Generating Stations, dated October 18, 1996, prepared by Hydro-Search, Inc., CH2M HILL, and Geraghty & Miller, Inc. (SAP/QAPP) (Hydro-Search, Inc., et al., 1996), the CH2M HILL Addendum No. 1 to the SAP/QAPP dated January 24, 1997, and the CH2M HILL Addendum No. 2 to the SAP/QAPP dated May 15, 1997.

As indicated in the SAP/QAPP, the majority of the site features to be investigated, as presented in Table 1, can be assigned to one of the following general categories of site features that comprise a typical electric generating station:

- Cooling Towers
- Underground Storage Tanks
- Belowgrade Tanks and Sumps
- Aboveground Tanks
- Switchyard(s)
- Power Block and Auxiliary Units
- Transformers
- Retention Basins

- Pipelines, either above- or belowground, abandoned or in use
- Fuel Pumping Areas

The site features at the MGS that required investigation as part of the Phase II ESA and that could be assigned to one of the general categories listed above were investigated in accordance with the guidelines presented in Table 2. These guidelines were established in the SAP/QAPP to provide a consistent approach for each similar site feature with respect to the number of soil borings per area, soil sample collection depths, and the minimum analytical requirements.

In addition to the typical areas of potential concern identified in Table 2 for electric generating stations, features that are unique to the MGS facility were also identified for investigation. As indicated in the SAP/QAPP, five unique site features were proposed for investigation at the MGS. These unique features include potential impacts from an adjacent petroleum facility (Torch Operating Company), two hazardous waste storage areas, a septic tank, a canal dredge spoils area, and stained soil adjacent to an oil skimmer. Specific issues associated with each of these unique site features and a description of the investigation activities performed as part of the Phase II ESA are presented below.

- **Adjacent Petroleum Facility**—The Torch Operating Company, a petroleum facility, is located adjacent to and southwest of the MGS property boundary. Six borings were advanced along the MGS-Torch Operating Company property boundary to assess potential impact on the MGS from the Torch Operating Company. Soil and groundwater samples were collected from all but one location where just groundwater was collected. Samples were analyzed for total petroleum hydrocarbons-diesel (TPH-D) and volatile organic compounds (VOCs). Where field monitoring instruments indicated the presence of VOCs, soil and groundwater samples were analyzed for VOCs. Soil and groundwater samples collected from one location were also analyzed for polychlorinated biphenyls (PCBs) because that location is adjacent to a transformer belonging to the Torch Operating Company.
- **Hazardous Waste Storage Areas**—Two hazardous waste storage areas are located adjacent to each other at the MGS. One area is no longer used to store hazardous waste. The history and nature of waste stored at this location are unknown. The current hazardous waste storage area is used to store various drums and containers of waste lube oil and other facility chemicals. Two soil borings were advanced at the hazardous waste storage areas. Soil samples were collected from each sample location and a groundwater sample was collected from a location downgradient of the storage areas. The soil samples were analyzed for TPH-D, California Assessment Manual (CAM) metals, PCBs, and VOCs. The groundwater sample was analyzed for TPH-D, CAM metals, and VOCs.
- **Septic Tank**—One septic tank is located at the MGS. The septic tank receives water from lavatories and a machine shop sink. Two soil borings were advanced in the vicinity of the septic tank to investigate potential impacts to soil or groundwater. Soil samples were collected from each sample location, and one groundwater sample was collected from the location downgradient of the tank. The soil and groundwater samples were analyzed for TPH-D, CAM metals, and VOCs.
- **Dredge Spoil Piles**—An area containing a several-foot-thick pile of canal dredge spoils was investigated during the Phase II ESA to investigate potential impacts to soil or

groundwater. Seven soil borings were advanced at the spoils area. Soil samples were analyzed for TPH-D, PCBs, and CAM metals. Four groundwater samples were collected around the perimeter of the dredge spoils and analyzed for VOCs and CAM metals.

- **Oil Skimmer**—An oil skimmer is located adjacent to the MGS retention basins. Significant soil staining was observed on the ground surface adjacent to the skimmer. One soil boring was advanced at the skimmer unit to investigate potential subsurface impacts. Soil samples were collected and analyzed for TPH-D and CAM metals.

The locations and rationale for the soil and groundwater samples collected during the Phase II ESA investigation are presented in Table 3. Sample locations are shown in Figures 4 and 5. In general, the soil and groundwater samples collected during performance of the Phase II ESA investigation were analyzed in accordance with the following standard laboratory analytical test methods. Soil samples were analyzed for volatile organic compounds in accordance with EPA Method 8260; total petroleum hydrocarbons - diesel in accordance with EPA Method 8015, modified to detect diesel; California Assessment Manual metals in accordance with EPA Methods 200.7, 6010, 7471, and 7841, as noted in Appendix D; pesticides in accordance with EPA Method 8080; herbicides in accordance with EPA Method 8151; and polychlorinated biphenyls in accordance with EPA Method 8080. Groundwater samples were analyzed for volatile organic compounds in accordance with EPA Method 524.2; total petroleum hydrocarbons-diesel in accordance with EPA Method 8015, modified to detect diesel; and California Assessment Manual metals in accordance with EPA Methods 200.7, 6010, 7471, and 7841, as noted in Appendix D.

As indicated above, the Phase II ESA investigation was performed in accordance with the SAP/QAPP. Modifications and deviations from the SAP/QAPP and the rationale for the deviations are summarized below.

- If VOCs were consistently detected in the headspace of soil sampling tubes, above concentrations of about 200 parts per million (ppm), the soil sample collected from that boring location with the highest headspace reading was analyzed for VOCs, in addition to the compounds identified in the SAP/QAPP. The additional analyses were performed in an attempt to identify the source constituents of the headspace reading. Further, if a groundwater sample was to be collected from the given location, the groundwater sample was also analyzed for VOC content in addition to the compounds identified in the SAP/QAPP. The rationale for using a value of about 200 ppm is based on the actual background values measured in the field that were representative of locations where sampling was occurring. This rationale was adopted to optimize the frequency and number of VOC samples taken and analyzed at the MGS.
- If an area of dark stained soil was observed in a borehole, a sample of the stained soil was collected and analyzed for TPH-D.
- Actual sample depths may vary from the SAP based on field observations including sample recovery, visual observations, and depth to groundwater. Examples of observations include discolored soil, odor, and encountering groundwater above the bottom elevation of an underground tank or sump.
- A canal that provides cooling water from Channel Island Harbor to the MGS is located to the east and south of the MGS facility. Five composite sediment samples from the

MGS cooling water intake canal were collected. The sediment samples were analyzed for TPH-D, pesticides, herbicides, and CAM metals.

The actual number of samples collected, sample depths and analysis performed are presented for each site feature investigated in Section 3.

3.0 Subsurface Investigation Results and Data Evaluation

This section presents a description of the local topography, and the general geologic and hydrogeologic setting; a brief summary of the specific sampling activities performed at each area investigated at the MGS during performance of the Phase II ESA; sample analytical results; and data validation documentation. This section also presents the criteria used to screen the Phase II ESA analytical data and an assessment of the MGS environmental conditions.

3.1 Site Topography, Geology, and Hydrogeology

The MGS is located within the Oxnard Plain Basin immediately inland from Mandalay Beach. The Oxnard Plain is a flat alluviated area generally located between the mouth of the Santa Clara River and the center of the coastal reach of Ventura County. The Oxnard Plain is bounded on the northwest by the foothills of Sulphur Mountain, on the southeast by the Santa Monica Mountains, and inland by South Mountain and the Camarillo Hills. To the southwest of the Oxnard Plain is the Pacific Ocean. The present surface of the Oxnard Plain is a broad floodplain formed by meandering streams, wind-blown sand and silt, and backfilled lagoons. The approximate groundwater elevation at the MGS is 10 to 15 feet above mean sea level (msl).

Surface soils at the MGS consist of loose, fine to medium-grained aeolian sands that form brush covered dunes. Subsurface soils generally consist of dense sands and gravels.

A description of the hydrogeology at the site is presented in a report prepared by Edison titled *Water Quality Monitoring Program Mandalay Generating Station* dated April 1996 (SCE, 1996b). The following is extracted from that report.

The site is directly underlain by the Perched Aquifer. The Perched Aquifer begins at an approximate elevation of 4 feet msl, is approximately 135 to 160 feet thick, and principally consists of fine to medium sand. Thin interbeds of gravel, silt, and clays are locally present. This aquifer is unconfined and the saturated zone begins at about an elevation of 4 feet msl. The cooling water canal that flows from inland areas to the facility is in hydraulic communication with the Perched Aquifer. Groundwater in the Perched Aquifer flows to the south-southeast toward the cooling water intake channel.

Underlying the Perched Aquifer is a clay aquitard. The aquitard is 20 to 25 feet thick and separates the Perched Aquifer from the Oxnard Aquifer. Underlying the clay aquitard is the Oxnard Aquifer. The top of the Oxnard Aquifer occurs at an elevation of approximately -150 feet msl. The upper portion of the Oxnard Aquifer is composed of medium sand. Onsite borings have not extended into the lower portions of the aquifer. The Oxnard aquifer is an important water bearing unit in the Oxnard Plain Basin and consists of a series of upper Pleistocene river-deposited gravels.

It is estimated that locally, the alluvial deposits that form the Oxnard aquifer extend to a depth of approximately 250 feet (SCE, 1957). Underlying the alluvium is a sequence of

thick, undifferentiated Pleistocene and Pliocene fine sands and silts, at varying degrees of consolidation. These are believed to extend to a depth of several thousand feet. Underlying this unit is an undetermined thickness of Tertiary marine and continental shale, siltstone, sandstone, and conglomerate.

3.2 Analytical Data Screening Criteria

A set of screening criteria has been established for consistent evaluation of the analytical test results. Comparing sample results to the screening criteria analytical levels provides an indication of environmental conditions that may or may not require future action at the MGS (e.g., site assessment, risk analysis, remediation).

Soil

Soil sample analytical results were compared to the screening criteria presented below.

- TPH and benzene, toluene, ethylbenzene, and xylene (BTEX) were compared to Soil Screening Levels published by the California Regional Water Quality Control Board, Los Angeles Region (LARWQCB) in their May 1996 *Interim Site Assessment and Cleanup Guidebook*. These Soil Screening Levels are summarized in Table 4. Although these thresholds are not promulgated, they provide a conservative screening criteria for evaluation of TPH and BTEX analytical results.

The MGS is located adjacent to the Pacific Ocean and, consequently, groundwater beneath the site has been impacted by salt water intrusion. Total dissolved solids (TDS) have been measured in groundwater at concentrations up to 35,000 mg/L at the MGS, which is above the RWQCB exemption criteria (3,000 mg/L) for defining groundwater considered to be a drinking water resource or having beneficial uses under SWRCB Resolution 88-63. Accordingly, the highest LARWQCB screening levels were selected to evaluate TPH and BTEX analytical data.

Note that results for soil and groundwater samples analyzed for total petroleum hydrocarbons-diesel (TPH-D) in accordance with EPA Method 8015, modified to detect diesel, are reported with respect to two carbon ranges, C10 to C24 and C25 to C40. The data are reported in accordance with these carbon ranges to differentiate the TPH sufficiently to compare the detected concentrations in soil against the LARWQCB soil screening levels for TPH. Consequently, when a sample was analyzed for TPH-D, the method is called out as such in the text. Likewise, if a given carbon range was detected, the results are identified in the text as "TPH_(C10-C24)" or "TPH_(C25-C40)" as appropriate. For samples analyzed for BTEX and TPH-gas in accordance with EPA Method 8015/8020, modified, the TPH-gas results are reported in the text as "TPH_(C4-C210)" in accordance with the respective carbon range, again to readily allow for comparison against the LARWQCB soil screening levels for TPH.

- The Toxic Substance Control Act (TSCA) cleanup threshold for total PCBs of 50 ppm was selected to evaluate PCB concentrations detected in soil. These soil screening levels are presented in Table 4. Note that there is no criteria for TPH detected in groundwater.
- Concentrations of other constituents detected in the soil samples were compared to U.S. Environmental Protection Agency (EPA) Region IX generic Preliminary Remediation Goals (PRGs), if available, for soil under industrial land use conditions. These PRGs are

summarized in Table 4. In general, these PRGs are conservative, health-based standards (i.e., incremental cancer risk less than 10^{-6} , and a noncancer hazard index less than one). In addition, these thresholds are also typically protective of groundwater resources. A site-specific risk assessment may demonstrate that less stringent PRGs would be appropriate at the MGS. It should be noted that soils naturally contain metals, so quantifiable detected values are normal and expected.

As a secondary screening step soil samples analytical results for CAM metals were compared to total threshold limit concentrations (TTLCs). TTLCs represent criteria for determining if a waste is hazardous (Title 22, 66261.24). Based on this screening, no soil samples had metal concentrations above the TTLCs.

Arsenic was frequently detected in soil samples collected during the MGS Phase II ESA investigation. In most cases, arsenic was the only CAM metal that exceeded the PRG screening criteria and was typically detected at concentrations less than 8 milligrams per kilogram (mg/kg). A report on element concentrations in soils of the conterminous United States, prepared by the U.S. Geological Survey indicates that the mean arsenic concentration in the western United States is 7 mg/kg (USGS, 1984) and the typical range for background is <0.1 mg/kg to 97 mg/kg. These data suggest that in soil samples collected at the MGS, where arsenic is the only CAM metal detected above the screening criteria and it was present at concentrations below about 8 mg/kg, these occurrences of arsenic may be attributable to naturally occurring background concentrations and, therefore, pose no material risk of harm to public health or the environment.

PCBs

Wipe sample analytical results were compared to the TSCA cleanup requirements for large spills of low-concentration PCBs and all spills of high-concentration PCBs. Although these requirements are most likely not directly applicable to conditions at the MGS (primarily because they apply to spills that occurred prior to May 4, 1987), they are currently the only available quantitative cleanup standards for wipe samples analyzed for PCBs. Consequently, they provide a quantitative criteria for evaluation of PCB concentrations detected in wipe samples from the MGS.

The wipe sample data were compared against a screening criteria of 100 micrograms (μg)/100 square centimeters (cm^2), which is the TSCA cleanup requirement for both solid surfaces in outdoor electrical substations and for low contact, outdoor surfaces in other restricted access (nonsubstation) areas.

Groundwater

Groundwater analytical data were compared to the State of California Maximum Contaminant Levels (MCLs) for drinking water. An applicable compilation of the state and federal MCL drinking water standards is also provided in Table 4. In the absence of state MCLs, the default value used is the federal MCL drinking water standard. Note that there is no criteria for TPH detected in groundwater.

Sample results for the MGS have been compared to these screening levels. The screening criteria used for this Phase II ESA are not cleanup criteria. They are strictly for comparative purposes and to provide an indication of whether or not additional action should be considered.

3.3 Field Activities, Sample Results, and Assessment of Site Conditions

Focused soil and groundwater investigations were performed at a number of specific areas or features of the MGS. A description of these investigations and the resulting data are presented below for each general area or site feature investigated during the Phase II ESA. The Phase II ESA investigation data and applicable pre-existing investigation data have been compared to the screening criteria presented above and the results are presented in the following subsections. An evaluation of the quality assurance/quality control data was performed, and an assessment of the data quality for the MGS is presented in Section 3.3.20, below.

The Phase II ESA field investigation of the MGS was performed from October 29 to November 1996, and January 29 and 30, 1997. Summaries of the constituents detected above the screening criteria in soil and groundwater samples collected from each area investigated during the Phase II ESA are presented in Tables 5 and 6, respectively. Complete summaries of the laboratory analytical results for soil and groundwater are presented in Tables 7 and 8, respectively. All sample collection locations are shown in Figures 4 and 5. Soil boring logs; sample location control measurements; and laboratory analytical data, chain-of-custody forms, and data validation reports are contained in Appendixes B, C, and D, respectively.

3.3.1 Hazardous Waste Site at Nearby Property

A hazardous waste site is located approximately 1/2 mile south of the MGS on the West 5th Street at Harbor Boulevard. A regulatory agency file review was completed for this site. The file reviewed at the RWQCB contained Discovery, CERCLA Screening Site Inspection and Profile Reports, and miscellaneous correspondence.

3.3.2 Retention Basins

Subsurface investigation of surface impoundments, including retention basins, is currently being conducted by Edison in response to a corporatewide negotiated order from DTSC. The investigation will include soil chemistry and groundwater sampling at the retention basins. Investigation or assessment of the retention basins is outside of the scope of this Phase II ESA.

3.3.3 Aboveground Storage Tanks

Tank Farm Area—Evaluation of Previous Investigation Data

Edison previously investigated soil and groundwater at two aboveground tanks located in the tank farm area, the West fuel storage tank and the peaker distillate tank. Soil and groundwater at the West fuel storage tank was investigated in 1994 (SCE, 1994). The West fuel storage tank investigation included excavating nine backhoe trenches adjacent to the outer perimeter of the tank, drilling 10 hand-auger borings inside the tank, and installing three monitoring wells around the tank. The backhoe trenches were excavated to a depth of approximately 5.0 feet bgs, and the soil borings inside the tank were advanced to a depth of up to 10.0 feet bgs. Soil samples were collected from various depths in both the trenches and soil borings. All soil samples were analyzed for TPH (EPA Method 418.1); and several

soil samples were analyzed for TPH (EPA Method 8015M), flash point (EPA Method 1010), PCBs (EPA Method 8080), BTEX (EPA Method 8060), pH (EPA Method 9040), CAM metals, and California Bioassay for Toxicity. TPH (C16 - C28) concentrations ranged from 12 to 20,000 mg/kg. TPH concentrations at the West fuel storage tank consistently exceeded the Phase II ESA screening criteria (10,000 mg/kg for TPH_(C10-C34)) at a depth of 0.5-foot bgs. PCBs and BTEX were not detected in the soil samples. CAM metals were detected below the soluble threshold limit concentration (STLC) action level, and the soil was nonhazardous.

Groundwater was sampled at three monitoring wells located near the West fuel storage tank and analyzed for TPH (EPA Method 418.1). TPH concentrations were detected in groundwater samples collected from two of the three locations concentrations of 0.62 mg/L and 1.15 mg/L.

Soil at the distillate fuel tank was investigated in 1995 (SCE, 1995). The investigation included drilling seven hand auger borings outside the tank and collecting soil samples from depths of 0.5, 2.0, and 5.0 feet bgs in each boring. All soil samples were analyzed for TPH (EPA Method 418.1); and one soil sample was analyzed for TPH (EPA Method 8015M), flash point (EPA Method 1010), PCBs (EPA Method 8080), BTEX (EPA Method 8240), pH (EPA Method 9045), CAM metals, and California Bioassay for Toxicity. TPH_(C10-C35) concentrations ranged from nondetectable to 2,300 mg/kg, which are less than the Phase II ESA screening criteria. PCBs and BTEX were not detected, CAM metals were detected below the STLC action level, and the soil was nonhazardous.

Based on this information, it appears that soil in the vicinity of the West fuel oil storage tank has potentially been impacted by TPH to depths of 0.5-foot bgs. Groundwater in the vicinity of the West fuel oil storage tank has also potentially been impacted by TPH. There is no evidence that soil in the vicinity of the distillate tank has been impacted by TPH.

Phase II ESA Investigation and Data Evaluation

There are three aboveground fuel oil storage tanks, one aboveground distillate storage tank, one aboveground displacement oil tank, and two aboveground lubricating oil tanks located at the MGS that required investigation as part of the Phase II ESA. The aboveground fuel oil storage tanks are referred to as the West, North, and South tanks. Tank locations are shown in Figure 2.

The tank farm area is located in the southern portion of the facility, and includes the West, North, and South fuel oil tanks; the distillate fuel tank; and the displacement oil tank. Eleven soil borings were advanced in the tank farm area. Seven soil borings were advanced near the West, North, and South fuel oil storage tanks at locations MBH53 and MBH01 through MBH06. Two soil borings were advanced near the aboveground distillate fuel tank at locations MBH07 and MBH08. Two soil borings were advanced near the aboveground displacement oil tank at locations MBH09 and MBH10. The soil samples were collected from depths near the ground surface (0.5-foot bgs) and also at 5-foot intervals to depths of up to approximately 10.0 feet bgs.

Fifteen soil samples and one duplicate sample were collected from locations near the fuel oil storage tanks; three soil samples and one duplicate sample from locations near the distillate fuel tank; and four soil samples from locations near the displacement oil tank. These samples were analyzed for TPH-D. The soil sample collected at about 6 feet bgs from near the South fuel oil storage tanks at location MBH01 was analyzed for VOCs because

sample tube headspace readings at this location exceeded the field screening criteria. Soils encountered in the tank farm area generally consisted of a sandy gravel from the ground surface to a depth of up to 0.75-foot bgs and of a poorly graded (fine) sand from 0.75-foot bgs to the total depth of the boring.

Near the North fuel oil storage tank, TPH-D was detected below the screening criteria in the soil samples collected at locations MBH04 and MBH05. Near the displacement oil tank, TPH-D was detected at concentrations below the screening criteria in soil samples collected at locations MBH09 and MBH10. Near the West fuel oil storage tank, TPH_(C25-C40) was detected at concentrations below the screening criteria in the soil sample collected from 5.0 feet bgs at location MBH53. TPH-D was not detected in soil samples collected near the distillate or South fuel storage tanks at locations MBH01, MBH02, MBH03, MBH07, and MBH08. VOCs were not detected in the soil sample collected from location MBH01 (only soil sample analyzed for VOCs from the tank farm area).

Groundwater samples were collected within the tank farm area from locations MBH01, MBH03, MBH08, MBH09, and MBH53, and analyzed for TPH-D. In addition, the groundwater samples collected at location MBH01, MBH09, and MBH53 were analyzed for VOCs because the soil sample tube headspace readings in soils immediately above the groundwater exceeded the field screening criteria. Groundwater was encountered at depths ranging from about 6.0 to 10.3 feet bgs in the vicinity of the tank farm, as measured on November 4, 1996.

TPH_(C10-C24) was detected near the detection limit at the South fuel oil storage tank at location MBH03 at a concentration of 0.6 mg/L, but was not detected in the other groundwater samples collected from the tank farm area. VOCs were not detected in any of the groundwater samples collected from the tank farm area.

Based on this information and the previous investigation data, there is no evidence that soil near the North fuel oil storage tank and the displacement oil tank have been impacted above the screening criteria by TPH-D. In addition, there is no evidence that soil near the South fuel oil storage tank and the distillate tank have been impacted by TPH-D. Based on the previous investigation data it appears that soil in the vicinity of the West fuel oil storage tank has potentially been impacted by TPH to depths of 0.5-foot bgs.

Groundwater in the vicinity of the West fuel oil storage tank has potentially been impacted by TPH. TPH-D was detected in a groundwater sample collected near the South fuel oil storage tank; the concentration was near the detection limit. There is no evidence that groundwater in the tank farm area has been impacted by VOCs.

Lube Oil Tanks

Two lube oil tanks containing used and recycled lubrication oil are located north of Unit 2. Two soil borings were advanced near the lube oil tanks at locations MBH11 and MBH12. Soil samples were collected from depths near the ground surface (0.5-foot bgs) and also at a depth of approximately 5.0 feet bgs. Four soil samples and one duplicate sample were collected from locations near the lube oil tanks and analyzed for TPH-D and CAM metals. Soils encountered near the lube oil tanks consisted of a sandy silt or clay from the ground surface to a depth of up to 0.5-foot bgs, and of a poorly graded (fine) sand from 0.5-foot bgs to the total depth of the boring.

TPH-D was detected in both soil samples collected from about 5.0 feet bgs at locations MBH11 and MBH12; however, the concentrations were below the screening criteria. TPH-D was not detected in the other samples collected at the lube oil tanks area. Arsenic was detected at a concentration of 2.86 mg/kg in the sample collected from 0.5-foot bgs at location MBH11. This concentration is just above the screening criteria (screening criteria is 2.4 mg/kg) and may be attributable to naturally occurring background concentrations (typical range for background is <0.1 to 97 mg/kg).

One groundwater sample was collected at location MBH12 near the lube oil tanks and analyzed for TPH-D and CAM metals. Groundwater was encountered at a depth of about 7.3 feet bgs in the vicinity of the lube oil tanks, as measured on October 31, 1996. TPH-D was not detected in the groundwater sample, and CAM metals were detected at concentrations below the screening criteria.

Based on this information, there is no evidence that soil in the vicinity of the lube oil tanks has been impacted above the screening criteria by TPH-D. Also, there is no evidence that groundwater near the lube oil tanks has been impacted by TPH-D or has been impacted above the screening criteria by CAM metals.

3.3.4 Underground Storage Tanks

No underground storage tank areas required subsurface investigation at the MGS as part of the Phase II ESA. The former gasoline UST was removed in 1995 and the County of Ventura Environmental Health Division determined that cleanup of the UST area is complete.

3.3.5 Peaker Unit Pumping Area

The peaker unit pumping area at MGS required subsurface investigation as part of the Phase II ESA. The location of the peaker unit pumping area is shown in Figure 2. Four soil borings were advanced at the peaker unit fuel pumping area at locations MBH32, MBH33, MBH59, and MBH60. Soil samples were collected from depths near the bottom of the peaker unit pumping area sump, 4.4 feet bgs, and also immediately above groundwater at approximately 8.0 feet bgs. Several bands of dark-stained soils were present between 3.1 and 9.1 feet bgs. Four soil samples from MBH32 and MBH33 were collected and analyzed for TPH-D. TPH_(C10-C24) was detected in the soil sample collected from 8.9 feet bgs at location MBH33, but at a concentration below the screening criteria. TPH-D was not detected in the other soil samples collected at the peaker unit fuel pumping area. Soils encountered near the peaker unit fuel pumping area consisted of a silty sand from the ground surface to a depth of approximately 0.9-foot bgs and of poorly graded (fine) sand from 0.9-foot bgs to the total depth of the boring.

Groundwater samples were collected from locations MBH32 and MBH59. A groundwater sample was not collected at location MBH33 as specified in the SAP/QAPP, but instead was collected at MBH32 because sample tube headspace readings in soils immediately above groundwater at location MBH32 exceeded the field screening criteria. The groundwater sample at MBH32 was analyzed for TPH-D and VOCs. Groundwater samples collected from MBH59 was analyzed for VOCs. TPH_(C10-C24) was detected near the detection limit at a concentration of 1.6 milligrams per liter (mg/L) in the groundwater sample at MBH32. VOCs that do not have a quantitative screening criteria (sec-butylbenzene and n-propylbenzene) were also detected in the groundwater collected at location MBH32.

Groundwater was encountered at a depth ranging from 7.5 to 8.5 feet bgs in the vicinity of the peaker unit pumping area, as measured on November 5, 1996 and January 29, 1997.

Based on this information, there is no evidence that soil near the peaker unit fuel pumping area and sump has been impacted above the screening criteria by TPH-D. TPH-D was detected in the groundwater sample collected near the peaker unit fuel pumping area and sump, but at a concentration near the detection limit. VOCs were also detected in the groundwater sample.

3.3.6 Primary Fuel Oil Pumping Area

The primary fuel oil pumping area located at MGS required subsurface investigation as part of the Phase II ESA. The location of this site is shown in Figure 2.

Evaluation of Previous Investigation Data

Soil and groundwater in the vicinity of the primary fuel oil pumping area were investigated in 1994 (Simon Hydro-Search, 1994). The primary fuel oil pumping area investigation included drilling 14 soil borings and installing 4 monitoring wells in the vicinity of the primary fuel oil pumping area. Twenty-four soil samples were collected between the depths of 5.0 and 10.0 feet bgs and were analyzed for TPH (EPA Method 8015M). One sample collected from a depth of 10.0 feet bgs at soil boring location MW-4 contained TPH_(C12-C24) at a concentration of 645 mg/kg. This concentration is below the Phase II ESA screening criteria. TPH was not detected in any other soil sample.

In March 1994, groundwater samples were collected from the four monitoring wells located near the primary fuel oil pumping area and analyzed for TPH (EPA Method 8015M). TPH was detected at one of four sample locations at a concentration of 1.25 mg/L. In two follow-up groundwater sampling events conducted in September and December 1994, TPH was not detected in samples collected at any of the four groundwater sample locations (Dennis, H.L., February 1995).

Based on this information, there is no evidence that soil near the primary fuel oil pumping area has been impacted by TPH above the screening criteria. Also, there is no evidence that groundwater in the vicinity of the primary fuel oil pumping area has been impacted by TPH.

Phase II ESA Investigation and Data Evaluation

Two soil borings were advanced at the primary fuel oil pumping area at locations MBH13 and MBH14. Soil samples were collected from depths near the ground surface at 0.5-foot bgs. Soils were not collected below 5 feet bgs (near the bottom of the sump) because soils at this depth at the primary fuel oil pumping area had been previously characterized by Edison (SCE, 1994). Two soil samples were collected and analyzed for TPH-D. An additional soil sample was collected from 5 feet bgs at location MBH13 and analyzed for VOCs because the sample tube headspace readings exceeded the field screening criteria.

TPH-D and VOCs were not detected in the soil samples collected near the primary fuel oil pumping area. Soils encountered near the primary fuel oil pumping area consisted of a sandy gravel fill from the ground surface to a depth of approximately 0.5-foot bgs and of poorly graded (fine) sand from 0.5-foot bgs to the total depth of the boring.

One groundwater sample was collected at location MBH14 and was analyzed for VOCs. VOCs in groundwater were analyzed at this location because sample tube headspace readings exceeded the field screening criteria.

VOCs were not detected in the groundwater sample collected near the primary fuel pumping area. Groundwater was encountered at a depth of about 9.6 feet bgs in the vicinity of the primary fuel oil pumping area, as measured on November 4, 1996.

As a result of a reported fuel oil spill in January 1997 at the fuel oil pumping area, one additional soil boring (MBH70) was advanced at the reported location of the spill. A soil sample was collected from near the ground surface at 0.5-foot bgs and at 3-feet bgs. Soil samples were analyzed for TPH-D. TPH-D was not detected in the soil samples collected.

Based on this information, there is no evidence that soil and groundwater near the primary fuel oil pumping area have been impacted by TPH-D or VOCs.

3.3.7 Transformers and Switchyard Perimeter

There are three areas containing transformers at the MGS that required investigation as part of the Phase II ESA. The areas containing the transformers include the main power block (Units 1 and 2), the peaker unit, and the insulator test facility. In addition, there is one switchyard perimeter area located at the MGS that required investigation as part of the Phase II ESA; samples were not collected within the switchyard area. The transformer areas and the switchyard are shown in Figure 2.

Transformers, Units 1 and 2

Six soil samples were collected from the soil/ballast directly beneath six transformers near Units 1 and 2, at locations MSS20 through MSS25. The samples were collected from depths of less than 0.5-foot bgs and analyzed for PCBs. All six samples were collected from areas where the transformers had dripped oil onto the soil/ballast. Soils encountered beneath the Units 1 and 2 transformers consisted of a sandy gravel fill. PCB concentrations were not detected in samples of the oily residue-impacted soil.

Transformers, Peaker Unit

Two soil samples were collected from the soil/ballast directly beneath two transformers near the peaker unit at locations MSS26 and MSS27. The samples were collected from depths of less than 0.5-foot bgs and analyzed for PCBs. Both samples were collected from areas where the transformers had dripped oil onto the soil/ballast. Soils encountered beneath the peaker unit transformers consisted of a sandy gravel fill. PCB concentrations were not detected in samples of the oily residue-impacted soil.

Transformers, Insulator Test Facility

Two soil samples were collected from the soil directly beneath two transformers at the insulator test facility at locations MSS41 and MSS42. The soil samples were collected from depths of less than 0.5-foot bgs and analyzed for PCBs. Soils encountered beneath the insulator test facility transformers consisted of a sandy gravel fill from ground surface to a depth of approximately 0.2-foot bgs and was underlain by a poorly graded (fine) sand. PCB concentrations were not detected in samples of the oily residue-impacted soil.

Based on this information, there is no evidence that soil/ballast beneath the transformers has been impacted by PCBs.

Switchyard Perimeter

Four soil borings were advanced along the switchyard perimeter at locations MBH34, MBH35, MBH36, and MBH37. Soil samples were collected from depths near the ground surface (0.5-foot bgs) and at approximately 3 feet bgs. Dark-stained soils encountered between approximately 3.5 and 4.0 feet bgs at locations MBH36 and MBH37 were included in the 3-foot-deep soil samples collected at these locations. Eight soil samples and one duplicate sample were collected from locations along the switchyard perimeter and analyzed for TPH-D and PCBs. TPH-D and PCBs were not detected in any of the soil samples collected near the switchyard perimeter. Soils encountered in the switchyard area generally consisted of a sandy gravel fill, silt, or clay from the ground surface to a depth of approximately 0.5-foot bgs and of a poorly graded (fine) sand from 0.5-foot bgs to the total depth of the boring.

One groundwater sample was collected at location MBH35 and analyzed for VOCs because the sample tube headspace readings in soils exceeded the field screening criteria. VOCs were not detected in the groundwater sample. Groundwater was encountered at a depth of about 7.5 feet bgs in the vicinity of the switchyard, as measured on November 1, 1996.

Based on this information, there is no evidence that soil near the switchyard perimeter has been impacted by TPH-D or PCBs. Also, there is no evidence that groundwater at location MBH35 has been impacted by VOCs.

3.3.8 Pipelines

The vast majority of pipelines at the MGS are located aboveground and no apparent leaks or spills from the pipelines were observed or documented. Consequently, because there was no evidence that the aboveground pipelines present a material risk of harm to public health or the environment, a subsurface investigation was not performed specifically for the pipelines.

Pig Launching Area

The pig launching area is located north of the peaker unit, as shown in Figure 2. One soil boring was advanced near the pig launching area at location MBH40. Soil samples were collected from depths near the ground surface (0.5-foot bgs) and also at a depth of approximately 5.0 feet bgs. Both soil samples were analyzed for TPH-D. TPH-D was not detected in either soil sample collected from location MBH40. Soils encountered at the pig launching area consisted of a clayey sand from the ground surface to a depth of up to 0.4-foot bgs and of a poorly graded (fine) to well graded sand from 0.4-foot bgs to the total depth of the boring.

Based on this information, there is no evidence that soil near the pig launching area has been impacted by TPH-D.

Submarine Pipeline Valve Pit—Evaluation of Previous Investigation Data

The submarine pipeline valve pit is located near the southwest corner of the Station property. It consists of two concrete vaults containing the fuel pipelines, and various surface and subsurface pumps and controllers. According to Edison, releases of petroleum hydrocarbons have occurred in the past, in association with transfer of fuel oil from offshore to the onshore storage facilities. These releases include relatively heavy fuel oil,

generally found near the ground surface around the east and west ends of the valve pit; and lighter cutter oils, observed near the center of the valve pit structure.

Field investigations to determine the distribution of released hydrocarbons were conducted by Edison on July 30, 1992. The investigation included the drilling and selected soil sampling of 13 hand-augered borings. Disturbed soil samples were obtained from each boring, at depths varying between 1 and 9 feet.

Two additional bulk soil samples were obtained from locations considered representative of the lighter and heavier fractions, respectively, of hydrocarbons present at the site. These samples were obtained for more extensive chemical characterization, to evaluate ultimate disposition of soil containing hydrocarbons.

All soil samples from the soil borings were analyzed for Total Petroleum Hydrocarbons (TPH), by EPA Method 418.1. The two bulk soil samples were analyzed for: (1) California CAC Title 22 metals; (2) PCBs by EPA Method 8080; (3) paint filter liquids by EPA Method 9095; and (4) volatile organic compounds by EPA Method 8240.

The results of the TPH analysis for the samples from the soil borings indicated that the TPH concentrations varied from nondetected at some of the shallow borings on the east side of the structure, up to a maximum of 28,500 mg/kg between the valve pit vaults.

Based on the findings from the site assessment and soil/hydrocarbon characterization, the most appropriate method of remedial action was judged by Edison to be excavation and offsite treatment of the impacted material. The cleanup standard was set at 1,000 ppm TPH, based on the type of hydrocarbon and general agency cleanup guidelines.

Three phases of removal were ultimately required to adequately remove the material. Cleanup verification sampling was conducted at the end of each phase by Edison, to determine the adequacy of removal action. Edison reports indicated that essentially all significant TPH-affected soil had been removed from the valve pit area, and properly treated.

Phase II ESA Investigation and Data Evaluation

One soil boring was advanced at the submarine pipeline valve pit at location MBH43. Soil samples were collected from depths near the bottom of the submarine pipeline valve pit, 4.0 feet below ground surface (bgs), and also immediately above groundwater at approximately 7.9 feet bgs. A 0.1-foot-thick band of dark stained soil located above the water table, at approximately 8.3 feet bgs, was included in the deeper soil sample. Two soil samples were collected from locations near the valve pit and analyzed for TPH-D. The soil sample collected from about 4.5 feet bgs was analyzed for VOCs because the sample tube headspace readings exceeded the field screening criteria. TPH-D and VOCs were not detected in the soil samples collected near the submarine pipeline valve pit. Soils encountered near the submarine pipeline valve pit consisted of a well-graded, gravelly sand from the ground surface to a depth of approximately 0.7-foot bgs, and of poorly graded (fine) sand from 0.7-foot bgs to the total depth of the boring.

One groundwater sample was collected at location MBH43 because the soil sample tube headspace readings for soils immediately above groundwater exceeded the field screening criteria. The groundwater sample was analyzed for TPH-D, VOCs, and CAM metals. TPH-D and VOCs were not detected in the groundwater sample. CAM metals were detected at concentrations below the screening criteria except for mercury that was detected

at the screening criteria concentration of 0.002 mg/L. Groundwater was encountered at a depth of about 8.5 feet bgs in the vicinity of the submarine pipeline valve pit, as measured on October 31, 1996.

Based on this information, there is no evidence that soil near the submarine pipeline valve pit has been impacted by TPH-D or VOCs. Also, there is no evidence that groundwater has been impacted by VOCs or TPH-D, or impacted above the screening criteria by CAM metals.

3.3.9 Oil Spills

According to Edison records and the SPCC plan for the MGS, there have been three oil spill events at the MGS that resulted in the release or potential of oil into or upon the navigable waters of the United States or adjoining shorelines. Edison's reporting of the spill is as follows:

- On August 17, 1989, approximately 2 to 5 gallons of fuel oil were spilled onto the surface of the Pacific Ocean. The spill occurred during routing maintenance on a submarine fuel oil supply pipeline. The spill created a thin oil sheen and cleanup was immediately undertaken. No marine life or beaches were affected.
- On November 1, 1989, approximately 2,800 gallons of lube oil were spilled while processing lube oil through a filter press into a tanker trailer. The spill flowed into an open yard drain and ultimately into the station's circulating water system. The circulating water system was dewatered at the time for routine maintenance. The spill was isolated to the circulating water system and very little oil, if any, actually reached navigable waters.
- On December 20, 1990, an underground line failed allowing approximately 42 gallons of lube oil to be spilled. Approximately 5 gallons entered an open yard drain to the station's circulating water system and was discharged into the ocean. A small trace of oil was observed in the discharge outfall structure but no oil was found on the adjacent beach area or outfall riprap. Containment and cleanup efforts were immediately started by station personnel and were completed by a contractor by the end of the same day. No traces of oil were left on the affected areas.

Based on this information, there is no evidence that soil or groundwater in the vicinity of the spills have been impacted.

3.3.10 Dredge Spoil Piles

An area covered with a several-foot-thick layer of canal dredge spoils is located on the northwestern portion of the MGS facility. Seven soil borings were advanced in the area near the canal dredge spoils at locations MBH49, MBH50, MBH51, MBH62, MBH63, MBH64, and MBH65. The soil samples were collected from depths near the ground surface (0.5-foot bgs) and also at 5-foot intervals to depths of up to approximately 9.0 feet bgs. Seven soil samples were collected from locations in the canal dredge spoils area, and analyzed for TPH-D, CAM metals, and PCBs. An additional six soil samples were collected and analyzed for VOCs, PCBs, and CAM metals. The soil sample that was collected at 9.0 feet bgs at location MBH50 included oily, dark-stained soil encountered between 8.0 and 10.3 feet bgs at this location. Soils encountered in the canal dredge spoils area generally

consisted of a highly organic silt from the ground surface to a depth of up to 10.0 feet bgs, and underlain by a poorly graded (fine) sand to the total depth of the boring.

TPH-D and PCBs were not detected in any soil sample collected near the canal spoils. Arsenic was detected in soil samples collected from 0.5 and 4.9 feet bgs at location MBH50 at concentrations of 2.8 and 4.5 mg/kg, respectively. These concentrations are just above the arsenic screening criteria (screening criteria is 2.4 mg/kg) and may be attributable to naturally occurring background soil concentrations (typical background range is <0.1 to 97 mg/kg). All other CAM metals detected in soil samples in the dredge spoil piles area were below the screening criteria. VOCs were detected below the screening criteria at locations MBH62 and MBH64 in dredge spoil piles area.

Based on this information, there is no evidence that soil in the vicinity of the dredge spoil piles been impacted by TPH-D, PCBs, or VOCs. In addition, with the exception of arsenic, there is no evidence that soil has been impacted above the screening criteria by CAM metals. The presence of arsenic in soil may be attributable to naturally occurring background soil concentrations (typical background range is <0.1 to 97 mg/kg).

Five groundwater samples were collected from locations MBH62, MBH63, MBH64, and MBH65 including one duplicate sample and analyzed for VOCs and CAM metals. Analytical results for the groundwater samples are contained in Table 6. One VOC was detected below the screening criteria in MBH64 and MBH65. No other VOCs were detected in the groundwater at the dredge spoils area. CAM metals (beryllium, cadmium, lead, mercury, and thallium) were detected above the screening criteria in the groundwater at MBH62, MBH63, MBH64, and MBH65. Beryllium, cadmium, lead, mercury, and thallium were detected at maximum concentrations of 0.01 mg/L, 0.014 mg/L, 0.07 mg/L, 0.06 mg/L, and 1.1 mg/L, respectively. These concentrations are above the screening criteria of 0.004 mg/L, 0.005 mg/L, 0.015 mg/L, 0.002 mg/L, and 0.002 mg/L for beryllium, cadmium, lead, mercury, and thallium, respectively. No other CAM metals were detected in the groundwater at the dredge spoils area. Groundwater was encountered at a depth ranging from about 0.5 to 10.3 feet bgs in the area of the dredge spoil piles as measured on January 30, 1997.

Groundwater near the dredge spoil piles area contained concentrations of beryllium, cadmium, lead, mercury, and thallium above the screening criteria (MCLs). In general, these exceedances have occurred for the CAM metals with the lowest MCLs. In addition, most of the detected metals exceeded their respective MCL by only a small amount. Further, the metal concentrations detected in the groundwater near the dredge spoil piles area generally mirror those of saltwater, but appear to have been elevated potentially due to evapotranspiration of the brackish groundwater at the MGS.

The MGS is located in a coastal area and groundwater has been impacted by saltwater intrusion. Consequently, the characteristic high total dissolved solids and electrical conductivity of the groundwater preclude it from being used as a drinking water supply.

For these reasons, the metal exceedances detected in groundwater near the dredge spoil piles do not warrant remedial actions.

3.3.11 Septic Tank

A septic tank that receives water from lavatories and a machine shop sink that is located in the north-central portion of the MGS facility required subsurface investigation as part of the

Phase II ESA. Two soil borings were advanced near the septic tank at locations MBH38 and MBH39. Soil samples were collected from depths near the ground surface (0.5-foot bgs) and also at 5 feet bgs. Four soil samples and one duplicate sample were collected from locations near the septic tank and analyzed for TPH-D, CAM metals, and VOCs. Soils encountered near the septic tank consisted of a silty sand from the ground surface to a depth of approximately 0.15 feet bgs and of poorly graded (fine) sand from 0.15-foot bgs to the total depth of the boring.

TPH-D was detected at concentrations below the screening criteria in the soil sample collected from 5.0 feet bgs at location MBH38. In addition, several VOCs were detected at concentrations below the screening criteria in the soil sample collected from 5.0 feet bgs at location MBH38. TPH-D and VOCs were not detected in the other soil samples collected at the septic tank area. CAM metals were detected at concentrations below the screening criteria in all soil samples collected from locations MBH38 and MBH39.

One groundwater sample was collected at location MBH39. The groundwater sample was analyzed for TPH-D, CAM metals, and VOCs. Analytical results for the groundwater sample are contained in Table 6. TPH-D and VOCs were not detected in the groundwater sample. CAM metals were detected in the groundwater sample at concentrations below the screening criteria. Groundwater was encountered at a depth of about 7.1 feet bgs, placing the water table at the bottom of the tank, as measured on November 5, 1996.

Based on this information, there is no evidence that soil in the vicinity of the septic tank has been impacted above the screening criteria by TPH-D, VOCs, or CAM metals. There is no evidence that groundwater has been impacted by TPH-D or VOCs or has been impacted above the screening criteria by CAM metals.

3.3.12 Hazardous Waste Storage Areas

Former and new hazardous waste storage areas are located adjacent to each other in the north-central portion of the MGS facility and required subsurface investigation as part of the Phase II ESA. Two soil borings were advanced near the two storage areas at locations MBH47 and MBH48. The soil samples were collected from depths near the ground surface (0.5-foot bgs) and also at 5-foot intervals to depths of up to 10.0 feet bgs. Six soil samples and one duplicate sample were collected from locations near the hazardous waste storage areas and analyzed for TPH-D, CAM metals, PCBs, and VOCs. Soils encountered in the hazardous waste storage areas generally consisted of a gravelly silt or silty sand from the ground surface to a depth of approximately 0.5-foot bgs, and of a poorly graded (fine) sand from 0.5-foot bgs to the total depth of the boring.

TPH-D was detected at concentrations below the screening criteria in the soil samples collected from about 0.5- to 1.0-foot bgs at locations MBH47 and MBH48. TPH-D was not detected in the other soil samples collected from the hazardous waste storage areas. CAM metals were detected at concentrations below the screening criteria in all soil samples collected. VOCs and PCBs were not detected in any of the soil samples collected at locations MBH47 and MBH48.

One groundwater sample was collected near the hazardous waste storage areas at location MBH48 and analyzed for TPH -D, CAM metals, and VOCs. Groundwater was encountered at a depth of about 8.8 feet bgs in the vicinity of the hazardous waste storage areas, as measured on October 29, 1996.

TPH-D and VOCs were not detected in the groundwater sample. CAM metals were detected in the groundwater sample at concentrations below the screening criteria.

Based on this information, there is no evidence that soil near the hazardous waste storage areas has been impacted by VOCs or PCBs, or has been impacted above the screening criteria by TPH-D or CAM metals. Also, there is no evidence that groundwater has been impacted by TPH-D or VOCs or has been impacted above the screening criteria by CAM metals.

3.3.13 Secondary Fuel Pumping Area

The secondary fuel pumping area at MGS required subsurface investigation as part of the Phase II ESA. The location of this site feature is shown in Figure 2. Two soil borings were advanced at the secondary fuel pumping area at locations MBH15 and MBH16. One soil sample was collected from near the bottom of the secondary fuel pumping area sump, 7.7 feet bgs, at location MBH15. Only one soil sample was collected at the secondary fuel pumping area because the bottom of the sump was at the water table. Soil boring location MBH15 is adjacent to the sump and encountered a 2-inch-thick band of dark-stained soil located at approximately 8.5 feet bgs. The soil sample collected at this depth was analyzed for TPH-D, CAM metals, and VOCs because sample tube headspace readings on soil immediately above groundwater exceeded the field screening criteria. Soils near the secondary fuel pumping area consisted of a silty gravel fill from the ground surface to a depth of approximately 1.0-foot bgs and of poorly graded (fine) sand from 1.0-foot bgs to the total depth of the boring.

TPH-D and VOCs were not detected in the soil sample collected at location MBH15. CAM metals were detected at concentrations below the screening criteria in the soil sample.

A groundwater sample was collected at location MBH16 and was analyzed for TPH-D and CAM metals. Groundwater was encountered at a depth of about 7.8 feet bgs in the vicinity of the secondary fuel pumping area, as measured on October 30, 1996.

TPH-D was not detected in the groundwater sample collected from location MBH15, and CAM metals were detected at concentrations below the screening criteria.

Based on this information, there is no evidence that soil in the vicinity of secondary fuel pumping area and sump has been impacted by TPH-D or VOCs or has been impacted above screening criteria by CAM metals. Also, there is no evidence that groundwater has been impacted by TPH-D or been impacted above the screening criteria by CAM metals.

3.3.14 Power Block Perimeter

There are two power blocks located at the MGS that required investigation as part of the Phase II ESA. Samples were not collected from within the power block areas. The main power block area is referred to as Units 1 and 2, and the auxiliary power block is referred to as the peaker unit, Figure 2.

Main Power Block, Units 1 and 2

Three soil borings were advanced near the main power block at locations MBH17, MBH18, and MBH19. Soil samples were collected from depths near the ground surface (0.5-foot bgs) and also at approximately 5.0 feet bgs. Six soil samples and one duplicate sample were collected from locations near the main power block and analyzed for TPH-D and CAM

metals. The soil samples collected from locations MBH18 and MBH19, which are located adjacent to the transformers, were also analyzed for PCBs. Soils encountered near the main power block generally consisted of a silty gravel or clayey sand from the ground surface to a depth of up to 1.5 feet bgs and of a poorly graded (fine) sand from 1.5 feet bgs to the total depth of the boring.

TPH-D was detected at concentrations below the screening criteria in the soil sample collected from 0.5-foot bgs at location MBH19. TPH-D was not detected in the other soil samples collected near the main power block. CAM metals were detected at concentrations below the screening criteria in all soil samples collected from locations MBH17, MBH18, and MBH19. PCBs were not detected in soil samples collected at locations MBH17, MBH18, and MBH19.

Groundwater samples were collected at locations MBH17 and MBH19 and analyzed for TPH-D and CAM metals. Groundwater was encountered at a depth of about 7.7 feet bgs in the vicinity of the main power block, as measured on November 4, 1996. The groundwater sample collected at location MBH19, which is located close to several transformers, was also analyzed for PCBs.

TPH-D and PCBs were not detected in the groundwater samples collected at locations MBH17 and MBH19. CAM metals were detected in groundwater samples from MBH17 and MBH19 at concentrations above screening criteria. Mercury and nickel were detected at maximum concentrations of 0.0021 and 0.1 mg/L, respectively. These concentrations are at or above the screening criteria of 0.002 and 0.1 for mercury and nickel, respectively.

Based on this information, there is no evidence that soil near the main power block perimeter has been impacted by PCBs or has been impacted above the screening criteria by TPH-D or CAM metals. Also, there is no evidence that groundwater near the main power block perimeter has been impacted by PCBs or TPH-D. There is evidence that the groundwater in the vicinity of the power block perimeter has been impacted by CAM metals above the screening criteria. However, groundwater beneath the MGS has been impacted by saltwater intrusion and is not considered to have a beneficial use.

Peaker Unit

Two soil borings were advanced near the peaker unit at locations MBH30 and MBH31. The soil samples were collected from depths near the ground surface (0.5-foot bgs) and also at a depth of approximately 5.0 feet bgs. Four soil samples were collected from locations near the peaker unit and analyzed for TPH-D and CAM metals. Soils encountered during soil boring near the peaker unit generally consisted of a sandy gravel from the ground surface to a depth of up to 0.8-foot bgs and of a poorly graded (fine) sand from 0.8-foot bgs to the total depth of the boring.

TPH-D was detected at concentrations below the screening criteria in both soil samples collected (0.5 and 5.0 feet bgs) at location MBH31. TPH-D was not detected at location MBH30. CAM metals were detected at concentrations below the screening criteria in all soil samples collected from locations MBH30 and MBH31.

One groundwater sample was collected at location MBH31 and analyzed for TPH-D and CAM metals. Groundwater was encountered at a depth of about 9.12 feet bgs in the vicinity of the peaker unit, as measured on October 31, 1996.

TPH-D was not detected in the groundwater sample. The CAM metal, mercury, was detected at a concentration of 0.013 mg/L that is above the screening criteria of 0.002 mg/L for mercury.

Based on this information, there is no evidence that soil near the peaker unit perimeter has been impacted above the screening criteria by TPH-D or CAM metals. Also, there is no evidence that groundwater has been impacted by TPH-D. However, there is evidence that the Peaker Unit Area has been impacted above the screening criteria by CAM metals. However, groundwater beneath the MGS has been impacted by saltwater intrusion and is not considered to have a beneficial use.

3.3.15 Oil/Water Separator and Sump

There are two sumps located at the MGS that required investigation as part of the Phase II ESA. The sump areas are referred to as the oil/water separator and submarine pipeline sump, Figure 2.

Oil/Water Separator

Two soil borings were advanced at the oil/water separator area at locations MBH28 and MBH29. Soil samples were collected from depths near the bottom of the separator, 8.0 feet bgs, and also immediately above groundwater, at approximately 10.0 feet bgs. A layer of dark stained soil was encountered at a depth of 9.0 feet bgs and extended to 12.0 feet bgs. A sample of this material was collected at both soil boring locations. Shallower soil samples were also collected at 0.5 and 5.0 feet bgs at location MBH29 because sample tube headspace readings at these depths exceeded the field screening criteria. Six soil samples and one duplicate sample were collected from locations near the oil/water separator and analyzed for TPH-D, CAM metals, and VOCs. Soils encountered near the oil/water separator consisted of a silty gravel fill from the ground surface to a depth of approximately 0.45-foot bgs, and of poorly graded (fine) sand from 0.45-foot bgs to the total depth of the boring.

TPH-D was detected at concentrations below the screening criteria in two of the soil samples collected at locations MBH28 and MBH29. TPH-D was not detected in the other soil samples collected at these locations. VOCs were detected at concentrations below the screening criteria in the soil sample and duplicate sample collected from 9.0 feet bgs at location MBH28. VOCs were not detected in the other soil samples. CAM metals were detected at concentrations below the screening criteria in all soil samples collected near the oil/water separator.

One groundwater sample and one duplicate sample were collected at location MBH29 and was analyzed for TPH-D, CAM metals, and VOCs. VOCs in groundwater were analyzed at this location because sample tube headspace readings in soils immediately above groundwater exceeded the field screening criteria. Groundwater was encountered at a depth of about 10.8 feet bgs in the vicinity of the oil/water separator, as measured on October 30, 1996.

TPH-D was not detected in the groundwater samples collected at MBH29. VOCs were detected in groundwater at levels below the screening criteria. Only chloroform was detected in both the target and duplicate groundwater samples. CAM metals were detected at concentrations below the screening criteria.

Based on this information, there is no evidence that soil near the oil/water separator has been impacted above the screening criteria by VOCs, TPH-D, or CAM metals. Also, there is no evidence that groundwater has been impacted by TPH-D or impacted above the screening criteria by CAM metals or VOCs.

3.3.16 Demolition Debris

Demolition debris that was observed during the Phase I ESA site visit was removed from the MGS prior to performance of the Phase II ESA. Based on this information, there is no evidence that the MGS has been impacted by the noted demolition debris.

3.3.17 Adjacent Petroleum Facility

The Torch Operating Company is a unique site feature that adjoins the southwest portion of the MGS facility. Three soil borings were advanced at the MGS property boundary near the Torch Operating Company at locations MBH44, MBH45, and MBH46. Soil samples were collected from depths near the ground surface (0.5-foot bgs) and also at 5-foot intervals to depths of up to 15.0 feet bgs. Eight soil samples were collected from locations near the Torch Operating Company and analyzed for TPH-D. One soil sample from location MBH46 (5 feet bgs) was analyzed for VOCs because sample tube headspace readings exceeded the field screening criteria. Two soil samples from location MBH45 were analyzed for PCBs. Soils encountered near the Torch Operating Company consisted of a sandy silt or clayey sand from the ground surface to a depth of up to 1.0-foot bgs, and of a poorly graded (fine) sand from 1.0-foot bgs to the total depth of the boring.

TPH-D was detected at concentrations below the screening criteria in soil samples collected from about 0.5-foot bgs at locations MBH44, MBH45, and MBH46, and about 5.0 feet bgs at locations MBH44 and MBH46. TPH-D was not detected in the other samples collected at these locations. PCBs and VOCs were not detected in the soil samples collected along the perimeter of the Torch Operating Company.

Groundwater samples were collected at locations along the perimeter of the Torch Operating Company at locations MBH44, MBH45, MBH46, MBH59, MBH60, and MBH61 and analyzed for VOCs. Samples from MBH44, MBH45, and MBH46 were also analyzed for TPH-D. Groundwater samples were collected at locations MBH45 and MBH46 because sample tube headspace readings in soils immediately above groundwater exceeded the field screening criteria. Groundwater was encountered in the vicinity of the Torch Operating Company at depths ranging from about 7.5 to 17.7 feet bgs, as measured on October 31, November 1, 1996, and January 29, 1997.

TPH-D was not detected in any of the groundwater samples. Benzene was detected above the screening criteria (1 µg/L) in the groundwater collected at location MBH60 (2.5 µg/L) and MBH61 (6.8 µg/L). 1,2-Dichloroethane was detected above the screening criteria (screening criteria is 6.0 µg/L) in the groundwater sample collected at location MBH46 at a concentration of 6.7 µg/L. Other VOCs were also detected in the groundwater samples collected near the Torch Operating Company at locations MBH44 and MBH46, but at concentrations below the screening criteria.

Based on this information, there is no evidence that soil along the perimeter of the Torch Operating Company has been impacted by PCBs or VOCs or has been impacted above the screening criteria by TPH-D. Groundwater near the perimeter of the Torch Operating Company has potentially been impacted by VOCs.

3.3.18 Suspected Blast Grit Disposal Areas

Evaluation of Previous Investigation Data

Edison documentation indicated that several soil samples were taken near the machine shop in the vicinity of a suspected former sandblasting grit disposal area. The samples were analyzed for CAM metals in accordance with Title 22 of the CCR. The results from the Total Threshold Limit Concentration (TTLC) and Soluble Threshold Limit Concentration (STLC) analysis prompted MGS staff to clean up the site and dispose of sandblast grit in compliance with regulatory requirements.

MGS staff performed a subsequent subsurface site investigation on January 6, 1993, to verify that the site was clean and in compliance with regulatory action levels for CAM metals. The laboratory analytical results obtained from 20 soil samples taken at locations in the area of concern reportedly indicated that no samples exceeded the TTLC and STLC regulatory levels. Based on this result, Edison determined that no further action was required.

Edison also reported a second sand blast grit disposal area located south of the hazardous waste storage areas. No records or internal documentation pertaining to the disposal area was available from Edison.

Phase II ESA Investigation and Data Evaluation

Three soil borings were advanced in the vicinity of a second suspected former sand blast grit disposal area located south of the hazardous waste storage areas at locations MBH67, MBH68, and MBH69. Soil samples were collected from depths near the ground surface (0.5-foot bgs) and at a depth of approximately 3.0 feet bgs. Six soil samples were collected and analyzed for CAM metals. Soils encountered during soil boring near the second sand blast grit disposal area generally consisted of a sandy gravel from the ground surface to a depth of up to 0.8-foot bgs and of a poorly graded (fine) sand from 0.8-foot bgs to the total depth of the boring. Location MBH68 contained a visible reddish colored powdery substance at a depth of 8 to 24 inches bgs.

Arsenic was detected in the soil sample collected from 6 to 10 inches bgs at location MBH68 at a concentration of 5.9 mg/kg. This concentration is just above the arsenic screening criteria (screening criteria is 2.4 mg/kg) and may be attributable to naturally occurring background soil concentrations (typical background range is <0.1 to 97 mg/kg). All other CAM metals detected in soil samples at the second sand blast grit disposal area were below the screening criteria.

Based on this information, there is no evidence that soil or groundwater in the vicinity of either suspected former blast grit disposal areas have been impacted above the screening criteria by CAM metals.

3.3.19 Oil Skimmer

An oil skimmer located adjacent to the MGS retention basins required subsurface investigation as part of the Phase II ESA. One soil boring was advanced near the oil skimmer at location MBH52. Soil samples were collected from depths near the ground surface (0.5-foot bgs) and also at 5 feet bgs. Two soil samples and one duplicate sample were collected from locations near the oil skimmer and analyzed for TPH-D and CAM metals. Soils encountered near the oil skimmer consisted of a gravelly clay from the ground

surface to a depth of up to 0.8-foot bgs and a poorly graded (fine) sand from 0.8-foot bgs, to the total depth of the boring.

TPH-D was not detected in any of the soil samples at location MBH52. Arsenic was detected in the soil sample collected from 5.0 feet bgs at a concentration of 2.9 mg/kg. This concentration is just above the arsenic screening criteria (screening criteria is 2.4 mg/kg) and may be attributable to naturally occurring background concentrations (typical background range is <0.1 to 97 mg/kg).

Based on this information, there is no evidence that soil near the oil skimmer has been impacted by TPH-D. In addition, with the exception of arsenic, there is no evidence that soil has been impacted above the screening criteria by CAM metals. The presence of arsenic in soil may be attributable to naturally occurring background soil concentrations (typical background range is <0.1 to 97 mg/kg).

3.3.20 Cooling Water Intake Canal

A canal from Channel Island Harbor to the MGS is located to the east and south of the MGS facility. Five composite sludge samples, MBH54 through MBH58, were collected from five cross sections located in the MGS cooling water intake canal. The cross sections were aligned perpendicular to the length of the canal. Discrete sediment samples were collected from three locations along each cross section. These three samples were combined to form a single composite sample for each cross section. The composite sediment samples were analyzed for TPH-D, pesticides, herbicides, and CAM metals.

Concentrations of TPH-D were detected below the screening criteria in samples collected at locations MBH54, MBH55, and MBH56. TPH-D was not detected at locations MBH57 and MBH58. Pesticides and herbicides were not detected in the samples collected. Arsenic was detected in the sediment sample collected from location MBH57 at a concentration of 3.4 mg/kg. This concentration is just above the screening criteria (screening criteria is 2.4 mg/kg) and may be attributable to naturally occurring background soil concentrations (typical background range is <0.1 to 97 mg/kg). Beryllium was also detected above the screening criteria (screening criteria is 1.1 mg/kg) in the sediment sample collected from location MBH55 at a concentration of 34 mg/kg. This beryllium concentration detected in the canal sediment sample is an order of magnitude above the screening criteria. Beryllium was not detected in any of the soil samples collected at the MGS. It is possible the origin of the beryllium detected in the canal sediments is from a location other than the MGS.

Based on this information, there is no evidence that sediments at the bottom of the cooling water intake canal have been impacted by pesticides or herbicides. In addition, with the exception of arsenic and beryllium, there is no evidence that sediments have been impacted above the screening criteria by TPH-D or CAM metals.

3.3.21 Former Drum Storage Area

Edison reported that 55 to 60 drums were stored in an uncontained area at the MGS. The drums reported, contained fuel oil, spent solvent, paints, and thinners. Some of the drums were observed by Edison to be deteriorated. The drums were reportedly manifested and transported offsite for disposal at a hazardous waste landfill in 1979. No records or internal documentation pertaining to the drums was available from Edison.

Phase II ESA Investigation and Data Evaluation

Soil and groundwater samples were collected at sample location MBH48 as part of the canal dredge spoils area. Location MBH48 is located on the northern edge of the reported former drum storage area. Soil samples were collected from depths of 0.5-foot and 5-foot bgs and analyzed for VOCs, PCBs, TPH, and CAM metals. A 10-foot bgs sample was collected, placed on hold at the laboratory and not analyzed based on results from the shallower samples. A groundwater sample was analyzed for VOCs, TPH, and CAM metals. With the exception of spurious CAM metals, the analytes were not detected above the screening criteria in the soil or groundwater samples collected at MBH48.

One additional soil boring was advanced at the former drum storage area at locations MBH66. Soil samples were collected from depths near the ground surface (0.5-foot bgs) and also at 5-foot intervals to depths of up to 13.0 feet bgs. Two soil samples were collected from MBH66 and analyzed for TPH-D, PCBs, CAM metals, and VOCs. Soils encountered near the former drum storage area consisted of a sandy silt or clayey sand from the ground surface to a depth of up to 1.0-foot bgs, and of a poorly graded (fine) sand from 1.0-foot bgs to the total depth of the boring.

TPH-D and CAM metals were detected at concentrations below the screening criteria in soil samples collected at MBH66. PCBs and VOCs were not detected in the soil samples collected at the former drum storage area.

Groundwater samples were collected at location MBH66 in the former drum storage area and analyzed for VOCs and CAM metals. Groundwater was encountered at depth of about 10 feet bgs, as measured on May 21, 1997.

VOCs were not detected in the groundwater collected at location MBH66. CAM metals (barium, chromium, lead, mercury, nickel, and thallium) were detected above the screening criteria in the groundwater at MBH66. Barium, chromium, lead, mercury, nickel, and thallium were detected at concentrations of 5.8 mg/L, 0.71 mg/L, 0.313 mg/L, 0.002 mg/L, 0.48 mg/L, 1.2mg/L, respectively. These concentrations are above the screening criteria of 1 mg/L, 0.05 mg/L, 0.015 mg/L, 0.002 mg/L, 0.1 mg/L, and 0.002 mg/L for barium, chromium, lead, mercury, nickel, and thallium, respectively. No other CAM metals were detected above the screening criteria at the former drum storage area.

Based on this information, there is no evidence that soil along the former drum storage area has been impacted by PCBs or VOCs or has been impacted above the screening criteria by TPH-D or CAM metals. Groundwater at the former drum storage area has potentially been impacted by CAM metals. Groundwater samples collected near the former drum storage area contained concentrations of barium, chrome, lead, mercury, nickel and thallium above the screening criteria (MCLs). In general, these exceedances have occurred for the CAM metals with the lowest MCLs. In addition, most of the detected metals exceeded their respective MCL by only a relatively small amount. Further, the metals concentrations detected in groundwater near the former drum storage area generally mirror those of saltwater, but appear to have been elevated potentially due to evapotranspiration of the brackish groundwater at the MGS.

The MGS is located in a coastal area and groundwater has been impacted by saltwater intrusion. Consequently, the characteristic high total dissolved solids and electrical conductivity of the groundwater preclude it from being considered to have a beneficial use.

3.3.22 Quality Assurance/Quality Control Results

This summary is based on a detailed analysis of the results for approximately 10 percent of the samples taken at the MGS. Samples were analyzed by CH2M HILL Analytical Services Laboratory in Redding, California, and by Crosby Laboratories, Inc. in Placentia, California. Detailed reports for each laboratory delivery group that was evaluated are contained in Appendix D. Specific issues and summaries are presented below. Overall, the data are of acceptable quality; and the completeness objectives have been met.

Chain of Custody

Chain-of-custody procedures have been followed, and appropriate signatures are available for each sample transfer step.

Holding Times

The laboratories analyzed all samples within the method and/or contractual holding times.

Initial and Continuing Calibration

No calibration issues that affected data usability were observed in the data or discussed in the laboratory case narratives.

Method Blanks

Method blanks were performed at the required frequency, and no data are qualified due to laboratory contamination.

Quantitation and Sensitivity

It was necessary on occasion to dilute some samples due to either interfering substances or high target values. Under these circumstances, the ability to detect low-level analytes is compromised. Therefore, the determination of nondetected analytes in a dilution needs to be thoroughly reviewed by the data users. No data are qualified due to dilution.

Surrogate Recovery

The complexity in the matrix characteristics or high concentrations of target analytes of the samples under investigation resulted in some interference in the recovery of surrogates in some cases. However, no data have been qualified due to surrogate recoveries.

Matrix Spike Sample

No matrix spike criteria for this site were exceeded.

Completeness

No data were rejected for quality control exceedances. The overall completeness objective of 95 percent was met.

Field QC Samples

Equipment blanks, trip blanks, and ambient blanks were collected and analyzed. Low level chloroform was found just above the method detection limit. However, no data are qualified due to these analyses.

Chromatographic Patterns for Petroleum Hydrocarbons

In a few cases, the hydrocarbon "fingerprint" for diesel or higher molecular weight hydrocarbons did not match the calibration standard. In these few cases, the analyte levels may be an approximation.

Summary and Conclusions

The following conclusions can be drawn from the data quality evaluation process:

- The laboratories analyzed the samples according to the work plan as demonstrated by acceptable laboratory QC sample performance.
- Spike recoveries results indicate that the complex sample matrix may affect the analytical process in some cases and that those data can be used for decisionmaking if the matrix effects are taken into consideration by the data users.
- None of the analytical data was rejected during the data review and validation process.

These data can be used in the project decisionmaking process without further qualification.

4.0 Conclusions and Recommendations

The primary objective of the Phase II ESA performed at the MGS was to determine whether any action is necessary to address hazardous substances or petroleum products at the investigated site features. To assess whether a release has occurred that might require future action, a conservative set of analytical screening criteria was established based on state and federal regulations and guidance policies. Pre-existing investigation data and results from the Phase II ESA investigation were compared to the analytical screening criteria to provide an indication of the environmental conditions at each of the site features investigated. The conclusions drawn from this comparative analysis are presented below.

The recommendations provided below are based on the results of this Phase II ESA. For areas where contamination was either not detected or was detected at de minimis concentrations, and the investigation was adequate and complete for the purposes of this Phase II ESA, no further action is recommended. De minimis conditions are defined herein as soil concentrations below: 1) soil screening levels published by the LARWQCB (1996), 2) the TSCA cleanup threshold for total PCBs, and 3) EPA Region IC generic Preliminary Remediation Goals (PRGs); and groundwater concentrations below State of California MCLs. Site features that were either not readily accessible for subsurface investigation or access to the area was restricted were either not investigated or the investigation performed was limited. No further action is recommended for these areas at this time. However, it is noted that agency negotiations, additional sampling, and/or remediation may be necessary or appropriate as part of facility decommissioning.

Hazardous Waste Site at Nearby Property on W. 5th Street at Harbor Boulevard

This property is greater than 1/4-mile from the MGS and is located cross-gradient to down-gradient from the MGS. The regulatory file review did not suggest that the MGS was being impacted by the hazardous waste site. Based on this information, there is no evidence that the MGS has been impacted by the hazardous waste site. No further action is recommended.

Retention Basins

Investigation or assessment of the retention basins is outside of the scope of this Phase II ESA. Subsurface investigation of surface impoundments, including retention basins, is currently being conducted by Edison in response to a corporatwide negotiated order from DTSC. The investigation will include soil chemistry and groundwater sampling at the retention basins.

Aboveground Storage Tanks

Based on previous investigation data, soil in the vicinity of the West fuel oil storage tank has been impacted by TPH to a depth of 0.5-foot bgs. Groundwater in the vicinity of the West fuel oil storage tank has also been impacted by TPH.

Based on the Phase II ESA subsurface investigation, there is no evidence that soil near the North fuel oil storage tanks, the displacement oil tank, and the lube oil tank has been impacted above the analytical screening criteria by TPH-D. Also, there is no evidence that

soil near the South fuel oil storage tank and the distillate tank have been impacted by TPH-D.

TPH-D was detected in a groundwater sample collected near the South fuel oil storage tank. There is no evidence that groundwater in the tank farm area has been impacted by VOCs. Also, there is no evidence that groundwater near the lube oil tanks has been impacted by TPH-D or impacted above the analytical screening criteria by CAM metals.

No further action is recommended at this time for the aboveground storage tanks area. However, due to the accessibility limitations to sampling beneath the tanks, and the limited scope of the Phase II ESA investigation, agency negotiations, additional sampling, and/or remediation may be necessary or appropriate as part of decommissioning.

Former Underground Storage Tanks

The 1,000-gallon gasoline UST was removed in 1995, and the County of Ventura Environmental Health Division determined that cleanup of the UST area is complete. No further action is recommended for the former underground storage tank area.

Peaker Unit Fuel Pumping Area

There is no evidence that soil near the peaker unit fuel pumping area and sump has been impacted above the analytical screening criteria by TPH-D. TPH-D was detected at de minimus concentrations in the groundwater sample collected near the peaker unit fuel pumping area and sump. No further action is recommended for the Peaker Unit Fuel Pumping Area.

Primary Fuel Oil Pumping Area

There is no evidence that soil near the primary fuel pumping area has been impacted by VOCs or impacted above the screening criteria by TPH. There is no evidence that groundwater near the primary fuel pumping area has been impacted by TPH-D or VOCs. No further action is recommended at this time for the primary fuel oil pumping area. However, due to accessibility limitations to sampling inside the switchyard area, agency negotiation, additional sampling, and/or remediation may be necessary or appropriate as part of decommissioning.

Transformers and Switchyards

There is no evidence that soil/ballast beneath the transformers has been impacted by PCBs. No further action is recommended for the transformer areas.

There is no evidence that soil near the switchyard perimeter has been impacted by TPH-D or PCBs. Also, there is no evidence that groundwater near the southwest perimeter of the switchyard has been impacted by VOCs. No further action is recommended at this time for the switchyards. However, due to accessibility limitations to sampling inside the switchyard area, agency negotiation, additional sampling, and/or remediation may be necessary or appropriate as part of decommissioning.

Pipelines

There is no evidence that soil near the pig launching area has been impacted by TPH-D. No further action is recommended for the pig launching area.

There is no evidence that soil near the submarine pipeline valve pit has been impacted by TPH-D or VOCs. There is no evidence that groundwater has been impacted by TPH-D, or been impacted above the analytical screening criteria by CAM metals. No further action is recommended for the submarine pipeline sump at this time. However, agency negotiations, additional sampling, and/or remediation may be necessary or appropriate as part of decommissioning.

Oil Spills

Three past known oil spills were either isolated and cleaned up by Edison or determined by Edison to have not affected marine life or beaches. A fuel oil spill reportedly occurred in the late 1970s resulting in vanadium impacted soil. No documentation of this spill could be located. No further action at this time is recommended for past oil spills at the MGS.

Dredge Spoil Piles

There is no evidence that soil in the vicinity of the canal dredge spoil piles area has been impacted by TPH-D or PCBs, and, with the exception of arsenic, has not been impacted above the screening criteria by CAM metals. Groundwater has potentially been impacted by CAM metals above the analytical screening criteria. No further action is recommended for the dredge spoil piles at this time. However, agency negotiations, additional sampling, and/or remediation may be necessary as appropriate as part of decommissioning.

Septic Tank

There is no evidence that soil in the vicinity of the septic tank has been impacted above the screening criteria by TPH-D, VOCs, or CAM metals. Also, there is no evidence that groundwater has been impacted by TPH-D or VOCs or impacted above the analytical screening criteria by CAM metals. No further action is recommended for the septic tank area.

Hazardous Waste Storage Areas

There is no evidence that soil near the hazardous waste storage areas has been impacted by VOCs or PCBs or been impacted above the analytical screening criteria by TPH-D or CAM metals. Also, there is no evidence that groundwater has been impacted by TPH-D or VOCs or impacted above the analytical screening criteria by CAM metals. No further action is recommended for the hazardous waste storage areas.

Secondary Fuel Pumping Area

There is no evidence that soil in the vicinity of the secondary fuel pumping area has been impacted by TPH-D or VOCs or impacted above the analytical screening criteria by CAM metals. Also, there is no evidence that groundwater has been impacted by TPH-D or impacted above the analytical screening criteria by CAM metals. No further action is recommended for the secondary fuel pumping area.

Power Block Perimeter

There is no evidence that soil near the main power block perimeter has been impacted by PCBs or impacted above the analytical screening criteria by TPH-D or CAM metals. Also, there is no evidence that groundwater near the power block has been impacted by PCBs or TPH-D. Groundwater has potentially been impacted above the analytical screening criteria by CAM metals. There is no evidence that soil near the peaker unit perimeter has been

impacted by VOCs or impacted above the analytical screening criteria by TPH-D or CAM metals. Also, there is no evidence that groundwater near the Peaker Unit perimeter has been impacted by TPH-D. Groundwater in the Peaker Unit area has potentially been impacted above the screening criteria by CAM metals. No further action is recommended for the power block and peaker unit at this time. However, due to accessibility limitations to sampling beneath the power block area, agency negotiations, additional sampling, and/or remediation may be necessary or appropriate as part of decommissioning.

Oil/Water Separator and Sump

There is no evidence that soil near the oil/water separator has been impacted above the screen criteria by VOCs, TPH-D, or CAM metals. Also, there is no evidence that groundwater has been impacted by TPH-D or impacted above the screening criteria by CAM metals or VOCs. No further action is recommended for the oil/water separator and sump at this time. However, due to accessibility limitations to sampling beneath the separator, agency negotiations, additional sampling, and/or remediation may be necessary or appropriate as part of decommissioning.

Demolition Debris

There is no evidence that the demolition debris that was removed by Edison prior to the Phase II ESA impacted the site. No further action is recommended for the demolition debris area.

Adjacent Petroleum Facility (Torch Operating Company)

There is no evidence that soil in the vicinity of the Torch Operating Company has not been impacted by PCBs or VOCs and has not been impacted above the screening criteria by TPH-D. Groundwater in the vicinity of the Torch Operating Company has potentially been impacted by VOCs. No further action is recommended for the adjacent petroleum facility at this time.

Suspected Blast Grit Disposal Areas

There is no evidence that soil in the vicinity of the suspected sand blast grit disposal areas have been impacted, with the exception of arsenic in the second sand blast grit disposal area, above the screening criteria by CAM metals. No further action is recommended for the suspected blast grit disposal areas.

Oil Skimmer

There is no evidence that soil near the oil skimmer has been impacted by TPH-D, or, with the exception of arsenic, impacted above the screening criteria by CAM metals. No further action is recommended for the oil skimmer area.

Cooling Water Intake Canal

There is no evidence that sediments at the bottom of the cooling water intake canal have been impacted by pesticides or herbicides, or, with the exception of arsenic and beryllium, impacted above the analytical screening criteria by TPH-D or CAM metals. No further action is recommended for the cooling water intake canals.

Former Drum Storage Area

There is no evidence that soil at the former drum storage area has been impacted by PCBs or VOCs or has been impacted above the screening criteria by TPH-D or CAM metals. Groundwater at the former drum storage area has potentially been impacted by CAM metals. No further action is recommended for the former drum storage area.

5.0 Limitations

This report has been prepared for the exclusive use of Edison for the specific purpose of evaluating the potential environmental liability associated with the MGS. No warranty, expressed or implied, is made. CH2M HILL makes no representation regarding whether this investigation constitutes "all appropriate inquiry into the previous ownership and uses of this property consistent with good commercial or customary practice" as defined in Section 101(35)(B) of CERCLA. There are no beneficiaries of this report other than Edison, and no third party is entitled to rely upon this report without the written authorization of CH2M HILL, and a written agreement limiting CH2M HILL's liability.

CH2M HILL is not responsible for any claims, damages, or liabilities associated with the interpretation of these findings or reuse of the analysis, associated site data, or recommendations by third parties without the express written authorization of CH2M HILL. Limitations of this assessment may not be altered or waived without written consent of CH2M HILL.

It was beyond CH2M HILL's authorized scope of work to review: (1) materials containing asbestos, (2) the presence of radon, (3) the presence of lead-based paint, (4) lead in drinking water, (5) identification or delineation of jurisdictional wetlands, (6) issues associated with worker health and safety, (7) issues pertaining to compliance with environmental regulations, or (8) liabilities associated with the offsite management of solid or hazardous wastes. It was also beyond the scope of work to conduct interviews with local government officials. The exclusion of the above items is not a representation of the relevance of these nonscope considerations to the subject property.

The services described in this report were performed consistent with generally accepted professional consulting principles and practices. These services were performed consistent with our agreement with our client. We also do not warrant the accuracy of information supplied by others nor the use of segregated portions of this report.

This is a technical report and is not a legal representation or interpretation of environmental laws, rules, regulations, or policies of local, state, or federal governmental agencies.

Any opinions or recommendations presented herein apply to site conditions existing when services were performed. CH2M HILL is unable to report on or accurately predict events that may change the site conditions after the described services are performed, whether occurring naturally or caused by external forces.

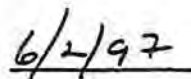
No investigation is thorough enough to exclude the presence of hazardous substances at a given site. If hazardous substances or hazardous conditions have not been identified during the assessment, such a finding should not therefore be construed as a guarantee of the absence of such substances or conditions, but rather as the result of the services performed within the scope and limitations of the work performed.

Signature Page

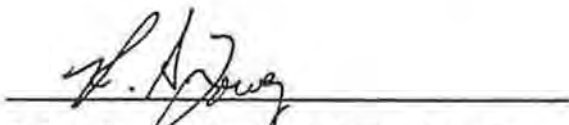
The following CH2M HILL Environmental Professionals are primarily responsible for the Phase II ESA performed at the MGS.



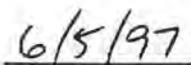
Tim Mosko, MGS Site Lead and
Phase II ESA Report Primary Author



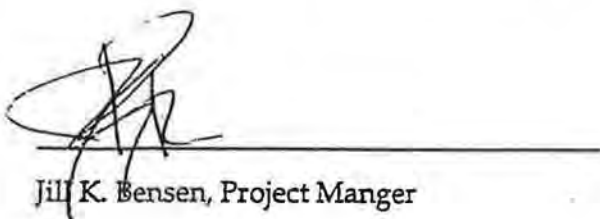
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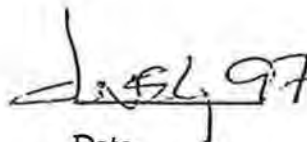
Rob A. Lowey, Assistant Project Manager



Date



Jill K. Bensen, Project Manager



Date

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TABLE 1
SUMMARY OF INVESTIGATED SITE FEATURES
MANDALAY GENERATING STATION
EDISON PHASE II ESA

SITE FEATURE	ISSUE	PHASE II INVESTIGATION	PHASE II INVESTIGATION RESULTS	RECOMMENDATIONS
1. Hazardous Waste Site at Nearby Property on W. 5th St. at Harbor Blvd.	Potential groundwater impact from nearby property	The site is greater than ¼ mile from the MGS property, and is hydraulically cross to down gradient of the MGS. Therefore, no subsurface investigation of this area was performed.	Regulatory agency file review provided no evidence that the hazardous waste site is impacting the MGS. The hazardous waste site is located cross-gradient to down gradient of the MGS.	No further action.
2. Retention Basins	Potential leaks resulting in subsurface contamination	Subsurface investigation of surface impoundments, including retention basins, is currently being conducted by Edison in response to a corporate-wide negotiated order from DTSC. The investigation includes soil chemistry and groundwater sampling at the retention basins. This investigation is in progress and results are pending. Investigation or assessment of the retention basin areas is outside the scope of this Phase II ESA.	Not applicable.	Not applicable.

TABLE 1
SUMMARY OF INVESTIGATED SITE FEATURES
MANDALAY GENERATING STATION
EDISON PHASE II ESA

SITE FEATURE	ISSUE	PHASE II INVESTIGATION	PHASE II INVESTIGATION RESULTS	RECOMMENDATIONS
3. Aboveground Storage Tanks	Previous investigations indicate potential contamination exists at tank locations.	Soil and groundwater at the lube oil tanks were sampled and analyzed for TPH-D and CAM Metals. Soil and groundwater at the fuel oil, distillate, and displacement (cutter) oil tanks were sampled and analyzed for TPH-D. Because extensive soil and groundwater data are available for the West Tank, sampling at West Tank was limited to one sample location. Extensive soil data is also available for shallow soils at the distillate tank, therefore soil samples at the distillate tank were limited to depths of 5 feet and greater. Where field monitoring indicated the presence of VOCs, soil and groundwater samples were also analyzed for VOCs. Sample locations at aboveground storage tanks consist of the following: West Tank: MBH53 soil/GW South Tank: MBH01 soil/GW, MBH02 soil, and MBH03 soil/GW North Tank: MBH04 soil, MBH05 soil, and MBH06 soil Peaker Distillate Tank: MBH07 soil and MBH08 soil/GW Displacement Oil Tank: MBH09 soil/GW and MBH10 soil Lube Oil Tank: MBH11 soil and MBH12 soil/GW	North, south, peaker distillate, displacement oil and lube oil tanks: TPH-D detected at de minimis concentrations in soil and groundwater. West tank: TPH-D detected above screening criteria in soil and groundwater. Lube oil tank: CAM Metals detected at de minimis concentrations in soil and groundwater at the Lube oil tank.	No further action at this time. Agency negotiation, additional sampling and/or remediation may be necessary or appropriate as part of decommissioning.
4. Former Underground Storage Tanks	Potential for past leaks resulting in subsurface contamination	Documentation obtained during performance of Phase II ESA indicating the site was remediated in 1995 and the County of Ventura determined that the closure was complete in 1996.	Existing documentation demonstrates agency-approved closure.	No further action.

TABLE 1
SUMMARY OF INVESTIGATED SITE FEATURES
MANDALAY GENERATING STATION
EDISON PHASE II ESA

SITE FEATURE	ISSUE	PHASE II INVESTIGATION	PHASE II INVESTIGATION RESULTS	RECOMMENDATIONS
5. Peaker Unit Fuel Pumping Area	Potential leaks resulting in subsurface contamination	Soil and groundwater at this location were sampled and analyzed for TPH-D. Where field monitoring indicated the presence of VOCs, soil and groundwater samples were also analyzed for VOCs. Designated soil and groundwater sample locations consist of the following: MBH32 soil/GW, MBH33 soil, and MH59 soil/GW	TPH-D detected at de minimis concentrations in soil. VOCs and TPH-D detected at de minimis concentrations in groundwater.	No further action at this time. Agency negotiation, additional sampling and/or remediation may be necessary or appropriate as part of decommissioning.
6. Primary Fuel Oil Pumping Area	Potential leaks resulting in subsurface contamination	Previous investigation results were inconclusive; therefore, shallow soils were sampled and analyzed for TPH-D at two locations. In May 1995, a quarterly groundwater monitoring program at this location was suspended as a result of a temporary waiver granted by the CRWQCB (CRWQCB, 1995). Because the site has not been formally closed, groundwater was sampled and analyzed for TPH-D at one location. Where field monitoring indicated the presence of VOCs, soil and groundwater samples were also analyzed for VOCs. Designated soil and groundwater sample locations consist of the following: MBH13 soil and MBH14 soil/GW	TPH-D detected at de minimis concentrations in soil.	No further action.

TABLE 1
SUMMARY OF INVESTIGATED SITE FEATURES
MANDALAY GENERATING STATION
EDISON PHASE II ESA

SITE FEATURE	ISSUE	PHASE II INVESTIGATION	PHASE II INVESTIGATION RESULTS	RECOMMENDATIONS
7. Transformers and Switchyard	Potential leaks and spills resulting in subsurface contamination	Oil stained surface soil at individual transformers were sampled and analyzed for PCBs. Designated soil sample locations at transformers consist of the following: Transformers at Units 1 & 2: MSS20, MSS21, MSS22, MSS23, MSS24, and MSS25 Transformers at the Peaker Unit: MSS26 and MSS27 Transformers at Old Insulator Facility: MSS41 and MSS42 Shallow soils along the perimeter of the switchyard were sampled and analyzed for TPH-D and PCBs. Where field monitoring indicated the presence of VOCs, soil and groundwater samples were also analyzed for VOCs. Designated sample locations at transformers consist of the following: Switchyard Perimeter: MBH34 soil, MBH35 soil/GW, MBH36 soil, and MBH37 soil	Transformers: No PCBs detected. Switchyard Perimeter: No constituents of potential concern detected. Investigation limited to perimeter of switchyard.	No further action. No further action at this time. Agency negotiation, additional sampling and/or remediation may be necessary or appropriate as part of decommissioning.

TABLE 1
SUMMARY OF INVESTIGATED SITE FEATURES
MANDALAY GENERATING STATION
EDISON PHASE II ESA

SITE FEATURE	ISSUE	PHASE II INVESTIGATION	PHASE II INVESTIGATION RESULTS	RECOMMENDATIONS
8. Pipelines	Potential leaks resulting in subsurface contamination	Most pipelines are above ground, including most wyes, elbows, valves, and connectors, and no evidence or documentation of a release was observed or obtained during performance of the Phase II ESA. Consequently, a subsurface investigation was not performed specifically for pipelines. However, selected pipelines were investigated simultaneously with other site features such as the pump and transfer stations, as indicated below. Special features associated with piping were investigated including the pig launching area and a submarine pipeline valve pit. Soil at these locations were sampled and analyzed for TPH-D. Where field monitoring indicated the presence of VOCs, soil and groundwater samples were also analyzed for VOCs. Designated sample locations consisted of the following: Pig Launching Area: MBH40 soil Submarine Pipeline Valve Pit: MBH43 soil/GW and MBH60 soil/GW. The submarine pipeline valve pit area was previously investigated by Edison for suspected TPH-contaminated soils. TPH-contaminated soils were found in the area ranging from non-detected to 28,500 mg/kg at depths from 1 foot to 9 feet bgs. This area was remediated by Edison in 1992 and 17 borings were completed to verify cleanup of the TPH-contaminated soil to the cleanup objective of 1,000 ppm(Southern California Edison, 1993b).	Pig Launching Area: No constituents of potential concern detected Submarine Pipeline Valve Pit: Existing documentation confirmed soil remediation. CAM metals detected at de minimis concentrations in groundwater. No other constituents of potential concern detected.	No further action. No further action at this time. Agency negotiation, additional sampling and/or remediation may be necessary or appropriate as part of decommissioning.

TABLE 1
SUMMARY OF INVESTIGATED SITE FEATURES
MANDALAY GENERATING STATION
EDISON PHASE II ESA

SITE FEATURE	ISSUE	PHASE II INVESTIGATION	PHASE II INVESTIGATION RESULTS	RECOMMENDATIONS
9. Oil Spills	Potential for residual subsurface contamination	Three past known oil spills were either isolated and cleaned up by Edison or determined by Edison to have not affected marine life or beaches (Southern California Edison, 1996a).	Edison reported fuel oil spill occurred east of retention basins in late 1970's. Elevated vanadium in soil reportedly present. No documentation of the spill could be located.	No further action.
10. Dredge Spoil Piles	Potential sediment and subsurface contamination	Dredge Spoil pile soils were sampled and analyzed for TPH-D, CAM Metals, and PCBs. Designated soil sample locations consist of the following: MBH49 soil, MBH50 soil, MBH51 soil, MBH62 soil/GW, MBH63 soil/GW, MBH64 soil/GW, and MBH65 soil/GW MBH49 also investigated potential construction debris located adjacent to the dredge spoils area.	CAM Metals and VOCs detected at de minimis concentrations in soil. CAM metals beryllium, cadmium, lead, mercury, and thallium were detected at concentrations above the screening criteria in groundwater.	No further action at this time. Agency negotiation, additional sampling and/or remediation may be necessary or appropriate as part of decommissioning
11. Septic Tank	Potential disposal of hazardous materials resulting in subsurface contamination	Soil and groundwater samples collected at the septic tank were analyzed for TPH-D, VOCs, and CAM Metals. Designated soil and groundwater sample locations at the septic tank consist of the following: MBH38 soil and MBH39 soil/GW	TPH-D, VOCs, and CAM Metals detected at de minimis concentrations in soil. CAM Metals detected at de minimis concentrations in groundwater.	No further action.

TABLE 1
SUMMARY OF INVESTIGATED SITE FEATURES
MANDALAY GENERATING STATION
EDISON PHASE II ESA

SITE FEATURE	ISSUE	PHASE II INVESTIGATION	PHASE II INVESTIGATION RESULTS	RECOMMENDATIONS
12. Hazardous Waste Storage Areas	Potential releases resulting in subsurface contamination	Soil and groundwater samples were collected from the hazardous waste storage areas and were analyzed for TPH-D, VOCs, PCBs, and CAM Metals. Designated soil and groundwater sample locations at the hazardous materials storage areas consist of the following: MBH47 soil and MBH48 soil/GW	TPH-D and CAM Metals detected at de minimis concentrations in soil and CAM Metals at de minimis concentrations in groundwater.	No further action.
13. Secondary Fuel Pumping Area	Potential leaks resulting in subsurface contamination	Soil and groundwater samples collected at this location were analyzed for TPH-D. Where field monitoring indicated the presence of VOCs, soil samples were also analyzed for VOCs. Designated soil and groundwater sample locations consist of the following: MBH15 soil and MBH16 soil/GW	CAM Metals detected at de minimis concentrations in soil and groundwater.	No further action.

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TABLE 1
SUMMARY OF INVESTIGATED SITE FEATURES
MANDALAY GENERATING STATION
EDISON PHASE II ESA

SITE FEATURE	ISSUE	PHASE II INVESTIGATION	PHASE II INVESTIGATION RESULTS	RECOMMENDATIONS
14. Power Block Perimeter	Potential leaks through concrete floor or at drainlines resulting in subsurface contamination	Soil and groundwater samples collected at the power block were analyzed for TPH-D and CAM Metals. Investigation was limited to the perimeter of the power blocks and excluded areas directly below the power blocks. Designated soil and groundwater sample locations consist of the following: Power Block Units 1 & 2: MBH17 soil/GW, MBH18 soil, and MBH19 soil/GW Peaker Unit: MBH30 soil and MBH31 soil/GW Where field monitoring indicated the presence of VOCs, samples were also analyzed for VOCs. Power block samples collected at MBH18 and MBH19, which are adjacent to power block transformers, were also analyzed for PCBs.	Power block: TPH-D and CAM Metals detected at de minimis concentrations in soil. CAM metals mercury and nickel detected above the screening criteria in groundwater at power block units 1 and 2. Investigation limited to powerblock perimeter. Peaker Unit: TPH-D and CAM metals detected at de minimis concentrations in soil. CAM metals (mercury) detected above the screening criteria in groundwater.	No further action at this time. Agency negotiation, additional sampling and/or remediation may be necessary or appropriate as part of decommissioning.

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TABLE 1
SUMMARY OF INVESTIGATED SITE FEATURES
MANDALAY GENERATING STATION
EDISON PHASE II ESA

SITE FEATURE	ISSUE	PHASE II INVESTIGATION	PHASE II INVESTIGATION RESULTS	RECOMMENDATIONS
15. Oil/Water Separator & Sump	Potential releases resulting in subsurface contamination	Soil and groundwater samples collected at the oil/water separator were analyzed for TPH-D, VOCs, and CAM Metals. Designated soil and groundwater sample locations at the oil/water separator consist of the following: MBH28 soil and MBH29 soil/GW	TPH-D, VOCs, and CAM Metals detected at de minimis concentrations in soil. VOCs and CAM Metals detected at de minimis concentrations in groundwater. Investigation limited due to restricted access.	No further action at this time. Agency negotiation, additional sampling and/or remediation may be necessary or appropriate as part of decommissioning.
16. Demolition Debris	Potential subsurface contamination	Demolition debris observed during Phase I site visit was removed from MGS prior to performance of the Phase II ESA. No further investigation of this area was performed.	Site visit confirmed, feature was removed.	No further action.
17. Adjacent Petroleum Facility (Torch Operating Company)	Potential subsurface contamination from an off-property source	Soil and groundwater samples were collected to assess potential impact from an adjacent petroleum facility (Torch Operating Co.). Soil and groundwater samples were collected along the property boundary and were analyzed for TPH-D. Where field monitoring indicated the presence of VOCs, soil and groundwater samples were also analyzed for VOCs. Designated soil and groundwater sample locations consist of the following: MBH44 soil/GW, MBH45 soil/GW, MBH46 soil/GW, MBH59 soil/GW, MBH60 soil/GW, and MBH61 soil/GW Samples collected from MBH45, which is adjacent to off-property transformers, were also analyzed for PCBs.	VOCs detected above screening criteria in groundwater.	No further action.

TABLE 1
SUMMARY OF INVESTIGATED SITE FEATURES
MANDALAY GENERATING STATION
EDISON PHASE II ESA

SITE FEATURE	ISSUE	PHASE II INVESTIGATION	PHASE II INVESTIGATION RESULTS	RECOMMENDATIONS
18. Suspected Blast Grit Disposal Areas	Potential subsurface contamination	Documentation obtained during performance of Phase II ESA indicating Edison investigated the area in 1993 and determined that no further action was required. Designated soil sample locations consist of the following: MBH67/soil, MBH68/soil, and MBH69/soil.	Existing documentation indicates no constituents of concern detected in soil or groundwater. CAM metals arsenic detected at concentrations above the screening criteria in soil.	No further action.
19. Oil Skimmer	Potential subsurface contamination	Soil samples collected from the oil skimmer area were analyzed for TPH-D and CAM Metals. Designated soil sample locations consist of the following: MBH52 soil	CAM Metals detected at de minimis concentrations in soil.	No further action.
20. Cooling Water Intake Canal	Potential release of contaminants to the canal that may impact sediments	Soil sediment samples were collected and analyzed for TPH-D, CAM Metals, pesticides, and herbicides. Designated soil sediment sample locations consist of the following: MBH54 soil, MBH55 soil, MBH56 soil, MBH57 soil, MBH58 soil	TPH-D detected at de minimis concentrations in sediment. CAM metals arsenic and beryllium detected above screening criteria in one of the samples of sediment.	No further action.
21. Former Drum Storage Area	Potential subsurface contamination	Soil samples were collected and analyzed for VOCs, TPH-D, CAM Metals, and PCBs. Designated soil sample locations consist of the following: MBH48 soil, MBH66 soil/GW	TPH-D and CAM metals detected at de minimis concentrations in soil. CAM metals barium, chromium, lead, mercury, nickel, and thallium detected above screening criteria in groundwater.	No further action.

TABLE 1
SUMMARY OF INVESTIGATED SITE FEATURES
MANDALAY GENERATING STATION
EDISON PHASE II ESA

SITE FEATURE	ISSUE	PHASE II INVESTIGATION	PHASE II INVESTIGATION RESULTS	RECOMMENDATIONS
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Note: No investigation or data evaluation was conducted for areas where the recommendation is indicated to be "not applicable." Also, no investigation or limited investigation was conducted in areas of the facility that either were not readily accessible for investigation or access to the area was restricted. The recommendation provided for these areas is no further action at this time. However, agency negotiation, sampling and/or remediation may be necessary or appropriate for these areas as part of decommissioning.

De minimis conditions are defined herein as soil concentrations below: 1) soil screening levels published by the LARWQCB (1996), 2) the TSCA cleanup threshold for total PCBs, and 3) EPA Region IX generic Preliminary Remediation Goals (PRGs); and groundwater concentrations below State of California MCLs.

TABLE 2
STANDARDIZED GUIDELINES FOR SOIL SAMPLING AND ANALYSIS
MANDALAY GENERATING STATION
EDISON PHASE II ESA

POTENTIAL AREA OF CONCERN	NUMBER OF SOIL BORINGS	SAMPLE DEPTH(S) FEET BGS	SOIL LABORATORY ANALYSIS
Cooling Tower	2-4	0.5', 3'-5'	CAM Metals (200.7, 6010, 7060, 7421, 7470, 7471) pH (150.1, 9045)
Underground Storage Tanks	2	See Note 1	See Note 3
Belowgrade Tanks and Sumps	1-2	See Note 1	See Note 3
Fuel Oil Aboveground Storage Tanks	3	See Note 2	TPH-D (8015M)
Distillate Aboveground Storage Tanks	2	See Note 2	TPH-D (8015M)
Switch Yard Perimeter	4	0.5', 3'	PCBs (8080) TPH-D (8015M)
Power Block Perimeter	4	See Note 2	CAM Metals (200.7, 6010, 7060, 7421, 7470, 7471) TPH-D (8015M)
Transformer(s)	<1-2	0.5', 3'	PCBs (8080) TPH-D (8015M)
Demineralizer and/or Evaporation Pond	2	See Note 2	pH (150.1, 9045) CAM Metals (200.7, 6010, 7060, 7421, 7470, 7471)
Underground Piping	1-5	Below pipe invert	TPH-D (8015M)
Aboveground Tank Outlet	2 per site	0.5', 3'-5'	TPH-D (8015M)
Fuel Pumping Area	2	0.5', 3'-5'	TPH-D (8015M)

Notes:

- Two samples collected: (1) near tank/sump bottom, and (2) 3 to 5 feet below tank/sump bottom.
- Soil samples collected at 0.5-feet bgs and at 5-foot intervals thereafter until groundwater, refusal, or maximum depth of 20 feet bgs is encountered.
- Analysis is dependent on tank content or potential source areas that discharge to sump. See Table 3.
bgs = below ground surface.

NA = Not applicable.

TABLE 3
SITE INVESTIGATION METHODS AND RATIONALE
MANDALAY GENERATING STATION
EDISON PHASE II ESA

SAMPLE LOCATION	SAMPLE MATRIX/DEPTH	SAMPLING METHOD	RATIONALE
South Fuel Oil Storage Tank:	Soil/Groundwater	Direct Push	PID>10 ppm in 6.2' soil sample. No available soil or groundwater data. A groundwater sample representing downgradient groundwater conditions for the tank farm area was collected at MBH03.
MBH01 soil/GW	0.5', 5.0', GW@9.15' bgs		
MBH02 soil	0.5', 5.0'		
MBH03 soil/GW	0.5', 5.0', GW@6.05' bgs		
North Fuel Oil Storage Tank:	Soil	Direct Push	No available soil data.
MBH04 soil	0.5', 5.0'		
MBH05 soil	0.5', 5.0'		
MBH06 soil	0.5', 5.0'		
Distillate Fuel Tank:	Soil/Groundwater	Direct Push	Studies at the nearby West Tank show TPH may be present below 3.0 feet. A groundwater sample representing downgradient groundwater conditions for the tank farm area was collected at MBH08.
MBH07 soil	5.0', 10.0'		
MBH08 soil/GW	5.0'; GW@7.6' bgs		
Displacement Oil Tank:	Soil/Groundwater	Direct Push	No available soil data. PID>10 ppm in soils below 5.5'.
MBH09 soil/GW	0.5', 5.5', GW @ 10.3		
MBH10 soil	0.5', 5.0'		
Lube Oil Tank:	Soil/Groundwater	Direct Push	No available soil or groundwater data
MBH11 soil	0.5', 4.5'		
MBH12 soil/GW	0.5', 5.0', GW @ 7.3' bgs		
Primary Fuel Oil Pumping Area:	Soil/Groundwater	Direct Push	PID>10 ppm in 4.5' soil sample. In 1994, a study of the primary fuel area only evaluated soils between 5 and 10 feet bgs. Shallow soils in the vicinity of the releases were not examined.
MBH13 soil	0.5', 5.0'		
MBH14 soil/GW	0.5', (5.0'), GW @ 9.6' bgs		
MBH17 soil	0.5', 3.0'		
Secondary Fuel Pumping Area:	Soil/Groundwater	Direct Push	PID> 10 ppm in 8.2' soil sample. No available soil or groundwater data. CA Metals were analyzed at MBH16 due to proximity to power block.
MBH15 soil	(0.5'), (5.0'), 8.2'		
MBH16 GW	(0.5'), (4.4'), GW @ 7.8'		

TABLE 3
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MANDALAY GENERATING STATION
EDISON PHASE II ESA

SAMPLE LOCATION	SAMPLE MATRIX/DEPTH	SAMPLING METHOD	RATIONALE
Power Block Units 1-2	Soil/Groundwater	Direct Push	No available soil or groundwater data. Power block samples that were collected adjacent to transformers were analyzed for PCBs.
MBH17 soil/GW	0.5', 5.0', GW@7.7' bgs		
MBH18 soil	0.5', 5.0'		
MBH19 soil/GW	0.5', 5.0', GW@7.8' bgs		
Transformers Units 1-2	Soil	Grab	No available soil data. Evidence of oil stained soil at transformers. One sample per transformer was collected.
MSS20 soil	Surface soil/ballast		
MSS21 soil	Surface soil/ballast		
MSS22 soil	Surface soil/ballast		
MSS23 soil	Surface soil/ballast		
MSS24 soil	Surface soil/ballast		
MSS25 soil	Surface soil/ballast		
Transformers at the Peaker Unit:	Soil	Grab	No available soil data. Evidence of oil stained soil at transformers.
MSS26 soil	Surface soil/ballast		
MSS27 soil	Surface soil/ballast		
Oil/Water Separator:	Soil/Groundwater	Direct Push	PID >10 ppm in soil below 0.5'. No available soil or groundwater data.
MBH28 soil	8.5', 9.0'		
MBH29 soil/GW	0.5', 5.0, 8.6', 10.8', GW @10.8'		
Peaker Unit:	Soil/Groundwater	Direct Push	PID> 10 ppm in 8.5' soil sample. No available soil or groundwater data.
MBH30 soil	0.5', 5.0'		
MBH31 soil/GW	0.5', 5.0', GW@9.1 bgs		
Peaker Unit Fuel Pumping Area:	Soil/Groundwater	Direct Push	PID> 10 ppm in soils below 7.0'. No available soil or groundwater data.
MBH32 soil/GW	(3.0'), 4.5', 7.0', GW@8.4' bgs		
MBH33 soil	4.9', 8.9'		

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TABLE 3
SITE INVESTIGATION METHODS AND RATIONALE
MANDALAY GENERATING STATION
EDISON PHASE II ESA

SAMPLE LOCATION	SAMPLE MATRIX/DEPTH	SAMPLING METHOD	RATIONALE
Switchyard Perimeter: MBH134 soil MBH35 soil/GW MBH36 soil MBH37 soil	Soil/Groundwater 0.5', 2.5' 0.5', 2.5', (7.0'), GW @ 7.5' bgs 0.5', 3.5' 0.5', 3.8'	Direct Push or Hand Auger	PID> 10 ppm in soils below 6.2'. No available soil data.
Septic Tank: MBH38 soil MBH39 soil/GW	Soil/Groundwater 0.5', 5.0' 0.5', 5.0', GW @ 7.1' bgs	Direct Push	No available soil or groundwater data.
Pig Launching Area: MBH40 soil	Soil 0.5', 5.0'	Direct Push	No available soil data.
Transformers at Insulator Test Facility: MSS41 surface soil MSS42 surface soil	Soil Surface soil/ballast Surface soil/ballast	Grab	No available soil data at two transformer locations. One sample per transformer.
Submarine Pipeline Valve Pit: MBH43 soil/GW	Soil/Groundwater 0.5', 4.5', 7.9', GW@8.5' bgs	Direct Push	PID>10 ppm in soil below 4.5'. No available soil data. This sample may also characterize potential contamination from an adjacent petroleum facility (Torch Operating Co.).
Adjacent Petroleum Facility (Torch Operating Company): MBH44 soil/GW MBH45 soil/GW MBH46 soil/GW MBH59 soil/GW MBH60 soil/GW MBH61 GW	Soil/Groundwater (0.5'), 5.0', 10.0', 15.0', GW@17.7' bgs 0.5', 5.0, GW@8.2' bgs (0.5'), 4.9', GW@8.3' bgs (1.0'), (4.8'), (9.4'), GW@8.1' bgs (1.0'), (5.0'), (9.4'), GW@7.9' bgs GW@8.5' bgs	Direct Push	PID>10 ppm in MBH44 (below 4.5'), MBH45 (below 5.0') and MBH46 (below 4.9'). No available soil or groundwater data. These samples also characterize potential contamination from an adjacent petroleum facility (Torch Operating Co.). PCBs analyzed at sample locations (adjacent to off property transformer .

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TABLE 3
SITE INVESTIGATION METHODS AND RATIONALE
MANDALAY GENERATING STATION
EDISON PHASE II ESA

SAMPLE LOCATION	SAMPLE MATRIX/DEPTH	SAMPLING METHOD	RATIONALE
Hazardous Waste Storage Areas:	Soil/Groundwater	Direct Push	No available soil or groundwater data.
MBH47 soil	0.5', 4.0', 9.4'		
MBH48 soil/GW	0.5', 5.0', 10.0', GW@8.8' bgs		
Canal Dredge Spoils:	Soil/Groundwater	Direct Push	Makeup of spoils is unknown. MBH49 also addresses construction debris located adjacent to the dredge spoils area.
MBH49 soil	0.5', 4.9'		
MBH50 soil	0.5', 4.9', and 9.0'		
MBH51 soil	0.5', 5.0'		
MBH62 soil/GW	(0.5'), 5.0', GW@8.8' bgs		
MBH63 soil/GW	(2.0'), (5.0'), GW@10.3' bgs		
MBH64 soil/GW	2.0', 5.0', GW@8.8' bgs		
MBH65 soil/GW	0.8', 5.5', GW@8.5' bgs		
Oil Skimmer:	Soil	Direct Push	No soil data available. Significant spillage around skimmer is evident.
MBH52 soil	1.0', 5.0'		
West Fuel Oil Storage Tank:	Soil/Sediment/Groundwater	Direct Push	PID>10 ppm in soils below 5.0'. Phase 2 sampling at West Tank was limited to one sample location downgradient of the West Tank and the tank farm area.
MBH53 soil/sediment/GW	0.5', 5.0', GW@9.7' bgs		
Cooling Water Intake Canal:	Sediment	Grab (composite)	Potential release of contaminants to the canal resulting in impact to sediments. Composite sediment samples collected from 5 locations along length of canal.
MBH54 sediment	0.0'		
MBH55 sediment	0.0'		
MBH56 sediment	0.0'		
MBH57 sediment	0.0'		
MBH58 sediment	0.0'		
Suspected Blast Grit Disposal Areas:	Soil/Groundwater	Direct Push	No available soil or groundwater data.
MBH66 soil /GW	0.5', 5.0', GW@10.0' bgs		

TABLE 3
SITE INVESTIGATION METHODS AND RATIONALE
MANDALAY GENERATING STATION
EDISON PHASE II ESA

SAMPLE LOCATION	SAMPLE MATRIX/DEPTH	SAMPLING METHOD	RATIONALE
Former Drum Storage Area:	Soil	Direct Push	No available soil or groundwater data.
MBH67 soil	0.5', 3.0'		
MBH68 soil	0.5', 3.0'		
MBH69 soil	0.5', 3.0'		
Note: Soil and groundwater samples analyzed in accordance with analytical methods identified in Tables 3. () - indicates sample was collected, but not analyzed.			

TABLE 4
Summary of Analytical Screening Criteria
Mandalay Generating Station
Edison Phase II ESA

Analyte	Soil Screening Criteria ^a	Water Screening Criteria ^b
Petroleum Hydrocarbons ^c		
TPH _(C4-C10)	1,000 mg/kg	—
TPH _(C10-C22)	10,000 mg/kg	—
TPH _(C25-C40)	50,000 mg/kg	—
Metals		
Antimony	680 mg/kg	0.006 mg/L
Arsenic	2.4 mg/kg	0.05 mg/L
Barium	100,000 mg/kg	1 mg/L
Beryllium	1.1 mg/kg	0.004 mg/L
Cadmium	850 mg/kg	0.005 mg/L
Chromium, VI	64 mg/kg	—
Chromium, total	450 mg/kg	0.05 mg/L
Cobalt	97,000 mg/kg	—
Copper	63,000 mg/kg	—
Lead	1,000 mg/kg	0.015 mg/L
Mercury(inorganic)	—	0.002 mg/L
Molybdenum	8,500 mg/kg	—
Nickel	34,000 mg/kg	0.1 mg/L
Nickel Subsulfide	11,000 mg/kg	—
Selenium	8,500 mg/kg	0.05 mg/L
Silver	8,500 mg/kg	—
Thallium	—	0.002 mg/L
Vanadium	12,000 mg/kg	—
Zinc	100,000 mg/kg	—
Polychlorinated Biphenyls ^d		
PCB 1016	50,000 ug/kg	0.5 ug/L
PCB 1221	50,000 ug/kg	0.5 ug/L
PCB 1232	50,000 ug/kg	0.5 ug/L
PCB 1242	50,000 ug/kg	0.5 ug/L

TABLE 4
Summary of Analytical Screening Criteria
Mandalay Generating Station
Edison Phase II ESA

Analyte	Soil Screening Criteria ^a	Water Screening Criteria ^b
PCB 1248	50,000 ug/kg	0.5 ug/L
PCB 1254	50,000 ug/kg	0.5 ug/L
PCB 1260	50,000 ug/kg	0.5 ug/L
Volatile Organic Compounds		
Benzene	100 ug/kg ^c	1 ug/L ^c
Bromobenzene	—	—
Bromochloromethane	—	—
Bromodichloromethane	1,400 ug/kg	100 ug/L
Bromoform	240,000 ug/kg	100 ug/L
Bromomethane	23,000 ug/kg	—
n-Butylbenzene	—	—
sec-Butylbenzene	—	—
tert-Butylbenzene	—	—
Carbon tetrachloride	500 ug/kg	0.5 ug/L
Chlorobenzene	220,000 ug/kg	70 ug/L
Chloroethane	1,600,000 ug/kg	—
Chloroform	530 ug/kg	100 ug/L
Chloromethane	2,600 ug/kg	—
2-Chlorotoluene	—	—
4-Chlorotoluene	—	—
Dibromochloromethane	23,000 ug/kg	100 ug/L
1,2-Dibromo-3-chloropropane	1,400 ug/kg	0.2 ug/L
1,2-Dibromoethane	20 ug/kg	0.05 ug/L
Dibromomethane	6,800,000 ug/kg	—
1,2-Dichlorobenzene	700,000 ug/kg	600 ug/L
1,3-Dichlorobenzene	860,000 ug/kg	—
1,4-Dichlorobenzene	8,500 ug/kg	5 ug/L
Dichlorodifluoromethane	310,000 ug/kg	—
1,1-Dichloroethane	1,700,000 ug/kg	5 ug/L

TABLE 4
Summary of Analytical Screening Criteria
Mandalay Generating Station
Edison Phase II ESA

Analyte	Soil Screening Criteria ^a	Water Screening Criteria ^b
1,2-Dichloroethane	550 ug/kg	0.5 ug/L
1,1-Dichloroethene	80 ug/kg	6 ug/L
cis-1,2-Dichloroethene	100,000 ug/kg	6 ug/L
trans-1,2-Dichloroethene	270,000 ug/kg	10 ug/L
1,2-Dichloropropane	680 ug/kg	5 ug/L
1,3-Dichloropropane	--	--
2,2-Dichloropropane	--	--
1,1-Dichloropropene	--	--
cis-1,3-Dichloropropene	550 ug/kg	.05 ug/L
trans-1,3-Dichloropropene	550 ug/kg	.05 ug/L
Ethylbenzene	70,000 ug/kg ^c	700 ug/L ^c
Hexachlorobutadiene	24,000 ug/kg	--
Isopropylbenzene	--	--
p-Isopropyltoluene	--	--
Methylene chloride	18,000 ug/kg	5 ug/L
Naphthalene	--	--
n-Propylbenzene	--	--
Styrene	680,000 ug/kg	100 ug/L
1,1,1,2-Tetrachloroethane	5,400 ug/kg	--
1,1,2,2-Tetrachloroethane	1,100 ug/kg	1 ug/L
Tetrachloroethene	17,000 ug/kg	5 ug/L
Toluene	15,000 ug/kg ^c	150 ug/L ^c
1,2,3-Trichlorobenzene	--	--
1,2,4-Trichlorobenzene	5,500,000 ug/kg	70 ug/L
1,1,1-Trichloroethane	3,000,000 ug/kg	200 ug/L
1,1,2-Trichloroethane	1,500 ug/kg	5 ug/L
Trichloroethene	7,000 ug/kg	5 ug/L
Trichlorofluoromethane	1,300,000 ug/kg	150 ug/L
1,2,3-Trichloropropane	3.1 ug/kg	--

TABLE 4
Summary of Analytical Screening Criteria
Mandalay Generating Station
Edison Phase II ESA

Analyte	Soil Screening Criteria ^a	Water Screening Criteria ^b
1,2,4-Trimethylbenzene	--	--
1,3,5-Trimethylbenzene	--	--
Vinyl chloride	35 ug/kg	0.5 ug/L
o-Xylene	175,000 ug/kg ^c	1,750 ug/L ^c
m,p-Xylenes	175,000 ug/kg	1,750 ug/L

Notes:

^a Soil screening criteria are EPA Region IX generic Preliminary Remediation Goals (PRGs) for industrial setting unless otherwise noted.

^b Groundwater screening criteria are the lower of State and Federal Maximum Contaminant Levels (MCLs) unless otherwise noted.

^c Soil screening criteria for TPH and benzene, toluene, ethylbenzene, and xylene (BTEX) are screening levels published in the LARWQCB *Interim Site Assessment and Cleanup Guidebook*, May 1996.

^d Soil screening criteria for PCBs is the TSCA cleanup threshold for total PCBs of 50 ppm.

mg/kg = milligrams per kilogram

µg/kg = micrograms per kilogram

mg/L = milligrams per liter

µg/L = micrograms per liter

MCL = Maximum Contaminant Limit

"--" indicates PRG, or Primary Federal or State MCL does not exist for this constituent

1. Analytical methods include TPH-8015M, CAM metals-200.7, 6010, 7060, 7421, 7470, and 7471; PCBs - EPA 8080; VOCs - 8260; pH - 150.1, and 9045

Table 6
Constituents of Concern in Groundwater
Mandalay Generating Station
Edison Phase II ESA

Facility Location:		South Fuel Storage Tank	Power Block Units 1 & 2	Power Block Units 1 & 2	Peaker Unit
Boring Number:		MBH03	MBH17	MBH19	MBH31
Sample Depth:		6.2 ft.	7.7 ft.	7.8 ft.	9.1 ft.
Sample ID:		MBH03BW0105	MBH17BW0103	MBH19BW0105	MBH31BW0104
Collection Date:		11/04/96	10/30/96	10/30/96	10/31/96
Analyte	Units				
VOC					
BENZENE	ug/l				
1,2-DICHLOROETHANE	ug/l				
PETROLEUM HYDROCARBONS					
TPH (C10 to C24)	mg/l	.6 =			
METALS					
BARIUM	mg/l				
BERYLLIUM	mg/l				
CADMIUM	mg/l				
CHROMIUM, TOTAL	mg/l				
LEAD	mg/l				
MERCURY	mg/l		.0021 =	.002 =	.013 =

Note:
ND - Not Detected Above Criteria
= - Detected Above Criteria

Table 6
Constituents of Concern in Groundwater
Mandalay Generating Station
Edison Phase II ESA

Facility Location:		Peaker Unit Pump Area	Submarine Pipeline Sump	Adjacent Petroleum Facility	Adjacent Petroleum Facility
Boring Number:		MBH32	MBH43	MBH46	MBH60
Sample Depth:		8.4 ft.	8.5 ft.	8.3 ft.	8 ft.
Sample ID:		MBH32BW0104	MBH43BW0104	MBH46BW0103	MBH60BW0201
Collection Date:		11/05/96	10/31/96	10/31/96	01/29/97
Analyte	Units				
VOC					
BENZENE	ug/l				2.5 =
1,2-DICHLOROETHANE	ug/l			6.7 =	
PETROLEUM HYDTRCARBONS					
TPH (C10 to C24)	mg/l	1.6 =			
METALS					
BARIUM	mg/l				
BERYLLIUM	mg/l				
CADMIUM	mg/l				
CHROMIUM, TOTAL	mg/l				
LEAD	mg/l				
MERCURY	mg/l		.002 =		

Note:
ND - Not Detected Above Criteria
= - Detected Above Criteria

Table 6
Constituents of Concern in Groundwater
Mandalay Generating Station
Edison Phase II ESA

Facility Location:		Adjacent Petroleum Facility	Dredge Spoils Area	Dredge Spoils Area	Dredge Spoils Area
Boring Number:		MBH61	MBH62	MBH63	MBH64
Sample Depth:		8.5 ft.	0 ft.	10.3 ft.	8.8 ft.
Sample ID:		MBH61BW0201	MBH62BW0201	MBH63BW0201	MBH64BW0201
Collection Date:		01/29/97	01/30/97	01/30/97	01/30/97
Analyte	Units				
VOC					
BENZENE	ug/l	6.8 =			
1,2-DICHLOROETHANE	ug/l				
PETROLEUM HYDTRCARBONS					
TPH (C10 to C24)	mg/l				
METALS					
BARIUM	mg/l				
BERYLLIUM	mg/l				
CADMIUM	mg/l				.006 =
CHROMIUM, TOTAL	mg/l				
LEAD	mg/l		.07 =	.02 =	.03 =
MERCURY	mg/l		.003 =	.01 =	.006 =

Note:
ND - Not Detected Above Criteria
= - Detected Above Criteria

Table 6
Constituents of Concern in Groundwater
Mandalay Generating Station
Edison Phase II ESA

Facility Location:		Dredge Spoils Area	Former Drum Storage Area
Boring Number:		MBH65	MBH66
Sample Depth:		0 ft.	0 ft.
Sample ID:		MBH65BW0221	MBH66BW0401
Collection Date:		01/30/97	05/21/97
Analyte	Units		
VOC			
BENZENE	ug/l		
1,2-DICHLOROETHANE	ug/l		
PETROLEUM HYDROCARBONS			
TPH (C10 to C24)	mg/l		
METALS			
BARIUM	mg/l		5.8 =
BERYLLIUM	mg/l	.01 =	
CADMIUM	mg/l	.014 =	
CHROMIUM, TOTAL	mg/l		.71 =
LEAD	mg/l		.313 =
MERCURY	mg/l		.002 =

Note:
ND - Not Detected Above Criteria
= - Detected Above Criteria

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Analyte	Units	South Fuel Storage	South Fuel Storage	South Fuel Storage
		Tank	Tank	Tank
		Boring Number:	Boring Number:	Boring Number:
		Sample Depth:	Sample Depth:	Sample Depth:
		Sample ID:	Sample ID:	Sample ID:
		MBH01	MBH01	MBH01
		5 to 1 ft.	5 to 5.4 ft.	6.2 to 6.6 ft.
		MBH01BS0101	MBH01BS0102	MBH01BS0103
		11/04/96	11/04/96	11/04/96
VOC				
BENZENE	ug/kg			2 U
BROMOBENZENE	ug/kg			2 U
BROMOCHLOROMETHANE	ug/kg			
BROMODICHLOROMETHANE	ug/kg			5 U
BROMOFORM	ug/kg			5 U
BROMOMETHANE	ug/kg			5 U
n-BUTYLBENZENE	ug/kg			2 U
SEC-BUTYLBENZENE	ug/kg			2 U
tert-BUTYLBENZENE	ug/kg			2 U
CARBON TETRACHLORIDE	ug/kg			5 U
CHLOROBENZENE	ug/kg			2 U
CHLOROETHANE	ug/kg			5 U
CHLOROFORM	ug/kg			2 U
CHLOROMETHANE	ug/kg			5 U
2-CHLOROTOLUENE	ug/kg			2 U
4-CHLOROTOLUENE	ug/kg			2 U
DIBROMOCHLOROMETHANE	ug/kg			2 U
1,2-DIBROMO-3-CHLOROPROPANE	ug/kg			10 U
1,2-DIBROMOETHANE	ug/kg			2 U
DIBROMOMETHANE	ug/kg			5 U
1,2-DICHLOROBENZENE	ug/kg			2 U
1,3-DICHLOROBENZENE	ug/kg			2 U
1,4-DICHLOROBENZENE	ug/kg			2 U
DICHLORODIFLUOROMETHANE	ug/kg			5 U
1,1-DICHLOROETHANE	ug/kg			2 U
1,2-DICHLOROETHANE	ug/kg			2 U
1,1-DICHLOROETHENE	ug/kg			2 U
cis-1,2-DICHLOROETHENE	ug/kg			2 U
trans-1,2-DICHLOROETHENE	ug/kg			2 U
1,2-DICHLOROPROPANE	ug/kg			2 U
1,3-DICHLOROPROPANE	ug/kg			2 U
2,2-DICHLOROPROPANE	ug/kg			2 U
1,1-DICHLOROPROPENE	ug/kg			
1,1-DICHLOROPROPENE	ug/kg			
cis-1,3-DICHLOROPROPENE	ug/kg			2 U
trans-1,3-DICHLOROPROPENE	ug/kg			2 U
ETHYLBENZENE	ug/kg			2 U
HEXACHLOROBUTADIENE	ug/kg			2 U
ISOPROPYLBENZENE (CUMENE)	ug/kg			2 U
p-ISOPROPYLTOLUENE	ug/kg			2 U
METHYLENE CHLORIDE	ug/kg			10 U
NAPHTHALENE	ug/kg			2 U
n-PROPYLBENZENE	ug/kg			2 U
STYRENE	ug/kg			2 U
1,1,1,2-TETRACHLOROETHANE	ug/kg			2 U
1,1,2,2-TETRACHLOROETHANE	ug/kg			2 U
TETRACHLOROETHYLENE(PCE)	ug/kg			2 U
TOLUENE	ug/kg			2 U
1,2,3-TRICHLOROBENZENE	ug/kg			2 U
1,2,4-TRICHLOROBENZENE	ug/kg			2 U
1,1,1-TRICHLOROETHANE	ug/kg			2 U
1,1,2-TRICHLOROETHANE	ug/kg			2 U
TRICHLOROETHYLENE (TCE)	ug/kg			2 U
TRICHLOROFLUOROMETHANE	ug/kg			5 U
1,2,3-TRICHLOROPROPANE	ug/kg			2 U
1,2,4-TRIMETHYLBENZENE	ug/kg			2 U
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	ug/kg			2 U
VINYL CHLORIDE	ug/kg			5 U
O-XYLENE (1,2-DIMETHYLBENZENE)	ug/kg			2 U
M,P-XYLENE (SUM OF ISOMERS)	ug/kg			
M-XYLENE (1,3-DIMETHYLBENZENE)	ug/kg			2 U

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Facility Location:		South Fuel Storage	South Fuel Storage	South Fuel Storage
Boring Number:		Tank	Tank	Tank
Sample Depth:		MBH01	MBH01	MBH01
Sample ID:		.5 to 1 ft.	5 to 5.4 ft.	6.2 to 6.6 ft.
Collection Date:		MBH01BS0101	MBH01BS0102	MBH01BS0103
Collection Date:		11/04/96	11/04/96	11/04/96
Analyte	Units			
1,2-DICHLOROPROPYLENE	ug/kg			2 U
PETROLEUM HYDROCARBONS				
TPH (C10 to C24)	mg/kg	5 U	5 U	
TPH (C25 to C40)	mg/kg	5 U	5 U	
HERBICIDES				
2,4,5-T (TRICHLOROPHENOXYACETIC ACID)	ug/kg			
SILVEX (2,4,5-TP)	ug/kg			
2,4-D (DICHLOROPHENOXYACETIC ACID)	ug/kg			
2,4 DB	ug/kg			
DALAPON	ug/kg			
DICAMBA	ug/kg			
DICHLOROPROP	ug/kg			
DINoseb	ug/kg			
PCBs				
PCB-1016 (AROCHLOR 1016)	ug/kg			
PCB-1221 (AROCHLOR 1221)	ug/kg			
PCB-1232 (AROCHLOR 1232)	ug/kg			
PCB-1242 (AROCHLOR 1242)	ug/kg			
PCB-1248 (AROCHLOR 1248)	ug/kg			
PCB-1254 (AROCHLOR 1254)	ug/kg			
PCB-1260 (AROCHLOR 1260)	ug/kg			
PESTICIDES/PCBs				
ALDRIN	mg/kg			
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	mg/kg			
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	mg/kg			
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	mg/kg			
gamma-BHC (Lindane)	mg/kg			
CHLORDANE	mg/kg			
p,p'-DDD	mg/kg			
p,p'-DDE	mg/kg			
p,p'-DDT	mg/kg			
DIELDRIN	mg/kg			
ALPHA ENDOSULFAN	mg/kg			
BETA ENDOSULFAN	mg/kg			
ENDOSULFAN SULFATE	mg/kg			
ENDRIN	mg/kg			
ENDRIN ALDEHYDE	mg/kg			
HEPTACHLOR EPOXIDE	mg/kg			
HEPTACHLOR	mg/kg			
METHOXYCHLOR	mg/kg			
TOXAPHENE	mg/kg			
PCB-1016 (AROCHLOR 1016)	mg/kg			
PCB-1221 (AROCHLOR 1221)	mg/kg			
PCB-1232 (AROCHLOR 1232)	mg/kg			
PCB-1242 (AROCHLOR 1242)	mg/kg			
PCB-1248 (AROCHLOR 1248)	mg/kg			
PCB-1254 (AROCHLOR 1254)	mg/kg			
PCB-1260 (AROCHLOR 1260)	mg/kg			
METALS				
ANTIMONY	mg/kg			
ARSENIC	mg/kg			
BARIUM	mg/kg			
BERYLLIUM	mg/kg			
CADMIUM	mg/kg			
CHROMIUM, TOTAL	mg/kg			
COBALT	mg/kg			
COPPER	mg/kg			

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

		South Fuel Storage	South Fuel Storage	South Fuel Storage
Facility Location:		Tank	Tank	Tank
Boring Number:		MBH01	MBH01	MBH01
Sample Depth:		.5 to 1 ft.	5 to 5.4 ft.	6.2 to 6.6 ft.
Sample ID:		MBH01BS0101	MBH01BS0102	MBH01BS0103
Collection Date:		11/04/96	11/04/96	11/04/96
Analyte	Units			
LEAD	mg/kg			
MERCURY	mg/kg			
MOLYBDENUM	mg/kg			
NICKEL	mg/kg			
SELENIUM	mg/kg			
SILVER	mg/kg			
THALLIUM	mg/kg			
VANADIUM	mg/kg			

Note:
 NA - Not Analyzed
 U - Undetected
 = - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Facility Location:	South Fuel Storage		South Fuel Storage	
	Tank	Tank	Tank	Tank
Boring Number:	MBH02	MBH02	MBH02	MBH03
Sample Depth:	.5 to 1 ft.	5 to 5.7 ft.	5 to 5.7 ft.	.5 to 1 ft.
Sample ID:	MBH02BS0101	MBH02BS0102	MBH02BS0102	MBH03BS0101
Collection Date:	11/04/96	11/04/96	11/04/96	11/04/96
Analyte	Units			
VOC				
BENZENE	ug/kg			
BROMOBENZENE	ug/kg			
BROMOCHLOROMETHANE	ug/kg			
BROMODICHLOROMETHANE	ug/kg			
BROMOFORM	ug/kg			
BROMOMETHANE	ug/kg			
n-BUTYLBENZENE	ug/kg			
SEC-BUTYLBENZENE	ug/kg			
tert-BUTYLBENZENE	ug/kg			
CARBON TETRACHLORIDE	ug/kg			
CHLOROBENZENE	ug/kg			
CHLOROETHANE	ug/kg			
CHLOROFORM	ug/kg			
CHLOROMETHANE	ug/kg			
2-CHLOROTOLUENE	ug/kg			
4-CHLOROTOLUENE	ug/kg			
DIBROMOCHLOROMETHANE	ug/kg			
1,2-DIBROMO-3-CHLOROPROPANE	ug/kg			
1,2-DIBROMOETHANE	ug/kg			
DIBROMOMETHANE	ug/kg			
1,2-DICHLOROBENZENE	ug/kg			
1,3-DICHLOROBENZENE	ug/kg			
1,4-DICHLOROBENZENE	ug/kg			
DICHLORODIFLUOROMETHANE	ug/kg			
1,1-DICHLOROETHANE	ug/kg			
1,2-DICHLOROETHANE	ug/kg			
1,1-DICHLOROETHENE	ug/kg			
cis-1,2-DICHLOROETHENE	ug/kg			
trans-1,2-DICHLOROETHENE	ug/kg			
1,2-DICHLOROPROPANE	ug/kg			
1,3-DICHLOROPROPANE	ug/kg			
2,2-DICHLOROPROPANE	ug/kg			
1,1-DICHLOROPROPENE	ug/kg			
1,1-DICHLOROPROPENE	ug/kg			
cis-1,3-DICHLOROPROPENE	ug/kg			
trans-1,3-DICHLOROPROPENE	ug/kg			
ETHYLBENZENE	ug/kg			
HEXACHLOROBUTADIENE	ug/kg			
ISOPROPYLBENZENE (CUMENE)	ug/kg			
p-ISOPROPYLTOLUENE	ug/kg			
METHYLENE CHLORIDE	ug/kg			
NAPHTHALENE	ug/kg			
n-PROPYLBENZENE	ug/kg			
STYRENE	ug/kg			
1,1,1,2-TETRACHLOROETHANE	ug/kg			
1,1,2,2-TETRACHLOROETHANE	ug/kg			
TETRACHLOROETHYLENE(PCE)	ug/kg			
TOLUENE	ug/kg			
1,2,3-TRICHLOROBENZENE	ug/kg			
1,2,4-TRICHLOROBENZENE	ug/kg			
1,1,1-TRICHLOROETHANE	ug/kg			
1,1,2-TRICHLOROETHANE	ug/kg			
TRICHLOROETHYLENE (TCE)	ug/kg			
TRICHLOROFLUOROMETHANE	ug/kg			
1,2,3-TRICHLOROPROPANE	ug/kg			
1,2,4-TRIMETHYLBENZENE	ug/kg			
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	ug/kg			
VINYL CHLORIDE	ug/kg			
O-XYLENE (1,2-DIMETHYLBENZENE)	ug/kg			
M,P-XYLENE (SUM OF ISOMERS)	ug/kg			
M-XYLENE (1,3-DIMETHYLBENZENE)	ug/kg			

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

	Facility Location:	South Fuel Storage Tank	South Fuel Storage Tank	South Fuel Storage Tank
	Boring Number:	MBH02	MBH02	MBH03
	Sample Depth:	.5 to 1 ft.	5 to 5.7 ft.	.5 to 1 ft.
	Sample ID:	MBH02BS0101	MBH02BS0102	MBH03BS0101
	Collection Date:	11/04/96	11/04/96	11/04/96
Analyte	Units			
1,2-DICHLOROPROPYLENE	ug/kg			
PETROLEUM HYDROCARBONS				
TPH (C10 to C24)	mg/kg	5 U	5 U	5 U
TPH (C25 to C40)	mg/kg	5 U	5 U	5 U
HERBICIDES				
2,4,5-T (TRICHLOROPHENOXYACETIC ACID)	ug/kg			
SILVEX (2,4,5-TP)	ug/kg			
2,4-D (DICHLOROPHENOXYACETIC ACID)	ug/kg			
2,4 DB	ug/kg			
DALAPON	ug/kg			
DICAMBA	ug/kg			
DICHLOROPROP	ug/kg			
DINoseb	ug/kg			
PCBs				
PCB-1016 (AROCHLOR 1016)	ug/kg			
PCB-1221 (AROCHLOR 1221)	ug/kg			
PCB-1232 (AROCHLOR 1232)	ug/kg			
PCB-1242 (AROCHLOR 1242)	ug/kg			
PCB-1248 (AROCHLOR 1248)	ug/kg			
PCB-1254 (AROCHLOR 1254)	ug/kg			
PCB-1260 (AROCHLOR 1260)	ug/kg			
PESTICIDES/PCBs				
ALDRIN	mg/kg			
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	mg/kg			
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	mg/kg			
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	mg/kg			
gamma-BHC (Lindane)	mg/kg			
CHLORDANE	mg/kg			
p,p'-DDD	mg/kg			
p,p'-DDE	mg/kg			
p,p'-DDT	mg/kg			
DIELDRIN	mg/kg			
ALPHA ENDOSULFAN	mg/kg			
BETA ENDOSULFAN	mg/kg			
ENDOSULFAN SULFATE	mg/kg			
ENDRIN	mg/kg			
ENDRIN ALDEHYDE	mg/kg			
HEPTACHLOR EPOXIDE	mg/kg			
HEPTACHLOR	mg/kg			
METHOXYCHLOR	mg/kg			
TOXAPHENE	mg/kg			
PCB-1016 (AROCHLOR 1016)	mg/kg			
PCB-1221 (AROCHLOR 1221)	mg/kg			
PCB-1232 (AROCHLOR 1232)	mg/kg			
PCB-1242 (AROCHLOR 1242)	mg/kg			
PCB-1248 (AROCHLOR 1248)	mg/kg			
PCB-1254 (AROCHLOR 1254)	mg/kg			
PCB-1260 (AROCHLOR 1260)	mg/kg			
METALS				
ANTIMONY	mg/kg			
ARSENIC	mg/kg			
BARIUM	mg/kg			
BERYLLIUM	mg/kg			
CADMIUM	mg/kg			
CHROMIUM, TOTAL	mg/kg			
COBALT	mg/kg			
COPPER	mg/kg			

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Facility Location:		South Fuel Storage Tank	South Fuel Storage Tank	South Fuel Storage Tank
Boring Number:		MBH02	MBH02	MBH03
Sample Depth:		.5 to 1 ft.	5 to 5.7 ft.	.5 to 1 ft.
Sample ID:		MBH02BS0101	MBH02BS0102	MBH03BS0101
Collection Date:		11/04/96	11/04/96	11/04/96
Analyte	Units			
LEAD	mg/kg			
MERCURY	mg/kg			
MOLYBDENUM	mg/kg			
NICKEL	mg/kg			
SELENIUM	mg/kg			
SILVER	mg/kg			
THALLIUM	mg/kg			
VANADIUM	mg/kg			

Note:
 NA - Not Analyzed
 U - Undetected
 = - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Facility Location:		South Fuel Storage	North Fuel Storage	North Fuel Storage
Boring Number:		Tank	Tank	Tank
Sample Depth:		MBH03	MBH04	MBH04
Sample ID:		5 to 5.8 ft.	5 to 1 ft.	5 to 5.4 ft.
Collection Date:		MBH03BS0102	MBH04BS0101	MBH04BS0102
Units		11/04/96	11/01/96	11/01/96
Analyte	Units			
VOC				
BENZENE	ug/kg			
BROMOBENZENE	ug/kg			
BROMOCHLOROMETHANE	ug/kg			
BROMODICHLOROMETHANE	ug/kg			
BROMOFORM	ug/kg			
BROMOMETHANE	ug/kg			
n-BUTYLBENZENE	ug/kg			
SEC-BUTYLBENZENE	ug/kg			
tert-BUTYLBENZENE	ug/kg			
CARBON TETRACHLORIDE	ug/kg			
CHLOROBENZENE	ug/kg			
CHLOROETHANE	ug/kg			
CHLOROFORM	ug/kg			
CHLOROMETHANE	ug/kg			
2-CHLOROTOLUENE	ug/kg			
4-CHLOROTOLUENE	ug/kg			
DIBROMOCHLOROMETHANE	ug/kg			
1,2-DIBROMO-3-CHLOROPROPANE	ug/kg			
1,2-DIBROMOETHANE	ug/kg			
DIBROMOMETHANE	ug/kg			
1,2-DICHLOROBENZENE	ug/kg			
1,3-DICHLOROBENZENE	ug/kg			
1,4-DICHLOROBENZENE	ug/kg			
DICHLORODIFLUOROMETHANE	ug/kg			
1,1-DICHLOROETHANE	ug/kg			
1,2-DICHLOROETHANE	ug/kg			
1,1-DICHLOROETHENE	ug/kg			
cis-1,2-DICHLOROETHENE	ug/kg			
trans-1,2-DICHLOROETHENE	ug/kg			
1,2-DICHLOROPROPANE	ug/kg			
1,3-DICHLOROPROPANE	ug/kg			
2,2-DICHLOROPROPANE	ug/kg			
1,1-DICHLOROPROPENE	ug/kg			
1,1-DICHLOROPROPENE	ug/kg			
cis-1,3-DICHLOROPROPENE	ug/kg			
trans-1,3-DICHLOROPROPENE	ug/kg			
ETHYLBENZENE	ug/kg			
HEXACHLOROBUTADIENE	ug/kg			
ISOPROPYLBENZENE (CUMENE)	ug/kg			
p-ISOPROPYLTOLUENE	ug/kg			
METHYLENE CHLORIDE	ug/kg			
NAPHTHALENE	ug/kg			
n-PROPYLBENZENE	ug/kg			
STYRENE	ug/kg			
1,1,1,2-TETRACHLOROETHANE	ug/kg			
1,1,2,2-TETRACHLOROETHANE	ug/kg			
TETRACHLOROETHYLENE(PCE)	ug/kg			
TOLUENE	ug/kg			
1,2,3-TRICHLOROBENZENE	ug/kg			
1,2,4-TRICHLOROBENZENE	ug/kg			
1,1,1-TRICHLOROETHANE	ug/kg			
1,1,2-TRICHLOROETHANE	ug/kg			
TRICHLOROETHYLENE (TCE)	ug/kg			
TRICHLOROFLUOROMETHANE	ug/kg			
1,2,3-TRICHLOROPROPANE	ug/kg			
1,2,4-TRIMETHYLBENZENE	ug/kg			
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	ug/kg			
VINYL CHLORIDE	ug/kg			
O-XYLENE (1,2-DIMETHYLBENZENE)	ug/kg			
M,P-XYLENE (SUM OF ISOMERS)	ug/kg			
M-XYLENE (1,3-DIMETHYLBENZENE)	ug/kg			

Note:
NA - Not Analyzed
U - Undetected
- - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

	Facility Location:	South Fuel Storage	North Fuel Storage	North Fuel Storage
	Boring Number:	Tank MBH03	Tank MBH04	Tank MBH04
	Sample Depth:	5 to 5.8 ft.	.5 to 1 ft.	5 to 5.4 ft.
	Sample ID:	MBH03BS0102	MBH04BS0101	MBH04BS0102
	Collection Date:	11/04/96	11/01/96	11/01/96
Analyte	Units			
1,2-DICHLOROPROPYLENE	ug/kg			
PETROLEUM HYDROCARBONS				
TPH (C10 to C24)	mg/kg	5 U	5 U	5 U
TPH (C25 to C40)	mg/kg	5 U	8 =	5 U
HERBICIDES				
2,4,5-T (TRICHLOROPHENOXYACETIC ACID)	ug/kg			
SILVEX (2,4,5-TP)	ug/kg			
2,4-D (DICHLOROPHENOXYACETIC ACID)	ug/kg			
2,4 DB	ug/kg			
DALAPON	ug/kg			
DICAMBA	ug/kg			
DICHLOROPROP	ug/kg			
DINOSEB	ug/kg			
PCBs				
PCB-1016 (AROCHLOR 1016)	ug/kg			
PCB-1221 (AROCHLOR 1221)	ug/kg			
PCB-1232 (AROCHLOR 1232)	ug/kg			
PCB-1242 (AROCHLOR 1242)	ug/kg			
PCB-1248 (AROCHLOR 1248)	ug/kg			
PCB-1254 (AROCHLOR 1254)	ug/kg			
PCB-1260 (AROCHLOR 1260)	ug/kg			
PESTICIDES/PCBs				
ALDRIN	mg/kg			
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	mg/kg			
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	mg/kg			
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	mg/kg			
gamma-BHC (Lindane)	mg/kg			
CHLORDANE	mg/kg			
p,p'-DDD	mg/kg			
p,p'-DDE	mg/kg			
p,p'-DDT	mg/kg			
DIELDRIN	mg/kg			
ALPHA ENDOSULFAN	mg/kg			
BETA ENDOSULFAN	mg/kg			
ENDOSULFAN SULFATE	mg/kg			
ENDRIN	mg/kg			
ENDRIN ALDEHYDE	mg/kg			
HEPTACHLOR EPOXIDE	mg/kg			
HEPTACHLOR	mg/kg			
METHOXYCHLOR	mg/kg			
TOXAPHENE	mg/kg			
PCB-1016 (AROCHLOR 1016)	mg/kg			
PCB-1221 (AROCHLOR 1221)	mg/kg			
PCB-1232 (AROCHLOR 1232)	mg/kg			
PCB-1242 (AROCHLOR 1242)	mg/kg			
PCB-1248 (AROCHLOR 1248)	mg/kg			
PCB-1254 (AROCHLOR 1254)	mg/kg			
PCB-1260 (AROCHLOR 1260)	mg/kg			
METALS				
ANTIMONY	mg/kg			
ARSENIC	mg/kg			
BARIUM	mg/kg			
BERYLLIUM	mg/kg			
CADMIUM	mg/kg			
CHROMIUM, TOTAL	mg/kg			
COBALT	mg/kg			
COPPER	mg/kg			

Note:

NA - Not Analyzed

U - Undetected

= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

	Facility Location:	South Fuel Storage Tank	North Fuel Storage Tank	North Fuel Storage Tank
	Boring Number:	MBH03	MBH04	MBH04
	Sample Depth:	5 to 5.8 ft.	5 to 1 ft.	5 to 5.4 ft.
	Sample ID:	MBH03BS0102	MBH04BS0101	MBH04BS0102
	Collection Date:	11/04/96	11/01/96	11/01/96
Analyte	Units			
LEAD	mg/kg			
MERCURY	mg/kg			
MOLYBDENUM	mg/kg			
NICKEL	mg/kg			
SELENIUM	mg/kg			
SILVER	mg/kg			
THALLIUM	mg/kg			
VANADIUM	mg/kg			

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Facility Location:	North Fuel Storage Tank	North Fuel Storage Tank	North Fuel Storage Tank
Boring Number:	MBH05	MBH05	MBH05
Sample Depth:	.5 to .9 ft.	.9 to 1.2 ft.	5.6 to 5.9 ft.
Sample ID:	MBH05BS0101	MBH05BS0121	MBH05BS0103
Collection Date:	11/04/96	11/04/96	11/04/96
Analyte	Units		
VOC			
BENZENE	ug/kg		
BROMOBENZENE	ug/kg		
BROMOCHLOROMETHANE	ug/kg		
BROMODICHLOROMETHANE	ug/kg		
BROMOFORM	ug/kg		
BROMOMETHANE	ug/kg		
n-BUTYLBENZENE	ug/kg		
SEC-BUTYLBENZENE	ug/kg		
tert-BUTYLBENZENE	ug/kg		
CARBON TETRACHLORIDE	ug/kg		
CHLOROENZENE	ug/kg		
CHLOROETHANE	ug/kg		
CHLOROFORM	ug/kg		
CHLOROMETHANE	ug/kg		
2-CHLOROTOLUENE	ug/kg		
4-CHLOROTOLUENE	ug/kg		
DIBROMOCHLOROMETHANE	ug/kg		
1,2-DIBROMO-3-CHLOROPROPANE	ug/kg		
1,2-DIBROMOETHANE	ug/kg		
DIBROMOMETHANE	ug/kg		
1,2-DICHLOROBENZENE	ug/kg		
1,3-DICHLOROBENZENE	ug/kg		
1,4-DICHLOROBENZENE	ug/kg		
DICHLORODIFLUOROMETHANE	ug/kg		
1,1-DICHLOROETHANE	ug/kg		
1,2-DICHLOROETHANE	ug/kg		
1,1-DICHLOROETHENE	ug/kg		
cis-1,2-DICHLOROETHENE	ug/kg		
trans-1,2-DICHLOROETHENE	ug/kg		
1,2-DICHLOROPROPANE	ug/kg		
1,3-DICHLOROPROPANE	ug/kg		
2,2-DICHLOROPROPANE	ug/kg		
1,1-DICHLOROPROPENE	ug/kg		
1,1-DICHLOROPROPENE	ug/kg		
cis-1,3-DICHLOROPROPENE	ug/kg		
trans-1,3-DICHLOROPROPENE	ug/kg		
ETHYLBENZENE	ug/kg		
HEXACHLOROBUTADIENE	ug/kg		
ISOPROPYLBENZENE (CUMENE)	ug/kg		
p-ISOPROPYLTOLUENE	ug/kg		
METHYLENE CHLORIDE	ug/kg		
NAPHTHALENE	ug/kg		
n-PROPYLBENZENE	ug/kg		
STYRENE	ug/kg		
1,1,1,2-TETRACHLOROETHANE	ug/kg		
1,1,2,2-TETRACHLOROETHANE	ug/kg		
TETRACHLOROETHYLENE(PCE)	ug/kg		
TOLUENE	ug/kg		
1,2,3-TRICHLOROBENZENE	ug/kg		
1,2,4-TRICHLOROBENZENE	ug/kg		
1,1,1-TRICHLOROETHANE	ug/kg		
1,1,2-TRICHLOROETHANE	ug/kg		
TRICHLOROETHYLENE (TCE)	ug/kg		
TRICHLOROFLUOROMETHANE	ug/kg		
1,2,3-TRICHLOROPROPANE	ug/kg		
1,2,4-TRIMETHYLBENZENE	ug/kg		
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	ug/kg		
VINYL CHLORIDE	ug/kg		
O-XYLENE (1,2-DIMETHYLBENZENE)	ug/kg		
M,P-XYLENE (SUM OF ISOMERS)	ug/kg		
M-XYLENE (1,3-DIMETHYLBENZENE)	ug/kg		

Note:

NA - Not Analyzed

U - Undetected

= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

	Facility Location:	North Fuel Storage	North Fuel Storage	North Fuel Storage
	Boring Number:	Tank	Tank	Tank
	Sample Depth:	MBH05	MBH05	MBH05
	Sample ID:	.5 to .9 ft.	.9 to 1.2 ft.	5.6 to 5.9 ft.
	Collection Date:	MBH05BS0101	MBH05BS0121	MBH05BS0103
Analyte	Units	11/04/96	11/04/96	11/04/96
1,2-DICHLOROPROPYLENE	ug/kg			
PETROLEUM HYDROCARBONS				
TPH (C10 to C24)	mg/kg	2100 =	13 =	5 U
TPH (C25 to C40)	mg/kg	630 =	5 U	5 U
HERBICIDES				
2,4,5-T (TRICHLOROPHENOXYACETIC ACID)	ug/kg			
SILVEX (2,4,5-TP)	ug/kg			
2,4-D (DICHLOROPHENOXYACETIC ACID)	ug/kg			
2,4 DB	ug/kg			
DALAPON	ug/kg			
DICAMBA	ug/kg			
DICHLOROPROP	ug/kg			
DINoseb	ug/kg			
PCBs				
PCB-1016 (AROCHLOR 1016)	ug/kg			
PCB-1221 (AROCHLOR 1221)	ug/kg			
PCB-1232 (AROCHLOR 1232)	ug/kg			
PCB-1242 (AROCHLOR 1242)	ug/kg			
PCB-1248 (AROCHLOR 1248)	ug/kg			
PCB-1254 (AROCHLOR 1254)	ug/kg			
PCB-1260 (AROCHLOR 1260)	ug/kg			
PESTICIDES/PCBs				
ALDRIN	mg/kg			
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	mg/kg			
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	mg/kg			
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	mg/kg			
gamma-BHC (Lindane)	mg/kg			
CHLORDANE	mg/kg			
p,p'-DDD	mg/kg			
p,p'-DDE	mg/kg			
p,p'-DDT	mg/kg			
DIELDRIN	mg/kg			
ALPHA ENDOSULFAN	mg/kg			
BETA ENDOSULFAN	mg/kg			
ENDOSULFAN SULFATE	mg/kg			
ENDRIN	mg/kg			
ENDRIN ALDEHYDE	mg/kg			
HEPTACHLOR EPOXIDE	mg/kg			
HEPTACHLOR	mg/kg			
METHOXYCHLOR	mg/kg			
TOXAPHENE	mg/kg			
PCB-1016 (AROCHLOR 1016)	mg/kg			
PCB-1221 (AROCHLOR 1221)	mg/kg			
PCB-1232 (AROCHLOR 1232)	mg/kg			
PCB-1242 (AROCHLOR 1242)	mg/kg			
PCB-1248 (AROCHLOR 1248)	mg/kg			
PCB-1254 (AROCHLOR 1254)	mg/kg			
PCB-1260 (AROCHLOR 1260)	mg/kg			
METALS				
ANTIMONY	mg/kg			
ARSENIC	mg/kg			
BARIUM	mg/kg			
BERYLLIUM	mg/kg			
CADMIUM	mg/kg			
CHROMIUM, TOTAL	mg/kg			
COBALT	mg/kg			
COPPER	mg/kg			

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

		North Fuel Storage	North Fuel Storage	North Fuel Storage
Facility Location:		Tank	Tank	Tank
Boring Number:		MBH05	MBH05	MBH05
Sample Depth:		.5 to .9 ft.	.9 to 1.2 ft.	5.6 to 5.9 ft.
Sample ID:		MBH05BS0101	MBH05BS0121	MBH05BS0103
Collection Date:		11/04/96	11/04/96	11/04/96
Analyte	Units			
LEAD	mg/kg			
MERCURY	mg/kg			
MOLYBDENUM	mg/kg			
NICKEL	mg/kg			
SELENIUM	mg/kg			
SILVER	mg/kg			
THALLIUM	mg/kg			
VANADIUM	mg/kg			

Note:
 NA - Not Analyzed
 U - Undetected
 = - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Facility Location:	North Fuel Storage		Peaker Distillate Tank
	Tank	Tank	
Boring Number:	MBH06	MBH06	MBH07
Sample Depth:	.5 to 1 ft.	5 to 5.4 ft.	5 to 5.4 ft.
Sample ID:	MBH06BS0101	MBH06BS0102	MBH07BS0101
Collection Date:	11/01/96	11/01/96	10/29/96
Analyte	Units		
VOC			
BENZENE	ug/kg		
BROMOBENZENE	ug/kg		
BROMOCHLOROMETHANE	ug/kg		
BROMODICHLOROMETHANE	ug/kg		
BROMOFORM	ug/kg		
BROMOMETHANE	ug/kg		
n-BUTYLBENZENE	ug/kg		
SEC-BUTYLBENZENE	ug/kg		
tert-BUTYLBENZENE	ug/kg		
CARBON TETRACHLORIDE	ug/kg		
CHLOROBENZENE	ug/kg		
CHLOROETHANE	ug/kg		
CHLOROFORM	ug/kg		
CHLOROMETHANE	ug/kg		
2-CHLOROTOLUENE	ug/kg		
4-CHLOROTOLUENE	ug/kg		
DIBROMOCHLOROMETHANE	ug/kg		
1,2-DIBROMO-3-CHLOROPROPANE	ug/kg		
1,2-DIBROMOETHANE	ug/kg		
DIBROMOMETHANE	ug/kg		
1,2-DICHLOROBENZENE	ug/kg		
1,3-DICHLOROBENZENE	ug/kg		
1,4-DICHLOROBENZENE	ug/kg		
DICHLORODIFLUOROMETHANE	ug/kg		
1,1-DICHLOROETHANE	ug/kg		
1,2-DICHLOROETHANE	ug/kg		
1,1-DICHLOROETHENE	ug/kg		
cis-1,2-DICHLOROETHENE	ug/kg		
trans-1,2-DICHLOROETHENE	ug/kg		
1,2-DICHLOROPROPANE	ug/kg		
1,3-DICHLOROPROPANE	ug/kg		
2,2-DICHLOROPROPANE	ug/kg		
1,1-DICHLOROPROPENE	ug/kg		
1,1-DICHLOROPROPENE	ug/kg		
cis-1,3-DICHLOROPROPENE	ug/kg		
trans-1,3-DICHLOROPROPENE	ug/kg		
ETHYLBENZENE	ug/kg		
HEXACHLOROBTADIENE	ug/kg		
ISOPROPYLBENZENE (CUMENE)	ug/kg		
p-ISOPROPYLTOLUENE	ug/kg		
METHYLENE CHLORIDE	ug/kg		
NAPHTHALENE	ug/kg		
n-PROPYLBENZENE	ug/kg		
STYRENE	ug/kg		
1,1,1,2-TETRACHLOROETHANE	ug/kg		
1,1,2,2-TETRACHLOROETHANE	ug/kg		
TETRACHLOROETHYLENE(PCE)	ug/kg		
TOLUENE	ug/kg		
1,2,3-TRICHLOROBENZENE	ug/kg		
1,2,4-TRICHLOROBENZENE	ug/kg		
1,1,1-TRICHLOROETHANE	ug/kg		
1,1,2-TRICHLOROETHANE	ug/kg		
TRICHLOROETHYLENE (TCE)	ug/kg		
TRICHLOROFLUOROMETHANE	ug/kg		
1,2,3-TRICHLOROPROPANE	ug/kg		
1,2,4-TRIMETHYLBENZENE	ug/kg		
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	ug/kg		
VINYL CHLORIDE	ug/kg		
O-XYLENE (1,2-DIMETHYLBENZENE)	ug/kg		
M,P-XYLENE (SUM OF ISOMERS)	ug/kg		
M-XYLENE (1,3-DIMETHYLBENZENE)	ug/kg		

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

	Facility Location:	North Fuel Storage		Peaker Distillate Tank
		Tank	Tank	
	Boring Number:	MBH06	MBH06	MBH07
	Sample Depth:	.5 to 1 ft.	5 to 5.4 ft.	5 to 5.4 ft.
	Sample ID:	MBH06BS0101	MBH06BS0102	MBH07BS0101
	Collection Date:	11/01/96	11/01/96	10/29/96
Analyte	Units			
1,2-DICHLOROPROPYLENE	ug/kg			
PETROLEUM HYDROCARBONS				
TPH (C10 to C24)	mg/kg	5 U	5 U	5 U
TPH (C25 to C40)	mg/kg	5 U	5 U	5 U
HERBICIDES				
2,4,5-T (TRICHLOROPHENOXYACETIC ACID)	ug/kg			
SILVEX (2,4,5-TP)	ug/kg			
2,4-D (DICHLOROPHENOXYACETIC ACID)	ug/kg			
2,4 DB	ug/kg			
DALAPON	ug/kg			
DICAMBA	ug/kg			
DICHLOROPROP	ug/kg			
DINoseb	ug/kg			
PCBs				
PCB-1016 (AROCHLOR 1016)	ug/kg			
PCB-1221 (AROCHLOR 1221)	ug/kg			
PCB-1232 (AROCHLOR 1232)	ug/kg			
PCB-1242 (AROCHLOR 1242)	ug/kg			
PCB-1248 (AROCHLOR 1248)	ug/kg			
PCB-1254 (AROCHLOR 1254)	ug/kg			
PCB-1260 (AROCHLOR 1260)	ug/kg			
PESTICIDES/PCBs				
ALDRIN	mg/kg			
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	mg/kg			
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	mg/kg			
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	mg/kg			
gamma-BHC (Lindane)	mg/kg			
CHLORDANE	mg/kg			
p,p'-DDD	mg/kg			
p,p'-DDE	mg/kg			
p,p'-DDT	mg/kg			
DIELDRIN	mg/kg			
ALPHA ENDOSULFAN	mg/kg			
BETA ENDOSULFAN	mg/kg			
ENDOSULFAN SULFATE	mg/kg			
ENDRIN	mg/kg			
ENDRIN ALDEHYDE	mg/kg			
HEPTACHLOR EPOXIDE	mg/kg			
HEPTACHLOR	mg/kg			
METHOXYCHLOR	mg/kg			
TOXAPHENE	mg/kg			
PCB-1016 (AROCHLOR 1016)	mg/kg			
PCB-1221 (AROCHLOR 1221)	mg/kg			
PCB-1232 (AROCHLOR 1232)	mg/kg			
PCB-1242 (AROCHLOR 1242)	mg/kg			
PCB-1248 (AROCHLOR 1248)	mg/kg			
PCB-1254 (AROCHLOR 1254)	mg/kg			
PCB-1260 (AROCHLOR 1260)	mg/kg			
METALS				
ANTIMONY	mg/kg			
ARSENIC	mg/kg			
BARIUM	mg/kg			
BERYLLIUM	mg/kg			
CADMIUM	mg/kg			
CHROMIUM, TOTAL	mg/kg			
COBALT	mg/kg			
COPPER	mg/kg			

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Facility Location:		North Fuel Storage Tank	North Fuel Storage Tank	Peaker Distillate Tank
Boring Number:		MBH06	MBH06	MBH07
Sample Depth:		.5 to 1 ft.	5 to 5.4 ft.	5 to 5.4 ft.
Sample ID:		MBH06BS0101	MBH06BS0102	MBH07BS0101
Collection Date:		11/01/96	11/01/96	10/29/96
Analyte	Units			
LEAD	mg/kg			
MERCURY	mg/kg			
MOLYBDENUM	mg/kg			
NICKEL	mg/kg			
SELENIUM	mg/kg			
SILVER	mg/kg			
THALLIUM	mg/kg			
VANADIUM	mg/kg			

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

	Facility Location:	Peaker Distillate Tank	Peaker Distillate Tank	Peaker Distillate Tank
	Boring Number:	MBH07	MBH07	MBH08
	Sample Depth:	5.4 to 5.8 ft.	10 to 10.4 ft.	5 to 5.4 ft.
	Sample ID:	MBH07BS0121	MBH07BS0102	MBH08BS0101
	Collection Date:	10/29/96	10/29/96	11/01/96
Analyte	Units			
VOC				
BENZENE	ug/kg			
BROMOBENZENE	ug/kg			
BROMOCHLOROMETHANE	ug/kg			
BROMODICHLOROMETHANE	ug/kg			
BROMOFORM	ug/kg			
BROMOMETHANE	ug/kg			
n-BUTYLBENZENE	ug/kg			
SEC-BUTYLBENZENE	ug/kg			
tert-BUTYLBENZENE	ug/kg			
CARBON TETRACHLORIDE	ug/kg			
CHLOROBENZENE	ug/kg			
CHLOROETHANE	ug/kg			
CHLOROFORM	ug/kg			
CHLOROMETHANE	ug/kg			
2-CHLOROTOLUENE	ug/kg			
4-CHLOROTOLUENE	ug/kg			
DIBROMOCHLOROMETHANE	ug/kg			
1,2-DIBROMO-3-CHLOROPROPANE	ug/kg			
1,2-DIBROMOETHANE	ug/kg			
DIBROMOMETHANE	ug/kg			
1,2-DICHLOROBENZENE	ug/kg			
1,3-DICHLOROBENZENE	ug/kg			
1,4-DICHLOROBENZENE	ug/kg			
DICHLORODIFLUOROMETHANE	ug/kg			
1,1-DICHLOROETHANE	ug/kg			
1,2-DICHLOROETHANE	ug/kg			
1,1-DICHLOROETHENE	ug/kg			
cis-1,2-DICHLOROETHENE	ug/kg			
trans-1,2-DICHLOROETHENE	ug/kg			
1,2-DICHLOROPROPANE	ug/kg			
1,3-DICHLOROPROPANE	ug/kg			
2,2-DICHLOROPROPANE	ug/kg			
1,1-DICHLOROPROPENE	ug/kg			
1,1-DICHLOROPROPENE	ug/kg			
cis-1,3-DICHLOROPROPENE	ug/kg			
trans-1,3-DICHLOROPROPENE	ug/kg			
ETHYLBENZENE	ug/kg			
HEXACHLOROBUTADIENE	ug/kg			
ISOPROPYLBENZENE (CUMENE)	ug/kg			
p-ISOPROPYLTOLUENE	ug/kg			
METHYLENE CHLORIDE	ug/kg			
NAPHTHALENE	ug/kg			
n-PROPYLBENZENE	ug/kg			
STYRENE	ug/kg			
1,1,1,2-TETRACHLOROETHANE	ug/kg			
1,1,2,2-TETRACHLOROETHANE	ug/kg			
TETRACHLOROETHYLENE(PCE)	ug/kg			
TOLUENE	ug/kg			
1,2,3-TRICHLOROBENZENE	ug/kg			
1,2,4-TRICHLOROBENZENE	ug/kg			
1,1,1-TRICHLOROETHANE	ug/kg			
1,1,2-TRICHLOROETHANE	ug/kg			
TRICHLOROETHYLENE (TCE)	ug/kg			
TRICHLOROFLUOROMETHANE	ug/kg			
1,2,3-TRICHLOROPROPANE	ug/kg			
1,2,4-TRIMETHYLBENZENE	ug/kg			
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	ug/kg			
VINYL CHLORIDE	ug/kg			
O-XYLENE (1,2-DIMETHYLBENZENE)	ug/kg			
M,P-XYLENE (SUM OF ISOMERS)	ug/kg			
M-XYLENE (1,3-DIMETHYLBENZENE)	ug/kg			

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

	Facility Location:	Peaker Distillate Tank	Peaker Distillate Tank	Peaker Distillate Tank
	Boring Number:	MBH07	MBH07	MBH08
	Sample Depth:	5.4 to 5.8 ft.	10 to 10.4 ft.	5 to 5.4 ft.
	Sample ID:	MBH07BS0121	MBH07BS0102	MBH08BS0101
	Collection Date:	10/29/96	10/29/96	11/01/96
Analyte	Units			
1,2-DICHLOROPROPYLENE	ug/kg			
PETROLEUM HYDROCARBONS				
TPH (C10 to C24)	mg/kg	5 U	5 U	5 U
TPH (C25 to C40)	mg/kg	5 U	5 U	5 U
HERBICIDES				
2,4,5-T (TRICHLOROPHENOXYACETIC ACID)	ug/kg			
SILVEX (2,4,5-TP)	ug/kg			
2,4-D (DICHLOROPHENOXYACETIC ACID)	ug/kg			
2,4 DB	ug/kg			
DALAPON	ug/kg			
DICAMBA	ug/kg			
DICHLOROPROP	ug/kg			
DINOSEB	ug/kg			
PCBs				
PCB-1016 (AROCHLOR 1016)	ug/kg			
PCB-1221 (AROCHLOR 1221)	ug/kg			
PCB-1232 (AROCHLOR 1232)	ug/kg			
PCB-1242 (AROCHLOR 1242)	ug/kg			
PCB-1248 (AROCHLOR 1248)	ug/kg			
PCB-1254 (AROCHLOR 1254)	ug/kg			
PCB-1260 (AROCHLOR 1260)	ug/kg			
PESTICIDES/PCBs				
ALDRIN	mg/kg			
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	mg/kg			
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	mg/kg			
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	mg/kg			
gamma-BHC (Lindane)	mg/kg			
CHLORDANE	mg/kg			
p,p'-DDD	mg/kg			
p,p'-DDE	mg/kg			
p,p'-DDT	mg/kg			
DIELDRIN	mg/kg			
ALPHA ENDOSULFAN	mg/kg			
BETA ENDOSULFAN	mg/kg			
ENDOSULFAN SULFATE	mg/kg			
ENDRIN	mg/kg			
ENDRIN ALDEHYDE	mg/kg			
HEPTACHLOR EPOXIDE	mg/kg			
HEPTACHLOR	mg/kg			
METHOXYCHLOR	mg/kg			
TOXAPHENE	mg/kg			
PCB-1016 (AROCHLOR 1016)	mg/kg			
PCB-1221 (AROCHLOR 1221)	mg/kg			
PCB-1232 (AROCHLOR 1232)	mg/kg			
PCB-1242 (AROCHLOR 1242)	mg/kg			
PCB-1248 (AROCHLOR 1248)	mg/kg			
PCB-1254 (AROCHLOR 1254)	mg/kg			
PCB-1260 (AROCHLOR 1260)	mg/kg			
METALS				
ANTIMONY	mg/kg			
ARSENIC	mg/kg			
BARIUM	mg/kg			
BERYLLIUM	mg/kg			
CADMIUM	mg/kg			
CHROMIUM, TOTAL	mg/kg			
COBALT	mg/kg			
COPPER	mg/kg			

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Facility Location:		Peaker Distillate Tank	Peaker Distillate Tank	Peaker Distillate Tank
Boring Number:		MBH07	MBH07	MBH08
Sample Depth:		5.4 to 5.8 ft.	10 to 10.4 ft.	5 to 5.4 ft.
Sample ID:		MBH07BS0121	MBH07BS0102	MBH08BS0101
Collection Date:		10/29/96	10/29/96	11/01/96
Analyte	Units			
LEAD	mg/kg			
MERCURY	mg/kg			
MOLYBDENUM	mg/kg			
NICKEL	mg/kg			
SELENIUM	mg/kg			
SILVER	mg/kg			
THALLIUM	mg/kg			
VANADIUM	mg/kg			

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Facility Location:		Displacement Oil Tank	Displacement Oil Tank	Displacement Oil Tank
Boring Number:		MBH09	MBH09	MBH10
Sample Depth:		.5 to 1 ft.	5.5 to 6 ft.	.5 to .9 ft.
Sample ID:		MBH09BS0101	MBH09BS0102	MBH10BS0101
Collection Date:		11/04/96	11/04/96	11/04/96
Analyte	Units			
VOC				
BENZENE	ug/kg			
BROMOBENZENE	ug/kg			
BROMOCHLOROMETHANE	ug/kg			
BROMODICHLOROMETHANE	ug/kg			
BROMOFORM	ug/kg			
BROMOMETHANE	ug/kg			
n-BUTYLBENZENE	ug/kg			
SEC-BUTYLBENZENE	ug/kg			
tert-BUTYLBENZENE	ug/kg			
CARBON TETRACHLORIDE	ug/kg			
CHLOROBENZENE	ug/kg			
CHLOROETHANE	ug/kg			
CHLOROFORM	ug/kg			
CHLOROMETHANE	ug/kg			
2-CHLOROTOLUENE	ug/kg			
4-CHLOROTOLUENE	ug/kg			
DIBROMOCHLOROMETHANE	ug/kg			
1,2-DIBROMO-3-CHLOROPROPANE	ug/kg			
1,2-DIBROMOETHANE	ug/kg			
DIBROMOMETHANE	ug/kg			
1,2-DICHLOROBENZENE	ug/kg			
1,3-DICHLOROBENZENE	ug/kg			
1,4-DICHLOROBENZENE	ug/kg			
DICHLORODIFLUOROMETHANE	ug/kg			
1,1-DICHLOROETHANE	ug/kg			
1,2-DICHLOROETHANE	ug/kg			
1,1-DICHLOROETHENE	ug/kg			
cis-1,2-DICHLOROETHENE	ug/kg			
trans-1,2-DICHLOROETHENE	ug/kg			
1,2-DICHLOROPROPANE	ug/kg			
1,3-DICHLOROPROPANE	ug/kg			
2,2-DICHLOROPROPANE	ug/kg			
1,1-DICHLOROPROPENE	ug/kg			
1,1-DICHLOROPROPENE	ug/kg			
cis-1,3-DICHLOROPROPENE	ug/kg			
trans-1,3-DICHLOROPROPENE	ug/kg			
ETHYLBENZENE	ug/kg			
HEXACHLOROBUTADIENE	ug/kg			
ISOPROPYLBENZENE (CUMENE)	ug/kg			
p-ISOPROPYLTOLUENE	ug/kg			
METHYLENE CHLORIDE	ug/kg			
NAPHTHALENE	ug/kg			
n-PROPYLBENZENE	ug/kg			
STYRENE	ug/kg			
1,1,1,2-TETRACHLOROETHANE	ug/kg			
1,1,2,2-TETRACHLOROETHANE	ug/kg			
TETRACHLOROETHYLENE(PCE)	ug/kg			
TOLUENE	ug/kg			
1,2,3-TRICHLOROBENZENE	ug/kg			
1,2,4-TRICHLOROBENZENE	ug/kg			
1,1,1-TRICHLOROETHANE	ug/kg			
1,1,2-TRICHLOROETHANE	ug/kg			
TRICHLOROETHYLENE (TCE)	ug/kg			
TRICHLOROFLUOROMETHANE	ug/kg			
1,2,3-TRICHLOROPROPANE	ug/kg			
1,2,4-TRIMETHYLBENZENE	ug/kg			
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	ug/kg			
VINYL CHLORIDE	ug/kg			
O-XYLENE (1,2-DIMETHYLBENZENE)	ug/kg			
M,P-XYLENE (SUM OF ISOMERS)	ug/kg			
M-XYLENE (1,3-DIMETHYLBENZENE)	ug/kg			

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

	Facility Location:	Displacement Oil Tank	Displacement Oil Tank	Displacement Oil Tank
	Boring Number:	MBH09	MBH09	MBH10
	Sample Depth:	.5 to 1 ft.	5.5 to 6 ft.	.5 to .9 ft.
	Sample ID:	MBH09BS0101	MBH09BS0102	MBH10BS0101
	Collection Date:	11/04/96	11/04/96	11/04/96
Analyte	Units			
1,2-DICHLOROPROPYLENE	ug/kg			
PETROLEUM HYDROCARBONS				
TPH (C10 to C24)	mg/kg	25 =	6 =	75 =
TPH (C25 to C40)	mg/kg	69 =	6 =	105 =
HERBICIDES				
2,4,5-T (TRICHLOROPHENOXYACETIC ACID)	ug/kg			
SILVEX (2,4,5-TP)	ug/kg			
2,4-D (DICHLOROPHENOXYACETIC ACID)	ug/kg			
2,4 DB	ug/kg			
DALAPON	ug/kg			
DICAMBA	ug/kg			
DICHLOROPROP	ug/kg			
DINoseb	ug/kg			
PCBs				
PCB-1016 (AROCHLOR 1016)	ug/kg			
PCB-1221 (AROCHLOR 1221)	ug/kg			
PCB-1232 (AROCHLOR 1232)	ug/kg			
PCB-1242 (AROCHLOR 1242)	ug/kg			
PCB-1248 (AROCHLOR 1248)	ug/kg			
PCB-1254 (AROCHLOR 1254)	ug/kg			
PCB-1260 (AROCHLOR 1260)	ug/kg			
PESTICIDES/PCBs				
ALDRIN	mg/kg			
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	mg/kg			
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	mg/kg			
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	mg/kg			
gamma-BHC (Lindane)	mg/kg			
CHLORDANE	mg/kg			
p,p'-DDD	mg/kg			
p,p'-DDE	mg/kg			
p,p'-DDT	mg/kg			
DIELDRIN	mg/kg			
ALPHA ENDOSULFAN	mg/kg			
BETA ENDOSULFAN	mg/kg			
ENDOSULFAN SULFATE	mg/kg			
ENDRIN	mg/kg			
ENDRIN ALDEHYDE	mg/kg			
HEPTACHLOR EPOXIDE	mg/kg			
HEPTACHLOR	mg/kg			
METHOXYCHLOR	mg/kg			
TOXAPHENE	mg/kg			
PCB-1016 (AROCHLOR 1016)	mg/kg			
PCB-1221 (AROCHLOR 1221)	mg/kg			
PCB-1232 (AROCHLOR 1232)	mg/kg			
PCB-1242 (AROCHLOR 1242)	mg/kg			
PCB-1248 (AROCHLOR 1248)	mg/kg			
PCB-1254 (AROCHLOR 1254)	mg/kg			
PCB-1260 (AROCHLOR 1260)	mg/kg			
METALS				
ANTIMONY	mg/kg			
ARSENIC	mg/kg			
BARIUM	mg/kg			
BERYLLIUM	mg/kg			
CADMIUM	mg/kg			
CHROMIUM, TOTAL	mg/kg			
COBALT	mg/kg			
COPPER	mg/kg			

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

	Facility Location:	Displacement Oil Tank	Displacement Oil Tank	Displacement Oil Tank
	Boring Number:	MBH09	MBH09	MBH10
	Sample Depth:	.5 to 1 ft.	5.5 to 6 ft.	.5 to .9 ft.
	Sample ID:	MBH09BS0101	MBH09BS0102	MBH10BS0101
	Collection Date:	11/04/96	11/04/96	11/04/96
Analyte	Units			
LEAD	mg/kg			
MERCURY	mg/kg			
MOLYBDENUM	mg/kg			
NICKEL	mg/kg			
SELENIUM	mg/kg			
SILVER	mg/kg			
THALLIUM	mg/kg			
VANADIUM	mg/kg			

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Facility Location:	Displacement Oil Tank	Lube Oil Tank	Lube Oil Tank
Boring Number:	MBH10	MBH11	MBH11
Sample Depth:	5 to 5.5 ft.	.5 to 1 ft.	1 to 1.5 ft.
Sample ID:	MBH10BS0102	MBH11BS0101	MBH11BS0121
Collection Date:	11/04/96	10/31/96	10/31/96
Analyte	Units		
VOC			
BENZENE	ug/kg		
BROMOBENZENE	ug/kg		
BROMOCHLOROMETHANE	ug/kg		
BROMODICHLOROMETHANE	ug/kg		
BROMOFORM	ug/kg		
BROMOMETHANE	ug/kg		
n-BUTYLBENZENE	ug/kg		
SEC-BUTYLBENZENE	ug/kg		
tert-BUTYLBENZENE	ug/kg		
CARBON TETRACHLORIDE	ug/kg		
CHLORO BENZENE	ug/kg		
CHLOROETHANE	ug/kg		
CHLOROFORM	ug/kg		
CHLOROMETHANE	ug/kg		
2-CHLOROTOLUENE	ug/kg		
4-CHLOROTOLUENE	ug/kg		
DIBROMOCHLOROMETHANE	ug/kg		
1,2-DIBROMO-3-CHLOROPROPANE	ug/kg		
1,2-DIBROMOETHANE	ug/kg		
DIBROMOMETHANE	ug/kg		
1,2-DICHLOROBENZENE	ug/kg		
1,3-DICHLOROBENZENE	ug/kg		
1,4-DICHLOROBENZENE	ug/kg		
DICHLORODIFLUOROMETHANE	ug/kg		
1,1-DICHLOROETHANE	ug/kg		
1,2-DICHLOROETHANE	ug/kg		
1,1-DICHLOROETHENE	ug/kg		
cis-1,2-DICHLOROETHENE	ug/kg		
trans-1,2-DICHLOROETHENE	ug/kg		
1,2-DICHLOROPROPANE	ug/kg		
1,3-DICHLOROPROPANE	ug/kg		
2,2-DICHLOROPROPANE	ug/kg		
1,1-DICHLOROPROPENE	ug/kg		
1,1-DICHLOROPROPENE	ug/kg		
cis-1,3-DICHLOROPROPENE	ug/kg		
trans-1,3-DICHLOROPROPENE	ug/kg		
ETHYLBENZENE	ug/kg		
HEXACHLOROBUTADIENE	ug/kg		
ISOPROPYLBENZENE (CUMENE)	ug/kg		
p-ISOPROPYLTOLUENE	ug/kg		
METHYLENE CHLORIDE	ug/kg		
NAPHTHALENE	ug/kg		
n-PROPYLBENZENE	ug/kg		
STYRENE	ug/kg		
1,1,1,2-TETRACHLOROETHANE	ug/kg		
1,1,2,2-TETRACHLOROETHANE	ug/kg		
TETRACHLOROETHYLENE (PCE)	ug/kg		
TOLUENE	ug/kg		
1,2,3-TRICHLOROBENZENE	ug/kg		
1,2,4-TRICHLOROBENZENE	ug/kg		
1,1,1-TRICHLOROETHANE	ug/kg		
1,1,2-TRICHLOROETHANE	ug/kg		
TRICHLOROETHYLENE (TCE)	ug/kg		
TRICHLOROFLUOROMETHANE	ug/kg		
1,2,3-TRICHLOROPROPANE	ug/kg		
1,2,4-TRIMETHYLBENZENE	ug/kg		
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	ug/kg		
VINYL CHLORIDE	ug/kg		
O-XYLENE (1,2-DIMETHYLBENZENE)	ug/kg		
M,P-XYLENE (SUM OF ISOMERS)	ug/kg		
M-XYLENE (1,3-DIMETHYLBENZENE)	ug/kg		

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

	Facility Location:	Displacement Oil Tank	Lube Oil Tank	Lube Oil Tank
	Boring Number:	MBH10	MBH11	MBH11
	Sample Depth:	5 to 5.5 ft.	.5 to 1 ft.	1 to 1.5 ft.
	Sample ID:	MBH10BS0102	MBH11BS0101	MBH11BS0121
	Collection Date:	11/04/96	10/31/96	10/31/96
Analyte	Units			
1,2-DICHLOROPROPYLENE	ug/kg			
PETROLEUM HYDROCARBONS				
TPH (C10 to C24)	mg/kg	5 U	5 U	5 U
TPH (C25 to C40)	mg/kg	6 =	5 U	5 U
HERBICIDES				
2,4,5-T (TRICHLOROPHENOXYACETIC ACID)	ug/kg			
SILVEX (2,4,5-TP)	ug/kg			
2,4-D (DICHLOROPHENOXYACETIC ACID)	ug/kg			
2,4 DB	ug/kg			
DALAPON	ug/kg			
DICAMBA	ug/kg			
DICHLOROPROP	ug/kg			
DINoseb	ug/kg			
PCBs				
PCB-1016 (AROCHLOR 1016)	ug/kg			
PCB-1221 (AROCHLOR 1221)	ug/kg			
PCB-1232 (AROCHLOR 1232)	ug/kg			
PCB-1242 (AROCHLOR 1242)	ug/kg			
PCB-1248 (AROCHLOR 1248)	ug/kg			
PCB-1254 (AROCHLOR 1254)	ug/kg			
PCB-1260 (AROCHLOR 1260)	ug/kg			
PESTICIDES/PCBs				
ALDRIN	mg/kg			
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	mg/kg			
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	mg/kg			
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	mg/kg			
gamma-BHC (Lindane)	mg/kg			
CHLORDANE	mg/kg			
p,p'-DDD	mg/kg			
p,p'-DDE	mg/kg			
p,p'-DDT	mg/kg			
DIELDRIN	mg/kg			
ALPHA ENDOSULFAN	mg/kg			
BETA ENDOSULFAN	mg/kg			
ENDOSULFAN SULFATE	mg/kg			
ENDRIN	mg/kg			
ENDRIN ALDEHYDE	mg/kg			
HEPTACHLOR EPOXIDE	mg/kg			
HEPTACHLOR	mg/kg			
METHOXYCHLOR	mg/kg			
TOXAPHENE	mg/kg			
PCB-1016 (AROCHLOR 1016)	mg/kg			
PCB-1221 (AROCHLOR 1221)	mg/kg			
PCB-1232 (AROCHLOR 1232)	mg/kg			
PCB-1242 (AROCHLOR 1242)	mg/kg			
PCB-1248 (AROCHLOR 1248)	mg/kg			
PCB-1254 (AROCHLOR 1254)	mg/kg			
PCB-1260 (AROCHLOR 1260)	mg/kg			
METALS				
ANTIMONY	mg/kg		9 U	9 U
ARSENIC	mg/kg		2.86 =	1.36 =
BARIUM	mg/kg		118 =	48.1 =
BERYLLIUM	mg/kg		.5 U	.5 U
CADMIUM	mg/kg		1 U	1 U
CHROMIUM, TOTAL	mg/kg		8.6 =	3.6 =
COBALT	mg/kg		3.5 =	3 U
COPPER	mg/kg		7 =	2.8 =

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Facility Location:		Displacement Oil Tank	Lube Oil Tank	Lube Oil Tank
Boring Number:		MBH10	MBH11	MBH11
Sample Depth:		5 to 5.5 ft.	.5 to 1 ft.	1 to 1.5 ft.
Sample ID:		MBH10BS0102	MBH11BS0101	MBH11BS0121
Collection Date:		11/04/96	10/31/96	10/31/96
Analyte	Units			
LEAD	mg/kg		10 U	10 U
MERCURY	mg/kg		.08 U	.08 U
MOLYBDENUM	mg/kg		3 U	3 U
NICKEL	mg/kg		8.9 =	4 U
SELENIUM	mg/kg		.4 U	.4 U
SILVER	mg/kg		2 U	2 U
THALLIUM	mg/kg		.44 U	.44 U
VANADIUM	mg/kg		17.7 =	9.2 =

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Facility Location:	Lube Oil Tank	Lube Oil Tank	Lube Oil Tank
Boring Number:	MBH11	MBH12	MBH12
Sample Depth:	4.5 to 5 ft.	.5 to 1 ft.	5 to 5.4 ft.
Sample ID:	MBH11BS0102	MBH12BS0101	MBH12BS0102
Collection Date:	10/31/96	10/31/96	10/31/96
Analyte	Units		
VOC			
BENZENE	ug/kg		
BROMOBENZENE	ug/kg		
BROMOCHLOROMETHANE	ug/kg		
BROMODICHLOROMETHANE	ug/kg		
BROMOFORM	ug/kg		
BROMOMETHANE	ug/kg		
n-BUTYLBENZENE	ug/kg		
SEC-BUTYLBENZENE	ug/kg		
tert-BUTYLBENZENE	ug/kg		
CARBON TETRACHLORIDE	ug/kg		
CHLOROBENZENE	ug/kg		
CHLOROETHANE	ug/kg		
CHLOROFORM	ug/kg		
CHLOROMETHANE	ug/kg		
2-CHLOROTOLUENE	ug/kg		
4-CHLOROTOLUENE	ug/kg		
DIBROMOCHLOROMETHANE	ug/kg		
1,2-DIBROMO-3-CHLOROPROPANE	ug/kg		
1,2-DIBROMOETHANE	ug/kg		
DIBROMOMETHANE	ug/kg		
1,2-DICHLOROBENZENE	ug/kg		
1,3-DICHLOROBENZENE	ug/kg		
1,4-DICHLOROBENZENE	ug/kg		
DICHLORODIFLUOROMETHANE	ug/kg		
1,1-DICHLOROETHANE	ug/kg		
1,2-DICHLOROETHANE	ug/kg		
1,1-DICHLOROETHENE	ug/kg		
cis-1,2-DICHLOROETHENE	ug/kg		
trans-1,2-DICHLOROETHENE	ug/kg		
1,2-DICHLOROPROPANE	ug/kg		
1,3-DICHLOROPROPANE	ug/kg		
2,2-DICHLOROPROPANE	ug/kg		
1,1-DICHLOROPROPENE	ug/kg		
1,1-DICHLOROPROPENE	ug/kg		
cis-1,3-DICHLOROPROPENE	ug/kg		
trans-1,3-DICHLOROPROPENE	ug/kg		
ETHYLBENZENE	ug/kg		
HEXACHLOROBUTADIENE	ug/kg		
ISOPROPYLBENZENE (CUMENE)	ug/kg		
p-ISOPROPYLTOLUENE	ug/kg		
METHYLENE CHLORIDE	ug/kg		
NAPHTHALENE	ug/kg		
n-PROPYLBENZENE	ug/kg		
STYRENE	ug/kg		
1,1,1,2-TETRACHLOROETHANE	ug/kg		
1,1,2,2-TETRACHLOROETHANE	ug/kg		
TETRACHLOROETHYLENE(PCE)	ug/kg		
TOLUENE	ug/kg		
1,2,3-TRICHLOROBENZENE	ug/kg		
1,2,4-TRICHLOROBENZENE	ug/kg		
1,1,1-TRICHLOROETHANE	ug/kg		
1,1,2-TRICHLOROETHANE	ug/kg		
TRICHLOROETHYLENE (TCE)	ug/kg		
TRICHLOROFLUOROMETHANE	ug/kg		
1,2,3-TRICHLOROPROPANE	ug/kg		
1,2,4-TRIMETHYLBENZENE	ug/kg		
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	ug/kg		
VINYL CHLORIDE	ug/kg		
O-XYLENE (1,2-DIMETHYLBENZENE)	ug/kg		
M,P-XYLENE (SUM OF ISOMERS)	ug/kg		
M-XYLENE (1,3-DIMETHYLBENZENE)	ug/kg		

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Facility Location:	Lube Oil Tank	Lube Oil Tank	Lube Oil Tank
Boring Number:	MBH11	MBH12	MBH12
Sample Depth:	4.5 to 5 ft.	.5 to 1 ft.	5 to 5.4 ft.
Sample ID:	MBH11BS0102	MBH12BS0101	MBH12BS0102
Collection Date:	10/31/96	10/31/96	10/31/96
Analyte	Units		
1,2-DICHLOROPROPYLENE	ug/kg		
PETROLEUM HYDROCARBONS			
TPH (C10 to C24)	mg/kg	230 =	500 U 19 =
TPH (C25 to C40)	mg/kg	570 =	500 U 44 =
HERBICIDES			
2,4,5-T (TRICHLOROPHENOXYACETIC ACID)	ug/kg		
SILVEX (2,4,5-TP)	ug/kg		
2,4-D (DICHLOROPHENOXYACETIC ACID)	ug/kg		
2,4 DB	ug/kg		
DALAPON	ug/kg		
DICAMBA	ug/kg		
DICHLOROPROP	ug/kg		
DINOSEB	ug/kg		
PCBs			
PCB-1016 (AROCHLOR 1016)	ug/kg		
PCB-1221 (AROCHLOR 1221)	ug/kg		
PCB-1232 (AROCHLOR 1232)	ug/kg		
PCB-1242 (AROCHLOR 1242)	ug/kg		
PCB-1248 (AROCHLOR 1248)	ug/kg		
PCB-1254 (AROCHLOR 1254)	ug/kg		
PCB-1260 (AROCHLOR 1260)	ug/kg		
PESTICIDES/PCBs			
ALDRIN	mg/kg		
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	mg/kg		
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	mg/kg		
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	mg/kg		
gamma-BHC (Lindane)	mg/kg		
CHLORDANE	mg/kg		
p,p'-DDD	mg/kg		
p,p'-DDE	mg/kg		
p,p'-DDT	mg/kg		
DIELDRIN	mg/kg		
ALPHA ENDOSULFAN	mg/kg		
BETA ENDOSULFAN	mg/kg		
ENDOSULFAN SULFATE	mg/kg		
ENDRIN	mg/kg		
ENDRIN ALDEHYDE	mg/kg		
HEPTACHLOR EPOXIDE	mg/kg		
HEPTACHLOR	mg/kg		
METHOXYCHLOR	mg/kg		
TOXAPHENE	mg/kg		
PCB-1016 (AROCHLOR 1016)	mg/kg		
PCB-1221 (AROCHLOR 1221)	mg/kg		
PCB-1232 (AROCHLOR 1232)	mg/kg		
PCB-1242 (AROCHLOR 1242)	mg/kg		
PCB-1248 (AROCHLOR 1248)	mg/kg		
PCB-1254 (AROCHLOR 1254)	mg/kg		
PCB-1260 (AROCHLOR 1260)	mg/kg		
METALS			
ANTIMONY	mg/kg	9 U	9 U 9 U
ARSENIC	mg/kg	1.88 =	2.16 = 1.32 =
BARIUM	mg/kg	44.3 =	51.8 = 32.6 =
BERYLLIUM	mg/kg	.5 U	.5 U .5 U
CADMIUM	mg/kg	1 U	1 U 1 U
CHROMIUM, TOTAL	mg/kg	6.8 =	9.6 = 2.5 =
COBALT	mg/kg	3 U	3 U 3 U
COPPER	mg/kg	5.5 =	11.9 = 2.7 =

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Facility Location:		Lube Oil Tank	Lube Oil Tank	Lube Oil Tank
Boring Number:		MBH11	MBH12	MBH12
Sample Depth:		4.5 to 5 ft.	.5 to 1 ft.	5 to 5.4 ft.
Sample ID:		MBH11BS0102	MBH12BS0101	MBH12BS0102
Collection Date:		10/31/96	10/31/96	10/31/96
Analyte	Units			
LEAD	mg/kg	10 U	10 U	10 U
MERCURY	mg/kg	.08 U	.08 U	.08 U
MOLYBDENUM	mg/kg	3 U	3 U	3 U
NICKEL	mg/kg	5.3 =	21.2 =	4 U
SELENIUM	mg/kg	.4 U	.4 U	.4 U
SILVER	mg/kg	2 U	2 U	2 U
THALLIUM	mg/kg	.44 U	.44 U	.44 U
VANADIUM	mg/kg	16.2 =	29.9 =	7.9 =

Note:
 NA - Not Analyzed
 U - Undetected
 = - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

	Facility Location:	Primary Fuel Pump Area	Primary Fuel Pump Area
	Boring Number:	MBH13	MBH13
	Sample Depth:	.5 to 1 ft.	4.5 to 5 ft.
	Sample ID:	MBH13BS0101	MBH13BS0102
	Collection Date:	11/04/96	11/04/96
Analyte	Units		
VOC			
BENZENE	ug/kg		2 U
BROMOBENZENE	ug/kg		2 U
BROMOCHLOROMETHANE	ug/kg		
BROMODICHLOROMETHANE	ug/kg		2 U
BROMOFORM	ug/kg		5 U
BROMOMETHANE	ug/kg		5 U
n-BUTYLBENZENE	ug/kg		2 U
SEC-BUTYLBENZENE	ug/kg		2 U
tert-BUTYLBENZENE	ug/kg		2 U
CARBON TETRACHLORIDE	ug/kg		5 U
CHLOROBENZENE	ug/kg		2 U
CHLOROETHANE	ug/kg		5 U
CHLOROFORM	ug/kg		2 U
CHLOROMETHANE	ug/kg		5 U
2-CHLOROTOLUENE	ug/kg		2 U
4-CHLOROTOLUENE	ug/kg		2 U
DIBROMOCHLOROMETHANE	ug/kg		2 U
1,2-DIBROMO-3-CHLOROPROPANE	ug/kg		10 U
1,2-DIBROMOETHANE	ug/kg		2 U
DIBROMOMETHANE	ug/kg		5 U
1,2-DICHLOROBENZENE	ug/kg		2 U
1,3-DICHLOROBENZENE	ug/kg		2 U
1,4-DICHLOROBENZENE	ug/kg		2 U
DICHLORODIFLUOROMETHANE	ug/kg		5 U
1,1-DICHLOROETHANE	ug/kg		2 U
1,2-DICHLOROETHANE	ug/kg		2 U
1,1-DICHLOROETHENE	ug/kg		2 U
cis-1,2-DICHLOROETHENE	ug/kg		2 U
trans-1,2-DICHLOROETHENE	ug/kg		2 U
1,2-DICHLOROPROPANE	ug/kg		2 U
1,3-DICHLOROPROPANE	ug/kg		2 U
2,2-DICHLOROPROPANE	ug/kg		2 U
1,1-DICHLOROPROPENE	ug/kg		
1,1-DICHLOROPROPENE	ug/kg		
cis-1,3-DICHLOROPROPENE	ug/kg		2 U
trans-1,3-DICHLOROPROPENE	ug/kg		2 U
ETHYLBENZENE	ug/kg		2 U
HEXACHLOROBUTADIENE	ug/kg		2 U
ISOPROPYLBENZENE (CUMENE)	ug/kg		2 U
p-ISOPROPYLTOLUENE	ug/kg		2 U
METHYLENE CHLORIDE	ug/kg		10 U
NAPHTHALENE	ug/kg		2 U
n-PROPYLBENZENE	ug/kg		2 U
STYRENE	ug/kg		2 U
1,1,1,2-TETRACHLOROETHANE	ug/kg		2 U
1,1,2,2-TETRACHLOROETHANE	ug/kg		2 U
TETRACHLOROETHYLENE(PCE)	ug/kg		2 U
TOLUENE	ug/kg		2 U
1,2,3-TRICHLOROBENZENE	ug/kg		2 U
1,2,4-TRICHLOROBENZENE	ug/kg		2 U
1,1,1-TRICHLOROETHANE	ug/kg		2 U
1,1,2-TRICHLOROETHANE	ug/kg		2 U
TRICHLOROETHYLENE (TCE)	ug/kg		2 U
TRICHLOROFLUOROMETHANE	ug/kg		5 U
1,2,3-TRICHLOROPROPANE	ug/kg		2 U
1,2,4-TRIMETHYLBENZENE	ug/kg		2 U
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	ug/kg		2 U
VINYL CHLORIDE	ug/kg		5 U
O-XYLENE (1,2-DIMETHYLBENZENE)	ug/kg		2 U
M,P-XYLENE (SUM OF ISOMERS)	ug/kg		
M-XYLENE (1,3-DIMETHYLBENZENE)	ug/kg		2 U

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

	Facility Location:	Primary Fuel Pump Area	Primary Fuel Pump Area
	Boring Number:	MBH13	MBH13
	Sample Depth:	.5 to 1 ft.	4.5 to 5 ft.
	Sample ID:	MBH13BS0101	MBH13BS0102
	Collection Date:	11/04/96	11/04/96
Analyte	Units		
1,2-DICHLOROPROPYLENE	ug/kg		2 U
PETROLEUM HYDROCARBONS			
TPH (C10 to C24)	mg/kg	5 U	
TPH (C25 to C40)	mg/kg	5 U	
HERBICIDES			
2,4,5-T (TRICHLOROPHENOXYACETIC ACID)	ug/kg		
SILVEX (2,4,5-TP)	ug/kg		
2,4-D (DICHLOROPHENOXYACETIC ACID)	ug/kg		
2,4 DB	ug/kg		
DALAPON	ug/kg		
DICAMBA	ug/kg		
DICHLOROPROP	ug/kg		
DINOSEB	ug/kg		
PCBs			
PCB-1016 (AROCHLOR 1016)	ug/kg		
PCB-1221 (AROCHLOR 1221)	ug/kg		
PCB-1232 (AROCHLOR 1232)	ug/kg		
PCB-1242 (AROCHLOR 1242)	ug/kg		
PCB-1248 (AROCHLOR 1248)	ug/kg		
PCB-1254 (AROCHLOR 1254)	ug/kg		
PCB-1260 (AROCHLOR 1260)	ug/kg		
PESTICIDES/PCBs			
ALDRIN	mg/kg		
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	mg/kg		
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	mg/kg		
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	mg/kg		
gamma-BHC (Lindane)	mg/kg		
CHLORDANE	mg/kg		
p,p'-DDD	mg/kg		
p,p'-DDE	mg/kg		
p,p'-DDT	mg/kg		
DIELDRIN	mg/kg		
ALPHA ENDOSULFAN	mg/kg		
BETA ENDOSULFAN	mg/kg		
ENDOSULFAN SULFATE	mg/kg		
ENDRIN	mg/kg		
ENDRIN ALDEHYDE	mg/kg		
HEPTACHLOR EPOXIDE	mg/kg		
HEPTACHLOR	mg/kg		
METHOXYCHLOR	mg/kg		
TOXAPHENE	mg/kg		
PCB-1016 (AROCHLOR 1016)	mg/kg		
PCB-1221 (AROCHLOR 1221)	mg/kg		
PCB-1232 (AROCHLOR 1232)	mg/kg		
PCB-1242 (AROCHLOR 1242)	mg/kg		
PCB-1248 (AROCHLOR 1248)	mg/kg		
PCB-1254 (AROCHLOR 1254)	mg/kg		
PCB-1260 (AROCHLOR 1260)	mg/kg		
METALS			
ANTIMONY	mg/kg		
ARSENIC	mg/kg		
BARIUM	mg/kg		
BERYLLIUM	mg/kg		
CADMIUM	mg/kg		
CHROMIUM, TOTAL	mg/kg		
COBALT	mg/kg		
COPPER	mg/kg		

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

	Facility Location:	Primary Fuel Pump Area	Primary Fuel Pump Area
	Boring Number:	MBH13	MBH13
	Sample Depth:	.5 to 1 ft.	4.5 to 5 ft.
	Sample ID:	MBH13BS0101	MBH13BS0102
	Collection Date:	11/04/96	11/04/96
Analyte	Units		
LEAD	mg/kg		
MERCURY	mg/kg		
MOLYBDENUM	mg/kg		
NICKEL	mg/kg		
SELENIUM	mg/kg		
SILVER	mg/kg		
THALLIUM	mg/kg		
VANADIUM	mg/kg		

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Analyte	Units	Facility Location:	Secondary Fuel Pump	
		Boring Number:	Area	Power Block Units 1 & 2
		Sample Depth:		
		Sample ID:		
		Collection Date:		
		MBH14	MBH15	MBH17
		.5 to 1 ft.	8.2 to 8.9 ft.	.5 to 1 ft.
		MBH14BS0101	MBH15BS0103	MBH17BS0101
		11/04/96	10/30/96	10/30/96
VOC				
BENZENE	ug/kg		2 U	
BROMOBENZENE	ug/kg		2 U	
BROMOCHLOROMETHANE	ug/kg		5 U	
BROMODICHLOROMETHANE	ug/kg		2 U	
BROMOFORM	ug/kg		5 U	
BROMOMETHANE	ug/kg		5 U	
n-BUTYLBENZENE	ug/kg		2 U	
SEC-BUTYLBENZENE	ug/kg		2 U	
tert-BUTYLBENZENE	ug/kg		2 U	
CARBON TETRACHLORIDE	ug/kg		5 U	
CHLOROBENZENE	ug/kg		2 U	
CHLOROETHANE	ug/kg		5 U	
CHLOROFORM	ug/kg		2 U	
CHLOROMETHANE	ug/kg		5 U	
2-CHLOROTOLUENE	ug/kg		2 U	
4-CHLOROTOLUENE	ug/kg		2 U	
DIBROMOCHLOROMETHANE	ug/kg		2 U	
1,2-DIBROMO-3-CHLOROPROPANE	ug/kg		10 U	
1,2-DIBROMOETHANE	ug/kg		2 U	
DIBROMOMETHANE	ug/kg		5 U	
1,2-DICHLOROBENZENE	ug/kg		2 U	
1,3-DICHLOROBENZENE	ug/kg		2 U	
1,4-DICHLOROBENZENE	ug/kg		2 U	
DICHLORODIFLUOROMETHANE	ug/kg		5 U	
1,1-DICHLOROETHANE	ug/kg		2 U	
1,2-DICHLOROETHANE	ug/kg		2 U	
1,1-DICHLOROETHENE	ug/kg		2 U	
cis-1,2-DICHLOROETHENE	ug/kg		2 U	
trans-1,2-DICHLOROETHENE	ug/kg		2 U	
1,2-DICHLOROPROPANE	ug/kg		2 U	
1,3-DICHLOROPROPANE	ug/kg		2 U	
2,2-DICHLOROPROPANE	ug/kg		2 U	
1,1-DICHLOROPROPENE	ug/kg			
1,1-DICHLOROPROPENE	ug/kg			
cis-1,3-DICHLOROPROPENE	ug/kg		2 U	
trans-1,3-DICHLOROPROPENE	ug/kg		2 U	
ETHYLBENZENE	ug/kg		2 U	
HEXACHLOROBUTADIENE	ug/kg		2 U	
ISOPROPYLBENZENE (CUMENE)	ug/kg		2 U	
p-ISOPROPYLTOLUENE	ug/kg		2 U	
METHYLENE CHLORIDE	ug/kg		10 U	
NAPHTHALENE	ug/kg		2 U	
n-PROPYLBENZENE	ug/kg		2 U	
STYRENE	ug/kg		2 U	
1,1,1,2-TETRACHLOROETHANE	ug/kg		2 U	
1,1,2,2-TETRACHLOROETHANE	ug/kg		2 U	
TETRACHLOROETHYLENE(PCE)	ug/kg		2 U	
TOLUENE	ug/kg		2 U	
1,2,3-TRICHLOROBENZENE	ug/kg		2 U	
1,2,4-TRICHLOROBENZENE	ug/kg		2 U	
1,1,1-TRICHLOROETHANE	ug/kg		2 U	
1,1,2-TRICHLOROETHANE	ug/kg		2 U	
TRICHLOROETHYLENE (TCE)	ug/kg		2 U	
TRICHLOROFLUOROMETHANE	ug/kg		5 U	
1,2,3-TRICHLOROPROPANE	ug/kg		2 U	
1,2,4-TRIMETHYLBENZENE	ug/kg		2 U	
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	ug/kg		2 U	
VINYL CHLORIDE	ug/kg		5 U	
O-XYLENE (1,2-DIMETHYLBENZENE)	ug/kg		2 U	
M,P-XYLENE (SUM OF ISOMERS)	ug/kg			
M-XYLENE (1,3-DIMETHYLBENZENE)	ug/kg		2 U	

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Analyte	Units	Facility Location:		Secondary Fuel Pump	
		Boring Number:	Primary Fuel Pump Area	Area	Power Block Units 1 & 2
		MBH14	MBH15	MBH17	
		Sample Depth:	.5 to 1 ft.	8.2 to 8.9 ft.	.5 to 1 ft.
		Sample ID:	MBH14BS0101	MBH15BS0103	MBH17BS0101
		Collection Date:	11/04/96	10/30/96	10/30/96
1,2-DICHLOROPROPYLENE	ug/kg			2 U	
PETROLEUM HYDROCARBONS					
TPH (C10 to C24)	mg/kg		5 U	5 U	5 U
TPH (C25 to C40)	mg/kg		5 U	5 U	5 U
HERBICIDES					
2,4,5-T (TRICHLOROPHENOXYACETIC ACID)	ug/kg				
SILVEX (2,4,5-TP)	ug/kg				
2,4-D (DICHLOROPHENOXYACETIC ACID)	ug/kg				
2,4 DB	ug/kg				
DALAPON	ug/kg				
DICAMBA	ug/kg				
DICHLOROPROP	ug/kg				
DINoseb	ug/kg				
PCBs					
PCB-1016 (AROCHLOR 1016)	ug/kg				
PCB-1221 (AROCHLOR 1221)	ug/kg				
PCB-1232 (AROCHLOR 1232)	ug/kg				
PCB-1242 (AROCHLOR 1242)	ug/kg				
PCB-1248 (AROCHLOR 1248)	ug/kg				
PCB-1254 (AROCHLOR 1254)	ug/kg				
PCB-1260 (AROCHLOR 1260)	ug/kg				
PESTICIDES/PCBs					
ALDRIN	mg/kg				
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	mg/kg				
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	mg/kg				
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	mg/kg				
gamma-BHC (Lindane)	mg/kg				
CHLORDANE	mg/kg				
p,p'-DDD	mg/kg				
p,p'-DDE	mg/kg				
p,p'-DDT	mg/kg				
DIELDRIN	mg/kg				
ALPHA ENDOSULFAN	mg/kg				
BETA ENDOSULFAN	mg/kg				
ENDOSULFAN SULFATE	mg/kg				
ENDRIN	mg/kg				
ENDRIN ALDEHYDE	mg/kg				
HEPTACHLOR EPOXIDE	mg/kg				
HEPTACHLOR	mg/kg				
METHOXYCHLOR	mg/kg				
TOXAPHENE	mg/kg				
PCB-1016 (AROCHLOR 1016)	mg/kg				
PCB-1221 (AROCHLOR 1221)	mg/kg				
PCB-1232 (AROCHLOR 1232)	mg/kg				
PCB-1242 (AROCHLOR 1242)	mg/kg				
PCB-1248 (AROCHLOR 1248)	mg/kg				
PCB-1254 (AROCHLOR 1254)	mg/kg				
PCB-1260 (AROCHLOR 1260)	mg/kg				
METALS					
ANTIMONY	mg/kg			9 U	9 U
ARSENIC	mg/kg			.5 U	.7 =
BARIUM	mg/kg			22.6 =	49.2 =
BERYLLIUM	mg/kg			.5 U	.5 U
CADMIUM	mg/kg			1 U	1 U
CHROMIUM, TOTAL	mg/kg			2 U	5.6 =
COBALT	mg/kg			3 U	3 U
COPPER	mg/kg			2 U	4.9 =

Note:
NA - Not Analyzed
U - Undetected
= - Detected

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Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Facility Location:		Primary Fuel Pump Area	Secondary Fuel Pump Area	Power Block Units 1 & 2
Boring Number:		MBH14	MBH15	MBH17
Sample Depth:		.5 to 1 ft.	8.2 to 8.9 ft.	.5 to 1 ft.
Sample ID:		MBH14BS0101	MBH15BS0103	MBH17BS0101
Collection Date:		11/04/96	10/30/96	10/30/96
Analyte	Units			
LEAD	mg/kg		10 U	10 U
MERCURY	mg/kg		.1 U	.8 =
MOLYBDENUM	mg/kg		3 U	3 U
NICKEL	mg/kg		4 U	8.9 =
SELENIUM	mg/kg		.1 U	.5 U
SILVER	mg/kg		5.1 =	5.2 =
THALLIUM	mg/kg		.1 U	.7 =
VANADIUM	mg/kg		2.4 =	12.5 =

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Facility Location:		Power Block Units 1 & 2	Power Block Units 1 & 2	Power Block Units 1 & 2
Boring Number:		MBH17	MBH18	MBH18
Sample Depth:		5 to 5.4 ft.	.5 to 1 ft.	5 to 5.4 ft.
Sample ID:		MBH17BS0102	MBH18BS0101	MBH18BS0102
Collection Date:		10/30/96	10/30/96	10/30/96
Analyte	Units			
VOC				
BENZENE	ug/kg			
BROMOBENZENE	ug/kg			
BROMOCHLOROMETHANE	ug/kg			
BROMODICHLOROMETHANE	ug/kg			
BROMOFORM	ug/kg			
BROMOMETHANE	ug/kg			
n-BUTYLBENZENE	ug/kg			
SEC-BUTYLBENZENE	ug/kg			
tert-BUTYLBENZENE	ug/kg			
CARBON TETRACHLORIDE	ug/kg			
CHLOROBENZENE	ug/kg			
CHLOROETHANE	ug/kg			
CHLOROFORM	ug/kg			
CHLOROMETHANE	ug/kg			
2-CHLOROTOLUENE	ug/kg			
4-CHLOROTOLUENE	ug/kg			
DIBROMOCHLOROMETHANE	ug/kg			
1,2-DIBROMO-3-CHLOROPROPANE	ug/kg			
1,2-DIBROMOETHANE	ug/kg			
DIBROMOMETHANE	ug/kg			
1,2-DICHLOROBENZENE	ug/kg			
1,3-DICHLOROBENZENE	ug/kg			
1,4-DICHLOROBENZENE	ug/kg			
DICHLORODIFLUOROMETHANE	ug/kg			
1,1-DICHLOROETHANE	ug/kg			
1,2-DICHLOROETHANE	ug/kg			
1,1-DICHLOROETHENE	ug/kg			
cis-1,2-DICHLOROETHENE	ug/kg			
trans-1,2-DICHLOROETHENE	ug/kg			
1,2-DICHLOROPROPANE	ug/kg			
1,3-DICHLOROPROPANE	ug/kg			
2,2-DICHLOROPROPANE	ug/kg			
1,1-DICHLOROPROPENE	ug/kg			
1,1-DICHLOROPROPENE	ug/kg			
cis-1,3-DICHLOROPROPENE	ug/kg			
trans-1,3-DICHLOROPROPENE	ug/kg			
ETHYLBENZENE	ug/kg			
HEXACHLOROBUTADIENE	ug/kg			
ISOPROPYLBENZENE (CUMENE)	ug/kg			
p-ISOPROPYLTOLUENE	ug/kg			
METHYLENE CHLORIDE	ug/kg			
NAPHTHALENE	ug/kg			
n-PROPYLBENZENE	ug/kg			
STYRENE	ug/kg			
1,1,1,2-TETRACHLOROETHANE	ug/kg			
1,1,2,2-TETRACHLOROETHANE	ug/kg			
TETRACHLOROETHYLENE(PCE)	ug/kg			
TOLUENE	ug/kg			
1,2,3-TRICHLOROBENZENE	ug/kg			
1,2,4-TRICHLOROBENZENE	ug/kg			
1,1,1-TRICHLOROETHANE	ug/kg			
1,1,2-TRICHLOROETHANE	ug/kg			
TRICHLOROETHYLENE (TCE)	ug/kg			
TRICHLOROFLUOROMETHANE	ug/kg			
1,2,3-TRICHLOROPROPANE	ug/kg			
1,2,4-TRIMETHYLBENZENE	ug/kg			
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	ug/kg			
VINYL CHLORIDE	ug/kg			
O-XYLENE (1,2-DIMETHYLBENZENE)	ug/kg			
M,P-XYLENE (SUM OF ISOMERS)	ug/kg			
M-XYLENE (1,3-DIMETHYLBENZENE)	ug/kg			

Note:

NA - Not Analyzed

U - Undetected

= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Facility Location:		Power Block Units 1 & 2	Power Block Units 1 & 2	Power Block Units 1 & 2
Boring Number:		MBH17	MBH18	MBH18
Sample Depth:		5 to 5.4 ft.	.5 to 1 ft.	5 to 5.4 ft.
Sample ID:		MBH17BS0102	MBH18BS0101	MBH18BS0102
Collection Date:		10/30/96	10/30/96	10/30/96
Analyte	Units			
1,2-DICHLOROPROPYLENE	ug/kg			
PETROLEUM HYDROCARBONS				
TPH (C10 to C24)	mg/kg	5 U	5 U	5 U
TPH (C25 to C40)	mg/kg	5 U	5 U	5 U
HERBICIDES				
2,4,5-T (TRICHLOROPHENOXYACETIC ACID)	ug/kg			
SILVEX (2,4,5-TP)	ug/kg			
2,4-D (DICHLOROPHENOXYACETIC ACID)	ug/kg			
2,4 DB	ug/kg			
DALAPON	ug/kg			
DICAMBA	ug/kg			
DICHLOROPROP	ug/kg			
DINoseb	ug/kg			
PCBs				
PCB-1016 (AROCHLOR 1016)	ug/kg		50 U	50 U
PCB-1221 (AROCHLOR 1221)	ug/kg		50 U	50 U
PCB-1232 (AROCHLOR 1232)	ug/kg		50 U	50 U
PCB-1242 (AROCHLOR 1242)	ug/kg		50 U	50 U
PCB-1248 (AROCHLOR 1248)	ug/kg		50 U	50 U
PCB-1254 (AROCHLOR 1254)	ug/kg		50 U	50 U
PCB-1260 (AROCHLOR 1260)	ug/kg		50 U	50 U
PESTICIDES/PCBs				
ALDRIN	mg/kg			
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	mg/kg			
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	mg/kg			
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	mg/kg			
gamma-BHC (Lindane)	mg/kg			
CHLORDANE	mg/kg			
p,p'-DDD	mg/kg			
p,p'-DDE	mg/kg			
p,p'-DDT	mg/kg			
DIELDRIN	mg/kg			
ALPHA ENDOSULFAN	mg/kg			
BETA ENDOSULFAN	mg/kg			
ENDOSULFAN SULFATE	mg/kg			
ENDRIN	mg/kg			
ENDRIN ALDEHYDE	mg/kg			
HEPTACHLOR EPOXIDE	mg/kg			
HEPTACHLOR	mg/kg			
METHOXYCHLOR	mg/kg			
TOXAPHENE	mg/kg			
PCB-1016 (AROCHLOR 1016)	mg/kg			
PCB-1221 (AROCHLOR 1221)	mg/kg			
PCB-1232 (AROCHLOR 1232)	mg/kg			
PCB-1242 (AROCHLOR 1242)	mg/kg			
PCB-1248 (AROCHLOR 1248)	mg/kg			
PCB-1254 (AROCHLOR 1254)	mg/kg			
PCB-1260 (AROCHLOR 1260)	mg/kg			
METALS				
ANTIMONY	mg/kg	9 U	9 U	9 U
ARSENIC	mg/kg	.5 =	.9 =	.8 =
BARIUM	mg/kg	19.3 =	45.5 =	24.3 =
BERYLLIUM	mg/kg	.5 U	.5 U	.5 U
CADMIUM	mg/kg	1 U	1 U	1 U
CHROMIUM, TOTAL	mg/kg	2.7 =	5.1 =	2.3 =
COBALT	mg/kg	3 U	3 U	3 U
COPPER	mg/kg	2 U	3.1 =	2 U

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Facility Location:		Power Block Units 1 & 2	Power Block Units 1 & 2	Power Block Units 1 & 2
Boring Number:		MBH17	MBH18	MBH18
Sample Depth:		5 to 5.4 ft.	.5 to 1 ft.	5 to 5.4 ft.
Sample ID:		MBH17BS0102	MBH18BS0101	MBH18BS0102
Collection Date:		10/30/96	10/30/96	10/30/96
Analyte	Units			
LEAD	mg/kg	10 U	10 U	10 U
MERCURY	mg/kg	.1 U	.7 =	.9 =
MOLYBDENUM	mg/kg	3.1 =	3 U	3 U
NICKEL	mg/kg	4 U	6.7 =	4 U
SELENIUM	mg/kg	.5 U	.5 U	.5 U
SILVER	mg/kg	7.9 =	21.1 =	15.4 =
THALLIUM	mg/kg	.6 =	.9 =	.1 U
VANADIUM	mg/kg	4.8 =	11.5 =	5.3 =

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Facility Location:	Power Block Units 1 & 2	Power Block Units 1 & 2	Power Block Units 1 & 2
	Boring Number:	MBH19	MBH19
Sample Depth:	.5 to 1 ft.	1 to 1.5 ft.	5 to 5.4 ft.
Sample ID:	MBH19BS0101	MBH19BS0121	MBH19BS0102
Collection Date:	10/30/96	10/30/96	10/30/96
Analyte	Units		
VOC			
BENZENE	ug/kg		
BROMOBENZENE	ug/kg		
BROMOCHLOROMETHANE	ug/kg		
BROMODICHLOROMETHANE	ug/kg		
BROMOFORM	ug/kg		
BROMOMETHANE	ug/kg		
n-BUTYLBENZENE	ug/kg		
SEC-BUTYLBENZENE	ug/kg		
tert-BUTYLBENZENE	ug/kg		
CARBON TETRACHLORIDE	ug/kg		
CHLOROBENZENE	ug/kg		
CHLOROETHANE	ug/kg		
CHLOROFORM	ug/kg		
CHLOROMETHANE	ug/kg		
2-CHLOROTOLUENE	ug/kg		
4-CHLOROTOLUENE	ug/kg		
DIBROMOCHLOROMETHANE	ug/kg		
1,2-DIBROMO-3-CHLOROPROPANE	ug/kg		
1,2-DIBROMOETHANE	ug/kg		
DIBROMOMETHANE	ug/kg		
1,2-DICHLOROBENZENE	ug/kg		
1,3-DICHLOROBENZENE	ug/kg		
1,4-DICHLOROBENZENE	ug/kg		
DICHLORODIFLUOROMETHANE	ug/kg		
1,1-DICHLOROETHANE	ug/kg		
1,2-DICHLOROETHANE	ug/kg		
1,1-DICHLOROETHENE	ug/kg		
cis-1,2-DICHLOROETHENE	ug/kg		
trans-1,2-DICHLOROETHENE	ug/kg		
1,2-DICHLOROPROPANE	ug/kg		
1,3-DICHLOROPROPANE	ug/kg		
2,2-DICHLOROPROPANE	ug/kg		
1,1-DICHLOROPROPENE	ug/kg		
1,1-DICHLOROPROPENE	ug/kg		
cis-1,3-DICHLOROPROPENE	ug/kg		
trans-1,3-DICHLOROPROPENE	ug/kg		
ETHYLBENZENE	ug/kg		
HEXACHLOROBUTADIENE	ug/kg		
ISOPROPYLBENZENE (CUMENE)	ug/kg		
p-ISOPROPYLTOLUENE	ug/kg		
METHYLENE CHLORIDE	ug/kg		
NAPHTHALENE	ug/kg		
n-PROPYLBENZENE	ug/kg		
STYRENE	ug/kg		
1,1,1,2-TETRACHLOROETHANE	ug/kg		
1,1,2,2-TETRACHLOROETHANE	ug/kg		
TETRACHLOROETHYLENE(PCE)	ug/kg		
TOLUENE	ug/kg		
1,2,3-TRICHLOROBENZENE	ug/kg		
1,2,4-TRICHLOROBENZENE	ug/kg		
1,1,1-TRICHLOROETHANE	ug/kg		
1,1,2-TRICHLOROETHANE	ug/kg		
TRICHLOROETHYLENE (TCE)	ug/kg		
TRICHLOROFLUOROMETHANE	ug/kg		
1,2,3-TRICHLOROPROPANE	ug/kg		
1,2,4-TRIMETHYLBENZENE	ug/kg		
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	ug/kg		
VINYL CHLORIDE	ug/kg		
O-XYLENE (1,2-DIMETHYLBENZENE)	ug/kg		
M,P-XYLENE (SUM OF ISOMERS)	ug/kg		
M-XYLENE (1,3-DIMETHYLBENZENE)	ug/kg		

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

	Facility Location:	Power Block Units 1 & 2	Power Block Units 1 & 2	Power Block Units 1 & 2
	Boring Number:	MBH19	MBH19	MBH19
	Sample Depth:	.5 to 1 ft.	1 to 1.5 ft.	5 to 5.4 ft.
	Sample ID:	MBH19BS0101	MBH19BS0121	MBH19BS0102
	Collection Date:	10/30/96	10/30/96	10/30/96
Analyte	Units			
1,2-DICHLOROPROPYLENE	ug/kg			
PETROLEUM HYDROCARBONS				
TPH (C10 to C24)	mg/kg	91 =	42 =	5 U
TPH (C25 to C40)	mg/kg	19 =	9 =	5 U
HERBICIDES				
2,4,5-T (TRICHLOROPHENOXYACETIC ACID)	ug/kg			
SILVEX (2,4,5-TP)	ug/kg			
2,4-D (DICHLOROPHENOXYACETIC ACID)	ug/kg			
2,4 DB	ug/kg			
DALAPON	ug/kg			
DICAMBA	ug/kg			
DICHLOROPROP	ug/kg			
DINOSEB	ug/kg			
PCBs				
PCB-1016 (AROCHLOR 1016)	ug/kg	50 U	50 U	50 U
PCB-1221 (AROCHLOR 1221)	ug/kg	50 U	50 U	50 U
PCB-1232 (AROCHLOR 1232)	ug/kg	50 U	50 U	50 U
PCB-1242 (AROCHLOR 1242)	ug/kg	50 U	50 U	50 U
PCB-1248 (AROCHLOR 1248)	ug/kg	50 U	50 U	50 U
PCB-1254 (AROCHLOR 1254)	ug/kg	50 U	50 U	50 U
PCB-1260 (AROCHLOR 1260)	ug/kg	50 U	50 U	50 U
PESTICIDES/PCBs				
ALDRIN	mg/kg			
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	mg/kg			
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	mg/kg			
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	mg/kg			
gamma-BHC (Lindane)	mg/kg			
CHLORDANE	mg/kg			
p,p'-DDD	mg/kg			
p,p'-DDE	mg/kg			
p,p'-DDT	mg/kg			
DIELDRIN	mg/kg			
ALPHA ENDOSULFAN	mg/kg			
BETA ENDOSULFAN	mg/kg			
ENDOSULFAN SULFATE	mg/kg			
ENDRIN	mg/kg			
ENDRIN ALDEHYDE	mg/kg			
HEPTACHLOR EPOXIDE	mg/kg			
HEPTACHLOR	mg/kg			
METHOXYCHLOR	mg/kg			
TOXAPHENE	mg/kg			
PCB-1016 (AROCHLOR 1016)	mg/kg			
PCB-1221 (AROCHLOR 1221)	mg/kg			
PCB-1232 (AROCHLOR 1232)	mg/kg			
PCB-1242 (AROCHLOR 1242)	mg/kg			
PCB-1248 (AROCHLOR 1248)	mg/kg			
PCB-1254 (AROCHLOR 1254)	mg/kg			
PCB-1260 (AROCHLOR 1260)	mg/kg			
METALS				
ANTIMONY	mg/kg	16.4 =	13.8 =	15.9 =
ARSENIC	mg/kg	.5 U	.6 =	.7 =
BARIUM	mg/kg	66.8 =	44.3 =	56.2 =
BERYLLIUM	mg/kg	.5 U	.5 U	.5 U
CADMIUM	mg/kg	1 U	1 U	1 U
CHROMIUM, TOTAL	mg/kg	4.9 =	3.6 =	2.5 =
COBALT	mg/kg	3 U	3 U	3 U
COPPER	mg/kg	4.6 =	2.6 =	3.1 =

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Facility Location:		Power Block Units 1 & 2	Power Block Units 1 & 2	Power Block Units 1 & 2
Boring Number:		MBH19	MBH19	MBH19
Sample Depth:		.5 to 1 ft.	1 to 1.5 ft.	5 to 5.4 ft.
Sample ID:		MBH19BS0101	MBH19BS0121	MBH19BS0102
Collection Date:		10/30/96	10/30/96	10/30/96
Analyte	Units			
LEAD	mg/kg	10 U	10 U	10 U
MERCURY	mg/kg	.3 =	.5 =	.2 =
MOLYBDENUM	mg/kg	5.6 =	3.2 =	3 U
NICKEL	mg/kg	4.2 =	4 U	4 U
SELENIUM	mg/kg	.5 U	.5 U	.5 U
SILVER	mg/kg	2 U	2 U	2 U
THALLIUM	mg/kg	.1 U	.1 U	.1 U
VANADIUM	mg/kg	14.4 =	6.9 =	4.6 =

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Facility Location:		Transformer Units 1 & 2	Transformer Units 1 & 2
Boring Number:		MSS20	MSS21
Sample Depth:		Surface	Surface
Sample ID:		MSS20SS0101	MSS21SS0101
Collection Date:		11/05/96	11/05/96
Analyte	Units		
VOC			
BENZENE	ug/kg		
BROMOBENZENE	ug/kg		
BROMOCHLOROMETHANE	ug/kg		
BROMODICHLOROMETHANE	ug/kg		
BROMOFORM	ug/kg		
BROMOMETHANE	ug/kg		
n-BUTYLBENZENE	ug/kg		
SEC-BUTYLBENZENE	ug/kg		
tert-BUTYLBENZENE	ug/kg		
CARBON TETRACHLORIDE	ug/kg		
CHLOROBENZENE	ug/kg		
CHLOROETHANE	ug/kg		
CHLOROFORM	ug/kg		
CHLOROMETHANE	ug/kg		
2-CHLOROTOLUENE	ug/kg		
4-CHLOROTOLUENE	ug/kg		
DIBROMOCHLOROMETHANE	ug/kg		
1,2-DIBROMO-3-CHLOROPROPANE	ug/kg		
1,2-DIBROMOETHANE	ug/kg		
DIBROMOMETHANE	ug/kg		
1,2-DICHLOROBENZENE	ug/kg		
1,3-DICHLOROBENZENE	ug/kg		
1,4-DICHLOROBENZENE	ug/kg		
DICHLORODIFLUOROMETHANE	ug/kg		
1,1-DICHLOROETHANE	ug/kg		
1,2-DICHLOROETHANE	ug/kg		
1,1-DICHLOROETHENE	ug/kg		
cis-1,2-DICHLOROETHENE	ug/kg		
trans-1,2-DICHLOROETHENE	ug/kg		
1,2-DICHLOROPROPANE	ug/kg		
1,3-DICHLOROPROPANE	ug/kg		
2,2-DICHLOROPROPANE	ug/kg		
1,1-DICHLOROPROPENE	ug/kg		
1,1-DICHLOROPROPENE	ug/kg		
cis-1,3-DICHLOROPROPENE	ug/kg		
trans-1,3-DICHLOROPROPENE	ug/kg		
ETHYLBENZENE	ug/kg		
HEXACHLOROBUTADIENE	ug/kg		
ISOPROPYLBENZENE (CUMENE)	ug/kg		
p-ISOPROPYLTOLUENE	ug/kg		
METHYLENE CHLORIDE	ug/kg		
NAPHTHALENE	ug/kg		
n-PROPYLBENZENE	ug/kg		
STYRENE	ug/kg		
1,1,1,2-TETRACHLOROETHANE	ug/kg		
1,1,2,2-TETRACHLOROETHANE	ug/kg		
TETRACHLOROETHYLENE(PCE)	ug/kg		
TOLUENE	ug/kg		
1,2,3-TRICHLOROBENZENE	ug/kg		
1,2,4-TRICHLOROBENZENE	ug/kg		
1,1,1-TRICHLOROETHANE	ug/kg		
1,1,2-TRICHLOROETHANE	ug/kg		
TRICHLOROETHYLENE (TCE)	ug/kg		
TRICHLOROFLUOROMETHANE	ug/kg		
1,2,3-TRICHLOROPROPANE	ug/kg		
1,2,4-TRIMETHYLBENZENE	ug/kg		
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	ug/kg		
VINYL CHLORIDE	ug/kg		
O-XYLENE (1,2-DIMETHYLBENZENE)	ug/kg		
M,P-XYLENE (SUM OF ISOMERS)	ug/kg		
M-XYLENE (1,3-DIMETHYLBENZENE)	ug/kg		

Note:

NA - Not Analyzed

U - Undetected

= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Facility Location:		Transformer Units 1 & 2	Transformer Units 1 & 2
Boring Number:		MSS20	MSS21
Sample Depth:		Surface	Surface
Sample ID:		MSS20SS0101	MSS21SS0101
Collection Date:		11/05/96	11/05/96
Analyte	Units		
1,2-DICHLOROPROPYLENE	ug/kg		
PETROLEUM HYDROCARBONS			
TPH (C10 to C24)	mg/kg		
TPH (C25 to C40)	mg/kg		
HERBICIDES			
2,4,5-T (TRICHLOROPHENOXYACETIC ACID)	ug/kg		
SILVEX (2,4,5-TP)	ug/kg		
2,4-D (DICHLOROPHENOXYACETIC ACID)	ug/kg		
2,4 DB	ug/kg		
DALAPON	ug/kg		
DICAMBA	ug/kg		
DICHLOROPROP	ug/kg		
DINoseb	ug/kg		
PCBs			
PCB-1016 (AROCHLOR 1016)	ug/kg	50 U	50 U
PCB-1221 (AROCHLOR 1221)	ug/kg	50 U	50 U
PCB-1232 (AROCHLOR 1232)	ug/kg	50 U	50 U
PCB-1242 (AROCHLOR 1242)	ug/kg	50 U	50 U
PCB-1248 (AROCHLOR 1248)	ug/kg	50 U	50 U
PCB-1254 (AROCHLOR 1254)	ug/kg	50 U	50 U
PCB-1260 (AROCHLOR 1260)	ug/kg	50 U	50 U
PESTICIDES/PCBs			
ALDRIN	mg/kg		
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	mg/kg		
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	mg/kg		
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	mg/kg		
gamma-BHC (Lindane)	mg/kg		
CHLORDANE	mg/kg		
p,p'-DDD	mg/kg		
p,p'-DDE	mg/kg		
p,p'-DDT	mg/kg		
DIELDRIN	mg/kg		
ALPHA ENDOSULFAN	mg/kg		
BETA ENDOSULFAN	mg/kg		
ENDOSULFAN SULFATE	mg/kg		
ENDRIN	mg/kg		
ENDRIN ALDEHYDE	mg/kg		
HEPTACHLOR EPOXIDE	mg/kg		
HEPTACHLOR	mg/kg		
METHOXYCHLOR	mg/kg		
TOXAPHENE	mg/kg		
PCB-1016 (AROCHLOR 1016)	mg/kg		
PCB-1221 (AROCHLOR 1221)	mg/kg		
PCB-1232 (AROCHLOR 1232)	mg/kg		
PCB-1242 (AROCHLOR 1242)	mg/kg		
PCB-1248 (AROCHLOR 1248)	mg/kg		
PCB-1254 (AROCHLOR 1254)	mg/kg		
PCB-1260 (AROCHLOR 1260)	mg/kg		
METALS			
ANTIMONY	mg/kg		
ARSENIC	mg/kg		
BARIUM	mg/kg		
BERYLLIUM	mg/kg		
CADMIUM	mg/kg		
CHROMIUM, TOTAL	mg/kg		
COBALT	mg/kg		
COPPER	mg/kg		

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

	Facility Location:	Transformer Units 1 & 2	Transformer Units 1 & 2
	Boring Number:	MSS20	MSS21
	Sample Depth:	Surface	Surface
	Sample ID:	MSS20SS0101	MSS21SS0101
	Collection Date:	11/05/96	11/05/96
Analyte	Units		
LEAD	mg/kg		
MERCURY	mg/kg		
MOLYBDENUM	mg/kg		
NICKEL	mg/kg		
SELENIUM	mg/kg		
SILVER	mg/kg		
THALLIUM	mg/kg		
VANADIUM	mg/kg		

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Facility Location:	Transformer Units 1 & 2	
	Boring Number:	MSS22
Sample Depth:	Surface	
	Sample ID:	MSS22SS0121
Collection Date:	11/05/96	
	Units	
Analyte		
VOC		
BENZENE	ug/kg	
BROMOBENZENE	ug/kg	
BROMOCHLOROMETHANE	ug/kg	
BROMODICHLOROMETHANE	ug/kg	
BROMOFORM	ug/kg	
BROMOMETHANE	ug/kg	
n-BUTYLBENZENE	ug/kg	
SEC-BUTYLBENZENE	ug/kg	
tert-BUTYLBENZENE	ug/kg	
CARBON TETRACHLORIDE	ug/kg	
CHLOROBENZENE	ug/kg	
CHLOROETHANE	ug/kg	
CHLOROFORM	ug/kg	
CHLOROMETHANE	ug/kg	
2-CHLOROTOLUENE	ug/kg	
4-CHLOROTOLUENE	ug/kg	
DIBROMOCHLOROMETHANE	ug/kg	
1,2-DIBROMO-3-CHLOROPROPANE	ug/kg	
1,2-DIBROMOETHANE	ug/kg	
DIBROMOMETHANE	ug/kg	
1,2-DICHLOROBENZENE	ug/kg	
1,3-DICHLOROBENZENE	ug/kg	
1,4-DICHLOROBENZENE	ug/kg	
DICHLORODIFLUOROMETHANE	ug/kg	
1,1-DICHLOROETHANE	ug/kg	
1,2-DICHLOROETHANE	ug/kg	
1,1-DICHLOROETHENE	ug/kg	
cis-1,2-DICHLOROETHENE	ug/kg	
trans-1,2-DICHLOROETHENE	ug/kg	
1,2-DICHLOROPROPANE	ug/kg	
1,3-DICHLOROPROPANE	ug/kg	
2,2-DICHLOROPROPANE	ug/kg	
1,1-DICHLOROPROPENE	ug/kg	
1,1-DICHLOROPROPENE	ug/kg	
cis-1,3-DICHLOROPROPENE	ug/kg	
trans-1,3-DICHLOROPROPENE	ug/kg	
ETHYLBENZENE	ug/kg	
HEXACHLOROBUTADIENE	ug/kg	
ISOPROPYLBENZENE (CUMENE)	ug/kg	
p-ISOPROPYLTOLUENE	ug/kg	
METHYLENE CHLORIDE	ug/kg	
NAPHTHALENE	ug/kg	
n-PROPYLBENZENE	ug/kg	
STYRENE	ug/kg	
1,1,1,2-TETRACHLOROETHANE	ug/kg	
1,1,2,2-TETRACHLOROETHANE	ug/kg	
TETRACHLOROETHYLENE(PCE)	ug/kg	
TOLUENE	ug/kg	
1,2,3-TRICHLOROBENZENE	ug/kg	
1,2,4-TRICHLOROBENZENE	ug/kg	
1,1,1-TRICHLOROETHANE	ug/kg	
1,1,2-TRICHLOROETHANE	ug/kg	
TRICHLOROETHYLENE (TCE)	ug/kg	
TRICHLOROFLUOROMETHANE	ug/kg	
1,2,3-TRICHLOROPROPANE	ug/kg	
1,2,4-TRIMETHYLBENZENE	ug/kg	
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	ug/kg	
VINYL CHLORIDE	ug/kg	
O-XYLENE (1,2-DIMETHYLBENZENE)	ug/kg	
M,P-XYLENE (SUM OF ISOMERS)	ug/kg	
M-XYLENE (1,3-DIMETHYLBENZENE)	ug/kg	

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Facility Location:		Transformer Units 1 & 2	Transformer Units 1 & 2
Boring Number:		MSS22	MSS23
Sample Depth:		Surface	Surface
Sample ID:		MSS22SS0121	MSS23SS0101
Collection Date:		11/05/96	11/05/96
Analyte	Units		
1,2-DICHLOROPROPYLENE	ug/kg		
PETROLEUM HYDROCARBONS			
TPH (C10 to C24)	mg/kg		
TPH (C25 to C40)	mg/kg		
HERBICIDES			
2,4,5-T (TRICHLOROPHENOXYACETIC ACID)	ug/kg		
SILVEX (2,4,5-TP)	ug/kg		
2,4-D (DICHLOROPHENOXYACETIC ACID)	ug/kg		
2,4 DB	ug/kg		
DALAPON	ug/kg		
DICAMBA	ug/kg		
DICHLOROPROP	ug/kg		
DINOSEB	ug/kg		
PCBs			
PCB-1016 (AROCHLOR 1016)	ug/kg	50 U	50 U
PCB-1221 (AROCHLOR 1221)	ug/kg	50 U	50 U
PCB-1232 (AROCHLOR 1232)	ug/kg	50 U	50 U
PCB-1242 (AROCHLOR 1242)	ug/kg	50 U	50 U
PCB-1248 (AROCHLOR 1248)	ug/kg	50 U	50 U
PCB-1254 (AROCHLOR 1254)	ug/kg	50 U	50 U
PCB-1260 (AROCHLOR 1260)	ug/kg	50 U	50 U
PESTICIDES/PCBs			
ALDRIN	mg/kg		
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	mg/kg		
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	mg/kg		
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	mg/kg		
gamma-BHC (Lindane)	mg/kg		
CHLORDANE	mg/kg		
p,p'-DDD	mg/kg		
p,p'-DDE	mg/kg		
p,p'-DDT	mg/kg		
DIELDRIN	mg/kg		
ALPHA ENDOSULFAN	mg/kg		
BETA ENDOSULFAN	mg/kg		
ENDOSULFAN SULFATE	mg/kg		
ENDRIN	mg/kg		
ENDRIN ALDEHYDE	mg/kg		
HEPTACHLOR EPOXIDE	mg/kg		
HEPTACHLOR	mg/kg		
METHOXYCHLOR	mg/kg		
TOXAPHENE	mg/kg		
PCB-1016 (AROCHLOR 1016)	mg/kg		
PCB-1221 (AROCHLOR 1221)	mg/kg		
PCB-1232 (AROCHLOR 1232)	mg/kg		
PCB-1242 (AROCHLOR 1242)	mg/kg		
PCB-1248 (AROCHLOR 1248)	mg/kg		
PCB-1254 (AROCHLOR 1254)	mg/kg		
PCB-1260 (AROCHLOR 1260)	mg/kg		
METALS			
ANTIMONY	mg/kg		
ARSENIC	mg/kg		
BARIUM	mg/kg		
BERYLLIUM	mg/kg		
CADMIUM	mg/kg		
CHROMIUM, TOTAL	mg/kg		
COBALT	mg/kg		
COPPER	mg/kg		

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Facility Location:		Transformer Units 1 & 2	Transformer Units 1 & 2
Boring Number:		MSS22	MSS23
Sample Depth:		Surface	Surface
Sample ID:		MSS22SS0121	MSS23SS0101
Collection Date:		11/05/96	11/05/96
Analyte	Units		
LEAD	mg/kg		
MERCURY	mg/kg		
MOLYBDENUM	mg/kg		
NICKEL	mg/kg		
SELENIUM	mg/kg		
SILVER	mg/kg		
THALLIUM	mg/kg		
VANADIUM	mg/kg		

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Analyte	Units	Transformer Peaker		
		Transformer Units 1 & 2	Transformer Units 1 & 2	Unit
		Boring Number:	MSS24	MSS25
		Sample Depth:	Surface	Surface
		Sample ID:	MSS24SS0101	MSS25SS0101
VOC	Units	Collection Date:	11/05/96	11/05/96
		Unit	MSS26	Surface
			MSS26SS0101	
BENZENE	ug/kg			
BROMOBENZENE	ug/kg			
BROMOCHLOROMETHANE	ug/kg			
BROMODICHLOROMETHANE	ug/kg			
BROMOFORM	ug/kg			
BROMOMETHANE	ug/kg			
n-BUTYLBENZENE	ug/kg			
SEC-BUTYLBENZENE	ug/kg			
tert-BUTYLBENZENE	ug/kg			
CARBON TETRACHLORIDE	ug/kg			
CHLOROBENZENE	ug/kg			
CHLOROETHANE	ug/kg			
CHLOROFORM	ug/kg			
CHLOROMETHANE	ug/kg			
2-CHLOROTOLUENE	ug/kg			
4-CHLOROTOLUENE	ug/kg			
DIBROMOCHLOROMETHANE	ug/kg			
1,2-DIBROMO-3-CHLOROPROPANE	ug/kg			
1,2-DIBROMOETHANE	ug/kg			
DIBROMOMETHANE	ug/kg			
1,2-DICHLOROBENZENE	ug/kg			
1,3-DICHLOROBENZENE	ug/kg			
1,4-DICHLOROBENZENE	ug/kg			
DICHLORODIFLUOROMETHANE	ug/kg			
1,1-DICHLOROETHANE	ug/kg			
1,2-DICHLOROETHANE	ug/kg			
1,1-DICHLOROETHENE	ug/kg			
cis-1,2-DICHLOROETHENE	ug/kg			
trans-1,2-DICHLOROETHENE	ug/kg			
1,2-DICHLOROPROPANE	ug/kg			
1,3-DICHLOROPROPANE	ug/kg			
2,2-DICHLOROPROPANE	ug/kg			
1,1-DICHLOROPROPENE	ug/kg			
1,1-DICHLOROPROPENE	ug/kg			
cis-1,3-DICHLOROPROPENE	ug/kg			
trans-1,3-DICHLOROPROPENE	ug/kg			
ETHYLBENZENE	ug/kg			
HEXACHLOROBUTADIENE	ug/kg			
ISOPROPYLBENZENE (CUMENE)	ug/kg			
p-ISOPROPYLTOLUENE	ug/kg			
METHYLENE CHLORIDE	ug/kg			
NAPHTHALENE	ug/kg			
n-PROPYLBENZENE	ug/kg			
STYRENE	ug/kg			
1,1,1,2-TETRACHLOROETHANE	ug/kg			
1,1,2,2-TETRACHLOROETHANE	ug/kg			
TETRACHLOROETHYLENE(PCE)	ug/kg			
TOLUENE	ug/kg			
1,2,3-TRICHLOROBENZENE	ug/kg			
1,2,4-TRICHLOROBENZENE	ug/kg			
1,1,1-TRICHLOROETHANE	ug/kg			
1,1,2-TRICHLOROETHANE	ug/kg			
TRICHLOROETHYLENE (TCE)	ug/kg			
TRICHLOROFLUOROMETHANE	ug/kg			
1,2,3-TRICHLOROPROPANE	ug/kg			
1,2,4-TRIMETHYLBENZENE	ug/kg			
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	ug/kg			
VINYL CHLORIDE	ug/kg			
O-XYLENE (1,2-DIMETHYLBENZENE)	ug/kg			
M,P-XYLENE (SUM OF ISOMERS)	ug/kg			
M-XYLENE (1,3-DIMETHYLBENZENE)	ug/kg			

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

	Facility Location:	Transformer Units 1 & 2	Transformer Units 1 & 2	Transformer Peaker
	Boring Number:	MSS24	MSS25	MSS26
	Sample Depth:	Surface	Surface	Surface
	Sample ID:	MSS24SS0101	MSS25SS0101	MSS26SS0101
	Collection Date:	11/05/96	11/05/96	11/05/96
Analyte	Units			
1,2-DICHLOROPROPYLENE	ug/kg			
PETROLEUM HYDROCARBONS				
TPH (C10 to C24)	mg/kg			
TPH (C25 to C40)	mg/kg			
HERBICIDES				
2,4,5-T (TRICHLOROPHENOXYACETIC ACID)	ug/kg			
SILVEX (2,4,5-TP)	ug/kg			
2,4-D (DICHLOROPHENOXYACETIC ACID)	ug/kg			
2,4 DB	ug/kg			
DALAPON	ug/kg			
DICAMBA	ug/kg			
DICHLOROPROP	ug/kg			
DINOSEB	ug/kg			
PCBs				
PCB-1016 (AROCHLOR 1016)	ug/kg	50 U	50 U	50 U
PCB-1221 (AROCHLOR 1221)	ug/kg	50 U	50 U	50 U
PCB-1232 (AROCHLOR 1232)	ug/kg	50 U	50 U	50 U
PCB-1242 (AROCHLOR 1242)	ug/kg	50 U	50 U	50 U
PCB-1248 (AROCHLOR 1248)	ug/kg	50 U	50 U	50 U
PCB-1254 (AROCHLOR 1254)	ug/kg	50 U	50 U	50 U
PCB-1260 (AROCHLOR 1260)	ug/kg	50 U	50 U	50 U
PESTICIDES/PCBs				
ALDRIN	mg/kg			
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	mg/kg			
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	mg/kg			
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	mg/kg			
gamma-BHC (Lindane)	mg/kg			
CHLORDANE	mg/kg			
p,p'-DDD	mg/kg			
p,p'-DDE	mg/kg			
p,p'-DDT	mg/kg			
DIELDRIN	mg/kg			
ALPHA ENDOSULFAN	mg/kg			
BETA ENDOSULFAN	mg/kg			
ENDOSULFAN SULFATE	mg/kg			
ENDRIN	mg/kg			
ENDRIN ALDEHYDE	mg/kg			
HEPTACHLOR EPOXIDE	mg/kg			
HEPTACHLOR	mg/kg			
METHOXYCHLOR	mg/kg			
TOXAPHENE	mg/kg			
PCB-1016 (AROCHLOR 1016)	mg/kg			
PCB-1221 (AROCHLOR 1221)	mg/kg			
PCB-1232 (AROCHLOR 1232)	mg/kg			
PCB-1242 (AROCHLOR 1242)	mg/kg			
PCB-1248 (AROCHLOR 1248)	mg/kg			
PCB-1254 (AROCHLOR 1254)	mg/kg			
PCB-1260 (AROCHLOR 1260)	mg/kg			
METALS				
ANTIMONY	mg/kg			
ARSENIC	mg/kg			
BARIUM	mg/kg			
BERYLLIUM	mg/kg			
CADMIUM	mg/kg			
CHROMIUM, TOTAL	mg/kg			
COBALT	mg/kg			
COPPER	mg/kg			

Note:

NA - Not Analyzed

U - Undetected

= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Facility Location:		Transformer Units 1 & 2	Transformer Units 1 & 2	Transformer Peaker Unit
Boring Number:		MSS24	MSS25	MSS26
Sample Depth:		Surface	Surface	Surface
Sample ID:		MSS24SS0101	MSS25SS0101	MSS26SS0101
Collection Date:		11/05/96	11/05/96	11/05/96
Analyte	Units			
LEAD	mg/kg			
MERCURY	mg/kg			
MOLYBDENUM	mg/kg			
NICKEL	mg/kg			
SELENIUM	mg/kg			
SILVER	mg/kg			
THALLIUM	mg/kg			
VANADIUM	mg/kg			

Note:
 NA - Not Analyzed
 U - Undetected
 = - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Analyte	Units	Transformer Peaker	Oil/Water Separator &	Oil/Water Separator &
		Unit	Sump	Sump
Facility Location:		MSS27	MBH28	MBH28
Boring Number:		Surface	8.5 to 9 ft.	9 to 9.7 ft.
Sample ID:		MSS27SS0101	MBH28BS0101	MBH28BS0102
Collection Date:		11/05/96	10/30/96	10/30/96
VOC				
BENZENE	ug/kg		2 U	2 U
BROMOBENZENE	ug/kg		2 U	2 U
BROMOCHLOROMETHANE	ug/kg		5 U	5 U
BROMODICHLOROMETHANE	ug/kg		2 U	2 U
BROMOFORM	ug/kg		5 U	5 U
BROMOMETHANE	ug/kg		5 U	5 U
n-BUTYLBENZENE	ug/kg		2 U	2 U
SEC-BUTYLBENZENE	ug/kg		2 U	2 U
tert-BUTYLBENZENE	ug/kg		2 U	2 U
CARBON TETRACHLORIDE	ug/kg		5 U	5 U
CHLOROBENZENE	ug/kg		2 U	2 U
CHLOROETHANE	ug/kg		5 U	5 U
CHLOROFORM	ug/kg		2 U	2 U
CHLOROMETHANE	ug/kg		5 U	5 U
2-CHLOROTOLUENE	ug/kg		2 U	2 U
4-CHLOROTOLUENE	ug/kg		2 U	2 U
DIBROMOCHLOROMETHANE	ug/kg		2 U	2 U
1,2-DIBROMO-3-CHLOROPROPANE	ug/kg		10 U	10 U
1,2-DIBROMOETHANE	ug/kg		2 U	2 U
DIBROMOMETHANE	ug/kg		5 U	5 U
1,2-DICHLOROETHANE	ug/kg		2 U	2 U
1,3-DICHLOROETHANE	ug/kg		2 U	2 U
1,4-DICHLOROETHANE	ug/kg		2 U	2 U
DICHLORODIFLUOROMETHANE	ug/kg		5 U	5 U
1,1-DICHLOROETHANE	ug/kg		2 U	2 U
1,2-DICHLOROETHANE	ug/kg		2 U	2 U
1,1-DICHLOROETHENE	ug/kg		2 U	2 U
cis-1,2-DICHLOROETHENE	ug/kg		2 U	2 U
trans-1,2-DICHLOROETHENE	ug/kg		2 U	2 U
1,2-DICHLOROPROPANE	ug/kg		2 U	2 U
1,3-DICHLOROPROPANE	ug/kg		2 U	2 U
2,2-DICHLOROPROPANE	ug/kg		2 U	2 U
1,1-DICHLOROPROPENE	ug/kg			
1,1-DICHLOROPROPENE	ug/kg			
cis-1,3-DICHLOROPROPENE	ug/kg		2 U	2 U
trans-1,3-DICHLOROPROPENE	ug/kg		2 U	2 U
ETHYLBENZENE	ug/kg		2 U	2 U
HEXACHLOROBUTADIENE	ug/kg		2 U	2 U
ISOPROPYLBENZENE (CUMENE)	ug/kg		2 U	2 U
p-ISOPROPYLTOLUENE	ug/kg		2 U	2 U
METHYLENE CHLORIDE	ug/kg		10 U	10 U
NAPHTHALENE	ug/kg		2 U	2 U
n-PROPYLBENZENE	ug/kg		2 U	2 U
STYRENE	ug/kg		2 U	2 U
1,1,1,2-TETRACHLOROETHANE	ug/kg		2 U	2 U
1,1,1,2-TETRACHLOROETHANE	ug/kg		2 U	2 U
TETRACHLOROETHYLENE(PCE)	ug/kg		2 U	2 U
TOLUENE	ug/kg		2 U	3 =
1,2,3-TRICHLOROETHANE	ug/kg		2 U	2 U
1,2,4-TRICHLOROETHANE	ug/kg		2 U	2 U
1,1,1-TRICHLOROETHANE	ug/kg		2 U	2 U
1,1,2-TRICHLOROETHANE	ug/kg		2 U	2 U
TRICHLOROETHYLENE (TCE)	ug/kg		2 U	2 U
TRICHLOROFLUOROMETHANE	ug/kg		5 U	5 U
1,2,3-TRICHLOROPROPANE	ug/kg		2 U	2 U
1,2,4-TRIMETHYLBENZENE	ug/kg		2 U	2 U
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	ug/kg		2 U	2 U
VINYL CHLORIDE	ug/kg		5 U	5 U
O-XYLENE (1,2-DIMETHYLBENZENE)	ug/kg		2 U	2 U
M,P-XYLENE (SUM OF ISOMERS)	ug/kg			
M-XYLENE (1,3-DIMETHYLBENZENE)	ug/kg		2 U	7 =

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Facility Location:	Unit	Transformer Peaker	Oil/Water Separator & Sump	Oil/Water Separator & Sump
Boring Number:	MSS27		MBH28	MBH28
Sample Depth:	Surface		8.5 to 9 ft.	9 to 9.7 ft.
Sample ID:	MSS27SS0101		MBH28BS0101	MBH28BS0102
Collection Date:	11/05/96		10/30/96	10/30/96
Analyte	Units			
1,2-DICHLOROPROPYLENE	ug/kg		2 U	2 U
PETROLEUM HYDROCARBONS				
TPH (C10 to C24)	mg/kg		5 U	5 U
TPH (C25 to C40)	mg/kg		5 U	5 U
HERBICIDES				
2,4,5-T (TRICHLOROPHENOXYACETIC ACID)	ug/kg			
SILVEX (2,4,5-TP)	ug/kg			
2,4-D (DICHLOROPHENOXYACETIC ACID)	ug/kg			
2,4 DB	ug/kg			
DALAPON	ug/kg			
DICAMBA	ug/kg			
DICHLOROPROP	ug/kg			
DINOSEB	ug/kg			
PCBs				
PCB-1016 (AROCHLOR 1016)	ug/kg	50 U		
PCB-1221 (AROCHLOR 1221)	ug/kg	50 U		
PCB-1232 (AROCHLOR 1232)	ug/kg	50 U		
PCB-1242 (AROCHLOR 1242)	ug/kg	50 U		
PCB-1248 (AROCHLOR 1248)	ug/kg	50 U		
PCB-1254 (AROCHLOR 1254)	ug/kg	50 U		
PCB-1260 (AROCHLOR 1260)	ug/kg	50 U		
PESTICIDES/PCBs				
ALDRIN	mg/kg			
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	mg/kg			
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	mg/kg			
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	mg/kg			
gamma-BHC (Lindane)	mg/kg			
CHLORDANE	mg/kg			
p,p'-DDD	mg/kg			
p,p'-DDE	mg/kg			
p,p'-DDT	mg/kg			
DIELDRIN	mg/kg			
ALPHA ENDOSULFAN	mg/kg			
BETA ENDOSULFAN	mg/kg			
ENDOSULFAN SULFATE	mg/kg			
ENDRIN	mg/kg			
ENDRIN ALDEHYDE	mg/kg			
HEPTACHLOR EPOXIDE	mg/kg			
HEPTACHLOR	mg/kg			
METHOXYCHLOR	mg/kg			
TOXAPHENE	mg/kg			
PCB-1016 (AROCHLOR 1016)	mg/kg			
PCB-1221 (AROCHLOR 1221)	mg/kg			
PCB-1232 (AROCHLOR 1232)	mg/kg			
PCB-1242 (AROCHLOR 1242)	mg/kg			
PCB-1248 (AROCHLOR 1248)	mg/kg			
PCB-1254 (AROCHLOR 1254)	mg/kg			
PCB-1260 (AROCHLOR 1260)	mg/kg			
METALS				
ANTIMONY	mg/kg		9 U	9 U
ARSENIC	mg/kg		.9 =	.5 U
BARIUM	mg/kg		23.6 =	28.2 =
BERYLLIUM	mg/kg		.5 U	.5 U
CADMIUM	mg/kg		1 U	1 U
CHROMIUM, TOTAL	mg/kg		2.4 =	2.8 =
COBALT	mg/kg		3 U	3 U
COPPER	mg/kg		2.6 =	4.3 =

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Facility Location:		Transformer Peaker Unit	Oil/Water Separator & Sump	Oil/Water Separator & Sump
Boring Number:		MSS27	MBH28	MBH28
Sample Depth:		Surface	8.5 to 9 ft.	9 to 9.7 ft.
Sample ID:		MSS27SS0101	MBH28BS0101	MBH28BS0102
Collection Date:		11/05/96	10/30/96	10/30/96
Analyte	Units			
LEAD	mg/kg		10 U	10 U
MERCURY	mg/kg		.1 U	.7 =
MOLYBDENUM	mg/kg		3 U	3 U
NICKEL	mg/kg		4 U	4 U
SELENIUM	mg/kg		.5 U	.5 U
SILVER	mg/kg		3.9 =	3.8 =
THALLIUM	mg/kg		.5 =	.5 =
VANADIUM	mg/kg		5.8 =	11.2 =

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Facility Location:		Oil/Water Separator &	Oil/Water Separator &
Boring Number:		Sump	Sump
Sample Depth:		MBH28	MBH29
Sample ID:		9.7 to 10.2 ft.	.5 to 1 ft.
Collection Date:		MBH28BS0122	MBH29BS0101
Collection Date:		10/30/96	10/30/96
Analyte	Units		
VOC			
BENZENE	ug/kg	2 U	2 U
BROMOBENZENE	ug/kg	2 U	2 U
BROMOCHLOROMETHANE	ug/kg	5 U	5 U
BROMODICHLOROMETHANE	ug/kg	2 U	2 U
BROMOFORM	ug/kg	5 U	5 U
BROMOMETHANE	ug/kg	5 U	5 U
n-BUTYLBENZENE	ug/kg	2 U	2 U
SEC-BUTYLBENZENE	ug/kg	2 U	2 U
tert-BUTYLBENZENE	ug/kg	2 U	2 U
CARBON TETRACHLORIDE	ug/kg	5 U	5 U
CHLOROBENZENE	ug/kg	2 U	2 U
CHLOROETHANE	ug/kg	5 U	5 U
CHLOROFORM	ug/kg	2 U	2 U
CHLOROMETHANE	ug/kg	5 U	5 U
2-CHLOROTOLUENE	ug/kg	2 U	2 U
4-CHLOROTOLUENE	ug/kg	2 U	2 U
DIBROMOCHLOROMETHANE	ug/kg	2 U	2 U
1,2-DIBROMO-3-CHLOROPROPANE	ug/kg	10 U	10 U
1,2-DIBROMOETHANE	ug/kg	2 U	2 U
DIBROMOMETHANE	ug/kg	5 U	5 U
1,2-DICHLOROBENZENE	ug/kg	2 U	2 U
1,3-DICHLOROBENZENE	ug/kg	2 U	2 U
1,4-DICHLOROBENZENE	ug/kg	2 U	2 U
DICHLORODIFLUOROMETHANE	ug/kg	5 U	5 U
1,1-DICHLOROETHANE	ug/kg	2 U	2 U
1,2-DICHLOROETHANE	ug/kg	2 U	2 U
1,1-DICHLOROETHENE	ug/kg	2 U	2 U
cis-1,2-DICHLOROETHENE	ug/kg	2 U	2 U
trans-1,2-DICHLOROETHENE	ug/kg	2 U	2 U
1,2-DICHLOROPROPANE	ug/kg	2 U	2 U
1,3-DICHLOROPROPANE	ug/kg	2 U	2 U
2,2-DICHLOROPROPANE	ug/kg	2 U	2 U
1,1-DICHLOROPROPENE	ug/kg		
1,1-DICHLOROPROPENE	ug/kg		
cis-1,3-DICHLOROPROPENE	ug/kg	2 U	2 U
trans-1,3-DICHLOROPROPENE	ug/kg	2 U	2 U
ETHYLBENZENE	ug/kg	2 U	2 U
HEXACHLOROBUTADIENE	ug/kg	2 U	2 U
ISOPROPYLBENZENE (CUMENE)	ug/kg	2 U	2 U
p-ISOPROPYLTOLUENE	ug/kg	2 U	2 U
METHYLENE CHLORIDE	ug/kg	10 U	10 U
NAPHTHALENE	ug/kg	2 U	2 U
n-PROPYLBENZENE	ug/kg	2 U	2 U
STYRENE	ug/kg	2 U	2 U
1,1,1,2-TETRACHLOROETHANE	ug/kg	2 U	2 U
1,1,2,2-TETRACHLOROETHANE	ug/kg	2 U	2 U
TETRACHLOROETHYLENE(PCE)	ug/kg	2 U	2 U
TOLUENE	ug/kg	5 =	2 U
1,2,3-TRICHLOROBENZENE	ug/kg	2 U	2 U
1,2,4-TRICHLOROBENZENE	ug/kg	2 U	2 U
1,1,1-TRICHLOROETHANE	ug/kg	2 U	2 U
1,1,2-TRICHLOROETHANE	ug/kg	2 U	2 U
TRICHLOROETHYLENE (TCE)	ug/kg	2 U	2 U
TRICHLOROFLUOROMETHANE	ug/kg	5 U	5 U
1,2,3-TRICHLOROPROPANE	ug/kg	2 U	2 U
1,2,4-TRIMETHYLBENZENE	ug/kg	2 U	2 U
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	ug/kg	2 U	2 U
VINYL CHLORIDE	ug/kg	5 U	5 U
O-XYLENE (1,2-DIMETHYLBENZENE)	ug/kg	2 U	2 U
M,P-XYLENE (SUM OF ISOMERS)	ug/kg		
M-XYLENE (1,3-DIMETHYLBENZENE)	ug/kg	4 =	2 U

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Facility Location:		Oil/Water Separator & Sump	Oil/Water Separator & Sump
Boring Number:		MBH28	MBH29
Sample Depth:		9.7 to 10.2 ft.	.5 to 1 ft.
Sample ID:		MBH28BS0122	MBH29BS0101
Collection Date:		10/30/96	10/30/96
Analyte	Units		
1,2-DICHLOROPROPYLENE	ug/kg	2 U	2 U
PETROLEUM HYDROCARBONS			
TPH (C10 to C24)	mg/kg	56 =	5 U
TPH (C25 to C40)	mg/kg	160 =	5 U
HERBICIDES			
2,4,5-T (TRICHLOROPHENOXYACETIC ACID)	ug/kg		
SILVEX (2,4,5-TP)	ug/kg		
2,4-D (DICHLOROPHENOXYACETIC ACID)	ug/kg		
2,4 DB	ug/kg		
DALAPON	ug/kg		
DICAMBA	ug/kg		
DICHLOROPROP	ug/kg		
DINOSEB	ug/kg		
PCBs			
PCB-1016 (AROCHLOR 1016)	ug/kg		
PCB-1221 (AROCHLOR 1221)	ug/kg		
PCB-1232 (AROCHLOR 1232)	ug/kg		
PCB-1242 (AROCHLOR 1242)	ug/kg		
PCB-1248 (AROCHLOR 1248)	ug/kg		
PCB-1254 (AROCHLOR 1254)	ug/kg		
PCB-1260 (AROCHLOR 1260)	ug/kg		
PESTICIDES/PCBs			
ALDRIN	mg/kg		
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	mg/kg		
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	mg/kg		
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	mg/kg		
gamma-BHC (Lindane)	mg/kg		
CHLORDANE	mg/kg		
p,p'-DDD	mg/kg		
p,p'-DDE	mg/kg		
p,p'-DDT	mg/kg		
DIELDRIN	mg/kg		
ALPHA ENDOSULFAN	mg/kg		
BETA ENDOSULFAN	mg/kg		
ENDOSULFAN SULFATE	mg/kg		
ENDRIN	mg/kg		
ENDRIN ALDEHYDE	mg/kg		
HEPTACHLOR EPOXIDE	mg/kg		
HEPTACHLOR	mg/kg		
METHOXYCHLOR	mg/kg		
TOXAPHENE	mg/kg		
PCB-1016 (AROCHLOR 1016)	mg/kg		
PCB-1221 (AROCHLOR 1221)	mg/kg		
PCB-1232 (AROCHLOR 1232)	mg/kg		
PCB-1242 (AROCHLOR 1242)	mg/kg		
PCB-1248 (AROCHLOR 1248)	mg/kg		
PCB-1254 (AROCHLOR 1254)	mg/kg		
PCB-1260 (AROCHLOR 1260)	mg/kg		
METALS			
ANTIMONY	mg/kg	9 U	9 U
ARSENIC	mg/kg	.9 =	.8 =
BARIUM	mg/kg	25.3 =	35.8 =
BERYLLIUM	mg/kg	.5 U	.5 U
CADMIUM	mg/kg	1 U	1 U
CHROMIUM, TOTAL	mg/kg	2.7 =	3.6 =
COBALT	mg/kg	3 U	3 U
COPPER	mg/kg	2.1 =	2.8 =

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Facility Location:		Oil/Water Separator & Sump	Oil/Water Separator & Sump
Boring Number:		MBH28	MBH29
Sample Depth:		9.7 to 10.2 ft.	.5 to 1 ft.
Sample ID:		MBH28BS0122	MBH29BS0101
Collection Date:		10/30/96	10/30/96
Analyte	Units		
LEAD	mg/kg	10 U	10 U
MERCURY	mg/kg	.1 U	.1 U
MOLYBDENUM	mg/kg	3 U	3 U
NICKEL	mg/kg	4 U	4 U
SELENIUM	mg/kg	.5 U	.5 U
SILVER	mg/kg	33.3 =	6.3 =
THALLIUM	mg/kg	.6 =	.6 =
VANADIUM	mg/kg	5.7 =	6.5 =

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Analyte	Units	Oil/Water Separator &	Oil/Water Separator &
		Sump	Sump
Facility Location:		MBH29	MBH29
Boring Number:		5 to 5.7 ft.	8.6 to 9.1 ft.
Sample Depth:		MBH29BS0102	MBH29BS0103
Sample ID:		10/30/96	10/30/96
Collection Date:			
VOC			
BENZENE	ug/kg	2 U	2 U
BROMOBENZENE	ug/kg	2 U	2 U
BROMOCHLOROMETHANE	ug/kg	5 U	5 U
BROMODICHLOROMETHANE	ug/kg	2 U	2 U
BROMOFORM	ug/kg	5 U	5 U
BROMOMETHANE	ug/kg	5 U	5 U
n-BUTYLBENZENE	ug/kg	2 U	2 U
SEC-BUTYLBENZENE	ug/kg	2 U	2 U
tert-BUTYLBENZENE	ug/kg	2 U	2 U
CARBON TETRACHLORIDE	ug/kg	5 U	5 U
CHLOROBENZENE	ug/kg	2 U	2 U
CHLOROETHANE	ug/kg	5 U	5 U
CHLOROFORM	ug/kg	2 U	2 U
CHLOROMETHANE	ug/kg	5 U	5 U
2-CHLOROTOLUENE	ug/kg	2 U	2 U
4-CHLOROTOLUENE	ug/kg	2 U	2 U
DIBROMOCHLOROMETHANE	ug/kg	2 U	2 U
1,2-DIBROMO-3-CHLOROPROPANE	ug/kg	10 U	10 U
1,2-DIBROMOETHANE	ug/kg	2 U	2 U
DIBROMOMETHANE	ug/kg	5 U	5 U
1,2-DICHLOROBENZENE	ug/kg	2 U	2 U
1,3-DICHLOROBENZENE	ug/kg	2 U	2 U
1,4-DICHLOROBENZENE	ug/kg	2 U	2 U
DICHLORODIFLUOROMETHANE	ug/kg	5 U	5 U
1,1-DICHLOROETHANE	ug/kg	2 U	2 U
1,2-DICHLOROETHANE	ug/kg	2 U	2 U
1,1-DICHLOROETHENE	ug/kg	2 U	2 U
cis-1,2-DICHLOROETHENE	ug/kg	2 U	2 U
trans-1,2-DICHLOROETHENE	ug/kg	2 U	2 U
1,2-DICHLOROPROPANE	ug/kg	2 U	2 U
1,3-DICHLOROPROPANE	ug/kg	2 U	2 U
2,2-DICHLOROPROPANE	ug/kg	2 U	2 U
1,1-DICHLOROPROPENE	ug/kg		
1,1-DICHLOROPROPENE	ug/kg		
cis-1,3-DICHLOROPROPENE	ug/kg	2 U	2 U
trans-1,3-DICHLOROPROPENE	ug/kg	2 U	2 U
ETHYLBENZENE	ug/kg	2 U	2 U
HEXACHLOROBUTADIENE	ug/kg	2 U	2 U
ISOPROPYLBENZENE (CUMENE)	ug/kg	2 U	2 U
p-ISOPROPYLTOLUENE	ug/kg	2 U	2 U
METHYLENE CHLORIDE	ug/kg	10 U	10 U
NAPHTHALENE	ug/kg	2 U	2 U
n-PROPYLBENZENE	ug/kg	2 U	2 U
STYRENE	ug/kg	2 U	2 U
1,1,1,2-TETRACHLOROETHANE	ug/kg	2 U	2 U
1,1,2,2-TETRACHLOROETHANE	ug/kg	2 U	2 U
TETRACHLOROETHYLENE(PCE)	ug/kg	2 U	2 U
TOLUENE	ug/kg	2 U	2 U
1,2,3-TRICHLOROETHANE	ug/kg	2 U	2 U
1,2,4-TRICHLOROETHANE	ug/kg	2 U	2 U
1,1,1-TRICHLOROETHANE	ug/kg	2 U	2 U
1,1,2-TRICHLOROETHANE	ug/kg	2 U	2 U
TRICHLOROETHYLENE (TCE)	ug/kg	2 U	2 U
TRICHLOROFLUOROMETHANE	ug/kg	5 U	5 U
1,2,3-TRICHLOROPROPANE	ug/kg	2 U	2 U
1,2,4-TRIMETHYLBENZENE	ug/kg	2 U	2 U
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	ug/kg	2 U	2 U
VINYL CHLORIDE	ug/kg	5 U	5 U
O-XYLENE (1,2-DIMETHYLBENZENE)	ug/kg	2 U	2 U
M,P-XYLENE (SUM OF ISOMERS)	ug/kg		
M-XYLENE (1,3-DIMETHYLBENZENE)	ug/kg	2 U	2 U

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Facility Location:		Oil/Water Separator & Sump	Oil/Water Separator & Sump
Boring Number:		MBH29	MBH29
Sample Depth:		5 to 5.7 ft.	8.6 to 9.1 ft.
Sample ID:		MBH29BS0102	MBH29BS0103
Collection Date:		10/30/96	10/30/96
Analyte	Units		
1,2-DICHLOROPROPYLENE	ug/kg	2 U	2 U
PETROLEUM HYDROCARBONS			
TPH (C10 to C24)	mg/kg	5 U	5 U
TPH (C25 to C40)	mg/kg	5 =	5 U
HERBICIDES			
2,4,5-T (TRICHLOROPHENOXYACETIC ACID)	ug/kg		
SILVEX (2,4,5-TP)	ug/kg		
2,4-D (DICHLOROPHENOXYACETIC ACID)	ug/kg		
2,4 DB	ug/kg		
DALAPON	ug/kg		
DICAMBA	ug/kg		
DICHLOROPROP	ug/kg		
DINOSEB	ug/kg		
PCBs			
PCB-1016 (AROCHLOR 1016)	ug/kg		
PCB-1221 (AROCHLOR 1221)	ug/kg		
PCB-1232 (AROCHLOR 1232)	ug/kg		
PCB-1242 (AROCHLOR 1242)	ug/kg		
PCB-1248 (AROCHLOR 1248)	ug/kg		
PCB-1254 (AROCHLOR 1254)	ug/kg		
PCB-1260 (AROCHLOR 1260)	ug/kg		
PESTICIDES/PCBs			
ALDRIN	mg/kg		
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	mg/kg		
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	mg/kg		
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	mg/kg		
gamma-BHC (Lindane)	mg/kg		
CHLORDANE	mg/kg		
p,p'-DDD	mg/kg		
p,p'-DDE	mg/kg		
p,p'-DDT	mg/kg		
DIELDRIN	mg/kg		
ALPHA ENDOSULFAN	mg/kg		
BETA ENDOSULFAN	mg/kg		
ENDOSULFAN SULFATE	mg/kg		
ENDRIN	mg/kg		
ENDRIN ALDEHYDE	mg/kg		
HEPTACHLOR EPOXIDE	mg/kg		
HEPTACHLOR	mg/kg		
METHOXYCHLOR	mg/kg		
TOXAPHENE	mg/kg		
PCB-1016 (AROCHLOR 1016)	mg/kg		
PCB-1221 (AROCHLOR 1221)	mg/kg		
PCB-1232 (AROCHLOR 1232)	mg/kg		
PCB-1242 (AROCHLOR 1242)	mg/kg		
PCB-1248 (AROCHLOR 1248)	mg/kg		
PCB-1254 (AROCHLOR 1254)	mg/kg		
PCB-1260 (AROCHLOR 1260)	mg/kg		
METALS			
ANTIMONY	mg/kg	34.1 =	9 U
ARSENIC	mg/kg	.6 =	.8 =
BARIUM	mg/kg	1 U	37.2 =
BERYLLIUM	mg/kg	.5 U	.5 U
CADMIUM	mg/kg	1 U	1 U
CHROMIUM, TOTAL	mg/kg	3.1 =	2 U
COBALT	mg/kg	3 U	3 U
COPPER	mg/kg	2.1 =	2 U

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

		Oil/Water Separator & Sump	Oil/Water Separator & Sump
Facility Location:		MBH29	MBH29
Boring Number:		5 to 5.7 ft.	8.6 to 9.1 ft.
Sample Depth:		MBH29BS0102	MBH29BS0103
Sample ID:		10/30/96	10/30/96
Collection Date:			
Analyte	Units		
LEAD	mg/kg	10 U	10 U
MERCURY	mg/kg	.1 U	.1 U
MOLYBDENUM	mg/kg	3 U	3 U
NICKEL	mg/kg	4 U	4 U
SELENIUM	mg/kg	.5 U	.5 U
SILVER	mg/kg	4 =	4.1 =
THALLIUM	mg/kg	.1 U	.1 U
VANADIUM	mg/kg	5.6 =	4.2 =

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Facility Location:	Oil/Water Separator &		Peaker Unit	Peaker Unit
	Sump			
Boring Number:	MBH29		MBH30	MBH30
Sample Depth:	10.8 to 11.3 ft.		.5 to 1 ft.	5 to 5.4 ft.
Sample ID:	MBH29BS0104		MBH30BS0101	MBH30BS0102
Collection Date:	10/30/96		10/31/96	10/31/96
Analyte	Units			
VOC				
BENZENE	ug/kg	2 U		
BROMOBENZENE	ug/kg	2 U		
BROMOCHLOROMETHANE	ug/kg	5 U		
BROMODICHLOROMETHANE	ug/kg	2 U		
BROMOFORM	ug/kg	5 U		
BROMOMETHANE	ug/kg	5 U		
n-BUTYLBENZENE	ug/kg	2 U		
SEC-BUTYLBENZENE	ug/kg	2 U		
tert-BUTYLBENZENE	ug/kg	2 U		
CARBON TETRACHLORIDE	ug/kg	5 U		
CHLOROBENZENE	ug/kg	2 U		
CHLOROETHANE	ug/kg	5 U		
CHLOROFORM	ug/kg	2 U		
CHLOROMETHANE	ug/kg	5 U		
2-CHLOROTOLUENE	ug/kg	2 U		
4-CHLOROTOLUENE	ug/kg	2 U		
DIBROMOCHLOROMETHANE	ug/kg	2 U		
1,2-DIBROMO-3-CHLOROPROPANE	ug/kg	10 U		
1,2-DIBROMOETHANE	ug/kg	2 U		
DIBROMOMETHANE	ug/kg	5 U		
1,2-DICHLOROETHANE	ug/kg	2 U		
1,3-DICHLOROETHANE	ug/kg	2 U		
1,4-DICHLOROETHANE	ug/kg	2 U		
DICHLORODIFLUOROMETHANE	ug/kg	5 U		
1,1-DICHLOROETHANE	ug/kg	2 U		
1,2-DICHLOROETHANE	ug/kg	2 U		
1,1-DICHLOROETHENE	ug/kg	2 U		
cis-1,2-DICHLOROETHENE	ug/kg	2 U		
trans-1,2-DICHLOROETHENE	ug/kg	2 U		
1,2-DICHLOROPROPANE	ug/kg	2 U		
1,3-DICHLOROPROPANE	ug/kg	2 U		
2,2-DICHLOROPROPANE	ug/kg	2 U		
1,1-DICHLOROPROPENE	ug/kg			
1,1-DICHLOROPROPENE	ug/kg			
cis-1,3-DICHLOROPROPENE	ug/kg	2 U		
trans-1,3-DICHLOROPROPENE	ug/kg	2 U		
ETHYLBENZENE	ug/kg	2 U		
HEXACHLOROBUTADIENE	ug/kg	2 U		
ISOPROPYLBENZENE (CUMENE)	ug/kg	2 U		
p-ISOPROPYLTOLUENE	ug/kg	2 U		
METHYLENE CHLORIDE	ug/kg	10 U		
NAPHTHALENE	ug/kg	2 U		
n-PROPYLBENZENE	ug/kg	2 U		
STYRENE	ug/kg	2 U		
1,1,1,2-TETRACHLOROETHANE	ug/kg	2 U		
1,1,2,2-TETRACHLOROETHANE	ug/kg	2 U		
TETRACHLOROETHYLENE (PCE)	ug/kg	2 U		
TOLUENE	ug/kg	2 U		
1,2,3-TRICHLOROETHANE	ug/kg	2 U		
1,2,4-TRICHLOROETHANE	ug/kg	2 U		
1,1,1-TRICHLOROETHANE	ug/kg	2 U		
1,1,2-TRICHLOROETHANE	ug/kg	2 U		
TRICHLOROETHYLENE (TCE)	ug/kg	2 U		
TRICHLOROFLUOROMETHANE	ug/kg	5 U		
1,2,3-TRICHLOROPROPANE	ug/kg	2 U		
1,2,4-TRIMETHYLBENZENE	ug/kg	2 U		
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	ug/kg	2 U		
VINYL CHLORIDE	ug/kg	5 U		
O-XYLENE (1,2-DIMETHYLBENZENE)	ug/kg	2 U		
M,P-XYLENE (SUM OF ISOMERS)	ug/kg			
M-XYLENE (1,3-DIMETHYLBENZENE)	ug/kg	2 U		

Note:

NA - Not Analyzed

U - Undetected

= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Facility Location:		Oil/Water Separator &		Peaker Unit	
Boring Number:		Sump		MBH30	
Sample Depth:		MBH29		MBH30	
Sample ID:		10.8 to 11.3 ft.		.5 to 1 ft.	
Collection Date:		MBH29BS0104		MBH30BS0101	
Units		10/30/96		10/31/96	
Analyte		MBH30BS0102		10/31/96	
1,2-DICHLOROPROPYLENE		ug/kg		2 U	
PETROLEUM HYDROCARBONS					
TPH (C10 to C24)		mg/kg		5 U	
TPH (C25 to C40)		mg/kg		5 U	
HERBICIDES					
2,4,5-T (TRICHLOROPHENOXYACETIC ACID)		ug/kg			
SILVEX (2,4,5-TP)		ug/kg			
2,4-D (DICHLOROPHENOXYACETIC ACID)		ug/kg			
2,4 DB		ug/kg			
DALAPON		ug/kg			
DICAMBA		ug/kg			
DICHLOROPROP		ug/kg			
DINOSEB		ug/kg			
PCBs					
PCB-1016 (AROCHLOR 1016)		ug/kg			
PCB-1221 (AROCHLOR 1221)		ug/kg			
PCB-1232 (AROCHLOR 1232)		ug/kg			
PCB-1242 (AROCHLOR 1242)		ug/kg			
PCB-1248 (AROCHLOR 1248)		ug/kg			
PCB-1254 (AROCHLOR 1254)		ug/kg			
PCB-1260 (AROCHLOR 1260)		ug/kg			
PESTICIDES/PCBs					
ALDRIN		mg/kg			
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)		mg/kg			
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)		mg/kg			
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)		mg/kg			
gamma-BHC (Lindane)		mg/kg			
CHLORDANE		mg/kg			
p,p'-DDD		mg/kg			
p,p'-DDE		mg/kg			
p,p'-DDT		mg/kg			
DIELDRIN		mg/kg			
ALPHA ENDOSULFAN		mg/kg			
BETA ENDOSULFAN		mg/kg			
ENDOSULFAN SULFATE		mg/kg			
ENDRIN		mg/kg			
ENDRIN ALDEHYDE		mg/kg			
HEPTACHLOR EPOXIDE		mg/kg			
HEPTACHLOR		mg/kg			
METHOXYCHLOR		mg/kg			
TOXAPHENE		mg/kg			
PCB-1016 (AROCHLOR 1016)		mg/kg			
PCB-1221 (AROCHLOR 1221)		mg/kg			
PCB-1232 (AROCHLOR 1232)		mg/kg			
PCB-1242 (AROCHLOR 1242)		mg/kg			
PCB-1248 (AROCHLOR 1248)		mg/kg			
PCB-1254 (AROCHLOR 1254)		mg/kg			
PCB-1260 (AROCHLOR 1260)		mg/kg			
METALS					
ANTIMONY		mg/kg		20.4 =	
ARSENIC		mg/kg		9 U	
BARIUM		mg/kg		2.06 =	
BERYLLIUM		mg/kg		1 U	
CADMIUM		mg/kg		62 =	
CHROMIUM, TOTAL		mg/kg		.5 U	
COBALT		mg/kg		.5 U	
COPPER		mg/kg		1 U	
				7 =	
				3 U	
				5.4 =	
				3 =	

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

	Facility Location:	Oil/Water Separator &		
		Sump	Peaker Unit	Peaker Unit
	Boring Number:	MBH29	MBH30	MBH30
	Sample Depth:	10.8 to 11.3 ft.	.5 to 1 ft.	5 to 5.4 ft.
	Sample ID:	MBH29BS0104	MBH30BS0101	MBH30BS0102
	Collection Date:	10/30/96	10/31/96	10/31/96
Analyte	Units			
LEAD	mg/kg	10 U	10 U	10 U
MERCURY	mg/kg	.1 U	.08 U	.08 U
MOLYBDENUM	mg/kg	3 U	3 U	3 U
NICKEL	mg/kg	4 U	3.3 =	4.3 =
SELENIUM	mg/kg	.5 U	.4 U	.4 U
SILVER	mg/kg	3.4 =	2 U	2 U
THALLIUM	mg/kg	.1 U	.44 U	.44 U
VANADIUM	mg/kg	8.6 =	19 =	15 =

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

	Facility Location:	Peaker Unit	Peaker Unit	Peaker Unit Pump Area
	Boring Number:	MBH31	MBH31	MBH32
	Sample Depth:	.5 to 1 ft.	5 to 5.4 ft.	4.5 to 5.1 ft.
	Sample ID:	MBH31BS0101	MBH31BS0102	MBH32BS0102
	Collection Date:	10/31/96	10/31/96	11/05/96
Analyte	Units			
VOC				
BENZENE	ug/kg			
BROMOBENZENE	ug/kg			
BROMOCHLOROMETHANE	ug/kg			
BROMODICHLOROMETHANE	ug/kg			
BROMOFORM	ug/kg			
BROMOMETHANE	ug/kg			
n-BUTYLBENZENE	ug/kg			
SEC-BUTYLBENZENE	ug/kg			
tert-BUTYLBENZENE	ug/kg			
CARBON TETRACHLORIDE	ug/kg			
CHLOROBENZENE	ug/kg			
CHLOROETHANE	ug/kg			
CHLOROFORM	ug/kg			
CHLOROMETHANE	ug/kg			
2-CHLOROTOLUENE	ug/kg			
4-CHLOROTOLUENE	ug/kg			
DIBROMOCHLOROMETHANE	ug/kg			
1,2-DIBROMO-3-CHLOROPROPANE	ug/kg			
1,2-DIBROMOETHANE	ug/kg			
DIBROMOMETHANE	ug/kg			
1,2-DICHLOROBENZENE	ug/kg			
1,3-DICHLOROBENZENE	ug/kg			
1,4-DICHLOROBENZENE	ug/kg			
DICHLORODIFLUOROMETHANE	ug/kg			
1,1-DICHLOROETHANE	ug/kg			
1,2-DICHLOROETHANE	ug/kg			
1,1-DICHLOROETHENE	ug/kg			
cis-1,2-DICHLOROETHENE	ug/kg			
trans-1,2-DICHLOROETHENE	ug/kg			
1,2-DICHLOROPROPANE	ug/kg			
1,3-DICHLOROPROPANE	ug/kg			
2,2-DICHLOROPROPANE	ug/kg			
1,1-DICHLOROPROPENE	ug/kg			
1,1-DICHLOROPROPENE	ug/kg			
cis-1,3-DICHLOROPROPENE	ug/kg			
trans-1,3-DICHLOROPROPENE	ug/kg			
ETHYLBENZENE	ug/kg			
HEXACHLOROBUTADIENE	ug/kg			
ISOPROPYLBENZENE (CUMENE)	ug/kg			
p-ISOPROPYLTOLUENE	ug/kg			
METHYLENE CHLORIDE	ug/kg			
NAPHTHALENE	ug/kg			
n-PROPYLBENZENE	ug/kg			
STYRENE	ug/kg			
1,1,1,2-TETRACHLOROETHANE	ug/kg			
1,1,2,2-TETRACHLOROETHANE	ug/kg			
TETRACHLOROETHYLENE(PCE)	ug/kg			
TOLUENE	ug/kg			
1,2,3-TRICHLOROBENZENE	ug/kg			
1,2,4-TRICHLOROBENZENE	ug/kg			
1,1,1-TRICHLOROETHANE	ug/kg			
1,1,2-TRICHLOROETHANE	ug/kg			
TRICHLOROETHYLENE (TCE)	ug/kg			
TRICHLOROFLUOROMETHANE	ug/kg			
1,2,3-TRICHLOROPROPANE	ug/kg			
1,2,4-TRIMETHYLBENZENE	ug/kg			
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	ug/kg			
VINYL CHLORIDE	ug/kg			
O-XYLENE (1,2-DIMETHYLBENZENE)	ug/kg			
M,P-XYLENE (SUM OF ISOMERS)	ug/kg			
M-XYLENE (1,3-DIMETHYLBENZENE)	ug/kg			

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Facility Location:		Peaker Unit	Peaker Unit	Peaker Unit Pump Area
Boring Number:		MBH31	MBH31	MBH32
Sample Depth:		.5 to 1 ft.	5 to 5.4 ft.	4.5 to 5.1 ft.
Sample ID:		MBH31BS0101	MBH31BS0102	MBH32BS0102
Collection Date:		10/31/96	10/31/96	11/05/96
Analyte	Units			
1,2-DICHLOROPROPYLENE	ug/kg			
PETROLEUM HYDROCARBONS				
TPH (C10 to C24)	mg/kg	8.7 =	5.3 =	5 U
TPH (C25 to C40)	mg/kg	5 U	5 U	5 U
HERBICIDES				
2,4,5-T (TRICHLOROPHENOXYACETIC ACID)	ug/kg			
SILVEX (2,4,5-TP)	ug/kg			
2,4-D (DICHLOROPHENOXYACETIC ACID)	ug/kg			
2,4 DB	ug/kg			
DALAPON	ug/kg			
DICAMBA	ug/kg			
DICHLOROPROP	ug/kg			
DINoseb	ug/kg			
PCBs				
PCB-1016 (AROCHLOR 1016)	ug/kg			
PCB-1221 (AROCHLOR 1221)	ug/kg			
PCB-1232 (AROCHLOR 1232)	ug/kg			
PCB-1242 (AROCHLOR 1242)	ug/kg			
PCB-1248 (AROCHLOR 1248)	ug/kg			
PCB-1254 (AROCHLOR 1254)	ug/kg			
PCB-1260 (AROCHLOR 1260)	ug/kg			
PESTICIDES/PCBs				
ALDRIN	mg/kg			
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	mg/kg			
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	mg/kg			
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	mg/kg			
gamma-BHC (Lindane)	mg/kg			
CHLORDANE	mg/kg			
p,p'-DDD	mg/kg			
p,p'-DDE	mg/kg			
p,p'-DDT	mg/kg			
DIELDRIN	mg/kg			
ALPHA ENDOSULFAN	mg/kg			
BETA ENDOSULFAN	mg/kg			
ENDOSULFAN SULFATE	mg/kg			
ENDRIN	mg/kg			
ENDRIN ALDEHYDE	mg/kg			
HEPTACHLOR EPOXIDE	mg/kg			
HEPTACHLOR	mg/kg			
METHOXYCHLOR	mg/kg			
TOXAPHENE	mg/kg			
PCB-1016 (AROCHLOR 1016)	mg/kg			
PCB-1221 (AROCHLOR 1221)	mg/kg			
PCB-1232 (AROCHLOR 1232)	mg/kg			
PCB-1242 (AROCHLOR 1242)	mg/kg			
PCB-1248 (AROCHLOR 1248)	mg/kg			
PCB-1254 (AROCHLOR 1254)	mg/kg			
PCB-1260 (AROCHLOR 1260)	mg/kg			
METALS				
ANTIMONY	mg/kg	9 U	9 U	
ARSENIC	mg/kg	2.36 =	1.1 =	
BARIUM	mg/kg	86.8 =	25.9 =	
BERYLLIUM	mg/kg	.5 U	.5 U	
CADMIUM	mg/kg	1 U	1 U	
CHROMIUM, TOTAL	mg/kg	7.6 =	2.5 =	
COBALT	mg/kg	3 U	3 U	
COPPER	mg/kg	7.1 =	2.3 =	

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Facility Location:		Peaker Unit	Peaker Unit	Peaker Unit Pump Area
Boring Number:		MBH31	MBH31	MBH32
Sample Depth:		.5 to 1 ft.	5 to 5.4 ft.	4.5 to 5.1 ft.
Sample ID:		MBH31BS0101	MBH31BS0102	MBH32BS0102
Collection Date:		10/31/96	10/31/96	11/05/96
Analyte	Units			
LEAD	mg/kg	10 U	10 U	
MERCURY	mg/kg	.08 U	.08 U	
MOLYBDENUM	mg/kg	3 U	3 U	
NICKEL	mg/kg	10.8 =	4 U	
SELENIUM	mg/kg	.4 U	.4 U	
SILVER	mg/kg	2 U	2 U	
THALLIUM	mg/kg	.44 U	.44 U	
VANADIUM	mg/kg	15.7 =	5.7 =	

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Facility Location:		Peaker Unit Pump Area	Peaker Unit Pump Area
Boring Number:		MBH32	MBH33
Sample Depth:		7 to 7.7 ft.	4.9 to 5.1 ft.
Sample ID:		MBH32BS0103	MBH33BS0101
Collection Date:		11/05/96	11/05/96
Analyte	Units		
VOC			
BENZENE	ug/kg		
BROMOBENZENE	ug/kg		
BROMOCHLOROMETHANE	ug/kg		
BROMODICHLOROMETHANE	ug/kg		
BROMOFORM	ug/kg		
BROMOMETHANE	ug/kg		
n-BUTYLBENZENE	ug/kg		
SEC-BUTYLBENZENE	ug/kg		
tert-BUTYLBENZENE	ug/kg		
CARBON TETRACHLORIDE	ug/kg		
CHLOROBENZENE	ug/kg		
CHLOROETHANE	ug/kg		
CHLOROFORM	ug/kg		
CHLOROMETHANE	ug/kg		
2-CHLOROTOLUENE	ug/kg		
4-CHLOROTOLUENE	ug/kg		
DIBROMOCHLOROMETHANE	ug/kg		
1,2-DIBROMO-3-CHLOROPROPANE	ug/kg		
1,2-DIBROMOETHANE	ug/kg		
DIBROMOMETHANE	ug/kg		
1,2-DICHLOROBENZENE	ug/kg		
1,3-DICHLOROBENZENE	ug/kg		
1,4-DICHLOROBENZENE	ug/kg		
DICHLORODIFLUOROMETHANE	ug/kg		
1,1-DICHLOROETHANE	ug/kg		
1,2-DICHLOROETHANE	ug/kg		
1,1-DICHLOROETHENE	ug/kg		
cis-1,2-DICHLOROETHENE	ug/kg		
trans-1,2-DICHLOROETHENE	ug/kg		
1,2-DICHLOROPROPANE	ug/kg		
1,3-DICHLOROPROPANE	ug/kg		
2,2-DICHLOROPROPANE	ug/kg		
1,1-DICHLOROPROPENE	ug/kg		
1,1-DICHLOROPROPENE	ug/kg		
cis-1,3-DICHLOROPROPENE	ug/kg		
trans-1,3-DICHLOROPROPENE	ug/kg		
ETHYLBENZENE	ug/kg		
HEXACHLOROBUTADIENE	ug/kg		
ISOPROPYLBENZENE (CUMENE)	ug/kg		
p-ISOPROPYLTOLUENE	ug/kg		
METHYLENE CHLORIDE	ug/kg		
NAPHTHALENE	ug/kg		
n-PROPYLBENZENE	ug/kg		
STYRENE	ug/kg		
1,1,1,2-TETRACHLOROETHANE	ug/kg		
1,1,2,2-TETRACHLOROETHANE	ug/kg		
TETRACHLOROETHYLENE(PCE)	ug/kg		
TOLUENE	ug/kg		
1,2,3-TRICHLOROBENZENE	ug/kg		
1,2,4-TRICHLOROBENZENE	ug/kg		
1,1,1-TRICHLOROETHANE	ug/kg		
1,1,2-TRICHLOROETHANE	ug/kg		
TRICHLOROETHYLENE (TCE)	ug/kg		
TRICHLOROFUOROMETHANE	ug/kg		
1,2,3-TRICHLOROPROPANE	ug/kg		
1,2,4-TRIMETHYLBENZENE	ug/kg		
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	ug/kg		
VINYL CHLORIDE	ug/kg		
O-XYLENE (1,2-DIMETHYLBENZENE)	ug/kg		
M,P-XYLENE (SUM OF ISOMERS)	ug/kg		
M-XYLENE (1,3-DIMETHYLBENZENE)	ug/kg		

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Facility Location:	Peaker Unit Pump Area	Peaker Unit Pump Area
Boring Number:	MBH32	MBH33
Sample Depth:	7 to 7.7 ft.	4.9 to 5.1 ft.
Sample ID:	MBH32BS0103	MBH33BS0101
Collection Date:	11/05/96	11/05/96
Analyte	Units	
1,2-DICHLOROPROPYLENE	ug/kg	
PETROLEUM HYDROCARBONS		
TPH (C10 to C24)	mg/kg	5 U
TPH (C25 to C40)	mg/kg	5 U
HERBICIDES		
2,4,5-T (TRICHLOROPHENOXYACETIC ACID)	ug/kg	
SILVEX (2,4,5-TP)	ug/kg	
2,4-D (DICHLOROPHENOXYACETIC ACID)	ug/kg	
2,4 DB	ug/kg	
DALAPON	ug/kg	
DICAMBA	ug/kg	
DICHLOROPROP	ug/kg	
DINOSEB	ug/kg	
PCBs		
PCB-1016 (AROCHLOR 1016)	ug/kg	
PCB-1221 (AROCHLOR 1221)	ug/kg	
PCB-1232 (AROCHLOR 1232)	ug/kg	
PCB-1242 (AROCHLOR 1242)	ug/kg	
PCB-1248 (AROCHLOR 1248)	ug/kg	
PCB-1254 (AROCHLOR 1254)	ug/kg	
PCB-1260 (AROCHLOR 1260)	ug/kg	
PESTICIDES/PCBs		
ALDRIN	mg/kg	
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	mg/kg	
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	mg/kg	
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	mg/kg	
gamma-BHC (Lindane)	mg/kg	
CHLORDANE	mg/kg	
p,p'-DDD	mg/kg	
p,p'-DDE	mg/kg	
p,p'-DDT	mg/kg	
DIELDRIN	mg/kg	
ALPHA ENDOSULFAN	mg/kg	
BETA ENDOSULFAN	mg/kg	
ENDOSULFAN SULFATE	mg/kg	
ENDRIN	mg/kg	
ENDRIN ALDEHYDE	mg/kg	
HEPTACHLOR EPOXIDE	mg/kg	
HEPTACHLOR	mg/kg	
METHOXYCHLOR	mg/kg	
TOXAPHENE	mg/kg	
PCB-1016 (AROCHLOR 1016)	mg/kg	
PCB-1221 (AROCHLOR 1221)	mg/kg	
PCB-1232 (AROCHLOR 1232)	mg/kg	
PCB-1242 (AROCHLOR 1242)	mg/kg	
PCB-1248 (AROCHLOR 1248)	mg/kg	
PCB-1254 (AROCHLOR 1254)	mg/kg	
PCB-1260 (AROCHLOR 1260)	mg/kg	
METALS		
ANTIMONY	mg/kg	
ARSENIC	mg/kg	
BARIUM	mg/kg	
BERYLLIUM	mg/kg	
CADMIUM	mg/kg	
CHROMIUM, TOTAL	mg/kg	
COBALT	mg/kg	
COPPER	mg/kg	

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Facility Location:		Peaker Unit Pump Area	Peaker Unit Pump Area
Boring Number:		MBH32	MBH33
Sample Depth:		7 to 7.7 ft.	4.9 to 5.1 ft.
Sample ID:		MBH32BS0103	MBH33BS0101
Collection Date:		11/05/96	11/05/96
Analyte	Units		
LEAD	mg/kg		
MERCURY	mg/kg		
MOLYBDENUM	mg/kg		
NICKEL	mg/kg		
SELENIUM	mg/kg		
SILVER	mg/kg		
THALLIUM	mg/kg		
VANADIUM	mg/kg		

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

	Facility Location:	Peaker Unit Pump Area	Switchyard	Switchyard
	Boring Number:	MBH33	MBH34	MBH34
	Sample Depth:	8.9 to 9.2 ft.	.5 to 1 ft.	2.5 to 3 ft.
	Sample ID:	MBH33BS0102	MBH34BS0101	MBH34BS0102
	Collection Date:	11/05/96	11/01/96	11/01/96
Analyte	Units			
VOC				
BENZENE	ug/kg			
BROMOBENZENE	ug/kg			
BROMOCHLOROMETHANE	ug/kg			
BROMODICHLOROMETHANE	ug/kg			
BROMOFORM	ug/kg			
BROMOMETHANE	ug/kg			
n-BUTYLBENZENE	ug/kg			
SEC-BUTYLBENZENE	ug/kg			
tert-BUTYLBENZENE	ug/kg			
CARBON TETRACHLORIDE	ug/kg			
CHLOROBENZENE	ug/kg			
CHLOROETHANE	ug/kg			
CHLOROFORM	ug/kg			
CHLOROMETHANE	ug/kg			
2-CHLOROTOLUENE	ug/kg			
4-CHLOROTOLUENE	ug/kg			
DIBROMOCHLOROMETHANE	ug/kg			
1,2-DIBROMO-3-CHLOROPROPANE	ug/kg			
1,2-DIBROMOETHANE	ug/kg			
DIBROMOMETHANE	ug/kg			
1,2-DICHLOROBENZENE	ug/kg			
1,3-DICHLOROBENZENE	ug/kg			
1,4-DICHLOROBENZENE	ug/kg			
DICHLORODIFLUOROMETHANE	ug/kg			
1,1-DICHLOROETHANE	ug/kg			
1,2-DICHLOROETHANE	ug/kg			
1,1-DICHLOROETHENE	ug/kg			
cis-1,2-DICHLOROETHENE	ug/kg			
trans-1,2-DICHLOROETHENE	ug/kg			
1,2-DICHLOROPROPANE	ug/kg			
1,3-DICHLOROPROPANE	ug/kg			
2,2-DICHLOROPROPANE	ug/kg			
1,1-DICHLOROPROPENE	ug/kg			
1,1-DICHLOROPROPENE	ug/kg			
cis-1,3-DICHLOROPROPENE	ug/kg			
trans-1,3-DICHLOROPROPENE	ug/kg			
ETHYLBENZENE	ug/kg			
HEXACHLOROBUTADIENE	ug/kg			
ISOPROPYLBENZENE (CUMENE)	ug/kg			
p-ISOPROPYLTOLUENE	ug/kg			
METHYLENE CHLORIDE	ug/kg			
NAPHTHALENE	ug/kg			
n-PROPYLBENZENE	ug/kg			
STYRENE	ug/kg			
1,1,1,2-TETRACHLOROETHANE	ug/kg			
1,1,2,2-TETRACHLOROETHANE	ug/kg			
TETRACHLOROETHYLENE (PCE)	ug/kg			
TOLUENE	ug/kg			
1,2,3-TRICHLOROBENZENE	ug/kg			
1,2,4-TRICHLOROBENZENE	ug/kg			
1,1,1-TRICHLOROETHANE	ug/kg			
1,1,2-TRICHLOROETHANE	ug/kg			
TRICHLOROETHYLENE (TCE)	ug/kg			
TRICHLOROFLUOROMETHANE	ug/kg			
1,2,3-TRICHLOROPROPANE	ug/kg			
1,2,4-TRIMETHYLBENZENE	ug/kg			
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	ug/kg			
VINYL CHLORIDE	ug/kg			
O-XYLENE (1,2-DIMETHYLBENZENE)	ug/kg			
M,P-XYLENE (SUM OF ISOMERS)	ug/kg			
M-XYLENE (1,3-DIMETHYLBENZENE)	ug/kg			

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Facility Location:	Peaker Unit Pump Area	Switchyard	Switchyard
Boring Number:	MBH33	MBH34	MBH34
Sample Depth:	8.9 to 9.2 ft.	.5 to 1 ft.	2.5 to 3 ft.
Sample ID:	MBH33BS0102	MBH34BS0101	MBH34BS0102
Collection Date:	11/05/96	11/01/96	11/01/96
Analyte	Units		
1,2-DICHLOROPROPYLENE	ug/kg		
PETROLEUM HYDROCARBONS			
TPH (C10 to C24)	mg/kg	722 =	5 U
TPH (C25 to C40)	mg/kg	5 U	5 U
HERBICIDES			
2,4,5-T (TRICHLOROPHOXYACETIC ACID)	ug/kg		
SILVEX (2,4,5-TP)	ug/kg		
2,4-D (DICHLOROPHOXYACETIC ACID)	ug/kg		
2,4 DB	ug/kg		
DALAPON	ug/kg		
DICAMBA	ug/kg		
DICHLOROPROP	ug/kg		
DINOSEB	ug/kg		
PCBs			
PCB-1016 (AROCHLOR 1016)	ug/kg	50 U	50 U
PCB-1221 (AROCHLOR 1221)	ug/kg	50 U	50 U
PCB-1232 (AROCHLOR 1232)	ug/kg	50 U	50 U
PCB-1242 (AROCHLOR 1242)	ug/kg	50 U	50 U
PCB-1248 (AROCHLOR 1248)	ug/kg	50 U	50 U
PCB-1254 (AROCHLOR 1254)	ug/kg	50 U	50 U
PCB-1260 (AROCHLOR 1260)	ug/kg	50 U	50 U
PESTICIDES/PCBs			
ALDRIN	mg/kg		
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	mg/kg		
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	mg/kg		
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	mg/kg		
gamma-BHC (Lindane)	mg/kg		
CHLORDANE	mg/kg		
p,p'-DDD	mg/kg		
p,p'-DDE	mg/kg		
p,p'-DDT	mg/kg		
DIELDRIN	mg/kg		
ALPHA ENDOSULFAN	mg/kg		
BETA ENDOSULFAN	mg/kg		
ENDOSULFAN SULFATE	mg/kg		
ENDRIN	mg/kg		
ENDRIN ALDEHYDE	mg/kg		
HEPTACHLOR EPOXIDE	mg/kg		
HEPTACHLOR	mg/kg		
METHOXYCHLOR	mg/kg		
TOXAPHENE	mg/kg		
PCB-1016 (AROCHLOR 1016)	mg/kg		
PCB-1221 (AROCHLOR 1221)	mg/kg		
PCB-1232 (AROCHLOR 1232)	mg/kg		
PCB-1242 (AROCHLOR 1242)	mg/kg		
PCB-1248 (AROCHLOR 1248)	mg/kg		
PCB-1254 (AROCHLOR 1254)	mg/kg		
PCB-1260 (AROCHLOR 1260)	mg/kg		
METALS			
ANTIMONY	mg/kg		
ARSENIC	mg/kg		
BARIUM	mg/kg		
BERYLLIUM	mg/kg		
CADMIUM	mg/kg		
CHROMIUM, TOTAL	mg/kg		
COBALT	mg/kg		
COPPER	mg/kg		

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

	Facility Location:	Peaker Unit Pump Area	Switchyard	Switchyard
	Boring Number:	MBH33	MBH34	MBH34
	Sample Depth:	8.9 to 9.2 ft.	.5 to 1 ft.	2.5 to 3 ft.
	Sample ID:	MBH33BS0102	MBH34BS0101	MBH34BS0102
	Collection Date:	11/05/96	11/01/96	11/01/96
Analyte	Units			
LEAD	mg/kg			
MERCURY	mg/kg			
MOLYBDENUM	mg/kg			
NICKEL	mg/kg			
SELENIUM	mg/kg			
SILVER	mg/kg			
THALLIUM	mg/kg			
VANADIUM	mg/kg			

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Facility Location:	Switchyard	Switchyard	Switchyard
Boring Number:	MBH35	MBH35	MBH35
Sample Depth:	.5 to 1.5 ft.	1 to 1.5 ft.	2.5 to 3.5 ft.
Sample ID:	MBH35BS0101	MBH35BS0121	MBH35BS0102
Collection Date:	10/31/96	10/31/96	10/31/96
Analyte	Units		
VOC			
BENZENE	ug/kg		
BROMOBENZENE	ug/kg		
BROMOCHLOROMETHANE	ug/kg		
BROMODICHLOROMETHANE	ug/kg		
BROMOFORM	ug/kg		
BROMOMETHANE	ug/kg		
n-BUTYLBENZENE	ug/kg		
SEC-BUTYLBENZENE	ug/kg		
tert-BUTYLBENZENE	ug/kg		
CARBON TETRACHLORIDE	ug/kg		
CHLOROBENZENE	ug/kg		
CHLOROETHANE	ug/kg		
CHLOROFORM	ug/kg		
CHLOROMETHANE	ug/kg		
2-CHLOROTOLUENE	ug/kg		
4-CHLOROTOLUENE	ug/kg		
DIBROMOCHLOROMETHANE	ug/kg		
1,2-DIBROMO-3-CHLOROPROPANE	ug/kg		
1,2-DIBROMOETHANE	ug/kg		
DIBROMOMETHANE	ug/kg		
1,2-DICHLOROBENZENE	ug/kg		
1,3-DICHLOROBENZENE	ug/kg		
1,4-DICHLOROBENZENE	ug/kg		
DICHLORODIFLUOROMETHANE	ug/kg		
1,1-DICHLOROETHANE	ug/kg		
1,2-DICHLOROETHANE	ug/kg		
1,1-DICHLOROETHENE	ug/kg		
cis-1,2-DICHLOROETHENE	ug/kg		
trans-1,2-DICHLOROETHENE	ug/kg		
1,2-DICHLOROPROPANE	ug/kg		
1,3-DICHLOROPROPANE	ug/kg		
2,2-DICHLOROPROPANE	ug/kg		
1,1-DICHLOROPROPENE	ug/kg		
1,1-DICHLOROPROPENE	ug/kg		
cis-1,3-DICHLOROPROPENE	ug/kg		
trans-1,3-DICHLOROPROPENE	ug/kg		
ETHYLBENZENE	ug/kg		
HEXACHLOROBUTADIENE	ug/kg		
ISOPROPYLBENZENE (CUMENE)	ug/kg		
p-ISOPROPYLTOLUENE	ug/kg		
METHYLENE CHLORIDE	ug/kg		
NAPHTHALENE	ug/kg		
n-PROPYLBENZENE	ug/kg		
STYRENE	ug/kg		
1,1,1,2-TETRACHLOROETHANE	ug/kg		
1,1,2,2-TETRACHLOROETHANE	ug/kg		
TETRACHLOROETHYLENE (PCE)	ug/kg		
TOLUENE	ug/kg		
1,2,3-TRICHLOROBENZENE	ug/kg		
1,2,4-TRICHLOROBENZENE	ug/kg		
1,1,1-TRICHLOROETHANE	ug/kg		
1,1,2-TRICHLOROETHANE	ug/kg		
TRICHLOROETHYLENE (TCE)	ug/kg		
TRICHLOROFLUOROMETHANE	ug/kg		
1,2,3-TRICHLOROPROPANE	ug/kg		
1,2,4-TRIMETHYLBENZENE	ug/kg		
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	ug/kg		
VINYL CHLORIDE	ug/kg		
O-XYLENE (1,2-DIMETHYLBENZENE)	ug/kg		
M,P-XYLENE (SUM OF ISOMERS)	ug/kg		
M-XYLENE (1,3-DIMETHYLBENZENE)	ug/kg		

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Facility Location:		Switchyard	Switchyard	Switchyard
Boring Number:		MBH35	MBH35	MBH35
Sample Depth:		.5 to 1.5 ft.	1 to 1.5 ft.	2.5 to 3.5 ft.
Sample ID:		MBH35BS0101	MBH35BS0121	MBH35BS0102
Collection Date:		10/31/96	10/31/96	10/31/96
Analyte	Units			
1,2-DICHLOROPROPYLENE	ug/kg			
PETROLEUM HYDROCARBONS				
TPH (C10 to C24)	mg/kg	5 U	5 U	5 U
TPH (C25 to C40)	mg/kg	5 U	5 U	5 U
HERBICIDES				
2,4,5-T (TRICHLOROPHENOXYACETIC ACID)	ug/kg			
SILVEX (2,4,5-TP)	ug/kg			
2,4-D (DICHLOROPHENOXYACETIC ACID)	ug/kg			
2,4 DB	ug/kg			
DALAPON	ug/kg			
DICAMBA	ug/kg			
DICHLOROPROP	ug/kg			
DINoseb	ug/kg			
PCBs				
PCB-1016 (AROCHLOR 1016)	ug/kg	50 U	50 U	50 U
PCB-1221 (AROCHLOR 1221)	ug/kg	50 U	50 U	50 U
PCB-1232 (AROCHLOR 1232)	ug/kg	50 U	50 U	50 U
PCB-1242 (AROCHLOR 1242)	ug/kg	50 U	50 U	50 U
PCB-1248 (AROCHLOR 1248)	ug/kg	50 U	50 U	50 U
PCB-1254 (AROCHLOR 1254)	ug/kg	50 U	50 U	50 U
PCB-1260 (AROCHLOR 1260)	ug/kg	50 U	50 U	50 U
PESTICIDES/PCBs				
ALDRIN	mg/kg			
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	mg/kg			
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	mg/kg			
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	mg/kg			
gamma-BHC (Lindane)	mg/kg			
CHLORDANE	mg/kg			
p,p'-DDD	mg/kg			
p,p'-DDE	mg/kg			
p,p'-DDT	mg/kg			
DIELDRIN	mg/kg			
ALPHA ENDOSULFAN	mg/kg			
BETA ENDOSULFAN	mg/kg			
ENDOSULFAN SULFATE	mg/kg			
ENDRIN	mg/kg			
ENDRIN ALDEHYDE	mg/kg			
HEPTACHLOR EPOXIDE	mg/kg			
HEPTACHLOR	mg/kg			
METHOXYCHLOR	mg/kg			
TOXAPHENE	mg/kg			
PCB-1016 (AROCHLOR 1016)	mg/kg			
PCB-1221 (AROCHLOR 1221)	mg/kg			
PCB-1232 (AROCHLOR 1232)	mg/kg			
PCB-1242 (AROCHLOR 1242)	mg/kg			
PCB-1248 (AROCHLOR 1248)	mg/kg			
PCB-1254 (AROCHLOR 1254)	mg/kg			
PCB-1260 (AROCHLOR 1260)	mg/kg			
METALS				
ANTIMONY	mg/kg			
ARSENIC	mg/kg			
BARIUM	mg/kg			
BERYLLIUM	mg/kg			
CADMIUM	mg/kg			
CHROMIUM, TOTAL	mg/kg			
COBALT	mg/kg			
COPPER	mg/kg			

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Facility Location:		Switchyard	Switchyard	Switchyard
Boring Number:		MBH35	MBH35	MBH35
Sample Depth:		.5 to 1.5 ft.	1 to 1.5 ft.	2.5 to 3.5 ft.
Sample ID:		MBH35BS0101	MBH35BS0121	MBH35BS0102
Collection Date:		10/31/96	10/31/96	10/31/96
Analyte	Units			
LEAD	mg/kg			
MERCURY	mg/kg			
MOLYBDENUM	mg/kg			
NICKEL	mg/kg			
SELENIUM	mg/kg			
SILVER	mg/kg			
THALLIUM	mg/kg			
VANADIUM	mg/kg			

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Facility Location:	Switchyard	Switchyard	Switchyard
Boring Number:	MBH36	MBH36	MBH37
Sample Depth:	.5 to 1 ft.	3.5 to 4 ft.	.5 to 1 ft.
Sample ID:	MBH36BS0101	MBH36BS0102	MBH37BS0101
Collection Date:	11/01/96	11/01/96	11/01/96
Analyte	Units		
VOC			
BENZENE	ug/kg		
BROMOBENZENE	ug/kg		
BROMOCHLOROMETHANE	ug/kg		
BROMODICHLOROMETHANE	ug/kg		
BROMOFORM	ug/kg		
BROMOMETHANE	ug/kg		
n-BUTYLBENZENE	ug/kg		
SEC-BUTYLBENZENE	ug/kg		
tert-BUTYLBENZENE	ug/kg		
CARBON TETRACHLORIDE	ug/kg		
CHLOROBENZENE	ug/kg		
CHLOROETHANE	ug/kg		
CHLOROFORM	ug/kg		
CHLOROMETHANE	ug/kg		
2-CHLOROTOLUENE	ug/kg		
4-CHLOROTOLUENE	ug/kg		
DIBROMOCHLOROMETHANE	ug/kg		
1,2-DIBROMO-3-CHLOROPROPANE	ug/kg		
1,2-DIBROMOETHANE	ug/kg		
DIBROMOMETHANE	ug/kg		
1,2-DICHLOROBENZENE	ug/kg		
1,3-DICHLOROBENZENE	ug/kg		
1,4-DICHLOROBENZENE	ug/kg		
DICHLORODIFLUOROMETHANE	ug/kg		
1,1-DICHLOROETHANE	ug/kg		
1,2-DICHLOROETHANE	ug/kg		
1,1-DICHLOROETHENE	ug/kg		
cis-1,2-DICHLOROETHENE	ug/kg		
trans-1,2-DICHLOROETHENE	ug/kg		
1,2-DICHLOROPROPANE	ug/kg		
1,3-DICHLOROPROPANE	ug/kg		
2,2-DICHLOROPROPANE	ug/kg		
1,1-DICHLOROPROPENE	ug/kg		
1,1-DICHLOROPROPENE	ug/kg		
cis-1,3-DICHLOROPROPENE	ug/kg		
trans-1,3-DICHLOROPROPENE	ug/kg		
ETHYLBENZENE	ug/kg		
HEXACHLOROBUTADIENE	ug/kg		
ISOPROPYLBENZENE (CUMENE)	ug/kg		
p-ISOPROPYLTOLUENE	ug/kg		
METHYLENE CHLORIDE	ug/kg		
NAPHTHALENE	ug/kg		
n-PROPYLBENZENE	ug/kg		
STYRENE	ug/kg		
1,1,1,2-TETRACHLOROETHANE	ug/kg		
1,1,2,2-TETRACHLOROETHANE	ug/kg		
TETRACHLOROETHYLENE(PCE)	ug/kg		
TOLUENE	ug/kg		
1,2,3-TRICHLOROBENZENE	ug/kg		
1,2,4-TRICHLOROBENZENE	ug/kg		
1,1,1-TRICHLOROETHANE	ug/kg		
1,1,2-TRICHLOROETHANE	ug/kg		
TRICHLOROETHYLENE (TCE)	ug/kg		
TRICHLOROFLUOROMETHANE	ug/kg		
1,2,3-TRICHLOROPROPANE	ug/kg		
1,2,4-TRIMETHYLBENZENE	ug/kg		
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	ug/kg		
VINYL CHLORIDE	ug/kg		
O-XYLENE (1,2-DIMETHYLBENZENE)	ug/kg		
M,P-XYLENE (SUM OF ISOMERS)	ug/kg		
M-XYLENE (1,3-DIMETHYLBENZENE)	ug/kg		

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Facility Location:	Switchyard	Switchyard	Switchyard
Boring Number:	MBH36	MBH36	MBH37
Sample Depth:	.5 to 1 ft.	3.5 to 4 ft.	.5 to 1 ft.
Sample ID:	MBH36BS0101	MBH36BS0102	MBH37BS0101
Collection Date:	11/01/96	11/01/96	11/01/96
Analyte	Units		
1,2-DICHLOROPROPYLENE	ug/kg		
PETROLEUM HYDROCARBONS			
TPH (C10 to C24)	mg/kg	5 U	5 U
TPH (C25 to C40)	mg/kg	5 U	5 U
HERBICIDES			
2,4,5-T (TRICHLOROPHENOXYACETIC ACID)	ug/kg		
SILVEX (2,4,5-TP)	ug/kg		
2,4-D (DICHLOROPHENOXYACETIC ACID)	ug/kg		
2,4 DB	ug/kg		
DALAPON	ug/kg		
DICAMBA	ug/kg		
DICHLOROPROP	ug/kg		
DINOSEB	ug/kg		
PCBs			
PCB-1016 (AROCHLOR 1016)	ug/kg	50 U	50 U
PCB-1221 (AROCHLOR 1221)	ug/kg	50 U	50 U
PCB-1232 (AROCHLOR 1232)	ug/kg	50 U	50 U
PCB-1242 (AROCHLOR 1242)	ug/kg	50 U	50 U
PCB-1248 (AROCHLOR 1248)	ug/kg	50 U	50 U
PCB-1254 (AROCHLOR 1254)	ug/kg	50 U	50 U
PCB-1260 (AROCHLOR 1260)	ug/kg	50 U	50 U
PESTICIDES/PCBs			
ALDRIN	mg/kg		
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	mg/kg		
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	mg/kg		
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	mg/kg		
gamma-BHC (Lindane)	mg/kg		
CHLORDANE	mg/kg		
p,p'-DDD	mg/kg		
p,p'-DDE	mg/kg		
p,p'-DDT	mg/kg		
DIELDRIN	mg/kg		
ALPHA ENDOSULFAN	mg/kg		
BETA ENDOSULFAN	mg/kg		
ENDOSULFAN SULFATE	mg/kg		
ENDRIN	mg/kg		
ENDRIN ALDEHYDE	mg/kg		
HEPTACHLOR EPOXIDE	mg/kg		
HEPTACHLOR	mg/kg		
METHOXYCHLOR	mg/kg		
TOXAPHENE	mg/kg		
PCB-1016 (AROCHLOR 1016)	mg/kg		
PCB-1221 (AROCHLOR 1221)	mg/kg		
PCB-1232 (AROCHLOR 1232)	mg/kg		
PCB-1242 (AROCHLOR 1242)	mg/kg		
PCB-1248 (AROCHLOR 1248)	mg/kg		
PCB-1254 (AROCHLOR 1254)	mg/kg		
PCB-1260 (AROCHLOR 1260)	mg/kg		
METALS			
ANTIMONY	mg/kg		
ARSENIC	mg/kg		
BARIUM	mg/kg		
BERYLLIUM	mg/kg		
CADMIUM	mg/kg		
CHROMIUM, TOTAL	mg/kg		
COBALT	mg/kg		
COPPER	mg/kg		

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

	Facility Location:	Switchyard	Switchyard	Switchyard
	Boring Number:	MBH36	MBH36	MBH37
	Sample Depth:	.5 to 1 ft.	3.5 to 4 ft.	.5 to 1 ft.
	Sample ID:	MBH36BS0101	MBH36BS0102	MBH37BS0101
	Collection Date:	11/01/96	11/01/96	11/01/96
Analyte	Units			
LEAD	mg/kg			
MERCURY	mg/kg			
MOLYBDENUM	mg/kg			
NICKEL	mg/kg			
SELENIUM	mg/kg			
SILVER	mg/kg			
THALLIUM	mg/kg			
VANADIUM	mg/kg			

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Facility Location:		Switchyard	Septic Tank	Septic Tank
Boring Number:		MBH37	MBH38	MBH38
Sample Depth:		3.8 to 4.4 ft.	.5 to 1 ft.	5 to 5.7 ft.
Sample ID:		MBH37BS0102	MBH38BS0101	MBH38BS0102
Collection Date:		11/01/96	10/29/96	10/29/96
Analyte	Units			
VOC				
BENZENE	ug/kg		2 U	2 U
BROMOBENZENE	ug/kg		2 U	2 U
BROMOCHLOROMETHANE	ug/kg		5 U	5 U
BROMODICHLOROMETHANE	ug/kg		2 U	2 U
BROMOFORM	ug/kg		5 U	5 U
BROMOMETHANE	ug/kg		5 U	5 U
n-BUTYLBENZENE	ug/kg		2 U	2 U
SEC-BUTYLBENZENE	ug/kg		2 U	2 U
tert-BUTYLBENZENE	ug/kg		2 U	2 U
CARBON TETRACHLORIDE	ug/kg		5 U	5 U
CHLOROBENZENE	ug/kg		2 U	2 U
CHLOROETHANE	ug/kg		5 U	5 U
CHLOROFORM	ug/kg		2 U	2 U
CHLOROMETHANE	ug/kg		5 U	5 U
2-CHLOROTOLUENE	ug/kg		2 U	2 U
4-CHLOROTOLUENE	ug/kg		2 U	2 U
DIBROMOCHLOROMETHANE	ug/kg		2 U	2 U
1,2-DIBROMO-3-CHLOROPROPANE	ug/kg		10 U	10 U
1,2-DIBROMOETHANE	ug/kg		2 U	2 U
DIBROMOMETHANE	ug/kg		5 U	5 U
1,2-DICHLOROBENZENE	ug/kg		2 U	2 U
1,3-DICHLOROBENZENE	ug/kg		2 U	2 U
1,4-DICHLOROBENZENE	ug/kg		2 U	2 U
DICHLORODIFLUOROMETHANE	ug/kg		5 U	5 U
1,1-DICHLOROETHANE	ug/kg		2 U	2 U
1,2-DICHLOROETHANE	ug/kg		2 U	2 U
1,1-DICHLOROETHENE	ug/kg		2 U	2 U
cis-1,2-DICHLOROETHENE	ug/kg		2 U	2 U
trans-1,2-DICHLOROETHENE	ug/kg		2 U	2 U
1,2-DICHLOROPROPANE	ug/kg		2 U	2 U
1,3-DICHLOROPROPANE	ug/kg		2 U	2 U
2,2-DICHLOROPROPANE	ug/kg		2 U	2 U
1,1-DICHLOROPROPENE	ug/kg			
1,1-DICHLOROPROPENE	ug/kg			
cis-1,3-DICHLOROPROPENE	ug/kg		2 U	2 U
trans-1,3-DICHLOROPROPENE	ug/kg		2 U	2 U
ETHYLBENZENE	ug/kg		2 U	2 =
HEXACHLOROBUTADIENE	ug/kg		2 U	2 U
ISOPROPYLBENZENE (CUMENE)	ug/kg		2 U	2 U
p-ISOPROPYLTOLUENE	ug/kg		2 U	2 U
METHYLENE CHLORIDE	ug/kg		10 U	10 U
NAPHTHALENE	ug/kg		2 U	70 =
n-PROPYLBENZENE	ug/kg		2 U	2 U
STYRENE	ug/kg		2 U	2 U
1,1,1,2-TETRACHLOROETHANE	ug/kg		2 U	2 U
1,1,2,2-TETRACHLOROETHANE	ug/kg		2 U	2 U
TETRACHLOROETHYLENE(PCE)	ug/kg		2 U	2 U
TOLUENE	ug/kg		2 U	5 =
1,2,3-TRICHLOROBENZENE	ug/kg		2 U	2 U
1,2,4-TRICHLOROBENZENE	ug/kg		2 U	2 U
1,1,1-TRICHLOROETHANE	ug/kg		2 U	2 U
1,1,2-TRICHLOROETHANE	ug/kg		2 U	2 U
TRICHLOROETHYLENE (TCE)	ug/kg		2 U	2 U
TRICHLOROFLUOROMETHANE	ug/kg		5 U	5 U
1,2,3-TRICHLOROPROPANE	ug/kg		2 U	2 U
1,2,4-TRIMETHYLBENZENE	ug/kg		2 U	8 =
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	ug/kg		2 U	2 U
VINYL CHLORIDE	ug/kg		5 U	5 U
O-XYLENE (1,2-DIMETHYLBENZENE)	ug/kg		2 U	3 =
M,P-XYLENE (SUM OF ISOMERS)	ug/kg			
M-XYLENE (1,3-DIMETHYLBENZENE)	ug/kg		2 U	7 =

Note:

NA - Not Analyzed

U - Undetected

= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Facility Location:		Switchyard	Septic Tank	Septic Tank
Boring Number:		MBH37	MBH38	MBH38
Sample Depth:		3.8 to 4.4 ft.	.5 to 1 ft.	5 to 5.7 ft.
Sample ID:		MBH37BS0102	MBH38BS0101	MBH38BS0102
Collection Date:		11/01/96	10/29/96	10/29/96
Analyte	Units			
1,2-DICHLOROPROPYLENE	ug/kg		2 U	2 U
PETROLEUM HYDROCARBONS				
TPH (C10 to C24)	mg/kg	5 U	5 U	5 U
TPH (C25 to C40)	mg/kg	5 U	5 U	15 =
HERBICIDES				
2,4,5-T (TRICHLOROPHENOXYACETIC ACID)	ug/kg			
SILVEX (2,4,5-TP)	ug/kg			
2,4-D (DICHLOROPHENOXYACETIC ACID)	ug/kg			
2,4 DB	ug/kg			
DALAPON	ug/kg			
DICAMBA	ug/kg			
DICHLOROPROP	ug/kg			
DINOSEB	ug/kg			
PCBs				
PCB-1016 (AROCHLOR 1016)	ug/kg	50 U		
PCB-1221 (AROCHLOR 1221)	ug/kg	50 U		
PCB-1232 (AROCHLOR 1232)	ug/kg	50 U		
PCB-1242 (AROCHLOR 1242)	ug/kg	50 U		
PCB-1248 (AROCHLOR 1248)	ug/kg	50 U		
PCB-1254 (AROCHLOR 1254)	ug/kg	50 U		
PCB-1260 (AROCHLOR 1260)	ug/kg	50 U		
PESTICIDES/PCBs				
ALDRIN	mg/kg			
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	mg/kg			
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	mg/kg			
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	mg/kg			
gamma-BHC (Lindane)	mg/kg			
CHLORDANE	mg/kg			
p,p'-DDD	mg/kg			
p,p'-DDE	mg/kg			
p,p'-DDT	mg/kg			
DIELDRIN	mg/kg			
ALPHA ENDOSULFAN	mg/kg			
BETA ENDOSULFAN	mg/kg			
ENDOSULFAN SULFATE	mg/kg			
ENDRIN	mg/kg			
ENDRIN ALDEHYDE	mg/kg			
HEPTACHLOR EPOXIDE	mg/kg			
HEPTACHLOR	mg/kg			
METHOXYCHLOR	mg/kg			
TOXAPHENE	mg/kg			
PCB-1016 (AROCHLOR 1016)	mg/kg			
PCB-1221 (AROCHLOR 1221)	mg/kg			
PCB-1232 (AROCHLOR 1232)	mg/kg			
PCB-1242 (AROCHLOR 1242)	mg/kg			
PCB-1248 (AROCHLOR 1248)	mg/kg			
PCB-1254 (AROCHLOR 1254)	mg/kg			
PCB-1260 (AROCHLOR 1260)	mg/kg			
METALS				
ANTIMONY	mg/kg		9 U	44.2 =
ARSENIC	mg/kg		.8 =	.8 =
BARIUM	mg/kg		24.6 =	1 U
BERYLLIUM	mg/kg		.5 U	.5 U
CADMIUM	mg/kg		1 U	1 U
CHROMIUM, TOTAL	mg/kg		3.6 =	5.2 =
COBALT	mg/kg		3 U	3 U
COPPER	mg/kg		6.9 =	4.9 =

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

	Facility Location:	Switchyard	Septic Tank	Septic Tank
	Boring Number:	MBH37	MBH38	MBH38
	Sample Depth:	3.8 to 4.4 ft.	.5 to 1 ft.	5 to 5.7 ft.
	Sample ID:	MBH37BS0102	MBH38BS0101	MBH38BS0102
	Collection Date:	11/01/96	10/29/96	10/29/96
Analyte	Units			
LEAD	mg/kg		10 U	10 U
MERCURY	mg/kg		.1 U	.1 U
MOLYBDENUM	mg/kg		3 U	3 U
NICKEL	mg/kg		5.5 =	5.1 =
SELENIUM	mg/kg		.5 U	.5 U
SILVER	mg/kg		5.7 =	2 U
THALLIUM	mg/kg		.5 =	.1 U
VANADIUM	mg/kg		8.4 =	8.4 =

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

	Facility Location:	Septic Tank	Septic Tank	Septic Tank
	Boring Number:	MBH39	MBH39	MBH39
	Sample Depth:	.5 to 1 ft.	1 to 2 ft.	5 to 5.7 ft.
	Sample ID:	MBH39BS0101	MBH39BS0121	MBH39BS0102
	Collection Date:	10/29/96	10/29/96	10/29/96
Analyte	Units			
VOC				
BENZENE	ug/kg	2 U	2 U	2 U
BROMOBENZENE	ug/kg	2 U	2 U	2 U
BROMOCHLOROMETHANE	ug/kg	5 U	5 U	5 U
BROMODICHLOROMETHANE	ug/kg	2 U	2 U	2 U
BROMOFORM	ug/kg	5 U	5 U	5 U
BROMOMETHANE	ug/kg	5 U	5 U	5 U
n-BUTYLBENZENE	ug/kg	2 U	2 U	2 U
SEC-BUTYLBENZENE	ug/kg	2 U	2 U	2 U
tert-BUTYLBENZENE	ug/kg	2 U	2 U	2 U
CARBON TETRACHLORIDE	ug/kg	5 U	5 U	5 U
CHLOROBENZENE	ug/kg	2 U	2 U	2 U
CHLOROETHANE	ug/kg	5 U	5 U	5 U
CHLOROFORM	ug/kg	2 U	2 U	2 U
CHLOROMETHANE	ug/kg	5 U	5 U	5 U
2-CHLOROTOLUENE	ug/kg	2 U	2 U	2 U
4-CHLOROTOLUENE	ug/kg	2 U	2 U	2 U
DIBROMOCHLOROMETHANE	ug/kg	2 U	2 U	2 U
1,2-DIBROMO-3-CHLOROPROPANE	ug/kg	10 U	10 U	10 U
1,2-DIBROMOETHANE	ug/kg	2 U	2 U	2 U
DIBROMOMETHANE	ug/kg	5 U	5 U	5 U
1,2-DICHLOROBENZENE	ug/kg	2 U	2 U	2 U
1,3-DICHLOROBENZENE	ug/kg	2 U	2 U	2 U
1,4-DICHLOROBENZENE	ug/kg	2 U	2 U	2 U
DICHLORODIFLUOROMETHANE	ug/kg	5 U	5 U	5 U
1,1-DICHLOROETHANE	ug/kg	2 U	2 U	2 U
1,2-DICHLOROETHANE	ug/kg	2 U	2 U	2 U
1,1-DICHLOROETHENE	ug/kg	2 U	2 U	2 U
cis-1,2-DICHLOROETHENE	ug/kg	2 U	2 U	2 U
trans-1,2-DICHLOROETHENE	ug/kg	2 U	2 U	2 U
1,2-DICHLOROPROPANE	ug/kg	2 U	2 U	2 U
1,3-DICHLOROPROPANE	ug/kg	2 U	2 U	2 U
2,2-DICHLOROPROPANE	ug/kg	2 U	2 U	2 U
1,1-DICHLOROPROPENE	ug/kg			
1,1-DICHLOROPROPENE	ug/kg			
cis-1,3-DICHLOROPROPENE	ug/kg	2 U	2 U	2 U
trans-1,3-DICHLOROPROPENE	ug/kg	2 U	2 U	2 U
ETHYLBENZENE	ug/kg	2 U	2 U	2 U
HEXACHLOROBUTADIENE	ug/kg	2 U	2 U	2 U
ISOPROPYLBENZENE (CUMENE)	ug/kg	2 U	2 U	2 U
p-ISOPROPYLTOLUENE	ug/kg	2 U	2 U	2 U
METHYLENE CHLORIDE	ug/kg	10 U	10 U	10 U
NAPHTHALENE	ug/kg	2 U	2 U	2 U
n-PROPYLBENZENE	ug/kg	2 U	2 U	2 U
STYRENE	ug/kg	2 U	2 U	2 U
1,1,1,2-TETRACHLOROETHANE	ug/kg	2 U	2 U	2 U
1,1,2,2-TETRACHLOROETHANE	ug/kg	2 U	2 U	2 U
TETRACHLOROETHYLENE(PCE)	ug/kg	2 U	2 U	2 U
TOLUENE	ug/kg	2 U	2 U	2 U
1,2,3-TRICHLOROBENZENE	ug/kg	2 U	2 U	2 U
1,2,4-TRICHLOROBENZENE	ug/kg	2 U	2 U	2 U
1,1,1-TRICHLOROETHANE	ug/kg	2 U	2 U	2 U
1,1,2-TRICHLOROETHANE	ug/kg	2 U	2 U	2 U
TRICHLOROETHYLENE (TCE)	ug/kg	2 U	2 U	2 U
TRICHLOROFLUOROMETHANE	ug/kg	5 U	5 U	5 U
1,2,3-TRICHLOROPROPANE	ug/kg	2 U	2 U	2 U
1,2,4-TRIMETHYLBENZENE	ug/kg	2 U	2 U	2 U
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	ug/kg	2 U	2 U	2 U
VINYL CHLORIDE	ug/kg	5 U	5 U	5 U
O-XYLENE (1,2-DIMETHYLBENZENE)	ug/kg	2 U	2 U	2 U
M,P-XYLENE (SUM OF ISOMERS)	ug/kg			
M-XYLENE (1,3-DIMETHYLBENZENE)	ug/kg	2 U	2 U	2 U

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

	Facility Location:	Septic Tank	Septic Tank	Septic Tank
	Boring Number:	MBH39	MBH39	MBH39
	Sample Depth:	.5 to 1 ft.	1 to 2 ft.	5 to 5.7 ft.
	Sample ID:	MBH39BS0101	MBH39BS0121	MBH39BS0102
	Collection Date:	10/29/96	10/29/96	10/29/96
Analyte	Units			
1,2-DICHLOROPROPYLENE	ug/kg	2 U	2 U	2 U
PETROLEUM HYDROCARBONS				
TPH (C10 to C24)	mg/kg	5 U	5 U	5 U
TPH (C25 to C40)	mg/kg	5 U	5 U	5 U
HERBICIDES				
2,4,5-T (TRICHLOROPHENOXYACETIC ACID)	ug/kg			
SILVEX (2,4,5-TP)	ug/kg			
2,4-D (DICHLOROPHENOXYACETIC ACID)	ug/kg			
2,4 DB	ug/kg			
DALAPON	ug/kg			
DICAMBA	ug/kg			
DICHLOROPROP	ug/kg			
DINOSEB	ug/kg			
PCBs				
PCB-1016 (AROCHLOR 1016)	ug/kg			
PCB-1221 (AROCHLOR 1221)	ug/kg			
PCB-1232 (AROCHLOR 1232)	ug/kg			
PCB-1242 (AROCHLOR 1242)	ug/kg			
PCB-1248 (AROCHLOR 1248)	ug/kg			
PCB-1254 (AROCHLOR 1254)	ug/kg			
PCB-1260 (AROCHLOR 1260)	ug/kg			
PESTICIDES/PCBs				
ALDRIN	mg/kg			
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	mg/kg			
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	mg/kg			
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	mg/kg			
gamma-BHC (Lindane)	mg/kg			
CHLORDANE	mg/kg			
p,p'-DDD	mg/kg			
p,p'-DDE	mg/kg			
p,p'-DDT	mg/kg			
DIELDRIN	mg/kg			
ALPHA ENDOSULFAN	mg/kg			
BETA ENDOSULFAN	mg/kg			
ENDOSULFAN SULFATE	mg/kg			
ENDRIN	mg/kg			
ENDRIN ALDEHYDE	mg/kg			
HEPTACHLOR EPOXIDE	mg/kg			
HEPTACHLOR	mg/kg			
METHOXYCHLOR	mg/kg			
TOXAPHENE	mg/kg			
PCB-1016 (AROCHLOR 1016)	mg/kg			
PCB-1221 (AROCHLOR 1221)	mg/kg			
PCB-1232 (AROCHLOR 1232)	mg/kg			
PCB-1242 (AROCHLOR 1242)	mg/kg			
PCB-1248 (AROCHLOR 1248)	mg/kg			
PCB-1254 (AROCHLOR 1254)	mg/kg			
PCB-1260 (AROCHLOR 1260)	mg/kg			
METALS				
ANTIMONY	mg/kg	9 U	28.3 =	9 U
ARSENIC	mg/kg	.5 U	.5 U	.6 =
BARIUM	mg/kg	44.2 =	1 U	29.9 =
BERYLLIUM	mg/kg	.5 U	.5 U	.5 U
CADMIUM	mg/kg	1 U	1 U	1 U
CHROMIUM, TOTAL	mg/kg	2.8 =	2.4 =	5.2 =
COBALT	mg/kg	3 U	3 U	3 U
COPPER	mg/kg	3.2 =	2.1 =	2 U

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

	Facility Location:	Septic Tank	Septic Tank	Septic Tank
	Boring Number:	MBH39	MBH39	MBH39
	Sample Depth:	.5 to 1 ft.	1 to 2 ft.	5 to 5.7 ft.
	Sample ID:	MBH39BS0101	MBH39BS0121	MBH39BS0102
	Collection Date:	10/29/96	10/29/96	10/29/96
Analyte	Units			
LEAD	mg/kg	10 U	10 U	10 U
MERCURY	mg/kg	.1 U	.1 U	.1 U
MOLYBDENUM	mg/kg	3 U	3 U	3 U
NICKEL	mg/kg	4 U	4 U	4 U
SELENIUM	mg/kg	.5 U	.5 U	.5 U
SILVER	mg/kg	24.7 =	2 U	2 U
THALLIUM	mg/kg	.1 U	.1 U	.1 U
VANADIUM	mg/kg	5.6 =	5.2 =	4.8 =

Note:
 NA - Not Analyzed
 U - Undetected
 = - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Facility Location:	Units	Pig Launching Area	Pig Launching Area	Pig Launching Area
		Sump	Sump	Sump
Boring Number:		MBH40	MBH40	MBH40
Sample Depth:		.5 to 1 ft.	1 to 1.5 ft.	5 to 5.4 ft.
Sample ID:		MBH40BS0101	MBH40BS0121	MBH40BS0102
Collection Date:		10/31/96	10/31/96	10/31/96
Analyte	Units			
VOC				
BENZENE	ug/kg			
BROMOBENZENE	ug/kg			
BROMOCHLOROMETHANE	ug/kg			
BROMODICHLOROMETHANE	ug/kg			
BROMOFORM	ug/kg			
BROMOMETHANE	ug/kg			
n-BUTYLBENZENE	ug/kg			
SEC-BUTYLBENZENE	ug/kg			
tert-BUTYLBENZENE	ug/kg			
CARBON TETRACHLORIDE	ug/kg			
CHLOROBENZENE	ug/kg			
CHLOROETHANE	ug/kg			
CHLOROFORM	ug/kg			
CHLOROMETHANE	ug/kg			
2-CHLOROTOLUENE	ug/kg			
4-CHLOROTOLUENE	ug/kg			
DIBROMOCHLOROMETHANE	ug/kg			
1,2-DIBROMO-3-CHLOROPROPANE	ug/kg			
1,2-DIBROMOETHANE	ug/kg			
DIBROMOMETHANE	ug/kg			
1,2-DICHLOROBENZENE	ug/kg			
1,3-DICHLOROBENZENE	ug/kg			
1,4-DICHLOROBENZENE	ug/kg			
DICHLORODIFLUOROMETHANE	ug/kg			
1,1-DICHLOROETHANE	ug/kg			
1,2-DICHLOROETHANE	ug/kg			
1,1-DICHLOROETHENE	ug/kg			
cis-1,2-DICHLOROETHENE	ug/kg			
trans-1,2-DICHLOROETHENE	ug/kg			
1,2-DICHLOROPROPANE	ug/kg			
1,3-DICHLOROPROPANE	ug/kg			
2,2-DICHLOROPROPANE	ug/kg			
1,1-DICHLOROPROPENE	ug/kg			
1,1-DICHLOROPROPENE	ug/kg			
cis-1,3-DICHLOROPROPENE	ug/kg			
trans-1,3-DICHLOROPROPENE	ug/kg			
ETHYLBENZENE	ug/kg			
HEXACHLOROBUTADIENE	ug/kg			
ISOPROPYLBENZENE (CUMENE)	ug/kg			
p-ISOPROPYLTOLUENE	ug/kg			
METHYLENE CHLORIDE	ug/kg			
NAPHTHALENE	ug/kg			
n-PROPYLBENZENE	ug/kg			
STYRENE	ug/kg			
1,1,1,2-TETRACHLOROETHANE	ug/kg			
1,1,2,2-TETRACHLOROETHANE	ug/kg			
TETRACHLOROETHYLENE(PCE)	ug/kg			
TOLUENE	ug/kg			
1,2,3-TRICHLOROBENZENE	ug/kg			
1,2,4-TRICHLOROBENZENE	ug/kg			
1,1,1-TRICHLOROETHANE	ug/kg			
1,1,2-TRICHLOROETHANE	ug/kg			
TRICHLOROETHYLENE (TCE)	ug/kg			
TRICHLOROFLUOROMETHANE	ug/kg			
1,2,3-TRICHLOROPROPANE	ug/kg			
1,2,4-TRIMETHYLBENZENE	ug/kg			
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	ug/kg			
VINYL CHLORIDE	ug/kg			
O-XYLENE (1,2-DIMETHYLBENZENE)	ug/kg			
M,P-XYLENE (SUM OF ISOMERS)	ug/kg			
M-XYLENE (1,3-DIMETHYLBENZENE)	ug/kg			

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

	Facility Location:	Pig Launching Area	Pig Launching Area	Pig Launching Area
	Boring Number:	Sump MBH40	Sump MBH40	Sump MBH40
	Sample Depth:	.5 to 1 ft.	1 to 1.5 ft.	5 to 5.4 ft.
	Sample ID:	MBH40BS0101	MBH40BS0121	MBH40BS0102
	Collection Date:	10/31/96	10/31/96	10/31/96
Analyte	Units			
1,2-DICHLOROPROPYLENE	ug/kg			
PETROLEUM HYDROCARBONS				
TPH (C10 to C24)	mg/kg	5 U	5 U	5 U
TPH (C25 to C40)	mg/kg	5 U	5 U	5 U
HERBICIDES				
2,4,5-T (TRICHLOROPHENOXYACETIC ACID)	ug/kg			
SILVEX (2,4,5-TP)	ug/kg			
2,4-D (DICHLOROPHENOXYACETIC ACID)	ug/kg			
2,4 DB	ug/kg			
DALAPON	ug/kg			
DICAMBA	ug/kg			
DICHLOROPROP	ug/kg			
DINOSEB	ug/kg			
PCBs				
PCB-1016 (AROCHLOR 1016)	ug/kg			
PCB-1221 (AROCHLOR 1221)	ug/kg			
PCB-1232 (AROCHLOR 1232)	ug/kg			
PCB-1242 (AROCHLOR 1242)	ug/kg			
PCB-1248 (AROCHLOR 1248)	ug/kg			
PCB-1254 (AROCHLOR 1254)	ug/kg			
PCB-1260 (AROCHLOR 1260)	ug/kg			
PESTICIDES/PCBs				
ALDRIN	mg/kg			
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	mg/kg			
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	mg/kg			
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	mg/kg			
gamma-BHC (Lindane)	mg/kg			
CHLORDANE	mg/kg			
p,p'-DDD	mg/kg			
p,p'-DDE	mg/kg			
p,p'-DDT	mg/kg			
DIELDRIN	mg/kg			
ALPHA ENDOSULFAN	mg/kg			
BETA ENDOSULFAN	mg/kg			
ENDOSULFAN SULFATE	mg/kg			
ENDRIN	mg/kg			
ENDRIN ALDEHYDE	mg/kg			
HEPTACHLOR EPOXIDE	mg/kg			
HEPTACHLOR	mg/kg			
METHOXYCHLOR	mg/kg			
TOXAPHENE	mg/kg			
PCB-1016 (AROCHLOR 1016)	mg/kg			
PCB-1221 (AROCHLOR 1221)	mg/kg			
PCB-1232 (AROCHLOR 1232)	mg/kg			
PCB-1242 (AROCHLOR 1242)	mg/kg			
PCB-1248 (AROCHLOR 1248)	mg/kg			
PCB-1254 (AROCHLOR 1254)	mg/kg			
PCB-1260 (AROCHLOR 1260)	mg/kg			
METALS				
ANTIMONY	mg/kg			
ARSENIC	mg/kg			
BARIUM	mg/kg			
BERYLLIUM	mg/kg			
CADMIUM	mg/kg			
CHROMIUM, TOTAL	mg/kg			
COBALT	mg/kg			
COPPER	mg/kg			

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

		Pig Launching Area	Pig Launching Area	Pig Launching Area
Facility Location:		Sump	Sump	Sump
Boring Number:		MBH40	MBH40	MBH40
Sample Depth:		.5 to 1 ft.	1 to 1.5 ft.	5 to 5.4 ft.
Sample ID:		MBH40BS0101	MBH40BS0121	MBH40BS0102
Collection Date:		10/31/96	10/31/96	10/31/96
Analyte	Units			
LEAD	mg/kg			
MERCURY	mg/kg			
MOLYBDENUM	mg/kg			
NICKEL	mg/kg			
SELENIUM	mg/kg			
SILVER	mg/kg			
THALLIUM	mg/kg			
VANADIUM	mg/kg			

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Analyte	Units	Facility Location:	Transformer Unit OIF	Transformer Unit OIF	Submarine Pipeline
		Boring Number:	MSS41	MSS42	Sump
		Sample Depth:	Surface	Surface	4.5 to 5 ft.
		Sample ID:	MSS41SS0101	MSS42SS0101	MBH43BS0102
		Collection Date:	11/05/96	11/05/96	10/31/96
VOC					
BENZENE	ug/kg				2 U
BROMOBENZENE	ug/kg				2 U
BROMOCHLOROMETHANE	ug/kg				5 U
BROMODICHLOROMETHANE	ug/kg				2 U
BROMOFORM	ug/kg				5 U
BROMOMETHANE	ug/kg				5 U
n-BUTYLBENZENE	ug/kg				2 U
SEC-BUTYLBENZENE	ug/kg				2 U
tert-BUTYLBENZENE	ug/kg				2 U
CARBON TETRACHLORIDE	ug/kg				5 U
CHLOROBENZENE	ug/kg				2 U
CHLOROETHANE	ug/kg				5 U
CHLOROFORM	ug/kg				2 U
CHLOROMETHANE	ug/kg				5 U
2-CHLOROTOLUENE	ug/kg				2 U
4-CHLOROTOLUENE	ug/kg				2 U
DIBROMOCHLOROMETHANE	ug/kg				2 U
1,2-DIBROMO-3-CHLOROPROPANE	ug/kg				10 U
1,2-DIBROMOETHANE	ug/kg				2 U
DIBROMOMETHANE	ug/kg				5 U
1,2-DICHLOROBENZENE	ug/kg				2 U
1,3-DICHLOROBENZENE	ug/kg				2 U
1,4-DICHLOROBENZENE	ug/kg				2 U
DICHLORODIFLUOROMETHANE	ug/kg				5 U
1,1-DICHLOROETHANE	ug/kg				2 U
1,2-DICHLOROETHANE	ug/kg				2 U
1,1-DICHLOROETHENE	ug/kg				2 U
cis-1,2-DICHLOROETHENE	ug/kg				2 U
trans-1,2-DICHLOROETHENE	ug/kg				2 U
1,2-DICHLOROPROPANE	ug/kg				2 U
1,3-DICHLOROPROPANE	ug/kg				2 U
2,2-DICHLOROPROPANE	ug/kg				2 U
1,1-DICHLOROPROPENE	ug/kg				
1,1-DICHLOROPROPENE	ug/kg				
cis-1,3-DICHLOROPROPENE	ug/kg				2 U
trans-1,3-DICHLOROPROPENE	ug/kg				2 U
ETHYLBENZENE	ug/kg				2 U
HEXACHLOROBUTADIENE	ug/kg				2 U
ISOPROPYLBENZENE (CUMENE)	ug/kg				2 U
p-ISOPROPYLTOLUENE	ug/kg				2 U
METHYLENE CHLORIDE	ug/kg				10 U
NAPHTHALENE	ug/kg				2 U
n-PROPYLBENZENE	ug/kg				2 U
STYRENE	ug/kg				2 U
1,1,1,2-TETRACHLOROETHANE	ug/kg				2 U
1,1,2,2-TETRACHLOROETHANE	ug/kg				2 U
TETRACHLOROETHYLENE(PCE)	ug/kg				2 U
TOLUENE	ug/kg				2 U
1,2,3-TRICHLOROBENZENE	ug/kg				2 U
1,2,4-TRICHLOROBENZENE	ug/kg				2 U
1,1,1-TRICHLOROETHANE	ug/kg				2 U
1,1,2-TRICHLOROETHANE	ug/kg				2 U
TRICHLOROETHYLENE (TCE)	ug/kg				2 U
TRICHLOROFLUOROMETHANE	ug/kg				5 U
1,2,3-TRICHLOROPROPANE	ug/kg				2 U
1,2,4-TRIMETHYLBENZENE	ug/kg				2 U
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	ug/kg				2 U
VINYL CHLORIDE	ug/kg				5 U
O-XYLENE (1,2-DIMETHYLBENZENE)	ug/kg				2 U
M.P-XYLENE (SUM OF ISOMERS)	ug/kg				
M-XYLENE (1,3-DIMETHYLBENZENE)	ug/kg				2 U

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

	Facility Location:	Transformer Unit OIF	Transformer Unit OIF	Submarine Pipeline
	Boring Number:	MSS41	MSS42	Sump
	Sample Depth:	Surface	Surface	4.5 to 5 ft.
	Sample ID:	MSS41SS0101	MSS42SS0101	MBH43BS0102
	Collection Date:	11/05/96	11/05/96	10/31/96
Analyte	Units			
1,2-DICHLOROPROPYLENE	ug/kg			2 U
PETROLEUM HYDROCARBONS				
TPH (C10 to C24)	mg/kg			5 U
TPH (C25 to C40)	mg/kg			5 U
HERBICIDES				
2,4,5-T (TRICHLOROPHENOXYACETIC ACID)	ug/kg			
SILVEX (2,4,5-TP)	ug/kg			
2,4-D (DICHLOROPHENOXYACETIC ACID)	ug/kg			
2,4 DB	ug/kg			
DALAPON	ug/kg			
DICAMBA	ug/kg			
DICHLOROPROP	ug/kg			
DINoseb	ug/kg			
PCBs				
PCB-1016 (AROCHLOR 1016)	ug/kg	50 U	50 U	
PCB-1221 (AROCHLOR 1221)	ug/kg	50 U	50 U	
PCB-1232 (AROCHLOR 1232)	ug/kg	50 U	50 U	
PCB-1242 (AROCHLOR 1242)	ug/kg	50 U	50 U	
PCB-1248 (AROCHLOR 1248)	ug/kg	50 U	50 U	
PCB-1254 (AROCHLOR 1254)	ug/kg	50 U	50 U	
PCB-1260 (AROCHLOR 1260)	ug/kg	50 U	50 U	
PESTICIDES/PCBs				
ALDRIN	mg/kg			
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	mg/kg			
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	mg/kg			
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	mg/kg			
gamma-BHC (Lindane)	mg/kg			
CHLORDANE	mg/kg			
p,p'-DDD	mg/kg			
p,p'-DDE	mg/kg			
p,p'-DDT	mg/kg			
DIELDRIN	mg/kg			
ALPHA ENDOSULFAN	mg/kg			
BETA ENDOSULFAN	mg/kg			
ENDOSULFAN SULFATE	mg/kg			
ENDRIN	mg/kg			
ENDRIN ALDEHYDE	mg/kg			
HEPTACHLOR EPOXIDE	mg/kg			
HEPTACHLOR	mg/kg			
METHOXYCHLOR	mg/kg			
TOXAPHENE	mg/kg			
PCB-1016 (AROCHLOR 1016)	mg/kg			
PCB-1221 (AROCHLOR 1221)	mg/kg			
PCB-1232 (AROCHLOR 1232)	mg/kg			
PCB-1242 (AROCHLOR 1242)	mg/kg			
PCB-1248 (AROCHLOR 1248)	mg/kg			
PCB-1254 (AROCHLOR 1254)	mg/kg			
PCB-1260 (AROCHLOR 1260)	mg/kg			
METALS				
ANTIMONY	mg/kg			
ARSENIC	mg/kg			
BARIUM	mg/kg			
BERYLLIUM	mg/kg			
CADMIUM	mg/kg			
CHROMIUM, TOTAL	mg/kg			
COBALT	mg/kg			
COPPER	mg/kg			

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Facility Location:		Transformer Unit OIF	Transformer Unit OIF	Submarine Pipeline Sump
Boring Number:		MSS41	MSS42	MBH43
Sample Depth:		Surface	Surface	4.5 to 5 ft.
Sample ID:		MSS41SS0101	MSS42SS0101	MBH43BS0102
Collection Date:		11/05/96	11/05/96	10/31/96
Analyte	Units			
LEAD	mg/kg			
MERCURY	mg/kg			
MOLYBDENUM	mg/kg			
NICKEL	mg/kg			
SELENIUM	mg/kg			
SILVER	mg/kg			
THALLIUM	mg/kg			
VANADIUM	mg/kg			

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Analyte	Units	Submarine Pipeline	
		Sump	Adjacent Petroleum Facility
Facility Location:		MBH43	MBH44
Boring Number:			
Sample Depth:		7.9 to 8.4 ft.	.5 to 1 ft.
Sample ID:		MBH43BS0103	MBH44BS0101
Collection Date:		10/31/96	11/01/96
VOC			
BENZENE	ug/kg		
BROMOBENZENE	ug/kg		
BROMOCHLOROMETHANE	ug/kg		
BROMODICHLOROMETHANE	ug/kg		
BROMOFORM	ug/kg		
BROMOMETHANE	ug/kg		
n-BUTYLBENZENE	ug/kg		
SEC-BUTYLBENZENE	ug/kg		
tert-BUTYLBENZENE	ug/kg		
CARBON TETRACHLORIDE	ug/kg		
CHLOROBENZENE	ug/kg		
CHLOROETHANE	ug/kg		
CHLOROFORM	ug/kg		
CHLOROMETHANE	ug/kg		
2-CHLOROTOLUENE	ug/kg		
4-CHLOROTOLUENE	ug/kg		
DIBROMOCHLOROMETHANE	ug/kg		
1,2-DIBROMO-3-CHLOROPROPANE	ug/kg		
1,2-DIBROMOETHANE	ug/kg		
DIBROMOMETHANE	ug/kg		
1,2-DICHLOROBENZENE	ug/kg		
1,3-DICHLOROBENZENE	ug/kg		
1,4-DICHLOROBENZENE	ug/kg		
DICHLORODIFLUOROMETHANE	ug/kg		
1,1-DICHLOROETHANE	ug/kg		
1,2-DICHLOROETHANE	ug/kg		
1,1-DICHLOROETHENE	ug/kg		
cis-1,2-DICHLOROETHENE	ug/kg		
trans-1,2-DICHLOROETHENE	ug/kg		
1,2-DICHLOROPROPANE	ug/kg		
1,3-DICHLOROPROPANE	ug/kg		
2,2-DICHLOROPROPANE	ug/kg		
1,1-DICHLOROPROPENE	ug/kg		
1,1-DICHLOROPROPENE	ug/kg		
cis-1,3-DICHLOROPROPENE	ug/kg		
trans-1,3-DICHLOROPROPENE	ug/kg		
ETHYLBENZENE	ug/kg		
HEXACHLOROBUTADIENE	ug/kg		
ISOPROPYLBENZENE (CUMENE)	ug/kg		
p-ISOPROPYLTOLUENE	ug/kg		
METHYLENE CHLORIDE	ug/kg		
NAPHTHALENE	ug/kg		
n-PROPYLBENZENE	ug/kg		
STYRENE	ug/kg		
1,1,1,2-TETRACHLOROETHANE	ug/kg		
1,1,2,2-TETRACHLOROETHANE	ug/kg		
TETRACHLOROETHYLENE(PCE)	ug/kg		
TOLUENE	ug/kg		
1,2,3-TRICHLOROBENZENE	ug/kg		
1,2,4-TRICHLOROBENZENE	ug/kg		
1,1,1-TRICHLOROETHANE	ug/kg		
1,1,2-TRICHLOROETHANE	ug/kg		
TRICHLOROETHYLENE (TCE)	ug/kg		
TRICHLOROFLUOROMETHANE	ug/kg		
1,2,3-TRICHLOROPROPANE	ug/kg		
1,2,4-TRIMETHYLBENZENE	ug/kg		
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	ug/kg		
VINYL CHLORIDE	ug/kg		
O-XYLENE (1,2-DIMETHYLBENZENE)	ug/kg		
M,P-XYLENE (SUM OF ISOMERS)	ug/kg		
M-XYLENE (1,3-DIMETHYLBENZENE)	ug/kg		

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Facility Location: Boring Number:	Submarine Pipeline Sump	Adjacent Petroleum Facility
Sample Depth:	MBH43	MBH44
Sample ID:	7.9 to 8.4 ft.	.5 to 1 ft.
Collection Date:	MBH43BS0103	MBH44BS0101
	10/31/96	11/01/96
Analyte	Units	
1,2-DICHLOROPROPYLENE	ug/kg	
PETROLEUM HYDROCARBONS		
TPH (C10 to C24)	mg/kg	5 U
TPH (C25 to C40)	mg/kg	6 =
HERBICIDES		
2,4,5-T (TRICHLOROPHENOXYACETIC ACID)	ug/kg	
SILVEX (2,4,5-TP)	ug/kg	
2,4-D (DICHLOROPHENOXYACETIC ACID)	ug/kg	
2,4 DB	ug/kg	
DALAPON	ug/kg	
DICAMBA	ug/kg	
DICHLOROPROP	ug/kg	
DINOSEB	ug/kg	
PCBs		
PCB-1016 (AROCHLOR 1016)	ug/kg	
PCB-1221 (AROCHLOR 1221)	ug/kg	
PCB-1232 (AROCHLOR 1232)	ug/kg	
PCB-1242 (AROCHLOR 1242)	ug/kg	
PCB-1248 (AROCHLOR 1248)	ug/kg	
PCB-1254 (AROCHLOR 1254)	ug/kg	
PCB-1260 (AROCHLOR 1260)	ug/kg	
PESTICIDES/PCBs		
ALDRIN	mg/kg	
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	mg/kg	
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	mg/kg	
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	mg/kg	
gamma-BHC (Lindane)	mg/kg	
CHLORDANE	mg/kg	
p,p'-DDD	mg/kg	
p,p'-DDE	mg/kg	
p,p'-DDT	mg/kg	
DIELDRIN	mg/kg	
ALPHA ENDOSULFAN	mg/kg	
BETA ENDOSULFAN	mg/kg	
ENDOSULFAN SULFATE	mg/kg	
ENDRIN	mg/kg	
ENDRIN ALDEHYDE	mg/kg	
HEPTACHLOR EPOXIDE	mg/kg	
HEPTACHLOR	mg/kg	
METHOXYCHLOR	mg/kg	
TOXAPHENE	mg/kg	
PCB-1016 (AROCHLOR 1016)	mg/kg	
PCB-1221 (AROCHLOR 1221)	mg/kg	
PCB-1232 (AROCHLOR 1232)	mg/kg	
PCB-1242 (AROCHLOR 1242)	mg/kg	
PCB-1248 (AROCHLOR 1248)	mg/kg	
PCB-1254 (AROCHLOR 1254)	mg/kg	
PCB-1260 (AROCHLOR 1260)	mg/kg	
METALS		
ANTIMONY	mg/kg	
ARSENIC	mg/kg	
BARIUM	mg/kg	
BERYLLIUM	mg/kg	
CADMIUM	mg/kg	
CHROMIUM, TOTAL	mg/kg	
COBALT	mg/kg	
COPPER	mg/kg	

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

		Submarine Pipeline	Adjacent Petroleum Facility
Facility Location:		Sump	
Boring Number:		MBH43	MBH44
Sample Depth:		7.9 to 8.4 ft.	.5 to 1 ft.
Sample ID:		MBH43BS0103	MBH44BS0101
Collection Date:		10/31/96	11/01/96
Analyte	Units		
LEAD	mg/kg		
MERCURY	mg/kg		
MOLYBDENUM	mg/kg		
NICKEL	mg/kg		
SELENIUM	mg/kg		
SILVER	mg/kg		
THALLIUM	mg/kg		
VANADIUM	mg/kg		

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Analyte	Units	Facility Location:	Adjacent Petroleum Facility	Adjacent Petroleum Facility
		Boring Number:	MBH44	MBH44
		Sample Depth:	4.5 to 5 ft.	10 to 10.5 ft.
		Sample ID:	MBH44BS0102	MBH44BS0103
		Collection Date:	11/01/96	11/01/96
VOC				
BENZENE	ug/kg			
BROMOBENZENE	ug/kg			
BROMOCHLOROMETHANE	ug/kg			
BROMODICHLOROMETHANE	ug/kg			
BROMOFORM	ug/kg			
BROMOMETHANE	ug/kg			
n-BUTYLBENZENE	ug/kg			
SEC-BUTYLBENZENE	ug/kg			
tert-BUTYLBENZENE	ug/kg			
CARBON TETRACHLORIDE	ug/kg			
CHLOROBENZENE	ug/kg			
CHLOROETHANE	ug/kg			
CHLOROFORM	ug/kg			
CHLOROMETHANE	ug/kg			
2-CHLOROTOLUENE	ug/kg			
4-CHLOROTOLUENE	ug/kg			
DIBROMOCHLOROMETHANE	ug/kg			
1,2-DIBROMO-3-CHLOROPROPANE	ug/kg			
1,2-DIBROMOETHANE	ug/kg			
DIBROMOMETHANE	ug/kg			
1,2-DICHLOROBENZENE	ug/kg			
1,3-DICHLOROBENZENE	ug/kg			
1,4-DICHLOROBENZENE	ug/kg			
DICHLORODIFLUOROMETHANE	ug/kg			
1,1-DICHLOROETHANE	ug/kg			
1,2-DICHLOROETHANE	ug/kg			
1,1-DICHLOROETHENE	ug/kg			
cis-1,2-DICHLOROETHENE	ug/kg			
trans-1,2-DICHLOROETHENE	ug/kg			
1,2-DICHLOROPROPANE	ug/kg			
1,3-DICHLOROPROPANE	ug/kg			
2,2-DICHLOROPROPANE	ug/kg			
1,1-DICHLOROPROPENE	ug/kg			
1,1-DICHLOROPROPENE	ug/kg			
cis-1,3-DICHLOROPROPENE	ug/kg			
trans-1,3-DICHLOROPROPENE	ug/kg			
ETHYLBENZENE	ug/kg			
HEXACHLOROBUTADIENE	ug/kg			
ISOPROPYLBENZENE (CUMENE)	ug/kg			
p-ISOPROPYLTOLUENE	ug/kg			
METHYLENE CHLORIDE	ug/kg			
NAPHTHALENE	ug/kg			
n-PROPYLBENZENE	ug/kg			
STYRENE	ug/kg			
1,1,1,2-TETRACHLOROETHANE	ug/kg			
1,1,2,2-TETRACHLOROETHANE	ug/kg			
TETRACHLOROETHYLENE(PCE)	ug/kg			
TOLUENE	ug/kg			
1,2,3-TRICHLOROBENZENE	ug/kg			
1,2,4-TRICHLOROBENZENE	ug/kg			
1,1,1-TRICHLOROETHANE	ug/kg			
1,1,2-TRICHLOROETHANE	ug/kg			
TRICHLOROETHYLENE (TCE)	ug/kg			
TRICHLOROFLUOROMETHANE	ug/kg			
1,2,3-TRICHLOROPROPANE	ug/kg			
1,2,4-TRIMETHYLBENZENE	ug/kg			
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	ug/kg			
VINYL CHLORIDE	ug/kg			
O-XYLENE (1,2-DIMETHYLBENZENE)	ug/kg			
M,P-XYLENE (SUM OF ISOMERS)	ug/kg			
M-XYLENE (1,3-DIMETHYLBENZENE)	ug/kg			

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Facility Location:		Adjacent Petroleum Facility	Adjacent Petroleum Facility
Boring Number:		MBH44	MBH44
Sample Depth:		4.5 to 5 ft.	10 to 10.5 ft.
Sample ID:		MBH44BS0102	MBH44BS0103
Collection Date:		11/01/96	11/01/96
Analyte	Units		
1,2-DICHLOROPROPYLENE	ug/kg		
PETROLEUM HYDROCARBONS			
TPH (C10 to C24)	mg/kg	6 =	5 U
TPH (C25 to C40)	mg/kg	6 =	5 U
HERBICIDES			
2,4,5-T (TRICHLOROPHENOXYACETIC ACID)	ug/kg		
SILVEX (2,4,5-TP)	ug/kg		
2,4-D (DICHLOROPHENOXYACETIC ACID)	ug/kg		
2,4 DB	ug/kg		
DALAPON	ug/kg		
DICAMBA	ug/kg		
DICHLOROPROP	ug/kg		
DINoseb	ug/kg		
PCBs			
PCB-1016 (AROCHLOR 1016)	ug/kg		
PCB-1221 (AROCHLOR 1221)	ug/kg		
PCB-1232 (AROCHLOR 1232)	ug/kg		
PCB-1242 (AROCHLOR 1242)	ug/kg		
PCB-1248 (AROCHLOR 1248)	ug/kg		
PCB-1254 (AROCHLOR 1254)	ug/kg		
PCB-1260 (AROCHLOR 1260)	ug/kg		
PESTICIDES/PCBs			
ALDRIN	mg/kg		
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	mg/kg		
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	mg/kg		
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	mg/kg		
gamma-BHC (Lindane)	mg/kg		
CHLORDANE	mg/kg		
p,p'-DDD	mg/kg		
p,p'-DDE	mg/kg		
p,p'-DDT	mg/kg		
DIELDRIN	mg/kg		
ALPHA ENDOSULFAN	mg/kg		
BETA ENDOSULFAN	mg/kg		
ENDOSULFAN SULFATE	mg/kg		
ENDRIN	mg/kg		
ENDRIN ALDEHYDE	mg/kg		
HEPTACHLOR EPOXIDE	mg/kg		
HEPTACHLOR	mg/kg		
METHOXYCHLOR	mg/kg		
TOXAPHENE	mg/kg		
PCB-1016 (AROCHLOR 1016)	mg/kg		
PCB-1221 (AROCHLOR 1221)	mg/kg		
PCB-1232 (AROCHLOR 1232)	mg/kg		
PCB-1242 (AROCHLOR 1242)	mg/kg		
PCB-1248 (AROCHLOR 1248)	mg/kg		
PCB-1254 (AROCHLOR 1254)	mg/kg		
PCB-1260 (AROCHLOR 1260)	mg/kg		
METALS			
ANTIMONY	mg/kg		
ARSENIC	mg/kg		
BARIUM	mg/kg		
BERYLLIUM	mg/kg		
CADMIUM	mg/kg		
CHROMIUM, TOTAL	mg/kg		
COBALT	mg/kg		
COPPER	mg/kg		

Notes:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Facility Location:		Adjacent Petroleum Facility	Adjacent Petroleum Facility
Boring Number:		MBH44	MBH44
Sample Depth:		4.5 to 5 ft.	10 to 10.5 ft.
Sample ID:		MBH44BS0102	MBH44BS0103
Collection Date:		11/01/96	11/01/96
Analyte	Units		
LEAD	mg/kg		
MERCURY	mg/kg		
MOLYBDENUM	mg/kg		
NICKEL	mg/kg		
SELENIUM	mg/kg		
SILVER	mg/kg		
THALLIUM	mg/kg		
VANADIUM	mg/kg		

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Facility Location:		Adjacent Petroleum Facility:	Adjacent Petroleum Facility:
Boring Number:		MBH44	MBH45
Sample Depth:		15 to 15.5 ft.	.5 to 1 ft.
Sample ID:		MBH44BS0104	MBH45BS0101
Collection Date:		11/01/96	10/31/96
Analyte	Units		
VOC			
BENZENE	ug/kg		
BROMOBENZENE	ug/kg		
BROMOCHLOROMETHANE	ug/kg		
BROMODICHLOROMETHANE	ug/kg		
BROMOFORM	ug/kg		
BROMOMETHANE	ug/kg		
n-BUTYLBENZENE	ug/kg		
SEC-BUTYLBENZENE	ug/kg		
tert-BUTYLBENZENE	ug/kg		
CARBON TETRACHLORIDE	ug/kg		
CHLOROBENZENE	ug/kg		
CHLOROETHANE	ug/kg		
CHLOROFORM	ug/kg		
CHLOROMETHANE	ug/kg		
2-CHLOROTOLUENE	ug/kg		
4-CHLOROTOLUENE	ug/kg		
DIBROMOCHLOROMETHANE	ug/kg		
1,2-DIBROMO-3-CHLOROPROPANE	ug/kg		
1,2-DIBROMOETHANE	ug/kg		
DIBROMOMETHANE	ug/kg		
1,2-DICHLOROBENZENE	ug/kg		
1,3-DICHLOROBENZENE	ug/kg		
1,4-DICHLOROBENZENE	ug/kg		
DICHLORODIFLUOROMETHANE	ug/kg		
1,1-DICHLOROETHANE	ug/kg		
1,2-DICHLOROETHANE	ug/kg		
1,1-DICHLOROETHENE	ug/kg		
cis-1,2-DICHLOROETHENE	ug/kg		
trans-1,2-DICHLOROETHENE	ug/kg		
1,2-DICHLOROPROPANE	ug/kg		
1,3-DICHLOROPROPANE	ug/kg		
2,2-DICHLOROPROPANE	ug/kg		
1,1-DICHLOROPROPENE	ug/kg		
1,1-DICHLOROPROPENE	ug/kg		
cis-1,3-DICHLOROPROPENE	ug/kg		
trans-1,3-DICHLOROPROPENE	ug/kg		
ETHYLBENZENE	ug/kg		
HEXACHLOROBUTADIENE	ug/kg		
ISOPROPYLBENZENE (CUMENE)	ug/kg		
p-ISOPROPYLTOLUENE	ug/kg		
METHYLENE CHLORIDE	ug/kg		
NAPHTHALENE	ug/kg		
n-PROPYLBENZENE	ug/kg		
STYRENE	ug/kg		
1,1,1,2-TETRACHLOROETHANE	ug/kg		
1,1,2,2-TETRACHLOROETHANE	ug/kg		
TETRACHLOROETHYLENE(PCE)	ug/kg		
TOLUENE	ug/kg		
1,2,3-TRICHLOROBENZENE	ug/kg		
1,2,4-TRICHLOROBENZENE	ug/kg		
1,1,1-TRICHLOROETHANE	ug/kg		
1,1,2-TRICHLOROETHANE	ug/kg		
TRICHLOROETHYLENE (TCE)	ug/kg		
TRICHLOROFLUOROMETHANE	ug/kg		
1,2,3-TRICHLOROPROPANE	ug/kg		
1,2,4-TRIMETHYLBENZENE	ug/kg		
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	ug/kg		
VINYL CHLORIDE	ug/kg		
O-XYLENE (1,2-DIMETHYLBENZENE)	ug/kg		
M,P-XYLENE (SUM OF ISOMERS)	ug/kg		
M-XYLENE (1,3-DIMETHYLBENZENE)	ug/kg		

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Facility Location:		Adjacent Petroleum Facility	Adjacent Petroleum Facility
Boring Number:		MBH44	MBH45
Sample Depth:		15 to 15.5 ft.	.5 to 1 ft.
Sample ID:		MBH44BS0104	MBH45BS0101
Collection Date:		11/01/96	10/31/96
Analyte	Units		
1,2-DICHLOROPROPYLENE	ug/kg		
PETROLEUM HYDROCARBONS			
TPH (C10 to C24)	mg/kg	5 U	5 U
TPH (C25 to C40)	mg/kg	5 U	6 =
HERBICIDES			
2,4,5-T (TRICHLOROPHENOXYACETIC ACID)	ug/kg		
SILVEX (2,4,5-TP)	ug/kg		
2,4-D (DICHLOROPHENOXYACETIC ACID)	ug/kg		
2,4 DB	ug/kg		
DALAPON	ug/kg		
DICAMBA	ug/kg		
DICHLOROPROP	ug/kg		
DINoseb	ug/kg		
PCBs			
PCB-1016 (AROCHLOR 1016)	ug/kg		50 U
PCB-1221 (AROCHLOR 1221)	ug/kg		50 U
PCB-1232 (AROCHLOR 1232)	ug/kg		50 U
PCB-1242 (AROCHLOR 1242)	ug/kg		50 U
PCB-1248 (AROCHLOR 1248)	ug/kg		50 U
PCB-1254 (AROCHLOR 1254)	ug/kg		50 U
PCB-1260 (AROCHLOR 1260)	ug/kg		50 U
PESTICIDES/PCBs			
ALDRIN	mg/kg		
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	mg/kg		
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	mg/kg		
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	mg/kg		
gamma-BHC (Lindane)	mg/kg		
CHLORDANE	mg/kg		
p,p'-DDD	mg/kg		
p,p'-DDE	mg/kg		
p,p'-DDT	mg/kg		
DIELDRIN	mg/kg		
ALPHA ENDOSULFAN	mg/kg		
BETA ENDOSULFAN	mg/kg		
ENDOSULFAN SULFATE	mg/kg		
ENDRIN	mg/kg		
ENDRIN ALDEHYDE	mg/kg		
HEPTACHLOR EPOXIDE	mg/kg		
HEPTACHLOR	mg/kg		
METHOXYCHLOR	mg/kg		
TOXAPHENE	mg/kg		
PCB-1016 (AROCHLOR 1016)	mg/kg		
PCB-1221 (AROCHLOR 1221)	mg/kg		
PCB-1232 (AROCHLOR 1232)	mg/kg		
PCB-1242 (AROCHLOR 1242)	mg/kg		
PCB-1248 (AROCHLOR 1248)	mg/kg		
PCB-1254 (AROCHLOR 1254)	mg/kg		
PCB-1260 (AROCHLOR 1260)	mg/kg		
METALS			
ANTIMONY	mg/kg		
ARSENIC	mg/kg		
BARIUM	mg/kg		
BERYLLIUM	mg/kg		
CADMIUM	mg/kg		
CHROMIUM, TOTAL	mg/kg		
COBALT	mg/kg		
COPPER	mg/kg		

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Facility Location:		Adjacent Petroleum Facility	Adjacent Petroleum Facility
Boring Number:		MBH44	MBH45
Sample Depth:		15 to 15.5 ft.	.5 to 1 ft.
Sample ID:		MBH44BS0104	MBH45BS0101
Collection Date:		11/01/96	10/31/96
Analyte	Units		
LEAD	mg/kg		
MERCURY	mg/kg		
MOLYBDENUM	mg/kg		
NICKEL	mg/kg		
SELENIUM	mg/kg		
SILVER	mg/kg		
THALLIUM	mg/kg		
VANADIUM	mg/kg		

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

	Facility Location:	Adjacent Petroleum Facility	Adjacent Petroleum Facility
	Boring Number:	MBH45	MBH46
	Sample Depth:	5 to 5.7 ft.	.5 to 1 ft.
	Sample ID:	MBH45BS0102	MBH46BS0101
	Collection Date:	10/31/96	10/31/96
Analyte	Units		
VOC			
BENZENE	ug/kg		
BROMOBENZENE	ug/kg		
BROMOCHLOROMETHANE	ug/kg		
BROMODICHLOROMETHANE	ug/kg		
BROMOFORM	ug/kg		
BROMOMETHANE	ug/kg		
n-BUTYLBENZENE	ug/kg		
SEC-BUTYLBENZENE	ug/kg		
tert-BUTYLBENZENE	ug/kg		
CARBON TETRACHLORIDE	ug/kg		
CHLOROBENZENE	ug/kg		
CHLOROETHANE	ug/kg		
CHLOROFORM	ug/kg		
CHLOROMETHANE	ug/kg		
2-CHLOROTOLUENE	ug/kg		
4-CHLOROTOLUENE	ug/kg		
DIBROMOCHLOROMETHANE	ug/kg		
1,2-DIBROMO-3-CHLOROPROPANE	ug/kg		
1,2-DIBROMOETHANE	ug/kg		
DIBROMOMETHANE	ug/kg		
1,2-DICHLOROBENZENE	ug/kg		
1,3-DICHLOROBENZENE	ug/kg		
1,4-DICHLOROBENZENE	ug/kg		
DICHLORODIFLUOROMETHANE	ug/kg		
1,1-DICHLOROETHANE	ug/kg		
1,2-DICHLOROETHANE	ug/kg		
1,1-DICHLOROETHENE	ug/kg		
cis-1,2-DICHLOROETHENE	ug/kg		
trans-1,2-DICHLOROETHENE	ug/kg		
1,2-DICHLOROPROPANE	ug/kg		
1,3-DICHLOROPROPANE	ug/kg		
2,2-DICHLOROPROPANE	ug/kg		
1,1-DICHLOROPROPENE	ug/kg		
1,1-DICHLOROPROPENE	ug/kg		
cis-1,3-DICHLOROPROPENE	ug/kg		
trans-1,3-DICHLOROPROPENE	ug/kg		
ETHYLBENZENE	ug/kg		
HEXACHLOROBUTADIENE	ug/kg		
ISOPROPYLBENZENE (CUMENE)	ug/kg		
p-ISOPROPYLTOLUENE	ug/kg		
METHYLENE CHLORIDE	ug/kg		
NAPHTHALENE	ug/kg		
n-PROPYLBENZENE	ug/kg		
STYRENE	ug/kg		
1,1,1,2-TETRACHLOROETHANE	ug/kg		
1,1,2,2-TETRACHLOROETHANE	ug/kg		
TETRACHLOROETHYLENE(PCE)	ug/kg		
TOLUENE	ug/kg		
1,2,3-TRICHLOROBENZENE	ug/kg		
1,2,4-TRICHLOROBENZENE	ug/kg		
1,1,1-TRICHLOROETHANE	ug/kg		
1,1,2-TRICHLOROETHANE	ug/kg		
TRICHLOROETHYLENE (TCE)	ug/kg		
TRICHLOROFLUOROMETHANE	ug/kg		
1,2,3-TRICHLOROPROPANE	ug/kg		
1,2,4-TRIMETHYLBENZENE	ug/kg		
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	ug/kg		
VINYL CHLORIDE	ug/kg		
O-XYLENE (1,2-DIMETHYLBENZENE)	ug/kg		
M,P-XYLENE (SUM OF ISOMERS)	ug/kg		
M-XYLENE (1,3-DIMETHYLBENZENE)	ug/kg		

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

	Facility Location:	Adjacent Petroleum Facility	Adjacent Petroleum Facility
	Boring Number:	MBH45	MBH46
	Sample Depth:	5 to 5.7 ft.	5 to 1 ft.
	Sample ID:	MBH45BS0102	MBH46BS0101
	Collection Date:	10/31/96	10/31/96
Analyte	Units		
1,2-DICHLOROPROPYLENE	ug/kg		
PETROLEUM HYDROCARBONS			
TPH (C10 to C24)	mg/kg	5 U	58 =
TPH (C25 to C40)	mg/kg	5 U	110 =
HERBICIDES			
2,4,5-T (TRICHLOROPHENOXYACETIC ACID)	ug/kg		
SILVEX (2,4,5-TP)	ug/kg		
2,4-D (DICHLOROPHENOXYACETIC ACID)	ug/kg		
2,4 DB	ug/kg		
DALAPON	ug/kg		
DICAMBA	ug/kg		
DICHLOROPROP	ug/kg		
DINoseb	ug/kg		
PCBs			
PCB-1016 (AROCHLOR 1016)	ug/kg	50 U	
PCB-1221 (AROCHLOR 1221)	ug/kg	50 U	
PCB-1232 (AROCHLOR 1232)	ug/kg	50 U	
PCB-1242 (AROCHLOR 1242)	ug/kg	50 U	
PCB-1248 (AROCHLOR 1248)	ug/kg	50 U	
PCB-1254 (AROCHLOR 1254)	ug/kg	50 U	
PCB-1260 (AROCHLOR 1260)	ug/kg	50 U	
PESTICIDES/PCBs			
ALDRIN	mg/kg		
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	mg/kg		
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	mg/kg		
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	mg/kg		
gamma-BHC (Lindane)	mg/kg		
CHLORDANE	mg/kg		
p,p'-DDD	mg/kg		
p,p'-DDE	mg/kg		
p,p'-DDT	mg/kg		
DIELDRIN	mg/kg		
ALPHA ENDOSULFAN	mg/kg		
BETA ENDOSULFAN	mg/kg		
ENDOSULFAN SULFATE	mg/kg		
ENDRIN	mg/kg		
ENDRIN ALDEHYDE	mg/kg		
HEPTACHLOR EPOXIDE	mg/kg		
HEPTACHLOR	mg/kg		
METHOXYCHLOR	mg/kg		
TOXAPHENE	mg/kg		
PCB-1016 (AROCHLOR 1016)	mg/kg		
PCB-1221 (AROCHLOR 1221)	mg/kg		
PCB-1232 (AROCHLOR 1232)	mg/kg		
PCB-1242 (AROCHLOR 1242)	mg/kg		
PCB-1248 (AROCHLOR 1248)	mg/kg		
PCB-1254 (AROCHLOR 1254)	mg/kg		
PCB-1260 (AROCHLOR 1260)	mg/kg		
METALS			
ANTIMONY	mg/kg		
ARSENIC	mg/kg		
BARIUM	mg/kg		
BERYLLIUM	mg/kg		
CADMIUM	mg/kg		
CHROMIUM, TOTAL	mg/kg		
COBALT	mg/kg		
COPPER	mg/kg		

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

	Facility Location:	Adjacent Petroleum Facility	Adjacent Petroleum Facility
	Boring Number:	MBH45	MBH46
	Sample Depth:	5 to 5.7 ft.	.5 to 1 ft.
	Sample ID:	MBH45BS0102	MBH46BS0101
	Collection Date:	10/31/96	10/31/96
Analyte	Units		
LEAD	mg/kg		
MERCURY	mg/kg		
MOLYBDENUM	mg/kg		
NICKEL	mg/kg		
SELENIUM	mg/kg		
SILVER	mg/kg		
THALLIUM	mg/kg		
VANADIUM	mg/kg		

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Facility Location:		Adjacent Petroleum Facility	HAZMAT Storage Area
Boring Number:		MBH46	MBH47
Sample Depth:		4.9 to 5.4 ft.	.5 to 1 ft.
Sample ID:		MBH46BS0102	MBH47BS0101
Collection Date:		10/31/96	10/29/96
Analyte	Units		
VOC			
BENZENE	ug/kg	2 U	2 U
BROMOBENZENE	ug/kg	2 U	2 U
BROMOCHLOROMETHANE	ug/kg	5 U	5 U
BROMODICHLOROMETHANE	ug/kg	2 U	2 U
BROMOFORM	ug/kg	5 U	5 U
BROMOMETHANE	ug/kg	5 U	5 U
n-BUTYLBENZENE	ug/kg	2 U	2 U
SEC-BUTYLBENZENE	ug/kg	2 U	2 U
tert-BUTYLBENZENE	ug/kg	2 U	2 U
CARBON TETRACHLORIDE	ug/kg	5 U	5 U
CHLOROBENZENE	ug/kg	2 U	2 U
CHLOROETHANE	ug/kg	5 U	5 U
CHLOROFORM	ug/kg	2 U	2 U
CHLOROMETHANE	ug/kg	5 U	5 U
2-CHLOROTOLUENE	ug/kg	2 U	2 U
4-CHLOROTOLUENE	ug/kg	2 U	2 U
DIBROMOCHLOROMETHANE	ug/kg	2 U	2 U
1,2-DIBROMO-3-CHLOROPROPANE	ug/kg	10 U	10 U
1,2-DIBROMOETHANE	ug/kg	2 U	2 U
DIBROMOMETHANE	ug/kg	5 U	5 U
1,2-DICHLOROBENZENE	ug/kg	2 U	2 U
1,3-DICHLOROBENZENE	ug/kg	2 U	2 U
1,4-DICHLOROBENZENE	ug/kg	2 U	2 U
DICHLORODIFLUOROMETHANE	ug/kg	5 U	5 U
1,1-DICHLOROETHANE	ug/kg	2 U	2 U
1,2-DICHLOROETHANE	ug/kg	2 U	2 U
1,1-DICHLOROETHENE	ug/kg	2 U	2 U
cis-1,2-DICHLOROETHENE	ug/kg	2 U	2 U
trans-1,2-DICHLOROETHENE	ug/kg	2 U	2 U
1,2-DICHLOROPROPANE	ug/kg	2 U	2 U
1,3-DICHLOROPROPANE	ug/kg	2 U	2 U
2,2-DICHLOROPROPANE	ug/kg	2 U	2 U
1,1-DICHLOROPROPENE	ug/kg		
1,1-DICHLOROPROPENE	ug/kg		
cis-1,3-DICHLOROPROPENE	ug/kg	2 U	2 U
trans-1,3-DICHLOROPROPENE	ug/kg	2 U	2 U
ETHYLBENZENE	ug/kg	2 U	2 U
HEXACHLOROBTADIENE	ug/kg	2 U	2 U
ISOPROPYLBENZENE (CUMENE)	ug/kg	2 U	2 U
p-ISOPROPYLTOLUENE	ug/kg	2 U	2 U
METHYLENE CHLORIDE	ug/kg	10 U	10 U
NAPHTHALENE	ug/kg	2 U	2 U
n-PROPYLBENZENE	ug/kg	2 U	2 U
STYRENE	ug/kg	2 U	2 U
1,1,1,2-TETRACHLOROETHANE	ug/kg	2 U	2 U
1,1,1,2-TETRACHLOROETHANE	ug/kg	2 U	2 U
TETRACHLOROETHYLENE(PCE)	ug/kg	2 U	2 U
TOLUENE	ug/kg	2 U	2 U
1,2,3-TRICHLOROBENZENE	ug/kg	2 U	2 U
1,2,4-TRICHLOROBENZENE	ug/kg	2 U	2 U
1,1,1-TRICHLOROETHANE	ug/kg	2 U	2 U
1,1,2-TRICHLOROETHANE	ug/kg	2 U	2 U
TRICHLOROETHYLENE (TCE)	ug/kg	2 U	2 U
TRICHLOROFLUOROMETHANE	ug/kg	5 U	5 U
1,2,3-TRICHLOROPROPANE	ug/kg	2 U	2 U
1,2,4-TRIMETHYLBENZENE	ug/kg	2 U	2 U
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	ug/kg	2 U	2 U
VINYL CHLORIDE	ug/kg	5 U	5 U
O-XYLENE (1,2-DIMETHYLBENZENE)	ug/kg	2 U	2 U
M,P-XYLENE (SUM OF ISOMERS)	ug/kg		
M-XYLENE (1,3-DIMETHYLBENZENE)	ug/kg	2 U	2 U

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Facility Location:		Adjacent Petroleum Facility:	HAZMAT Storage Area
Boring Number:		MBH46	MBH47
Sample Depth:		4.9 to 5.4 ft.	.5 to 1 ft.
Sample ID:		MBH46BS0102	MBH47BS0101
Collection Date:		10/31/96	10/29/96
Analyte	Units		
1,2-DICHLOROPROPYLENE	ug/kg	2 U	2 U
PETROLEUM HYDROCARBONS			
TPH (C10 to C24)	mg/kg	5 U	5 U
TPH (C25 to C40)	mg/kg	10 =	9 =
HERBICIDES			
2,4,5-T (TRICHLOROPHENOXYACETIC ACID)	ug/kg		
SILVEX (2,4,5-TP)	ug/kg		
2,4-D (DICHLOROPHENOXYACETIC ACID)	ug/kg		
2,4 DB	ug/kg		
DALAPON	ug/kg		
DICAMBA	ug/kg		
DICHLOROPROP	ug/kg		
DINOSEB	ug/kg		
PCBs			
PCB-1016 (AROCHLOR 1016)	ug/kg		50 U
PCB-1221 (AROCHLOR 1221)	ug/kg		50 U
PCB-1232 (AROCHLOR 1232)	ug/kg		50 U
PCB-1242 (AROCHLOR 1242)	ug/kg		50 U
PCB-1248 (AROCHLOR 1248)	ug/kg		50 U
PCB-1254 (AROCHLOR 1254)	ug/kg		50 U
PCB-1260 (AROCHLOR 1260)	ug/kg		50 U
PESTICIDES/PCBs			
ALDRIN	mg/kg		
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	mg/kg		
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	mg/kg		
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	mg/kg		
gamma-BHC (Lindane)	mg/kg		
CHLORDANE	mg/kg		
p,p'-DDD	mg/kg		
p,p'-DDE	mg/kg		
p,p'-DDT	mg/kg		
DIELDRIN	mg/kg		
ALPHA ENDOSULFAN	mg/kg		
BETA ENDOSULFAN	mg/kg		
ENDOSULFAN SULFATE	mg/kg		
ENDRIN	mg/kg		
ENDRIN ALDEHYDE	mg/kg		
HEPTACHLOR EPOXIDE	mg/kg		
HEPTACHLOR	mg/kg		
METHOXYCHLOR	mg/kg		
TOXAPHENE	mg/kg		
PCB-1016 (AROCHLOR 1016)	mg/kg		
PCB-1221 (AROCHLOR 1221)	mg/kg		
PCB-1232 (AROCHLOR 1232)	mg/kg		
PCB-1242 (AROCHLOR 1242)	mg/kg		
PCB-1248 (AROCHLOR 1248)	mg/kg		
PCB-1254 (AROCHLOR 1254)	mg/kg		
PCB-1260 (AROCHLOR 1260)	mg/kg		
METALS			
ANTIMONY	mg/kg		9 U
ARSENIC	mg/kg		.8 =
BARIUM	mg/kg		40.8 =
BERYLLIUM	mg/kg		.5 U
CADMIUM	mg/kg		1 U
CHROMIUM, TOTAL	mg/kg		2.5 =
COBALT	mg/kg		3 U
COPPER	mg/kg		4.7 =

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Facility Location:		Adjacent Petroleum Facility	HAZMAT Storage Area
Boring Number:		MBH46	MBH47
Sample Depth:		4.9 to 5.4 ft.	.5 to 1 ft.
Sample ID:		MBH46BS0102	MBH47BS0101
Collection Date:		10/31/96	10/29/96
Analyte	Units		
LEAD	mg/kg		10 U
MERCURY	mg/kg		.1 U
MOLYBDENUM	mg/kg		3 U
NICKEL	mg/kg		4 U
SELENIUM	mg/kg		.5 U
SILVER	mg/kg		2 U
THALLIUM	mg/kg		.1 U
VANADIUM	mg/kg		6.4 =

Note:
 NA - Not Analyzed
 U - Undetected
 = - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

	Facility Location:	HAZMAT Storage Area	HAZMAT Storage Area
	Boring Number:	MBH47	MBH47
	Sample Depth:	4 to 4.7 ft.	9.4 to 10 ft.
	Sample ID:	MBH47BS0102	MBH47BS0103
	Collection Date:	10/29/96	10/29/96
Analyte	Units		
VOC			
BENZENE	ug/kg	2 U	2 U
BROMOBENZENE	ug/kg	2 U	2 U
BROMOCHLOROMETHANE	ug/kg	5 U	5 U
BROMODICHLOROMETHANE	ug/kg	2 U	2 U
BROMOFORM	ug/kg	5 U	5 U
BROMOMETHANE	ug/kg	5 U	5 U
n-BUTYLBENZENE	ug/kg	2 U	2 U
SEC-BUTYLBENZENE	ug/kg	2 U	2 U
tert-BUTYLBENZENE	ug/kg	2 U	2 U
CARBON TETRACHLORIDE	ug/kg	5 U	5 U
CHLOROBENZENE	ug/kg	2 U	2 U
CHLOROETHANE	ug/kg	5 U	5 U
CHLOROFORM	ug/kg	2 U	2 U
CHLOROMETHANE	ug/kg	5 U	5 U
2-CHLOROTOLUENE	ug/kg	2 U	2 U
4-CHLOROTOLUENE	ug/kg	2 U	2 U
DIBROMOCHLOROMETHANE	ug/kg	2 U	2 U
1,2-DIBROMO-3-CHLOROPROPANE	ug/kg	10 U	10 U
1,2-DIBROMOETHANE	ug/kg	2 U	2 U
DIBROMOMETHANE	ug/kg	5 U	5 U
1,2-DICHLOROBENZENE	ug/kg	2 U	2 U
1,3-DICHLOROBENZENE	ug/kg	2 U	2 U
1,4-DICHLOROBENZENE	ug/kg	2 U	2 U
DICHLORODIFLUOROMETHANE	ug/kg	5 U	5 U
1,1-DICHLOROETHANE	ug/kg	2 U	2 U
1,2-DICHLOROETHANE	ug/kg	2 U	2 U
1,1-DICHLOROETHENE	ug/kg	2 U	2 U
cis-1,2-DICHLOROETHENE	ug/kg	2 U	2 U
trans-1,2-DICHLOROETHENE	ug/kg	2 U	2 U
1,2-DICHLOROPROPANE	ug/kg	2 U	2 U
1,3-DICHLOROPROPANE	ug/kg	2 U	2 U
2,2-DICHLOROPROPANE	ug/kg	2 U	2 U
1,1-DICHLOROPROPENE	ug/kg		
1,1-DICHLOROPROPENE	ug/kg		
cis-1,3-DICHLOROPROPENE	ug/kg	2 U	2 U
trans-1,3-DICHLOROPROPENE	ug/kg	2 U	2 U
ETHYLBENZENE	ug/kg	2 U	2 U
HEXACHLOROBUTADIENE	ug/kg	2 U	2 U
ISOPROPYLBENZENE (CUMENE)	ug/kg	2 U	2 U
p-ISOPROPYLTOLUENE	ug/kg	2 U	2 U
METHYLENE CHLORIDE	ug/kg	10 U	10 U
NAPHTHALENE	ug/kg	2 U	2 U
n-PROPYLBENZENE	ug/kg	2 U	2 U
STYRENE	ug/kg	2 U	2 U
1,1,1,2-TETRACHLOROETHANE	ug/kg	2 U	2 U
1,1,2,2-TETRACHLOROETHANE	ug/kg	2 U	2 U
TETRACHLOROETHYLENE(PCE)	ug/kg	2 U	2 U
TOLUENE	ug/kg	2 U	2 U
1,2,3-TRICHLOROBENZENE	ug/kg	2 U	2 U
1,2,4-TRICHLOROBENZENE	ug/kg	2 U	2 U
1,1,1-TRICHLOROETHANE	ug/kg	2 U	2 U
1,1,2-TRICHLOROETHANE	ug/kg	2 U	2 U
TRICHLOROETHYLENE (TCE)	ug/kg	2 U	2 U
TRICHLOROFLUOROMETHANE	ug/kg	5 U	5 U
1,2,3-TRICHLOROPROPANE	ug/kg	2 U	2 U
1,2,4-TRIMETHYLBENZENE	ug/kg	2 U	2 U
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	ug/kg	2 U	2 U
VINYL CHLORIDE	ug/kg	5 U	5 U
O-XYLENE (1,2-DIMETHYLBENZENE)	ug/kg	2 U	2 U
M,P-XYLENE (SUM OF ISOMERS)	ug/kg		
M-XYLENE (1,3-DIMETHYLBENZENE)	ug/kg	2 U	2 U

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Facility Location:		HAZMAT Storage Area	HAZMAT Storage Area
Boring Number:		MBH47	MBH47
Sample Depth:		4 to 4.7 ft.	9.4 to 10 ft.
Sample ID:		MBH47BS0102	MBH47BS0103
Collection Date:		10/29/96	10/29/96
Analyte	Units		
1,2-DICHLOROPROPYLENE	ug/kg	2 U	2 U
PETROLEUM HYDROCARBONS			
TPH (C10 to C24)	mg/kg	5 U	5 U
TPH (C25 to C40)	mg/kg	5 U	5 U
HERBICIDES			
2,4,5-T (TRICHLOROPHENOXYACETIC ACID)	ug/kg		
SILVEX (2,4,5-TP)	ug/kg		
2,4-D (DICHLOROPHENOXYACETIC ACID)	ug/kg		
2,4 DB	ug/kg		
DALAPON	ug/kg		
DICAMBA	ug/kg		
DICHLOROPROP	ug/kg		
DINoseb	ug/kg		
PCBs			
PCB-1016 (AROCHLOR 1016)	ug/kg	50 U	50 U
PCB-1221 (AROCHLOR 1221)	ug/kg	50 U	50 U
PCB-1232 (AROCHLOR 1232)	ug/kg	50 U	50 U
PCB-1242 (AROCHLOR 1242)	ug/kg	50 U	50 U
PCB-1248 (AROCHLOR 1248)	ug/kg	50 U	50 U
PCB-1254 (AROCHLOR 1254)	ug/kg	50 U	50 U
PCB-1260 (AROCHLOR 1260)	ug/kg	50 U	50 U
PESTICIDES/PCBs			
ALDRIN	mg/kg		
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	mg/kg		
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	mg/kg		
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	mg/kg		
gamma-BHC (Lindane)	mg/kg		
CHLORDANE	mg/kg		
p,p'-DDD	mg/kg		
p,p'-DDE	mg/kg		
p,p'-DDT	mg/kg		
DIELDRIN	mg/kg		
ALPHA ENDOSULFAN	mg/kg		
BETA ENDOSULFAN	mg/kg		
ENDOSULFAN SULFATE	mg/kg		
ENDRIN	mg/kg		
ENDRIN ALDEHYDE	mg/kg		
HEPTACHLOR EPOXIDE	mg/kg		
HEPTACHLOR	mg/kg		
METHOXYCHLOR	mg/kg		
TOXAPHENE	mg/kg		
PCB-1016 (AROCHLOR 1016)	mg/kg		
PCB-1221 (AROCHLOR 1221)	mg/kg		
PCB-1232 (AROCHLOR 1232)	mg/kg		
PCB-1242 (AROCHLOR 1242)	mg/kg		
PCB-1248 (AROCHLOR 1248)	mg/kg		
PCB-1254 (AROCHLOR 1254)	mg/kg		
PCB-1260 (AROCHLOR 1260)	mg/kg		
METALS			
ANTIMONY	mg/kg	9 U	9 U
ARSENIC	mg/kg	.9 =	.5 U
BARIUM	mg/kg	21.6 =	15.2 =
BERYLLIUM	mg/kg	.5 U	.5 U
CADMIUM	mg/kg	1 U	1 U
CHROMIUM, TOTAL	mg/kg	2 U	2 U
COBALT	mg/kg	3 U	3 U
COPPER	mg/kg	2 U	2 U

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Facility Location:		HAZMAT Storage Area	HAZMAT Storage Area
Boring Number:		MBH47	MBH47
Sample Depth:		4 to 4.7 ft.	9.4 to 10 ft.
Sample ID:		MBH47BS0102	MBH47BS0103
Collection Date:		10/29/96	10/29/96
Analyte	Units		
LEAD	mg/kg	10 U	10 U
MERCURY	mg/kg	.1 U	.1 U
MOLYBDENUM	mg/kg	3 U	3 U
NICKEL	mg/kg	4 U	4 U
SELENIUM	mg/kg	.5 U	.5 U
SILVER	mg/kg	2 U	2 U
THALLIUM	mg/kg	.1 U	.1 U
VANADIUM	mg/kg	2.6 =	3.7 =

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Facility Location:		HAZMAT Storage Area	HAZMAT Storage Area
Boring Number:		MBH48	MBH48
Sample Depth:		.5 to 1 ft.	1 to 1.5 ft.
Sample ID:		MBH48BS0101	MBH48BS0121
Collection Date:		10/29/96	10/29/96
Analyte	Units		
VOC			
BENZENE	ug/kg	2 U	2 U
BROMOBENZENE	ug/kg	2 U	2 U
BROMOCHLOROMETHANE	ug/kg	5 U	5 U
BROMODICHLOROMETHANE	ug/kg	2 U	2 U
BROMOFORM	ug/kg	5 U	5 U
BROMOMETHANE	ug/kg	5 U	5 U
n-BUTYLBENZENE	ug/kg	2 U	2 U
SEC-BUTYLBENZENE	ug/kg	2 U	2 U
tert-BUTYLBENZENE	ug/kg	2 U	2 U
CARBON TETRACHLORIDE	ug/kg	5 U	5 U
CHLOROBENZENE	ug/kg	2 U	2 U
CHLOROETHANE	ug/kg	5 U	5 U
CHLOROFORM	ug/kg	2 U	2 U
CHLOROMETHANE	ug/kg	5 U	5 U
2-CHLOROTOLUENE	ug/kg	2 U	2 U
4-CHLOROTOLUENE	ug/kg	2 U	2 U
DIBROMOCHLOROMETHANE	ug/kg	2 U	2 U
1,2-DIBROMO-3-CHLOROPROPANE	ug/kg	10 U	10 U
1,2-DIBROMOETHANE	ug/kg	2 U	2 U
DIBROMOMETHANE	ug/kg	5 U	5 U
1,2-DICHLOROBENZENE	ug/kg	2 U	2 U
1,3-DICHLOROBENZENE	ug/kg	2 U	2 U
1,4-DICHLOROBENZENE	ug/kg	2 U	2 U
DICHLORODIFLUOROMETHANE	ug/kg	5 U	5 U
1,1-DICHLOROETHANE	ug/kg	2 U	2 U
1,2-DICHLOROETHANE	ug/kg	2 U	2 U
1,1-DICHLOROETHENE	ug/kg	2 U	2 U
cis-1,2-DICHLOROETHENE	ug/kg	2 U	2 U
trans-1,2-DICHLOROETHENE	ug/kg	2 U	2 U
1,2-DICHLOROPROPANE	ug/kg	2 U	2 U
1,3-DICHLOROPROPANE	ug/kg	2 U	2 U
2,2-DICHLOROPROPANE	ug/kg	2 U	2 U
1,1-DICHLOROPROPENE	ug/kg		
1,1-DICHLOROPROPENE	ug/kg		
cis-1,3-DICHLOROPROPENE	ug/kg	2 U	2 U
trans-1,3-DICHLOROPROPENE	ug/kg	2 U	2 U
ETHYLBENZENE	ug/kg	2 U	2 U
HEXACHLOROBUTADIENE	ug/kg	2 U	2 U
ISOPROPYLBENZENE (CUMENE)	ug/kg	2 U	2 U
p-ISOPROPYLTOLUENE	ug/kg	2 U	2 U
METHYLENE CHLORIDE	ug/kg	10 U	10 U
NAPHTHALENE	ug/kg	2 U	2 U
n-PROPYLBENZENE	ug/kg	2 U	2 U
STYRENE	ug/kg	2 U	2 U
1,1,1,2-TETRACHLOROETHANE	ug/kg	2 U	2 U
1,1,2,2-TETRACHLOROETHANE	ug/kg	2 U	2 U
TETRACHLOROETHYLENE(PCE)	ug/kg	2 U	2 U
TOLUENE	ug/kg	2 U	2 U
1,2,3-TRICHLOROBENZENE	ug/kg	2 U	2 U
1,2,4-TRICHLOROBENZENE	ug/kg	2 U	2 U
1,1,1-TRICHLOROETHANE	ug/kg	2 U	2 U
1,1,2-TRICHLOROETHANE	ug/kg	2 U	2 U
TRICHLOROETHYLENE (TCE)	ug/kg	2 U	2 U
TRICHLOROFLUOROMETHANE	ug/kg	5 U	5 U
1,2,3-TRICHLOROPROPANE	ug/kg	2 U	2 U
1,2,4-TRIMETHYLBENZENE	ug/kg	2 U	2 U
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	ug/kg	2 U	2 U
VINYL CHLORIDE	ug/kg	5 U	5 U
O-XYLENE (1,2-DIMETHYLBENZENE)	ug/kg	2 U	2 U
M,P-XYLENE (SUM OF ISOMERS)	ug/kg		
M-XYLENE (1,3-DIMETHYLBENZENE)	ug/kg	2 U	2 U

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Facility Location:		HAZMAT Storage Area	HAZMAT Storage Area
Boring Number:		MBH48	MBH48
Sample Depth:		.5 to 1 ft.	1 to 1.5 ft.
Sample ID:		MBH48BS0101	MBH48BS0121
Collection Date:		10/29/96	10/29/96
Analyte	Units		
1,2-DICHLOROPROPYLENE	ug/kg	2 U	2 U
PETROLEUM HYDROCARBONS			
TPH (C10 to C24)	mg/kg	5 U	5 U
TPH (C25 to C40)	mg/kg	5 U	8 =
HERBICIDES			
2,4,5-T (TRICHLOROPHENOXYACETIC ACID)	ug/kg		
SILVEX (2,4,5-TP)	ug/kg		
2,4-D (DICHLOROPHENOXYACETIC ACID)	ug/kg		
2,4 DB	ug/kg		
DALAPON	ug/kg		
DICAMBA	ug/kg		
DICHLOROPROP	ug/kg		
DINOSEB	ug/kg		
PCBs			
PCB-1016 (AROCHLOR 1016)	ug/kg	50 U	50 U
PCB-1221 (AROCHLOR 1221)	ug/kg	50 U	50 U
PCB-1232 (AROCHLOR 1232)	ug/kg	50 U	50 U
PCB-1242 (AROCHLOR 1242)	ug/kg	50 U	50 U
PCB-1248 (AROCHLOR 1248)	ug/kg	50 U	50 U
PCB-1254 (AROCHLOR 1254)	ug/kg	50 U	50 U
PCB-1260 (AROCHLOR 1260)	ug/kg	50 U	50 U
PESTICIDES/PCBs			
ALDRIN	mg/kg		
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	mg/kg		
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	mg/kg		
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	mg/kg		
gamma-BHC (Lindane)	mg/kg		
CHLORDANE	mg/kg		
p,p'-DDD	mg/kg		
p,p'-DDE	mg/kg		
p,p'-DDT	mg/kg		
DIELDRIN	mg/kg		
ALPHA ENDOSULFAN	mg/kg		
BETA ENDOSULFAN	mg/kg		
ENDOSULFAN SULFATE	mg/kg		
ENDRIN	mg/kg		
ENDRIN ALDEHYDE	mg/kg		
HEPTACHLOR EPOXIDE	mg/kg		
HEPTACHLOR	mg/kg		
METHOXYCHLOR	mg/kg		
TOXAPHENE	mg/kg		
PCB-1016 (AROCHLOR 1016)	mg/kg		
PCB-1221 (AROCHLOR 1221)	mg/kg		
PCB-1232 (AROCHLOR 1232)	mg/kg		
PCB-1242 (AROCHLOR 1242)	mg/kg		
PCB-1248 (AROCHLOR 1248)	mg/kg		
PCB-1254 (AROCHLOR 1254)	mg/kg		
PCB-1260 (AROCHLOR 1260)	mg/kg		
METALS			
ANTIMONY	mg/kg	9 U	9 U
ARSENIC	mg/kg	.5 =	.9 =
BARIUM	mg/kg	42.9 =	25.5 =
BERYLLIUM	mg/kg	.5 U	.5 U
CADMIUM	mg/kg	1 U	1 U
CHROMIUM, TOTAL	mg/kg	5.9 =	2.7 =
COBALT	mg/kg	3 U	3 U
COPPER	mg/kg	5.5 =	2 U

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Facility Location:		HAZMAT Storage Area	HAZMAT Storage Area
Boring Number:		MBH48	MBH48
Sample Depth:		.5 to 1 ft.	1 to 1.5 ft.
Sample ID:		MBH48BS0101	MBH48BS0121
Collection Date:		10/29/96	10/29/96
Analyte	Units		
LEAD	mg/kg	10 U	10 U
MERCURY	mg/kg	.5 =	.4 =
MOLYBDENUM	mg/kg	3 U	3 U
NICKEL	mg/kg	9.1 =	4 U
SELENIUM	mg/kg	.5 U	.5 U
SILVER	mg/kg	25.9 =	24.9 =
THALLIUM	mg/kg	.1 U	.5 =
VANADIUM	mg/kg	15 =	5.2 =

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Analyte	Units	Facility Location:	HAZMAT Storage Area	HAZMAT Storage Area	Canal Dredge Spoils
		Boring Number:	MBH48	MBH48	MBH49
		Sample Depth:	5 to 5.7 ft.	10 to 10.7 ft.	.5 to 1 ft.
		Sample ID:	MBH48BS0102	MBH48BS0103	MBH49BS0101
		Collection Date:	10/29/96	10/29/96	11/05/96
VOC					
BENZENE	ug/kg		2 U		
BROMOBENZENE	ug/kg		2 U		
BROMOCHLOROMETHANE	ug/kg		5 U		
BROMODICHLOROMETHANE	ug/kg		2 U		
BROMOFORM	ug/kg		5 U		
BROMOMETHANE	ug/kg		5 U		
n-BUTYLBENZENE	ug/kg		2 U		
SEC-BUTYLBENZENE	ug/kg		2 U		
tert-BUTYLBENZENE	ug/kg		2 U		
CARBON TETRACHLORIDE	ug/kg		5 U		
CHLOROBENZENE	ug/kg		2 U		
CHLOROETHANE	ug/kg		5 U		
CHLOROFORM	ug/kg		2 U		
CHLOROMETHANE	ug/kg		5 U		
2-CHLOROTOLUENE	ug/kg		2 U		
4-CHLOROTOLUENE	ug/kg		2 U		
DIBROMOCHLOROMETHANE	ug/kg		2 U		
1,2-DIBROMO-3-CHLOROPROPANE	ug/kg		10 U		
1,2-DIBROMOETHANE	ug/kg		2 U		
DIBROMOMETHANE	ug/kg		5 U		
1,2-DICHLOROBENZENE	ug/kg		2 U		
1,3-DICHLOROBENZENE	ug/kg		2 U		
1,4-DICHLOROBENZENE	ug/kg		2 U		
DICHLORODIFLUOROMETHANE	ug/kg		5 U		
1,1-DICHLOROETHANE	ug/kg		2 U		
1,2-DICHLOROETHANE	ug/kg		2 U		
1,1-DICHLOROETHENE	ug/kg		2 U		
cis-1,2-DICHLOROETHENE	ug/kg		2 U		
trans-1,2-DICHLOROETHENE	ug/kg		2 U		
1,2-DICHLOROPROPANE	ug/kg		2 U		
1,3-DICHLOROPROPANE	ug/kg		2 U		
2,2-DICHLOROPROPANE	ug/kg		2 U		
1,1-DICHLOROPROPENE	ug/kg				
1,1-DICHLOROPROPENE	ug/kg				
cis-1,3-DICHLOROPROPENE	ug/kg		2 U		
trans-1,3-DICHLOROPROPENE	ug/kg		2 U		
ETHYLBENZENE	ug/kg		2 U		
HEXACHLOROBUTADIENE	ug/kg		2 U		
ISOPROPYLBENZENE (CUMENE)	ug/kg		2 U		
p-ISOPROPYLTOLUENE	ug/kg		2 U		
METHYLENE CHLORIDE	ug/kg		10 U		
NAPHTHALENE	ug/kg		2 U		
n-PROPYLBENZENE	ug/kg		2 U		
STYRENE	ug/kg		2 U		
1,1,1,2-TETRACHLOROETHANE	ug/kg		2 U		
1,1,1,2-TETRACHLOROETHANE	ug/kg		2 U		
TETRACHLOROETHYLENE(PCE)	ug/kg		2 U		
TOLUENE	ug/kg		2 U		
1,2,3-TRICHLOROBENZENE	ug/kg		2 U		
1,2,4-TRICHLOROBENZENE	ug/kg		2 U		
1,1,1-TRICHLOROETHANE	ug/kg		2 U		
1,1,2-TRICHLOROETHANE	ug/kg		2 U		
TRICHLOROETHYLENE (TCE)	ug/kg		2 U		
TRICHLOROFLUOROMETHANE	ug/kg		5 U		
1,2,3-TRICHLOROPROPANE	ug/kg		2 U		
1,2,4-TRIMETHYLBENZENE	ug/kg		2 U		
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	ug/kg		2 U		
VINYL CHLORIDE	ug/kg		5 U		
O-XYLENE (1,2-DIMETHYLBENZENE)	ug/kg		2 U		
M,P-XYLENE (SUM OF ISOMERS)	ug/kg				
M-XYLENE (1,3-DIMETHYLBENZENE)	ug/kg		2 U		

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

	Facility Location:	HAZMAT Storage Area	HAZMAT Storage Area	Canal Dredge Spoils
	Boring Number:	MBH48	MBH48	MBH49
	Sample Depth:	5 to 5.7 ft.	10 to 10.7 ft.	.5 to 1 ft.
	Sample ID:	MBH48BS0102	MBH48BS0103	MBH49BS0101
	Collection Date:	10/29/96	10/29/96	11/05/96
Analyte	Units			
1,2-DICHLOROPROPYLENE	ug/kg	2 U		
PETROLEUM HYDROCARBONS				
TPH (C10 to C24)	mg/kg	5 U		5 U
TPH (C25 to C40)	mg/kg	5 U		5 U
HERBICIDES				
2,4,5-T (TRICHLOROPHENOXYACETIC ACID)	ug/kg			
SILVEX (2,4,5-TP)	ug/kg			
2,4-D (DICHLOROPHENOXYACETIC ACID)	ug/kg			
2,4 DB	ug/kg			
DALAPON	ug/kg			
DICAMBA	ug/kg			
DICHLOROPROP	ug/kg			
DINoseb	ug/kg			
PCBs				
PCB-1016 (AROCHLOR 1016)	ug/kg	50 U		50 U
PCB-1221 (AROCHLOR 1221)	ug/kg	50 U		50 U
PCB-1232 (AROCHLOR 1232)	ug/kg	50 U		50 U
PCB-1242 (AROCHLOR 1242)	ug/kg	50 U		50 U
PCB-1248 (AROCHLOR 1248)	ug/kg	50 U		50 U
PCB-1254 (AROCHLOR 1254)	ug/kg	50 U		50 U
PCB-1260 (AROCHLOR 1260)	ug/kg	50 U		50 U
PESTICIDES/PCBs				
ALDRIN	mg/kg			
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	mg/kg			
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	mg/kg			
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	mg/kg			
gamma-BHC (Lindane)	mg/kg			
CHLORDANE	mg/kg			
p,p'-DDD	mg/kg			
p,p'-DDE	mg/kg			
p,p'-DDT	mg/kg			
DIELDRIN	mg/kg			
ALPHA ENDOSULFAN	mg/kg			
BETA ENDOSULFAN	mg/kg			
ENDOSULFAN SULFATE	mg/kg			
ENDRIN	mg/kg			
ENDRIN ALDEHYDE	mg/kg			
HEPTACHLOR EPOXIDE	mg/kg			
HEPTACHLOR	mg/kg			
METHOXYCHLOR	mg/kg			
TOXAPHENE	mg/kg			
PCB-1016 (AROCHLOR 1016)	mg/kg			
PCB-1221 (AROCHLOR 1221)	mg/kg			
PCB-1232 (AROCHLOR 1232)	mg/kg			
PCB-1242 (AROCHLOR 1242)	mg/kg			
PCB-1248 (AROCHLOR 1248)	mg/kg			
PCB-1254 (AROCHLOR 1254)	mg/kg			
PCB-1260 (AROCHLOR 1260)	mg/kg			
METALS				
ANTIMONY	mg/kg	9 U	9 U	24.8 =
ARSENIC	mg/kg	.6 =	1 U	1.9 =
BARIUM	mg/kg	37.7 =	30.1 =	59.9 =
BERYLLIUM	mg/kg	.5 U	.5 U	.5 U
CADMIUM	mg/kg	1 U	1 U	1 U
CHROMIUM, TOTAL	mg/kg	6.8 =	2.8 =	7.4 =
COBALT	mg/kg	3 U	3 U	3.3 =
COPPER	mg/kg	13.8 =	2 U	17.4 =

Note:

NA - Not Analyzed

U - Undetected

= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

	Facility Location:	HAZMAT Storage Area	HAZMAT Storage Area	Canal Dredge Spoils
	Boring Number:	MBH48	MBH48	MBH49
	Sample Depth:	5 to 5.7 ft.	10 to 10.7 ft.	.5 to 1 ft.
	Sample ID:	MBH48BS0102	MBH48BS0103	MBH49BS0101
	Collection Date:	10/29/96	10/29/96	11/05/96
Analyte	Units			
LEAD	mg/kg	10.1 =	10 U	10 U
MERCURY	mg/kg	.1 U	.09 U	.2 =
MOLYBDENUM	mg/kg	3 U	5.2 =	7.2 =
NICKEL	mg/kg	18.8 =	4 U	9.2 =
SELENIUM	mg/kg	.5 U	5 U	.5 U
SILVER	mg/kg	2.6 =	61.2 =	3.1 =
THALLIUM	mg/kg	.1 U	5 U	.1 U
VANADIUM	mg/kg	26 =	5.3 =	15.4 =

Note:
 NA - Not Analyzed
 U - Undetected
 = - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

	Facility Location:	Canal Dredge Spoils	Canal Dredge Spoils	Canal Dredge Spoils
	Boring Number:	MBH49	MBH50	MBH50
	Sample Depth:	4.9 to 5.2 ft.	.5 to 1 ft.	4.9 to 5.2 ft.
	Sample ID:	MBH49BS0102	MBH50BS0101	MBH50BS0102
	Collection Date:	11/05/96	11/05/96	11/05/96
Analyte	Units			
VOC				
BENZENE	ug/kg			
BROMOBENZENE	ug/kg			
BROMOCHLOROMETHANE	ug/kg			
BROMODICHLOROMETHANE	ug/kg			
BROMOFORM	ug/kg			
BROMOMETHANE	ug/kg			
n-BUTYLBENZENE	ug/kg			
SEC-BUTYLBENZENE	ug/kg			
tert-BUTYLBENZENE	ug/kg			
CARBON TETRACHLORIDE	ug/kg			
CHLOROBENZENE	ug/kg			
CHLOROETHANE	ug/kg			
CHLOROFORM	ug/kg			
CHLOROMETHANE	ug/kg			
2-CHLOROTOLUENE	ug/kg			
4-CHLOROTOLUENE	ug/kg			
DIBROMOCHLOROMETHANE	ug/kg			
1,2-DIBROMO-3-CHLOROPROPANE	ug/kg			
1,2-DIBROMOETHANE	ug/kg			
DIBROMOMETHANE	ug/kg			
1,2-DICHLOROBENZENE	ug/kg			
1,3-DICHLOROBENZENE	ug/kg			
1,4-DICHLOROBENZENE	ug/kg			
DICHLORODIFLUOROMETHANE	ug/kg			
1,1-DICHLOROETHANE	ug/kg			
1,2-DICHLOROETHANE	ug/kg			
1,1-DICHLOROETHENE	ug/kg			
cis-1,2-DICHLOROETHENE	ug/kg			
trans-1,2-DICHLOROETHENE	ug/kg			
1,2-DICHLOROPROPANE	ug/kg			
1,3-DICHLOROPROPANE	ug/kg			
2,2-DICHLOROPROPANE	ug/kg			
1,1-DICHLOROPROPENE	ug/kg			
1,1-DICHLOROPROPENE	ug/kg			
cis-1,3-DICHLOROPROPENE	ug/kg			
trans-1,3-DICHLOROPROPENE	ug/kg			
ETHYLBENZENE	ug/kg			
HEXACHLOROBUTADIENE	ug/kg			
ISOPROPYLBENZENE (CUMENE)	ug/kg			
p-ISOPROPYLTOLUENE	ug/kg			
METHYLENE CHLORIDE	ug/kg			
NAPHTHALENE	ug/kg			
n-PROPYLBENZENE	ug/kg			
STYRENE	ug/kg			
1,1,1,2-TETRACHLOROETHANE	ug/kg			
1,1,2,2-TETRACHLOROETHANE	ug/kg			
TETRACHLOROETHYLENE(PCE)	ug/kg			
TOLUENE	ug/kg			
1,2,3-TRICHLOROBENZENE	ug/kg			
1,2,4-TRICHLOROBENZENE	ug/kg			
1,1,1-TRICHLOROETHANE	ug/kg			
1,1,2-TRICHLOROETHANE	ug/kg			
TRICHLOROETHYLENE (TCE)	ug/kg			
TRICHLOROFLUOROMETHANE	ug/kg			
1,2,3-TRICHLOROPROPANE	ug/kg			
1,2,4-TRIMETHYLBENZENE	ug/kg			
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	ug/kg			
VINYL CHLORIDE	ug/kg			
O-XYLENE (1,2-DIMETHYLBENZENE)	ug/kg			
M,P-XYLENE (SUM OF ISOMERS)	ug/kg			
M-XYLENE (1,3-DIMETHYLBENZENE)	ug/kg			

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Facility Location: Boring Number:	Canal Dredge Spoils MBH49	Canal Dredge Spoils MBH50	Canal Dredge Spoils MBH50
Sample Depth:	4.9 to 5.2 ft.	.5 to 1 ft.	4.9 to 5.2 ft.
Sample ID:	MBH49BS0102	MBH50BS0101	MBH50BS0102
Collection Date:	11/05/96	11/05/96	11/05/96
Analyte	Units		
1,2-DICHLOROPROPYLENE	ug/kg		
PETROLEUM HYDROCARBONS			
TPH (C10 to C24)	mg/kg	5 U	5 U
TPH (C25 to C40)	mg/kg	5 U	5 U
HERBICIDES			
2,4,5-T (TRICHLOROPHENOXYACETIC ACID)	ug/kg		
SILVEX (2,4,5-TP)	ug/kg		
2,4-D (DICHLOROPHENOXYACETIC ACID)	ug/kg		
2,4 DB	ug/kg		
DALAPON	ug/kg		
DICAMBA	ug/kg		
DICHLOROPROP	ug/kg		
DINOSB	ug/kg		
PCBs			
PCB-1016 (AROCHLOR 1016)	ug/kg	50 U	50 U
PCB-1221 (AROCHLOR 1221)	ug/kg	50 U	50 U
PCB-1232 (AROCHLOR 1232)	ug/kg	50 U	50 U
PCB-1242 (AROCHLOR 1242)	ug/kg	50 U	50 U
PCB-1248 (AROCHLOR 1248)	ug/kg	50 U	50 U
PCB-1254 (AROCHLOR 1254)	ug/kg	50 U	50 U
PCB-1260 (AROCHLOR 1260)	ug/kg	50 U	50 U
PESTICIDES/PCBs			
ALDRIN	mg/kg		
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	mg/kg		
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	mg/kg		
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	mg/kg		
gamma-BHC (Lindane)	mg/kg		
CHLORDANE	mg/kg		
p,p'-DDD	mg/kg		
p,p'-DDE	mg/kg		
p,p'-DDT	mg/kg		
DIELDRIN	mg/kg		
ALPHA ENDOSULFAN	mg/kg		
BETA ENDOSULFAN	mg/kg		
ENDOSULFAN SULFATE	mg/kg		
ENDRIN	mg/kg		
ENDRIN ALDEHYDE	mg/kg		
HEPTACHLOR EPOXIDE	mg/kg		
HEPTACHLOR	mg/kg		
METHOXYCHLOR	mg/kg		
TOXAPHENE	mg/kg		
PCB-1016 (AROCHLOR 1016)	mg/kg		
PCB-1221 (AROCHLOR 1221)	mg/kg		
PCB-1232 (AROCHLOR 1232)	mg/kg		
PCB-1242 (AROCHLOR 1242)	mg/kg		
PCB-1248 (AROCHLOR 1248)	mg/kg		
PCB-1254 (AROCHLOR 1254)	mg/kg		
PCB-1260 (AROCHLOR 1260)	mg/kg		
METALS			
ANTIMONY	mg/kg	14.9 =	28.5 =
ARSENIC	mg/kg	1.5 =	2.8 =
BARIUM	mg/kg	28.6 =	72.7 =
BERYLLIUM	mg/kg	.5 U	.5 U
CADMIUM	mg/kg	1 U	1.1 =
CHROMIUM, TOTAL	mg/kg	6.1 =	10.1 =
COBALT	mg/kg	3 U	4.9 =
COPPER	mg/kg	5.7 =	20.9 =

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Facility Location:	Canal Dredge Spoils	Canal Dredge Spoils	Canal Dredge Spoils
Boring Number:	MBH49	MBH50	MBH50
Sample Depth:	4.9 to 5.2 ft.	.5 to 1 ft.	4.9 to 5.2 ft.
Sample ID:	MBH49BS0102	MBH50BS0101	MBH50BS0102
Collection Date:	11/05/96	11/05/96	11/05/96
Analyte	Units		
LEAD	mg/kg	10 U	10 U
MERCURY	mg/kg	.2 =	.4 =
MOLYBDENUM	mg/kg	5.8 =	8.3 =
NICKEL	mg/kg	8.5 =	11.4 =
SELENIUM	mg/kg	.5 U	.5 U
SILVER	mg/kg	3.4 =	2.5 =
THALLIUM	mg/kg	.1 U	.1 U
VANADIUM	mg/kg	19 =	19.8 =

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

	Facility Location:	Canal Dredge Spoils	Canal Dredge Spoils	Canal Dredge Spoils
	Boring Number:	MBH50	MBH51	MBH51
	Sample Depth:	9 to 9.4 ft.	.5 to 1 ft.	5 to 5.4 ft.
	Sample ID:	MBH50BS0103	MBH51BS0101	MBH51BS0102
	Collection Date:	11/05/96	11/05/96	11/05/96
Analyte	Units			
VOC				
BENZENE	ug/kg			
BROMOBENZENE	ug/kg			
BROMOCHLOROMETHANE	ug/kg			
BROMODICHLOROMETHANE	ug/kg			
BROMOFORM	ug/kg			
BROMOMETHANE	ug/kg			
n-BUTYLBENZENE	ug/kg			
SEC-BUTYLBENZENE	ug/kg			
tert-BUTYLBENZENE	ug/kg			
CARBON TETRACHLORIDE	ug/kg			
CHLOROBENZENE	ug/kg			
CHLOROETHANE	ug/kg			
CHLOROFORM	ug/kg			
CHLOROMETHANE	ug/kg			
2-CHLOROTOLUENE	ug/kg			
4-CHLOROTOLUENE	ug/kg			
DIBROMOCHLOROMETHANE	ug/kg			
1,2-DIBROMO-3-CHLOROPROPANE	ug/kg			
1,2-DIBROMOETHANE	ug/kg			
DIBROMOMETHANE	ug/kg			
1,2-DICHLOROBENZENE	ug/kg			
1,3-DICHLOROBENZENE	ug/kg			
1,4-DICHLOROBENZENE	ug/kg			
DICHLORODIFLUOROMETHANE	ug/kg			
1,1-DICHLOROETHANE	ug/kg			
1,2-DICHLOROETHANE	ug/kg			
1,1-DICHLOROETHENE	ug/kg			
cis-1,2-DICHLOROETHENE	ug/kg			
trans-1,2-DICHLOROETHENE	ug/kg			
1,2-DICHLOROPROPANE	ug/kg			
1,3-DICHLOROPROPANE	ug/kg			
2,2-DICHLOROPROPANE	ug/kg			
1,1-DICHLOROPROPENE	ug/kg			
1,1-DICHLOROPROPENE	ug/kg			
cis-1,3-DICHLOROPROPENE	ug/kg			
trans-1,3-DICHLOROPROPENE	ug/kg			
ETHYLBENZENE	ug/kg			
HEXACHLOROBTADIENE	ug/kg			
ISOPROPYLBENZENE (CUMENE)	ug/kg			
p-ISOPROPYLTOLUENE	ug/kg			
METHYLENE CHLORIDE	ug/kg			
NAPHTHALENE	ug/kg			
n-PROPYLBENZENE	ug/kg			
STYRENE	ug/kg			
1,1,1,2-TETRACHLOROETHANE	ug/kg			
1,1,2,2-TETRACHLOROETHANE	ug/kg			
TETRACHLOROETHYLENE(PCE)	ug/kg			
TOLUENE	ug/kg			
1,2,3-TRICHLOROBENZENE	ug/kg			
1,2,4-TRICHLOROBENZENE	ug/kg			
1,1,1-TRICHLOROETHANE	ug/kg			
1,1,2-TRICHLOROETHANE	ug/kg			
TRICHLOROETHYLENE (TCE)	ug/kg			
TRICHLOROFLUOROMETHANE	ug/kg			
1,2,3-TRICHLOROPROPANE	ug/kg			
1,2,4-TRIMETHYLBENZENE	ug/kg			
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	ug/kg			
VINYL CHLORIDE	ug/kg			
O-XYLENE (1,2-DIMETHYLBENZENE)	ug/kg			
M,P-XYLENE (SUM OF ISOMERS)	ug/kg			
M-XYLENE (1,3-DIMETHYLBENZENE)	ug/kg			

Note:

NA - Not Analyzed

U - Undetected

= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Facility Location:		Canal Dredge Spoils	Canal Dredge Spoils	Canal Dredge Spoils
Boring Number:		MBH50	MBH51	MBH51
Sample Depth:		9 to 9.4 ft.	.5 to 1 ft.	5 to 5.4 ft.
Sample ID:		MBH50BS0103	MBH51BS0101	MBH51BS0102
Collection Date:		11/05/96	11/05/96	11/05/96
Analyte	Units			
1,2-DICHLOROPROPYLENE	ug/kg			
PETROLEUM HYDROCARBONS				
TPH (C10 to C24)	mg/kg	5 U	5 U	5 U
TPH (C25 to C40)	mg/kg	5 U	5 U	5 U
HERBICIDES				
2,4,5-T (TRICHLOROPHENOXYACETIC ACID)	ug/kg			
SILVEX (2,4,5-TP)	ug/kg			
2,4-D (DICHLOROPHENOXYACETIC ACID)	ug/kg			
2,4 DB	ug/kg			
DALAPON	ug/kg			
DICAMBA	ug/kg			
DICHLOROPROP	ug/kg			
DINOSEB	ug/kg			
PCBs				
PCB-1016 (AROCHLOR 1016)	ug/kg	50 U	50 U	50 U
PCB-1221 (AROCHLOR 1221)	ug/kg	50 U	50 U	50 U
PCB-1232 (AROCHLOR 1232)	ug/kg	50 U	50 U	50 U
PCB-1242 (AROCHLOR 1242)	ug/kg	50 U	50 U	50 U
PCB-1248 (AROCHLOR 1248)	ug/kg	50 U	50 U	50 U
PCB-1254 (AROCHLOR 1254)	ug/kg	50 U	50 U	50 U
PCB-1260 (AROCHLOR 1260)	ug/kg	50 U	50 U	50 U
PESTICIDES/PCBs				
ALDRIN	mg/kg			
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	mg/kg			
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	mg/kg			
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	mg/kg			
gamma-BHC (Lindane)	mg/kg			
CHLORDANE	mg/kg			
p,p'-DDD	mg/kg			
p,p'-DDE	mg/kg			
p,p'-DDT	mg/kg			
DIELDRIN	mg/kg			
ALPHA ENDOSULFAN	mg/kg			
BETA ENDOSULFAN	mg/kg			
ENDOSULFAN SULFATE	mg/kg			
ENDRIN	mg/kg			
ENDRIN ALDEHYDE	mg/kg			
HEPTACHLOR EPOXIDE	mg/kg			
HEPTACHLOR	mg/kg			
METHOXYCHLOR	mg/kg			
TOXAPHENE	mg/kg			
PCB-1016 (AROCHLOR 1016)	mg/kg			
PCB-1221 (AROCHLOR 1221)	mg/kg			
PCB-1232 (AROCHLOR 1232)	mg/kg			
PCB-1242 (AROCHLOR 1242)	mg/kg			
PCB-1248 (AROCHLOR 1248)	mg/kg			
PCB-1254 (AROCHLOR 1254)	mg/kg			
PCB-1260 (AROCHLOR 1260)	mg/kg			
METALS				
ANTIMONY	mg/kg	23.9 =	18.9 =	13.9 =
ARSENIC	mg/kg	1.7 =	1.2 =	.6 =
BARJUM	mg/kg	57.3 =	19.1 =	16.9 =
BERYLLIUM	mg/kg	.5 U	.5 U	.5 U
CADMIUM	mg/kg	1 U	1 U	1 U
CHROMIUM, TOTAL	mg/kg	7.4 =	3.3 =	2 =
COBALT	mg/kg	3.6 =	3 U	3 U
COPPER	mg/kg	13.4 =	4.9 =	2 U

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Facility Location:		Canal Dredge Spoils	Canal Dredge Spoils	Canal Dredge Spoils
Boring Number:		MBH50	MBH51	MBH51
Sample Depth:		9 to 9.4 ft.	.5 to 1 ft.	5 to 5.4 ft.
Sample ID:		MBH50BS0103	MBH51BS0101	MBH51BS0102
Collection Date:		11/05/96	11/05/96	11/05/96
Analyte	Units			
LEAD	mg/kg	10 U	10 U	10 U
MERCURY	mg/kg	.3 =	.2 =	.3 =
MOLYBDENUM	mg/kg	6.2 =	5.9 =	5.1 =
NICKEL	mg/kg	8.3 =	4 U	4 U
SELENIUM	mg/kg	.5 U	.5 U	.5 U
SILVER	mg/kg	2.6 =	2.2 =	2 U
THALLIUM	mg/kg	.1 U	.1 U	.1 U
VANADIUM	mg/kg	14.6 =	8.7 =	3.9 =

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Facility Location:		Skimmer	Skimmer	Skimmer
Boring Number:		MBH52	MBH52	MBH52
Sample Depth:		1 to 1.5 ft.	5 to 5.4 ft.	5.4 to 5.8 ft.
Sample ID:		MBH52BS0101	MBH52BS0102	MBH52BS0122
Collection Date:		10/31/96	10/31/96	10/31/96
Analyte	Units			
VOC				
BENZENE	ug/kg			
BROMOBENZENE	ug/kg			
BROMOCHLOROMETHANE	ug/kg			
BROMODICHLOROMETHANE	ug/kg			
BROMOFORM	ug/kg			
BROMOMETHANE	ug/kg			
n-BUTYLBENZENE	ug/kg			
SEC-BUTYLBENZENE	ug/kg			
tert-BUTYLBENZENE	ug/kg			
CARBON TETRACHLORIDE	ug/kg			
CHLOROBENZENE	ug/kg			
CHLOROETHANE	ug/kg			
CHLOROFORM	ug/kg			
CHLOROMETHANE	ug/kg			
2-CHLOROTOLUENE	ug/kg			
4-CHLOROTOLUENE	ug/kg			
DIBROMOCHLOROMETHANE	ug/kg			
1,2-DIBROMO-3-CHLOROPROPANE	ug/kg			
1,2-DIBROMOETHANE	ug/kg			
DIBROMOMETHANE	ug/kg			
1,2-DICHLOROBENZENE	ug/kg			
1,3-DICHLOROBENZENE	ug/kg			
1,4-DICHLOROBENZENE	ug/kg			
DICHLORODIFLUOROMETHANE	ug/kg			
1,1-DICHLOROETHANE	ug/kg			
1,2-DICHLOROETHANE	ug/kg			
1,1-DICHLOROETHENE	ug/kg			
cis-1,2-DICHLOROETHENE	ug/kg			
trans-1,2-DICHLOROETHENE	ug/kg			
1,2-DICHLOROPROPANE	ug/kg			
1,3-DICHLOROPROPANE	ug/kg			
2,2-DICHLOROPROPANE	ug/kg			
1,1-DICHLOROPROPENE	ug/kg			
1,1-DICHLOROPROPENE	ug/kg			
cis-1,3-DICHLOROPROPENE	ug/kg			
trans-1,3-DICHLOROPROPENE	ug/kg			
ETHYLBENZENE	ug/kg			
HEXACHLOROBUTADIENE	ug/kg			
ISOPROPYLBENZENE (CUMENE)	ug/kg			
p-ISOPROPYLTOLUENE	ug/kg			
METHYLENE CHLORIDE	ug/kg			
NAPHTHALENE	ug/kg			
n-PROPYLBENZENE	ug/kg			
STYRENE	ug/kg			
1,1,1,2-TETRACHLOROETHANE	ug/kg			
1,1,2,2-TETRACHLOROETHANE	ug/kg			
TETRACHLOROETHYLENE(PCE)	ug/kg			
TOLUENE	ug/kg			
1,2,3-TRICHLOROBENZENE	ug/kg			
1,2,4-TRICHLOROBENZENE	ug/kg			
1,1,1-TRICHLOROETHANE	ug/kg			
1,1,2-TRICHLOROETHANE	ug/kg			
TRICHLOROETHYLENE (TCE)	ug/kg			
TRICHLOROFLUOROMETHANE	ug/kg			
1,2,3-TRICHLOROPROPANE	ug/kg			
1,2,4-TRIMETHYLBENZENE	ug/kg			
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	ug/kg			
VINYL CHLORIDE	ug/kg			
O-XYLENE (1,2-DIMETHYLBENZENE)	ug/kg			
M,P-XYLENE (SUM OF ISOMERS)	ug/kg			
M-XYLENE (1,3-DIMETHYLBENZENE)	ug/kg			

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Facility Location:	Skimmer	Skimmer	Skimmer
Boring Number:	MBH52	MBH52	MBH52
Sample Depth:	1 to 1.5 ft.	5 to 5.4 ft.	5.4 to 5.8 ft.
Sample ID:	MBH52BS0101	MBH52BS0102	MBH52BS0122
Collection Date:	10/31/96	10/31/96	10/31/96
Analyte	Units		
1,2-DICHLOROPROPYLENE	ug/kg		
PETROLEUM HYDROCARBONS			
TPH (C10 to C24)	mg/kg	5 U	500 U
TPH (C25 to C40)	mg/kg	5 U	500 U
HERBICIDES			
2,4,5-T (TRICHLOROPHENOXYACETIC ACID)	ug/kg		
SILVEX (2,4,5-TP)	ug/kg		
2,4-D (DICHLOROPHENOXYACETIC ACID)	ug/kg		
2,4 DB	ug/kg		
DALAPON	ug/kg		
DICAMBA	ug/kg		
DICHLOROPROP	ug/kg		
DINoseb	ug/kg		
PCBs			
PCB-1016 (AROCHLOR 1016)	ug/kg		
PCB-1221 (AROCHLOR 1221)	ug/kg		
PCB-1232 (AROCHLOR 1232)	ug/kg		
PCB-1242 (AROCHLOR 1242)	ug/kg		
PCB-1248 (AROCHLOR 1248)	ug/kg		
PCB-1254 (AROCHLOR 1254)	ug/kg		
PCB-1260 (AROCHLOR 1260)	ug/kg		
PESTICIDES/PCBs			
ALDRIN	mg/kg		
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	mg/kg		
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	mg/kg		
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	mg/kg		
gamma-BHC (Lindane)	mg/kg		
CHLORDANE	mg/kg		
p,p'-DDD	mg/kg		
p,p'-DDE	mg/kg		
p,p'-DDT	mg/kg		
DIELDRIN	mg/kg		
ALPHA ENDOSULFAN	mg/kg		
BETA ENDOSULFAN	mg/kg		
ENDOSULFAN SULFATE	mg/kg		
ENDRIN	mg/kg		
ENDRIN ALDEHYDE	mg/kg		
HEPTACHLOR EPOXIDE	mg/kg		
HEPTACHLOR	mg/kg		
METHOXYCHLOR	mg/kg		
TOXAPHENE	mg/kg		
PCB-1016 (AROCHLOR 1016)	mg/kg		
PCB-1221 (AROCHLOR 1221)	mg/kg		
PCB-1232 (AROCHLOR 1232)	mg/kg		
PCB-1242 (AROCHLOR 1242)	mg/kg		
PCB-1248 (AROCHLOR 1248)	mg/kg		
PCB-1254 (AROCHLOR 1254)	mg/kg		
PCB-1260 (AROCHLOR 1260)	mg/kg		
METALS			
ANTIMONY	mg/kg	9 U	9 U
ARSENIC	mg/kg	1.6 =	2.9 =
BARIUM	mg/kg	59.8 =	216 =
BERYLLIUM	mg/kg	.5 U	.5 U
CADMIUM	mg/kg	1 U	1 U
CHROMIUM, TOTAL	mg/kg	10.3 =	7.9 =
COBALT	mg/kg	3 U	3 U
COPPER	mg/kg	2.8 =	8.8 =

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

	Facility Location:	Skimmer	Skimmer	Skimmer
	Boring Number:	MBH52	MBH52	MBH52
	Sample Depth:	1 to 1.5 ft.	5 to 5.4 ft.	5.4 to 5.8 ft.
	Sample ID:	MBH52BS0101	MBH52BS0102	MBH52BS0122
	Collection Date:	10/31/96	10/31/96	10/31/96
Analyte	Units			
LEAD	mg/kg	10 U	10 U	10 U
MERCURY	mg/kg	.08 U	.08 U	.08 U
MOLYBDENUM	mg/kg	3 U	3 U	3 U
NICKEL	mg/kg	4.5 =	13.5 =	4.6 =
SELENIUM	mg/kg	.4 U	.4 U	.4 U
SILVER	mg/kg	2 U	2 U	2 U
THALLIUM	mg/kg	.44 U	.44 U	.44 U
VANADIUM	mg/kg	22.2 =	27.5 =	10.2 =

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Facility Location:		West Fuel Storage Tank	West Fuel Storage Tank	Canal
Boring Number:		MBH53	MBH53	MBH54
Sample Depth:		.5 to 1 ft.	5 to 5.4 ft.	0 to 0 ft.
Sample ID:		MBH53BS0101	MBH53BS0102	MBH54SL0104
Collection Date:		11/04/96	11/04/96	11/18/96
Analyte	Units			
VOC				
BENZENE	ug/kg			
BROMOBENZENE	ug/kg			
BROMOCHLOROMETHANE	ug/kg			
BROMODICHLOROMETHANE	ug/kg			
BROMOFORM	ug/kg			
BROMOMETHANE	ug/kg			
n-BUTYLBENZENE	ug/kg			
SEC-BUTYLBENZENE	ug/kg			
tert-BUTYLBENZENE	ug/kg			
CARBON TETRACHLORIDE	ug/kg			
CHLOROBENZENE	ug/kg			
CHLOROETHANE	ug/kg			
CHLOROFORM	ug/kg			
CHLOROMETHANE	ug/kg			
2-CHLOROTOLUENE	ug/kg			
4-CHLOROTOLUENE	ug/kg			
DIBROMOCHLOROMETHANE	ug/kg			
1,2-DIBROMO-3-CHLOROPROPANE	ug/kg			
1,2-DIBROMOETHANE	ug/kg			
DIBROMOMETHANE	ug/kg			
1,2-DICHLOROBENZENE	ug/kg			
1,3-DICHLOROBENZENE	ug/kg			
1,4-DICHLOROBENZENE	ug/kg			
DICHLORODIFLUOROMETHANE	ug/kg			
1,1-DICHLOROETHANE	ug/kg			
1,2-DICHLOROETHANE	ug/kg			
1,1-DICHLOROETHENE	ug/kg			
cis-1,2-DICHLOROETHENE	ug/kg			
trans-1,2-DICHLOROETHENE	ug/kg			
1,2-DICHLOROPROPANE	ug/kg			
1,3-DICHLOROPROPANE	ug/kg			
2,2-DICHLOROPROPANE	ug/kg			
1,1-DICHLOROPROPENE	ug/kg			
1,1-DICHLOROPROPENE	ug/kg			
cis-1,3-DICHLOROPROPENE	ug/kg			
trans-1,3-DICHLOROPROPENE	ug/kg			
ETHYLBENZENE	ug/kg			
HEXACHLOROBUTADIENE	ug/kg			
ISOPROPYLBENZENE (CUMENE)	ug/kg			
p-ISOPROPYLTOLUENE	ug/kg			
METHYLENE CHLORIDE	ug/kg			
NAPHTHALENE	ug/kg			
n-PROPYLBENZENE	ug/kg			
STYRENE	ug/kg			
1,1,1,2-TETRACHLOROETHANE	ug/kg			
1,1,1,2-TETRACHLOROETHANE	ug/kg			
TETRACHLOROETHYLENE(PCE)	ug/kg			
TOLUENE	ug/kg			
1,2,3-TRICHLOROBENZENE	ug/kg			
1,2,4-TRICHLOROBENZENE	ug/kg			
1,1,1-TRICHLOROETHANE	ug/kg			
1,1,2-TRICHLOROETHANE	ug/kg			
TRICHLOROETHYLENE (TCE)	ug/kg			
TRICHLOROFLUOROMETHANE	ug/kg			
1,2,3-TRICHLOROPROPANE	ug/kg			
1,2,4-TRIMETHYLBENZENE	ug/kg			
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	ug/kg			
VINYL CHLORIDE	ug/kg			
O-XYLENE (1,2-DIMETHYLBENZENE)	ug/kg			
M,P-XYLENE (SUM OF ISOMERS)	ug/kg			
M-XYLENE (1,3-DIMETHYLBENZENE)	ug/kg			

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

	Facility Location:	West Fuel Storage Tank	West Fuel Storage Tank	Canal
	Boring Number:	MBH53	MBH53	MBH54
	Sample Depth:	.5 to 1 ft.	5 to 5.4 ft.	0 to 0 ft.
	Sample ID:	MBH53BS0101	MBH53BS0102	MBH54SL0104
	Collection Date:	11/04/96	11/04/96	11/18/96
Analyte	Units			
1,2-DICHLOROPROPYLENE	ug/kg			
PETROLEUM HYDROCARBONS				
TPH (C10 to C24)	mg/kg	5 U	5 U	6 =
TPH (C25 to C40)	mg/kg	8 =	8 =	10 =
HERBICIDES				
2,4,5-T (TRICHLOROPHENOXYACETIC ACID)	ug/kg			
SILVEX (2,4,5-TP)	ug/kg			
2,4-D (DICHLOROPHENOXYACETIC ACID)	ug/kg			
2,4 DB	ug/kg			
DALAPON	ug/kg			
DICAMBA	ug/kg			
DICHLOROPROP	ug/kg			
DINOSEB	ug/kg			
PCBs				
PCB-1016 (AROCHLOR 1016)	ug/kg			
PCB-1221 (AROCHLOR 1221)	ug/kg			
PCB-1232 (AROCHLOR 1232)	ug/kg			
PCB-1242 (AROCHLOR 1242)	ug/kg			
PCB-1248 (AROCHLOR 1248)	ug/kg			
PCB-1254 (AROCHLOR 1254)	ug/kg			
PCB-1260 (AROCHLOR 1260)	ug/kg			
PESTICIDES/PCBs				
ALDRIN	mg/kg			.003 U
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	mg/kg			.002 U
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	mg/kg			.004 U
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	mg/kg			.006 U
gamma-BHC (Lindane)	mg/kg			.003 U
CHLORDANE	mg/kg			.009 U
p,p'-DDD	mg/kg			.007 U
p,p'-DDE	mg/kg			.003 U
p,p'-DDT	mg/kg			.008 U
DIELDRIN	mg/kg			.001 U
ALPHA ENDOSULFAN	mg/kg			.009 U
BETA ENDOSULFAN	mg/kg			.003 U
ENDOSULFAN SULFATE	mg/kg			.044 U
ENDRIN	mg/kg			.004 U
ENDRIN ALDEHYDE	mg/kg			.015 U
HEPTACHLOR EPOXIDE	mg/kg			.056 U
HEPTACHLOR	mg/kg			.002 U
METHOXYCHLOR	mg/kg			.118 U
TOXAPHENE	mg/kg			.161 U
PCB-1016 (AROCHLOR 1016)	mg/kg			.5 U
PCB-1221 (AROCHLOR 1221)	mg/kg			.5 U
PCB-1232 (AROCHLOR 1232)	mg/kg			.5 U
PCB-1242 (AROCHLOR 1242)	mg/kg			.5 U
PCB-1248 (AROCHLOR 1248)	mg/kg			.5 U
PCB-1254 (AROCHLOR 1254)	mg/kg			.5 U
PCB-1260 (AROCHLOR 1260)	mg/kg			.5 U
METALS				
ANTIMONY	mg/kg			22.8 =
ARSENIC	mg/kg			2.2 =
BARIUM	mg/kg			183 =
BERYLLIUM	mg/kg			.5 U
CADMIUM	mg/kg			1 U
CHROMIUM, TOTAL	mg/kg			10.5 =
COBALT	mg/kg			3.6 =
COPPER	mg/kg			37.1 =

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Facility Location:		West Fuel Storage Tank	West Fuel Storage Tank	Canal
Boring Number:		MBH53	MBH53	MBH54
Sample Depth:		.5 to 1 ft.	5 to 5.4 ft.	0 to 0 ft.
Sample ID:		MBH53BS0101	MBH53BS0102	MBH54SL0104
Collection Date:		11/04/96	11/04/96	11/18/96
Analyte	Units			
LEAD	mg/kg			10 U
MERCURY	mg/kg			1.6 =
MOLYBDENUM	mg/kg			4.3 =
NICKEL	mg/kg			8.8 =
SELENIUM	mg/kg			.5 U
SILVER	mg/kg			2 U
THALLIUM	mg/kg			1 =
VANADIUM	mg/kg			17.4 =

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Facility Location:	Canal	Canal	Canal
Boring Number:	MBH54	MBH55	MBH56
Sample Depth:	0 to 0 ft.	0 to 0 ft.	0 to 0 ft.
Sample ID:	MBH54SL0124	MBH55SL0104	MBH56SL0104
Collection Date:	11/18/96	11/18/96	11/15/96
Analyte	Units		
VOC			
BENZENE	ug/kg		
BROMOBENZENE	ug/kg		
BROMOCHLOROMETHANE	ug/kg		
BROMODICHLOROMETHANE	ug/kg		
BROMOFORM	ug/kg		
BROMOMETHANE	ug/kg		
n-BUTYLBENZENE	ug/kg		
SEC-BUTYLBENZENE	ug/kg		
tert-BUTYLBENZENE	ug/kg		
CARBON TETRACHLORIDE	ug/kg		
CHLOROBENZENE	ug/kg		
CHLOROETHANE	ug/kg		
CHLOROFORM	ug/kg		
CHLOROMETHANE	ug/kg		
2-CHLOROTOLUENE	ug/kg		
4-CHLOROTOLUENE	ug/kg		
DIBROMOCHLOROMETHANE	ug/kg		
1,2-DIBROMO-3-CHLOROPROPANE	ug/kg		
1,2-DIBROMOETHANE	ug/kg		
DIBROMOMETHANE	ug/kg		
1,2-DICHLOROBENZENE	ug/kg		
1,3-DICHLOROBENZENE	ug/kg		
1,4-DICHLOROBENZENE	ug/kg		
DICHLORODIFLUOROMETHANE	ug/kg		
1,1-DICHLOROETHANE	ug/kg		
1,2-DICHLOROETHANE	ug/kg		
1,1-DICHLOROETHENE	ug/kg		
cis-1,2-DICHLOROETHENE	ug/kg		
trans-1,2-DICHLOROETHENE	ug/kg		
1,2-DICHLOROPROPANE	ug/kg		
1,3-DICHLOROPROPANE	ug/kg		
2,2-DICHLOROPROPANE	ug/kg		
1,1-DICHLOROPROPENE	ug/kg		
1,1-DICHLOROPROPENE	ug/kg		
cis-1,3-DICHLOROPROPENE	ug/kg		
trans-1,3-DICHLOROPROPENE	ug/kg		
ETHYLBENZENE	ug/kg		
HEXACHLOROBUTADIENE	ug/kg		
ISOPROPYLBENZENE (CUMENE)	ug/kg		
p-ISOPROPYLTOLUENE	ug/kg		
METHYLENE CHLORIDE	ug/kg		
NAPHTHALENE	ug/kg		
n-PROPYLBENZENE	ug/kg		
STYRENE	ug/kg		
1,1,1,2-TETRACHLOROETHANE	ug/kg		
1,1,2,2-TETRACHLOROETHANE	ug/kg		
TETRACHLOROETHYLENE(PCE)	ug/kg		
TOLUENE	ug/kg		
1,2,3-TRICHLOROBENZENE	ug/kg		
1,2,4-TRICHLOROBENZENE	ug/kg		
1,1,1-TRICHLOROETHANE	ug/kg		
1,1,2-TRICHLOROETHANE	ug/kg		
TRICHLOROETHYLENE (TCE)	ug/kg		
TRICHLOROFLUOROMETHANE	ug/kg		
1,2,3-TRICHLOROPROPANE	ug/kg		
1,2,4-TRIMETHYLBENZENE	ug/kg		
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	ug/kg		
VINYL CHLORIDE	ug/kg		
O-XYLENE (1,2-DIMETHYLBENZENE)	ug/kg		
M,P-XYLENE (SUM OF ISOMERS)	ug/kg		
M-XYLENE (1,3-DIMETHYLBENZENE)	ug/kg		

Note:

NA - Not Analyzed

U - Undetected

= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Facility Location:		Canal	Canal	Canal
Boring Number:		MBH54	MBH55	MBH56
Sample Depth:		0 to 0 ft.	0 to 0 ft.	0 to 0 ft.
Sample ID:		MBH54SL0124	MBH55SL0104	MBH56SL0104
Collection Date:		11/18/96	11/18/96	11/15/96
Analyte	Units			
1,2-DICHLOROPROPYLENE	ug/kg			
PETROLEUM HYDROCARBONS				
TPH (C10 to C24)	mg/kg	8 =	5 U	5 U
TPH (C25 to C40)	mg/kg	10 =	7 =	7 =
HERBICIDES				
2,4,5-T (TRICHLOROPHENOXYACETIC ACID)	ug/kg			1 U
SILVEX (2,4,5-TP)	ug/kg			1 U
2,4-D (DICHLOROPHENOXYACETIC ACID)	ug/kg			5 U
2,4 DB	ug/kg			10 U
DALAPON	ug/kg			12 U
DICAMBA	ug/kg			8 U
DICHLOROPROP	ug/kg			3 U
DINoseb	ug/kg			3 U
PCBs				
PCB-1016 (AROCHLOR 1016)	ug/kg			
PCB-1221 (AROCHLOR 1221)	ug/kg			
PCB-1232 (AROCHLOR 1232)	ug/kg			
PCB-1242 (AROCHLOR 1242)	ug/kg			
PCB-1248 (AROCHLOR 1248)	ug/kg			
PCB-1254 (AROCHLOR 1254)	ug/kg			
PCB-1260 (AROCHLOR 1260)	ug/kg			
PESTICIDES/PCBs				
ALDRIN	mg/kg	.003 U	.003 U	.003 U
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	mg/kg	.002 U	.002 U	.002 U
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	mg/kg	.004 U	.004 U	.004 U
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	mg/kg	.006 U	.006 U	.006 U
gamma-BHC (Lindane)	mg/kg	.003 U	.003 U	.003 U
CHLORDANE	mg/kg	.009 U	.009 U	.009 U
p,p'-DDD	mg/kg	.007 U	.007 U	.007 U
p,p'-DDE	mg/kg	.003 U	.003 U	.003 U
p,p'-DDT	mg/kg	.008 U	.008 U	.008 U
DIELDRIN	mg/kg	.001 U	.001 U	.001 U
ALPHA ENDOSULFAN	mg/kg	.009 U	.009 U	.009 U
BETA ENDOSULFAN	mg/kg	.003 U	.003 U	.003 U
ENDOSULFAN SULFATE	mg/kg	.044 U	.044 U	.044 U
ENDRIN	mg/kg	.004 U	.004 U	.004 U
ENDRIN ALDEHYDE	mg/kg	.015 U	.015 U	.015 U
HEPTACHLOR EPOXIDE	mg/kg	.056 U	.056 U	.056 U
HEPTACHLOR	mg/kg	.002 U	.002 U	.002 U
METHOXYCHLOR	mg/kg	.118 U	.118 U	.118 U
TOXAPHENE	mg/kg	.161 U	.161 U	.161 U
PCB-1016 (AROCHLOR 1016)	mg/kg	.5 U	.5 U	.5 U
PCB-1221 (AROCHLOR 1221)	mg/kg	.5 U	.5 U	.5 U
PCB-1232 (AROCHLOR 1232)	mg/kg	.5 U	.5 U	.5 U
PCB-1242 (AROCHLOR 1242)	mg/kg	.5 U	.5 U	.5 U
PCB-1248 (AROCHLOR 1248)	mg/kg	.5 U	.5 U	.5 U
PCB-1254 (AROCHLOR 1254)	mg/kg	.5 U	.5 U	.5 U
PCB-1260 (AROCHLOR 1260)	mg/kg	.5 U	.5 U	.5 U
METALS				
ANTIMONY	mg/kg	21.9 =	16.9 =	17.6 =
ARSENIC	mg/kg	2.1 =	1.9 =	1.6 =
BARIUM	mg/kg	160 =	36.5 =	28 =
BERYLLIUM	mg/kg	.5 U	.34 =	.5 U
CADMIUM	mg/kg	1 U	34.2 =	1 U
CHROMIUM, TOTAL	mg/kg	8.1 =	33.4 =	5.6 =
COBALT	mg/kg	3 U	34.3 =	3 U
COPPER	mg/kg	18.1 =	35.6 =	14.9 =

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Facility Location:		Canal	Canal	Canal
Boring Number:		MBH54	MBH55	MBH56
Sample Depth:		0 to 0 ft.	0 to 0 ft.	0 to 0 ft.
Sample ID:		MBH54SL0124	MBH55SL0104	MBH56SL0104
Collection Date:		11/18/96	11/18/96	11/15/96
Analyte	Units			
LEAD	mg/kg	10.5 =	10 U	10 U
MERCURY	mg/kg	.6 =	.9 =	.7 =
MOLYBDENUM	mg/kg	4.2 =	6.6 =	3.3 =
NICKEL	mg/kg	6.8 =	33.9 =	4.9 =
SELENIUM	mg/kg	.6 =	.7 =	.5 U
SILVER	mg/kg	2 U	3.5 =	2.4 =
THALLIUM	mg/kg	.9 =	.8 =	.1 U
VANADIUM	mg/kg	13.3 =	33 =	10.7 =

Note:
 NA - Not Analyzed
 U - Undetected
 = - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Analyte	Units	Facility Location:	Canal	Canal	Canal
		Boring Number:	MBH56	MBH57	MBH58
		Sample Depth:	0 to 0 ft.	0 to 0 ft.	0 to 0 ft.
		Sample ID:	MBH56SL0124	MBH57SL0104	MBH58SL0104
		Collection Date:	11/15/96	11/15/96	11/15/96
VOC					
BENZENE	ug/kg				
BROMOBENZENE	ug/kg				
BROMOCHLOROMETHANE	ug/kg				
BROMODICHLOROMETHANE	ug/kg				
BROMOFORM	ug/kg				
BROMOMETHANE	ug/kg				
n-BUTYLBENZENE	ug/kg				
SEC-BUTYLBENZENE	ug/kg				
tert-BUTYLBENZENE	ug/kg				
CARBON TETRACHLORIDE	ug/kg				
CHLOROBENZENE	ug/kg				
CHLOROETHANE	ug/kg				
CHLOROFORM	ug/kg				
CHLOROMETHANE	ug/kg				
2-CHLOROTOLUENE	ug/kg				
4-CHLOROTOLUENE	ug/kg				
DIBROMOCHLOROMETHANE	ug/kg				
1,2-DIBROMO-3-CHLOROPROPANE	ug/kg				
1,2-DIBROMOETHANE	ug/kg				
DIBROMOMETHANE	ug/kg				
1,2-DICHLOROBENZENE	ug/kg				
1,3-DICHLOROBENZENE	ug/kg				
1,4-DICHLOROBENZENE	ug/kg				
DICHLORODIFLUOROMETHANE	ug/kg				
1,1-DICHLOROETHANE	ug/kg				
1,2-DICHLOROETHANE	ug/kg				
1,1-DICHLOROETHENE	ug/kg				
cis-1,2-DICHLOROETHENE	ug/kg				
trans-1,2-DICHLOROETHENE	ug/kg				
1,2-DICHLOROPROPANE	ug/kg				
1,3-DICHLOROPROPANE	ug/kg				
2,2-DICHLOROPROPANE	ug/kg				
1,1-DICHLOROPROPENE	ug/kg				
1,1-DICHLOROPROPENE	ug/kg				
cis-1,3-DICHLOROPROPENE	ug/kg				
trans-1,3-DICHLOROPROPENE	ug/kg				
ETHYLBENZENE	ug/kg				
HEXACHLOROBUTADIENE	ug/kg				
ISOPROPYLBENZENE (CUMENE)	ug/kg				
p-ISOPROPYLTOLUENE	ug/kg				
METHYLENE CHLORIDE	ug/kg				
NAPHTHALENE	ug/kg				
n-PROPYLBENZENE	ug/kg				
STYRENE	ug/kg				
1,1,1,2-TETRACHLOROETHANE	ug/kg				
1,1,2,2-TETRACHLOROETHANE	ug/kg				
TETRACHLOROETHYLENE(PCE)	ug/kg				
TOLUENE	ug/kg				
1,2,3-TRICHLOROBENZENE	ug/kg				
1,2,4-TRICHLOROBENZENE	ug/kg				
1,1,1-TRICHLOROETHANE	ug/kg				
1,1,2-TRICHLOROETHANE	ug/kg				
TRICHLOROETHYLENE (TCE)	ug/kg				
TRICHLOROFLUOROMETHANE	ug/kg				
1,2,3-TRICHLOROPROPANE	ug/kg				
1,2,4-TRIMETHYLBENZENE	ug/kg				
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	ug/kg				
VINYL CHLORIDE	ug/kg				
O-XYLENE (1,2-DIMETHYLBENZENE)	ug/kg				
M,P-XYLENE (SUM OF ISOMERS)	ug/kg				
M-XYLENE (1,3-DIMETHYLBENZENE)	ug/kg				

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Facility Location:		Canal	Canal	Canal
Boring Number:		MBH56	MBH57	MBH58
Sample Depth:		0 to 0 ft.	0 to 0 ft.	0 to 0 ft.
Sample ID:		MBH56SL0124	MBH57SL0104	MBH58SL0104
Collection Date:		11/15/96	11/15/96	11/15/96
Analyte	Units			
1,2-DICHLOROPROPYLENE	ug/kg			
PETROLEUM HYDROCARBONS				
TPH (C10 to C24)	mg/kg	5 U	5 U	5 U
TPH (C25 to C40)	mg/kg	5 U	5 U	5 U
HERBICIDES				
2,4,5-T (TRICHLOROPHENOXYACETIC ACID)	ug/kg		1 U	1 U
SILVEX (2,4,5-TP)	ug/kg		1 U	1 U
2,4-D (DICHLOROPHENOXYACETIC ACID)	ug/kg		5 U	5 U
2,4 DB	ug/kg		10 U	10 U
DALAPON	ug/kg		12 U	12 U
DICAMBA	ug/kg		8 U	8 U
DICHLOROPROP	ug/kg		3 U	3 U
DINOSEB	ug/kg		3 U	3 U
PCBs				
PCB-1016 (AROCHLOR 1016)	ug/kg			
PCB-1221 (AROCHLOR 1221)	ug/kg			
PCB-1232 (AROCHLOR 1232)	ug/kg			
PCB-1242 (AROCHLOR 1242)	ug/kg			
PCB-1248 (AROCHLOR 1248)	ug/kg			
PCB-1254 (AROCHLOR 1254)	ug/kg			
PCB-1260 (AROCHLOR 1260)	ug/kg			
PESTICIDES/PCBs				
ALDRIN	mg/kg	.003 U	.003 U	.003 U
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	mg/kg	.002 U	.002 U	.002 U
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	mg/kg	.004 U	.004 U	.004 U
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	mg/kg	.006 U	.006 U	.006 U
gamma-BHC (Lindane)	mg/kg	.003 U	.003 U	.003 U
CHLORDANE	mg/kg	.009 U	.009 U	.009 U
p,p'-DDD	mg/kg	.007 U	.007 U	.007 U
p,p'-DDE	mg/kg	.003 U	.003 U	.003 U
p,p'-DDT	mg/kg	.008 U	.008 U	.008 U
DIELDRIN	mg/kg	.001 U	.001 U	.001 U
ALPHA ENDOSULFAN	mg/kg	.009 U	.009 U	.009 U
BETA ENDOSULFAN	mg/kg	.003 U	.003 U	.003 U
ENDOSULFAN SULFATE	mg/kg	.044 U	.044 U	.044 U
ENDRIN	mg/kg	.004 U	.004 U	.004 U
ENDRIN ALDEHYDE	mg/kg	.015 U	.015 U	.015 U
HEPTACHLOR EPOXIDE	mg/kg	.056 U	.056 U	.056 U
HEPTACHLOR	mg/kg	.002 U	.002 U	.002 U
METHOXYCHLOR	mg/kg	.118 U	.118 U	.118 U
TOXAPHENE	mg/kg	.161 U	.161 U	.161 U
PCB-1016 (AROCHLOR 1016)	mg/kg	.5 U	.5 U	.5 U
PCB-1221 (AROCHLOR 1221)	mg/kg	.5 U	.5 U	.5 U
PCB-1232 (AROCHLOR 1232)	mg/kg	.5 U	.5 U	.5 U
PCB-1242 (AROCHLOR 1242)	mg/kg	.5 U	.5 U	.5 U
PCB-1248 (AROCHLOR 1248)	mg/kg	.5 U	.5 U	.5 U
PCB-1254 (AROCHLOR 1254)	mg/kg	.5 U	.5 U	.5 U
PCB-1260 (AROCHLOR 1260)	mg/kg	.5 U	.5 U	.5 U
METALS				
ANTIMONY	mg/kg	15.3 =	23.5 =	20.5 =
ARSENIC	mg/kg	1.2 =	3.4 =	2.1 =
BARIUM	mg/kg	21.5 =	60 =	35.6 =
BERYLLIUM	mg/kg	.5 U	.5 U	.5 U
CADMIUM	mg/kg	1 U	1 U	1 U
CHROMIUM, TOTAL	mg/kg	4.3 =	12.3 =	7.1 =
COBALT	mg/kg	3 U	4.7 =	3 U
COPPER	mg/kg	14.2 =	21.2 =	24.3 =

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Facility Location:		Canal	Canal	Canal
Boring Number:		MBH56	MBH57	MBH58
Sample Depth:		0 to 0 ft.	0 to 0 ft.	0 to 0 ft.
Sample ID:		MBH56SL0124	MBH57SL0104	MBH58SL0104
Collection Date:		11/15/96	11/15/96	11/15/96
Analyte	Units			
LEAD	mg/kg	10 U	36.4 =	10 U
MERCURY	mg/kg	.8 =	.9 =	.8 =
MOLYBDENUM	mg/kg	3 U	4.8 =	4.1 =
NICKEL	mg/kg	4 U	9.5 =	5.9 =
SELENIUM	mg/kg	.5 U	.5 U	.5 =
SILVER	mg/kg	2 U	2 U	2 U
THALLIUM	mg/kg	.1 U	.1 U	.1 U
VANADIUM	mg/kg	8.1 =	19.8 =	13.5 =

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Facility Location:		Adjacent Petroleum Facility	Dredge Spoils Area	Dredge Spoils Area
Boring Number:		MBH59	MBH62	MBH64
Sample Depth:		0 to 0 ft.	5 to 5.6 ft.	2 to 2.6 ft.
Sample ID:		MBH59SL0124	MBH62BS0202	MBH64BS0201
Collection Date:		11/15/96	01/29/97	01/29/97
Analyte	Units			
VOC				
BENZENE	ug/kg		2 U	2 U
BROMOBENZENE	ug/kg		5 U	5 U
BROMOCHLOROMETHANE	ug/kg		2 U	2 U
BROMODICHLOROMETHANE	ug/kg		5 U	5 U
BROMOFORM	ug/kg		5 U	5 U
BROMOMETHANE	ug/kg		5 U	5 U
n-BUTYLBENZENE	ug/kg		5 U	5 U
SEC-BUTYLBENZENE	ug/kg		5 U	5 U
tert-BUTYLBENZENE	ug/kg		5 U	5 U
CARBON TETRACHLORIDE	ug/kg		5 U	5 U
CHLOROBENZENE	ug/kg		2 U	2 U
CHLOROETHANE	ug/kg		5 U	5 U
CHLOROFORM	ug/kg		2 U	2 U
CHLOROMETHANE	ug/kg		5 U	5 U
2-CHLOROTOLUENE	ug/kg		5 U	5 U
4-CHLOROTOLUENE	ug/kg		5 U	5 U
DIBROMOCHLOROMETHANE	ug/kg		2 U	2 U
1,2-DIBROMO-3-CHLOROPROPANE	ug/kg		10 U	10 U
1,2-DIBROMOETHANE	ug/kg		2 U	2 U
DIBROMOMETHANE	ug/kg		2 U	2 U
1,2-DICHLOROBENZENE	ug/kg		2 U	2 U
1,3-DICHLOROBENZENE	ug/kg		2 U	2 U
1,4-DICHLOROBENZENE	ug/kg		2 U	2 U
DICHLORODIFLUOROMETHANE	ug/kg		5 U	5 U
1,1-DICHLOROETHANE	ug/kg		2 U	2 U
1,2-DICHLOROETHANE	ug/kg		2 U	2 U
1,1-DICHLOROETHENE	ug/kg		5 U	5 U
cis-1,2-DICHLOROETHENE	ug/kg		2 U	2 U
trans-1,2-DICHLOROETHENE	ug/kg		2 U	2 U
1,2-DICHLOROPROPANE	ug/kg		2 U	2 U
1,3-DICHLOROPROPANE	ug/kg		2 U	2 U
2,2-DICHLOROPROPANE	ug/kg		5 U	5 U
1,1-DICHLOROPROPENE	ug/kg			
1,1-DICHLOROPROPENE	ug/kg		2 U	2 U
cis-1,3-DICHLOROPROPENE	ug/kg		5 U	5 U
trans-1,3-DICHLOROPROPENE	ug/kg		5 U	5 U
ETHYLBENZENE	ug/kg		2 U	2 U
HEXACHLOROBUTADIENE	ug/kg		5 U	5 U
ISOPROPYLBENZENE (CUMENE)	ug/kg			
p-ISOPROPYLTOLUENE	ug/kg		2 U	2 U
METHYLENE CHLORIDE	ug/kg		18 =	10 U
NAPHTHALENE	ug/kg		5 U	5 U
n-PROPYLBENZENE	ug/kg		2 U	2 U
STYRENE	ug/kg		2 U	2 U
1,1,1,2-TETRACHLOROETHANE	ug/kg		5 U	5 U
1,1,2,2-TETRACHLOROETHANE	ug/kg		2 U	2 U
TETRACHLOROETHYLENE(PCE)	ug/kg		2 U	2 U
TOLUENE	ug/kg		2 U	2 U
1,2,3-TRICHLOROBENZENE	ug/kg		5 U	5 U
1,2,4-TRICHLOROBENZENE	ug/kg		5 U	5 U
1,1,1-TRICHLOROETHANE	ug/kg		2 U	2 U
1,1,2-TRICHLOROETHANE	ug/kg		2 U	2 U
TRICHLOROETHYLENE (TCE)	ug/kg		2 U	2 U
TRICHLOROFUOROMETHANE	ug/kg		5 U	5 U
1,2,3-TRICHLOROPROPANE	ug/kg		2 U	2 U
1,2,4-TRIMETHYLBENZENE	ug/kg		2 U	2 U
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	ug/kg		2 U	2 U
VINYL CHLORIDE	ug/kg		5 U	5 U
O-XYLENE (1,2-DIMETHYLBENZENE)	ug/kg		2 U	2 U
M,P-XYLENE (SUM OF ISOMERS)	ug/kg		2 U	2 U
M-XYLENE (1,3-DIMETHYLBENZENE)	ug/kg			

Note:
 NA - Not Analyzed
 U - Undetected
 = - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Facility Location:		Adjacent Petroleum Facility	Dredge Spoils Area	Dredge Spoils Area
Boring Number:		MBH59	MBH62	MBH64
Sample Depth:		0 to 0 ft.	5 to 5.6 ft.	2 to 2.6 ft.
Sample ID:		MBH59SL0124	MBH62BS0202	MBH64BS0201
Collection Date:		11/15/96	01/29/97	01/29/97
Analyte	Units			
1,2-DICHLOROPROPYLENE	ug/kg			
PETROLEUM HYDROCARBONS				
TPH (C10 to C24)	mg/kg			
TPH (C25 to C40)	mg/kg			
HERBICIDES				
2,4,5-T (TRICHLOROPHENOXYACETIC ACID)	ug/kg	1 U		
SILVEX (2,4,5-TP)	ug/kg	1 U		
2,4-D (DICHLOROPHENOXYACETIC ACID)	ug/kg	5 U		
2,4 DB	ug/kg	10 U		
DALAPON	ug/kg	12 U		
DICAMBA	ug/kg	8 U		
DICHLOROPROP	ug/kg	3 U		
DINOSEB	ug/kg	3 U		
PCBs				
PCB-1016 (AROCHLOR 1016)	ug/kg		50 U	50 U
PCB-1221 (AROCHLOR 1221)	ug/kg		50 U	50 U
PCB-1232 (AROCHLOR 1232)	ug/kg		50 U	50 U
PCB-1242 (AROCHLOR 1242)	ug/kg		50 U	50 U
PCB-1248 (AROCHLOR 1248)	ug/kg		50 U	50 U
PCB-1254 (AROCHLOR 1254)	ug/kg		50 U	50 U
PCB-1260 (AROCHLOR 1260)	ug/kg		50 U	50 U
PESTICIDES/PCBs				
ALDRIN	mg/kg			
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	mg/kg			
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	mg/kg			
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	mg/kg			
gamma-BHC (Lindane)	mg/kg			
CHLORDANE	mg/kg			
p,p'-DDD	mg/kg			
p,p'-DDE	mg/kg			
p,p'-DDT	mg/kg			
DIELDRIN	mg/kg			
ALPHA ENDOSULFAN	mg/kg			
BETA ENDOSULFAN	mg/kg			
ENDOSULFAN SULFATE	mg/kg			
ENDRIN	mg/kg			
ENDRIN ALDEHYDE	mg/kg			
HEPTACHLOR EPOXIDE	mg/kg			
HEPTACHLOR	mg/kg			
METHOXYCHLOR	mg/kg			
TOXAPHENE	mg/kg			
PCB-1016 (AROCHLOR 1016)	mg/kg			
PCB-1221 (AROCHLOR 1221)	mg/kg			
PCB-1232 (AROCHLOR 1232)	mg/kg			
PCB-1242 (AROCHLOR 1242)	mg/kg			
PCB-1248 (AROCHLOR 1248)	mg/kg			
PCB-1254 (AROCHLOR 1254)	mg/kg			
PCB-1260 (AROCHLOR 1260)	mg/kg			
METALS				
ANTIMONY	mg/kg		9 U	9 U
ARSENIC	mg/kg		1.5 =	1.6 =
BARIUM	mg/kg		41.8 =	51.7 =
BERYLLIUM	mg/kg		.5 U	.5 U
CADMIUM	mg/kg		1 U	1 U
CHROMIUM, TOTAL	mg/kg		4.4 =	6.8 =
COBALT	mg/kg		3 U	3 U
COPPER	mg/kg		2 U	10.5 =

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

	Facility Location:	Adjacent Petroleum Facility	Dredge Spoils Area	Dredge Spoils Area
	Boring Number:	MBH59	MBH62	MBH64
	Sample Depth:	0 to 0 ft.	5 to 5.6 ft.	2 to 2.6 ft.
	Sample ID:	MBH59SL0124	MBH62BS0202	MBH64BS0201
	Collection Date:	11/15/96	01/29/97	01/29/97
Analyte	Units			
LEAD	mg/kg		10 U	10 U
MERCURY	mg/kg		.08 U	.08 U
MOLYBDENUM	mg/kg		3 U	3 U
NICKEL	mg/kg		4 U	11.1 =
SELENIUM	mg/kg		.4 U	.4 U
SILVER	mg/kg		2 U	2 U
THALLIUM	mg/kg		.44 U	.44 U
VANADIUM	mg/kg		9.5 =	18.2 =

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Analyte	Units	Facility Location:	Dredge Spoils Area	Dredge Spoils Area	Dredge Spoils Area
		Boring Number:	MBH64	MBH64	MBH65
		Sample Depth:	5 to 6.5 ft.	6.5 to 8 ft.	.8 to 1.8 ft.
		Sample ID:	MBH64BS0202	MBH64BS0222	MBH65BS0201
		Collection Date:	01/29/97	01/29/97	01/30/97
VOC					
BENZENE	ug/kg		2 U	2 U	2 U
BROMOBENZENE	ug/kg		5 U	5 U	5 U
BROMOCHLOROMETHANE	ug/kg		2 U	2 U	2 U
BROMODICHLOROMETHANE	ug/kg		5 U	5 U	5 U
BROMOFORM	ug/kg		5 U	5 U	5 U
BROMOMETHANE	ug/kg		5 U	5 U	5 U
n-BUTYLBENZENE	ug/kg		5 U	5 U	5 U
SEC-BUTYLBENZENE	ug/kg		5 U	5 U	5 U
tert-BUTYLBENZENE	ug/kg		5 U	5 U	5 U
CARBON TETRACHLORIDE	ug/kg		5 U	5 U	5 U
CHLOROBENZENE	ug/kg		2 U	2 U	2 U
CHLOROETHANE	ug/kg		5 U	5 U	5 U
CHLOROFORM	ug/kg		2 U	2 U	2 U
CHLOROMETHANE	ug/kg		5 U	5 U	5 U
2-CHLOROTOLUENE	ug/kg		5 U	5 U	5 U
4-CHLOROTOLUENE	ug/kg		5 U	5 U	5 U
DIBROMOCHLOROMETHANE	ug/kg		2 U	2 U	2 U
1,2-DIBROMO-3-CHLOROPROPANE	ug/kg		10 U	10 U	10 U
1,2-DIBROMOETHANE	ug/kg		2 U	2 U	2 U
DIBROMOMETHANE	ug/kg		2 U	2 U	2 U
1,2-DICHLOROBENZENE	ug/kg		2 U	2 U	2 U
1,3-DICHLOROBENZENE	ug/kg		2 U	2 U	2 U
1,4-DICHLOROBENZENE	ug/kg		2 U	2 U	2 U
DICHLORODIFLUOROMETHANE	ug/kg		5 U	5 U	5 U
1,1-DICHLOROETHANE	ug/kg		2 U	2 U	2 U
1,2-DICHLOROETHANE	ug/kg		2 U	2 U	2 U
1,1-DICHLOROETHENE	ug/kg		5 U	5 U	5 U
cis-1,2-DICHLOROETHENE	ug/kg		2 U	2 U	2 U
trans-1,2-DICHLOROETHENE	ug/kg		2 U	2 U	2 U
1,2-DICHLOROPROPANE	ug/kg		2 U	2 U	2 U
1,3-DICHLOROPROPANE	ug/kg		2 U	2 U	2 U
2,2-DICHLOROPROPANE	ug/kg		5 U	5 U	5 U
1,1-DICHLOROPROPENE	ug/kg				
1,1-DICHLOROPROPENE	ug/kg		2 U	2 U	2 U
cis-1,3-DICHLOROPROPENE	ug/kg		5 U	5 U	5 U
trans-1,3-DICHLOROPROPENE	ug/kg		5 U	5 U	5 U
ETHYLBENZENE	ug/kg		2 U	2 U	2 U
HEXACHLOROBUTADIENE	ug/kg		5 U	5 U	5 U
ISOPROPYLBENZENE (CUMENE)	ug/kg		2 U		
p-ISOPROPYLTOLUENE	ug/kg		2 U	2 U	2 U
METHYLENE CHLORIDE	ug/kg		10 U	12 =	10 U
NAPHTHALENE	ug/kg		5 U	5 U	5 U
n-PROPYLBENZENE	ug/kg		2 U	2 U	2 U
STYRENE	ug/kg		2 U	2 U	2 U
1,1,1,2-TETRACHLOROETHANE	ug/kg		5 U	5 U	5 U
1,1,2,2-TETRACHLOROETHANE	ug/kg		2 U	2 U	2 U
TETRACHLOROETHYLENE(PCE)	ug/kg		2 U	2 U	2 U
TOLUENE	ug/kg		4 =	2 =	2 U
1,2,3-TRICHLOROBENZENE	ug/kg		5 U	5 U	5 U
1,2,4-TRICHLOROBENZENE	ug/kg		5 U	5 U	5 U
1,1,1-TRICHLOROETHANE	ug/kg		2 U	2 U	2 U
1,1,2-TRICHLOROETHANE	ug/kg		2 U	2 U	2 U
TRICHLOROETHYLENE (TCE)	ug/kg		2 U	2 U	2 U
TRICHLOROFLUOROMETHANE	ug/kg		5 U	5 U	5 U
1,2,3-TRICHLOROPROPANE	ug/kg		2 U	2 U	2 U
1,2,4-TRIMETHYLBENZENE	ug/kg		2 U	2 U	2 U
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	ug/kg		2 U	2 U	2 U
VINYL CHLORIDE	ug/kg		5 U	5 U	5 U
O-XYLENE (1,2-DIMETHYLBENZENE)	ug/kg		2 U	2 U	2 U
M,P-XYLENE (SUM OF ISOMERS)	ug/kg		2 U	2 U	2 U
M-XYLENE (1,3-DIMETHYLBENZENE)	ug/kg				

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

	Facility Location:	Dredge Spoils Area	Dredge Spoils Area	Dredge Spoils Area
	Boring Number:	MBH64	MBH64	MBH65
	Sample Depth:	5 to 6.5 ft.	6.5 to 8 ft.	.8 to 1.8 ft.
	Sample ID:	MBH64BS0202	MBH64BS0222	MBH65BS0201
	Collection Date:	01/29/97	01/29/97	01/30/97
Analyte	Units			
1,2-DICHLOROPROPYLENE	ug/kg			
PETROLEUM HYDROCARBONS				
TPH (C10 to C24)	mg/kg			
TPH (C25 to C40)	mg/kg			
HERBICIDES				
2,4,5-T (TRICHLOROPHENOXYACETIC ACID)	ug/kg			
SILVEX (2,4,5-TP)	ug/kg			
2,4-D (DICHLOROPHENOXYACETIC ACID)	ug/kg			
2,4 DB	ug/kg			
DALAPON	ug/kg			
DICAMBA	ug/kg			
DICHLOROPROP	ug/kg			
DINoseb	ug/kg			
PCBs				
PCB-1016 (AROCHLOR 1016)	ug/kg	50 U	50 U	50 U
PCB-1221 (AROCHLOR 1221)	ug/kg	50 U	50 U	50 U
PCB-1232 (AROCHLOR 1232)	ug/kg	50 U	50 U	50 U
PCB-1242 (AROCHLOR 1242)	ug/kg	50 U	50 U	50 U
PCB-1248 (AROCHLOR 1248)	ug/kg	50 U	50 U	50 U
PCB-1254 (AROCHLOR 1254)	ug/kg	50 U	50 U	50 U
PCB-1260 (AROCHLOR 1260)	ug/kg	50 U	50 U	50 U
PESTICIDES/PCBs				
ALDRIN	mg/kg			
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	mg/kg			
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	mg/kg			
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	mg/kg			
gamma-BHC (Lindane)	mg/kg			
CHLORDANE	mg/kg			
p,p'-DDD	mg/kg			
p,p'-DDE	mg/kg			
p,p'-DDT	mg/kg			
DIELDRIN	mg/kg			
ALPHA ENDOSULFAN	mg/kg			
BETA ENDOSULFAN	mg/kg			
ENDOSULFAN SULFATE	mg/kg			
ENDRIN	mg/kg			
ENDRIN ALDEHYDE	mg/kg			
HEPTACHLOR EPOXIDE	mg/kg			
HEPTACHLOR	mg/kg			
METHOXYCHLOR	mg/kg			
TOXAPHENE	mg/kg			
PCB-1016 (AROCHLOR 1016)	mg/kg			
PCB-1221 (AROCHLOR 1221)	mg/kg			
PCB-1232 (AROCHLOR 1232)	mg/kg			
PCB-1242 (AROCHLOR 1242)	mg/kg			
PCB-1248 (AROCHLOR 1248)	mg/kg			
PCB-1254 (AROCHLOR 1254)	mg/kg			
PCB-1260 (AROCHLOR 1260)	mg/kg			
METALS				
ANTIMONY	mg/kg	9 U	9 U	9 U
ARSENIC	mg/kg	1.5 =	1.2 =	2.2 =
BARIIUM	mg/kg	36.3 =	33.4 =	21.4 =
BERYLLIUM	mg/kg	.5 U	.5 U	.5 U
CADMIUM	mg/kg	1 U	1 U	1 U
CHROMIUM, TOTAL	mg/kg	2.8 =	4.1 =	4.7 =
COBALT	mg/kg	3 U	3 U	3 U
COPPER	mg/kg	3.6 =	2.6 =	4.8 =

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Facility Location:		Dredge Spoils Area	Dredge Spoils Area	Dredge Spoils Area
Boring Number:		MBH64	MBH64	MBH65
Sample Depth:		5 to 6.5 ft.	6.5 to 8 ft.	.8 to 1.3 ft.
Sample ID:		MBH64BS0202	MBH64BS0222	MBH65BS0201
Collection Date:		01/29/97	01/29/97	01/30/97
Analyte	Units			
LEAD	mg/kg	10 U	10 U	10 U
MERCURY	mg/kg	.08 U	.08 U	.08 U
MOLYBDENUM	mg/kg	3 U	3 U	3 U
NICKEL	mg/kg	4 U	4.2 =	4.9 =
SELENIUM	mg/kg	.4 U	.4 U	.4 U
SILVER	mg/kg	2 U	2 U	2 U
THALLIUM	mg/kg	.44 U	.44 U	.44 U
VANADIUM	mg/kg	6.5 =	10.4 =	10.4 =

Note:
 NA - Not Analyzed
 U - Undetected
 = - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Analyte	Units	Facility Location:	Dredge Spoils Area	Former Drum Storage Area	Former Drum Storage Area
		Boring Number:	MBH65	MBH66	MBH66
		Sample Depth:	5.8 to 7 ft.	0.5 to 1.8 ft.	5.0 to 6.3 ft.
		Sample ID:	MBH65BS0202	MBH66BS0101	MBH66BS0201
		Collection Date:	01/30/97	05/21/97	05/21/97
VOC					
BENZENE	ug/kg		2 U	2 U	2 U
BROMOBENZENE	ug/kg		5 U	2 U	2 U
BROMOCHLOROMETHANE	ug/kg		2 U	5 U	5 U
BROMODICHLOROMETHANE	ug/kg		5 U	2 U	2 U
BROMOFORM	ug/kg		5 U	5 U	5 U
BROMOMETHANE	ug/kg		5 U	5 U	5 U
n-BUTYLBENZENE	ug/kg		5 U	2 U	2 U
SEC-BUTYLBENZENE	ug/kg		5 U	2 U	2 U
tert-BUTYLBENZENE	ug/kg		5 U	2 U	2 U
CARBON TETRACHLORIDE	ug/kg		5 U	5 U	5 U
CHLOROBENZENE	ug/kg		2 U	2 U	2 U
CHLOROETHANE	ug/kg		5 U	5 U	5 U
CHLOROFORM	ug/kg		2 U	2 U	2 U
CHLOROMETHANE	ug/kg		5 U	5 U	5 U
2-CHLOROTOLUENE	ug/kg		5 U	2 U	2 U
4-CHLOROTOLUENE	ug/kg		5 U	2 U	2 U
DIBROMOCHLOROMETHANE	ug/kg		2 U	2 U	2 U
1,2-DIBROMO-3-CHLOROPROPANE	ug/kg		10 U	10 U	10 U
1,2-DIBROMOETHANE	ug/kg		2 U	2 U	2 U
DIBROMOMETHANE	ug/kg		2 U	5 U	5 U
1,2-DICHLOROBENZENE	ug/kg		2 U	2 U	2 U
1,3-DICHLOROBENZENE	ug/kg		2 U	2 U	2 U
1,4-DICHLOROBENZENE	ug/kg		2 U	2 U	2 U
DICHLORODIFLUOROMETHANE	ug/kg		5 U	5 U	5 U
1,1-DICHLOROETHANE	ug/kg		2 U	2 U	2 U
1,2-DICHLOROETHANE	ug/kg		2 U	2 U	2 U
1,1-DICHLOROETHENE	ug/kg		5 U	2 U	2 U
cis-1,2-DICHLOROETHENE	ug/kg		2 U	2 U	2 U
trans-1,2-DICHLOROETHENE	ug/kg		2 U	2 U	2 U
1,2-DICHLOROPROPANE	ug/kg		2 U	2 U	2 U
1,3-DICHLOROPROPANE	ug/kg		2 U	2 U	2 U
2,2-DICHLOROPROPANE	ug/kg		5 U	2 U	2 U
1,1-DICHLOROPROPENE	ug/kg				2 U
1,1-DICHLOROPROPENE	ug/kg		2 U	2 U	
cis-1,3-DICHLOROPROPENE	ug/kg		5 U	2 U	2 U
trans-1,3-DICHLOROPROPENE	ug/kg		5 U	2 U	2 U
ETHYLBENZENE	ug/kg		2 U	2 U	2 U
HEXACHLOROBUTADIENE	ug/kg		5 U	2 U	2 U
ISOPROPYLBENZENE (CUMENE)	ug/kg			2 U	2 U
p-ISOPROPYLTOLUENE	ug/kg		2 U	2 U	2 U
METHYLENE CHLORIDE	ug/kg		10 U	10 U	10 U
NAPHTHALENE	ug/kg		5 U	2 U	2 U
n-PROPYLBENZENE	ug/kg		2 U	2 U	2 U
STYRENE	ug/kg		2 U	.015 =	.006 =
1,1,1,2-TETRACHLOROETHANE	ug/kg		5 U	2 U	2 U
1,1,2,2-TETRACHLOROETHANE	ug/kg		2 U	2 U	2 U
TETRACHLOROETHYLENE(PCE)	ug/kg		2 U	2 U	2 U
TOLUENE	ug/kg		2 U	2 U	.005 =
1,2,3-TRICHLOROBENZENE	ug/kg		5 U	2 U	2 U
1,2,4-TRICHLOROBENZENE	ug/kg		5 U	2 U	2 U
1,1,1-TRICHLOROETHANE	ug/kg		2 U	2 U	2 U
1,1,2-TRICHLOROETHANE	ug/kg		2 U	2 U	2 U
TRICHLOROETHYLENE (TCE)	ug/kg		2 U	2 U	2 U
TRICHLOROFLUOROMETHANE	ug/kg		5 U	5 U	5 U
1,2,3-TRICHLOROPROPANE	ug/kg		2 U	2 U	2 U
1,2,4-TRIMETHYLBENZENE	ug/kg		2 U	2 U	2 U
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	ug/kg		2 U	2 U	2 U
VINYL CHLORIDE	ug/kg		5 U	5 U	5 U
O-XYLENE (1,2-DIMETHYLBENZENE)	ug/kg		2 U	2 U	2 U
M,P-XYLENE (SUM OF ISOMERS)	ug/kg		2 U	2 U	2 U
M-XYLENE (1,3-DIMETHYLBENZENE)	ug/kg				

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

	Facility Location:	Former Drum Storage	
		Dredge Spoils Area	Area
	Boring Number:	MBH65	MBH66
	Sample Depth:	5.8 to 7 ft.	0.5 to 1.8 ft.
	Sample ID:	MBH65BS0202	MBH66BS0101
	Collection Date:	01/30/97	05/21/97
Analyte	Units		
1,2-DICHLOROPROPYLENE	ug/kg		
PETROLEUM HYDROCARBONS			
TPH (C10 to C24)	mg/kg	5 U	5 U
TPH (C25 to C40)	mg/kg		
HERBICIDES			
2,4,5-T (TRICHLOROPHENOXYACETIC ACID)	ug/kg		
SILVEX (2,4,5-TP)	ug/kg		
2,4-D (DICHLOROPHENOXYACETIC ACID)	ug/kg		
2,4 DB	ug/kg		
DALAPON	ug/kg		
DICAMBA	ug/kg		
DICHLOROPROP	ug/kg		
DINoseb	ug/kg		
PCBs			
PCB-1016 (AROCHLOR 1016)	ug/kg	50 U	50 U
PCB-1221 (AROCHLOR 1221)	ug/kg	50 U	50 U
PCB-1232 (AROCHLOR 1232)	ug/kg	50 U	50 U
PCB-1242 (AROCHLOR 1242)	ug/kg	50 U	50 U
PCB-1248 (AROCHLOR 1248)	ug/kg	50 U	50 U
PCB-1254 (AROCHLOR 1254)	ug/kg	50 U	50 U
PCB-1260 (AROCHLOR 1260)	ug/kg	50 U	50 U
PESTICIDES/PCBs			
ALDRIN	mg/kg		
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	mg/kg		
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	mg/kg		
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	mg/kg		
gamma-BHC (Lindane)	mg/kg		
CHLORDANE	mg/kg		
p,p'-DDD	mg/kg		
p,p'-DDE	mg/kg		
p,p'-DDT	mg/kg		
DIELDRIN	mg/kg		
ALPHA ENDOSULFAN	mg/kg		
BETA ENDOSULFAN	mg/kg		
ENDOSULFAN SULFATE	mg/kg		
ENDRIN	mg/kg		
ENDRIN ALDEHYDE	mg/kg		
HEPTACHLOR EPOXIDE	mg/kg		
HEPTACHLOR	mg/kg		
METHOXYCHLOR	mg/kg		
TOXAPHENE	mg/kg		
PCB-1016 (AROCHLOR 1016)	mg/kg		
PCB-1221 (AROCHLOR 1221)	mg/kg		
PCB-1232 (AROCHLOR 1232)	mg/kg		
PCB-1242 (AROCHLOR 1242)	mg/kg		
PCB-1248 (AROCHLOR 1248)	mg/kg		
PCB-1254 (AROCHLOR 1254)	mg/kg		
PCB-1260 (AROCHLOR 1260)	mg/kg		
METALS			
ANTIMONY	mg/kg	9 U	9 U
ARSENIC	mg/kg	1.7 =	1.7 =
BARIUM	mg/kg	45.3 =	20.6 =
BERYLLIUM	mg/kg	.5 U	.5 U
CADMIUM	mg/kg	1 U	1 U
CHROMIUM, TOTAL	mg/kg	7.1 =	6.5 =
COBALT	mg/kg	3 U	3 U
COPPER	mg/kg	5.2 =	15.7 =

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Facility Location:		Dredge Spoils Area	Former Drum Storage Area	Former Drum Storage Area
Boring Number:		MBH65	MBH66	MBH66
Sample Depth:		5.8 to 7 ft.	0.5 to 1.8 ft.	5.0 to 6.3 ft.
Sample ID:		MBH65BS0202	MBH66BS0101	MBH66BS0201
Collection Date:		01/30/97	05/21/97	05/21/97
Analyte	Units			
LEAD	mg/kg	10 U	10 U	10 U
MERCURY	mg/kg	.08 U	.38 =	.48 =
MOLYBDENUM	mg/kg	3 U	3 U	3 U
NICKEL	mg/kg	5.6 =	4.7 =	4 U
SELENIUM	mg/kg	.4 U	1 U	1 U
SILVER	mg/kg	2 U	10.3 =	10.5 =
THALLIUM	mg/kg	.44 U	48.3 =	36.2 =
VANADIUM	mg/kg	11.2 =	11.8 U	6.3 =

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

		Suspected Blast Grit	Suspected Blast Grit	Suspected Blast Grit
Facility Location:		Disposal Area	Disposal Area	Disposal Area
Boring Number:		MBH67	MBH67	MBH68
Sample Depth:		0.5 to 0.8 ft.	3.0 to 3.3 ft.	0.5 to 0.8 ft.
Sample ID:		MBH67BS0101	MBH67BS0201	MBH68BS0101
Collection Date:		05/21/97	05/21/97	05/21/97
Analyte	Units			
VOC				
BENZENE	ug/kg			
BROMOBENZENE	ug/kg			
BROMOCHLOROMETHANE	ug/kg			
BROMODICHLOROMETHANE	ug/kg			
BROMOFORM	ug/kg			
BROMOMETHANE	ug/kg			
n-BUTYLBENZENE	ug/kg			
SEC-BUTYLBENZENE	ug/kg			
tert-BUTYLBENZENE	ug/kg			
CARBON TETRACHLORIDE	ug/kg			
CHLOROBENZENE	ug/kg			
CHLOROETHANE	ug/kg			
CHLOROFORM	ug/kg			
CHLOROMETHANE	ug/kg			
2-CHLOROTOLUENE	ug/kg			
4-CHLOROTOLUENE	ug/kg			
DIBROMOCHLOROMETHANE	ug/kg			
1,2-DIBROMO-3-CHLOROPROPANE	ug/kg			
1,2-DIBROMOETHANE	ug/kg			
DIBROMOMETHANE	ug/kg			
1,2-DICHLOROBENZENE	ug/kg			
1,3-DICHLOROBENZENE	ug/kg			
1,4-DICHLOROBENZENE	ug/kg			
DICHLORODIFLUOROMETHANE	ug/kg			
1,1-DICHLOROETHANE	ug/kg			
1,2-DICHLOROETHANE	ug/kg			
1,1-DICHLOROETHENE	ug/kg			
cis-1,2-DICHLOROETHENE	ug/kg			
trans-1,2-DICHLOROETHENE	ug/kg			
1,2-DICHLOROPROPANE	ug/kg			
1,3-DICHLOROPROPANE	ug/kg			
2,2-DICHLOROPROPANE	ug/kg			
1,1-DICHLOROPROPENE	ug/kg			
1,1-DICHLOROPROPENE	ug/kg			
cis-1,3-DICHLOROPROPENE	ug/kg			
trans-1,3-DICHLOROPROPENE	ug/kg			
ETHYLBENZENE	ug/kg			
HEXACHLOROBUTADIENE	ug/kg			
ISOPROPYLBENZENE (CUMENE)	ug/kg			
p-ISOPROPYLTOLUENE	ug/kg			
METHYLENE CHLORIDE	ug/kg			
NAPHTHALENE	ug/kg			
n-PROPYLBENZENE	ug/kg			
STYRENE	ug/kg			
1,1,1,2-TETRACHLOROETHANE	ug/kg			
1,1,2,2-TETRACHLOROETHANE	ug/kg			
TETRACHLOROETHYLENE(PCE)	ug/kg			
TOLUENE	ug/kg			
1,2,3-TRICHLOROBENZENE	ug/kg			
1,2,4-TRICHLOROBENZENE	ug/kg			
1,1,1-TRICHLOROETHANE	ug/kg			
1,1,2-TRICHLOROETHANE	ug/kg			
TRICHLOROETHYLENE (TCE)	ug/kg			
TRICHLOROFLUOROMETHANE	ug/kg			
1,2,3-TRICHLOROPROPANE	ug/kg			
1,2,4-TRIMETHYLBENZENE	ug/kg			
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	ug/kg			
VINYL CHLORIDE	ug/kg			
O-XYLENE (1,2-DIMETHYLBENZENE)	ug/kg			
M,P-XYLENE (SUM OF ISOMERS)	ug/kg			
M-XYLENE (1,3-DIMETHYLBENZENE)	ug/kg			

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

	Facility Location:	Suspected Blast Grit Disposal Area	Suspected Blast Grit Disposal Area	Suspected Blast Grit Disposal Area
	Boring Number:	MBH67	MBH67	MBH68
	Sample Depth:	0.5 to 0.8 ft.	3.0 to 3.3 ft.	0.5 to 0.8 ft.
	Sample ID:	MBH67BS0101	MBH67BS0201	MBH68BS0101
	Collection Date:	05/21/97	05/21/97	05/21/97
Analyte	Units			
1,2-DICHLOROPROPYLENE	ug/kg			
PETROLEUM HYDROCARBONS				
TPH (C10 to C24)	mg/kg			
TPH (C25 to C40)	mg/kg			
HERBICIDES				
2,4,5-T (TRICHLOROPHENOXYACETIC ACID)	ug/kg			
SILVEX (2,4,5-TP)	ug/kg			
2,4-D (DICHLOROPHENOXYACETIC ACID)	ug/kg			
2,4 DB	ug/kg			
DALAPON	ug/kg			
DICAMBA	ug/kg			
DICHLOROPROP	ug/kg			
DINoseb	ug/kg			
PCBs				
PCB-1016 (AROCHLOR 1016)	ug/kg			
PCB-1221 (AROCHLOR 1221)	ug/kg			
PCB-1232 (AROCHLOR 1232)	ug/kg			
PCB-1242 (AROCHLOR 1242)	ug/kg			
PCB-1248 (AROCHLOR 1248)	ug/kg			
PCB-1254 (AROCHLOR 1254)	ug/kg			
PCB-1260 (AROCHLOR 1260)	ug/kg			
PESTICIDES/PCBs				
ALDRIN	mg/kg			
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	mg/kg			
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	mg/kg			
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	mg/kg			
gamma-BHC (Lindane)	mg/kg			
CHLORDANE	mg/kg			
p,p'-DDD	mg/kg			
p,p'-DDE	mg/kg			
p,p'-DDT	mg/kg			
DIELDRIN	mg/kg			
ALPHA ENDOSULFAN	mg/kg			
BETA ENDOSULFAN	mg/kg			
ENDOSULFAN SULFATE	mg/kg			
ENDRIN	mg/kg			
ENDRIN ALDEHYDE	mg/kg			
HEPTACHLOR EPOXIDE	mg/kg			
HEPTACHLOR	mg/kg			
METHOXYCHLOR	mg/kg			
TOXAPHENE	mg/kg			
PCB-1016 (AROCHLOR 1016)	mg/kg			
PCB-1221 (AROCHLOR 1221)	mg/kg			
PCB-1232 (AROCHLOR 1232)	mg/kg			
PCB-1242 (AROCHLOR 1242)	mg/kg			
PCB-1248 (AROCHLOR 1248)	mg/kg			
PCB-1254 (AROCHLOR 1254)	mg/kg			
PCB-1260 (AROCHLOR 1260)	mg/kg			
METALS				
ANTIMONY	mg/kg	9 U	9 U	9 U
ARSENIC	mg/kg	1.4 =	1 U	5.9 =
BARIUM	mg/kg	87 =	46.9 =	155 =
BERYLLIUM	mg/kg	.5 U	.5 U	.5 U
CADMIUM	mg/kg	1 U	1 U	1 U
CHROMIUM, TOTAL	mg/kg	7.6 =	4.6 =	14.7 =
COBALT	mg/kg	3 U	3 U	6.5 =
COPPER	mg/kg	6.7 =	13 =	18.4 =

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Facility Location:		Suspected Blast Grit Disposal Area	Suspected Blast Grit Disposal Area	Suspected Blast Grit Disposal Area
Boring Number:		MBH67	MBH67	MBH68
Sample Depth:		0.5 to 0.8 ft.	3.0 to 3.3 ft.	0.5 to 0.8 ft.
Sample ID:		MBH67BS0101	MBH67BS0201	MBH68BS0101
Collection Date:		05/21/97	05/21/97	05/21/97
Analyte	Units			
LEAD	mg/kg	10 U	10 U	10 U
MERCURY	mg/kg	.34 =	.22 =	.31 =
MOLYBDENUM	mg/kg	3 U	3 U	4.7 =
NICKEL	mg/kg	8.2 =	4 U	16.1 =
SELENIUM	mg/kg	1 U	1 U	1 U
SILVER	mg/kg	8.7 =	8.4 =	9.6 =
THALLIUM	mg/kg	41.7 =	33.3 =	63.4 =
VANADIUM	mg/kg	21.4 =	8.4 =	27.6 =

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Facility Location:	Suspected Blast Grit Disposal Area	Suspected Blast Grit Disposal Area	Suspected Blast Grit Disposal Area
Boring Number:	MBH68	MBH69	MBH69
Sample Depth:	3.0 to 3.3 ft.	0.5 to 0.8 ft.	3.0 to 3.3 ft.
Sample ID:	MBH68BS0201	MBH69BS0101	MBH69BS0201
Collection Date:	05/21/97	05/21/97	05/21/97
Analyte	Units		
VOC			
BENZENE	ug/kg		
BROMOBENZENE	ug/kg		
BROMOCHLOROMETHANE	ug/kg		
BROMODICHLOROMETHANE	ug/kg		
BROMOFORM	ug/kg		
BROMOMETHANE	ug/kg		
n-BUTYLBENZENE	ug/kg		
SEC-BUTYLBENZENE	ug/kg		
tert-BUTYLBENZENE	ug/kg		
CARBON TETRACHLORIDE	ug/kg		
CHLOROBENZENE	ug/kg		
CHLOROETHANE	ug/kg		
CHLOROFORM	ug/kg		
CHLOROMETHANE	ug/kg		
2-CHLOROTOLUENE	ug/kg		
4-CHLOROTOLUENE	ug/kg		
DIBROMOCHLOROMETHANE	ug/kg		
1,2-DIBROMO-3-CHLOROPROPANE	ug/kg		
1,2-DIBROMOETHANE	ug/kg		
DIBROMOMETHANE	ug/kg		
1,2-DICHLOROBENZENE	ug/kg		
1,3-DICHLOROBENZENE	ug/kg		
1,4-DICHLOROBENZENE	ug/kg		
DICHLORODIFLUOROMETHANE	ug/kg		
1,1-DICHLOROETHANE	ug/kg		
1,2-DICHLOROETHANE	ug/kg		
1,1-DICHLOROETHENE	ug/kg		
cis-1,2-DICHLOROETHENE	ug/kg		
trans-1,2-DICHLOROETHENE	ug/kg		
1,2-DICHLOROPROPANE	ug/kg		
1,3-DICHLOROPROPANE	ug/kg		
2,2-DICHLOROPROPANE	ug/kg		
1,1-DICHLOROPROPENE	ug/kg		
1,1-DICHLOROPROPENE	ug/kg		
cis-1,3-DICHLOROPROPENE	ug/kg		
trans-1,3-DICHLOROPROPENE	ug/kg		
ETHYLBENZENE	ug/kg		
HEXACHLOROBUTADIENE	ug/kg		
ISOPROPYLBENZENE (CUMENE)	ug/kg		
p-ISOPROPYLTOLUENE	ug/kg		
METHYLENE CHLORIDE	ug/kg		
NAPHTHALENE	ug/kg		
n-PROPYLBENZENE	ug/kg		
STYRENE	ug/kg		
1,1,1,2-TETRACHLOROETHANE	ug/kg		
1,1,2,2-TETRACHLOROETHANE	ug/kg		
TETRACHLOROETHYLENE(PCE)	ug/kg		
TOLUENE	ug/kg		
1,2,3-TRICHLOROBENZENE	ug/kg		
1,2,4-TRICHLOROBENZENE	ug/kg		
1,1,1-TRICHLOROETHANE	ug/kg		
1,1,2-TRICHLOROETHANE	ug/kg		
TRICHLOROETHYLENE (TCE)	ug/kg		
TRICHLOROFLUOROMETHANE	ug/kg		
1,2,3-TRICHLOROPROPANE	ug/kg		
1,2,4-TRIMETHYLBENZENE	ug/kg		
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	ug/kg		
VINYL CHLORIDE	ug/kg		
O-XYLENE (1,2-DIMETHYLBENZENE)	ug/kg		
M,P-XYLENE (SUM OF ISOMERS)	ug/kg		
M-XYLENE (1,3-DIMETHYLBENZENE)	ug/kg		

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Facility Location:	Suspected Blast Grit Disposal Area	Suspected Blast Grit Disposal Area	Suspected Blast Grit Disposal Area
Boring Number:	MBH68	MBH69	MBH69
Sample Depth:	3.0 to 3.3 ft.	0.5 to 0.8 ft.	3.0 to 3.3 ft.
Sample ID:	MBH68BS0201	MBH69BS0101	MBH69BS0201
Collection Date:	05/21/97	05/21/97	05/21/97
Analyte	Units		
1,2-DICHLOROPROPYLENE	ug/kg		
PETROLEUM HYDROCARBONS			
TPH (C10 to C24)	mg/kg		
TPH (C25 to C40)	mg/kg		
HERBICIDES			
2,4,5-T (TRICHLOROPHENOXYACETIC ACID)	ug/kg		
SILVEX (2,4,5-TP)	ug/kg		
2,4-D (DICHLOROPHENOXYACETIC ACID)	ug/kg		
2,4 DB	ug/kg		
DALAPON	ug/kg		
DICAMBA	ug/kg		
DICHLOROPROP	ug/kg		
DINoseb	ug/kg		
PCBs			
PCB-1016 (AROCHLOR 1016)	ug/kg		
PCB-1221 (AROCHLOR 1221)	ug/kg		
PCB-1232 (AROCHLOR 1232)	ug/kg		
PCB-1242 (AROCHLOR 1242)	ug/kg		
PCB-1248 (AROCHLOR 1248)	ug/kg		
PCB-1254 (AROCHLOR 1254)	ug/kg		
PCB-1260 (AROCHLOR 1260)	ug/kg		
PESTICIDES/PCBs			
ALDRIN	mg/kg		
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	mg/kg		
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	mg/kg		
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	mg/kg		
gamma-BHC (Lindane)	mg/kg		
CHLORDANE	mg/kg		
p,p'-DDD	mg/kg		
p,p'-DDE	mg/kg		
p,p'-DDT	mg/kg		
DIELDRIN	mg/kg		
ALPHA ENDOSULFAN	mg/kg		
BETA ENDOSULFAN	mg/kg		
ENDOSULFAN SULFATE	mg/kg		
ENDRIN	mg/kg		
ENDRIN ALDEHYDE	mg/kg		
HEPTACHLOR EPOXIDE	mg/kg		
HEPTACHLOR	mg/kg		
METHOXYCHLOR	mg/kg		
TOXAPHENE	mg/kg		
PCB-1016 (AROCHLOR 1016)	mg/kg		
PCB-1221 (AROCHLOR 1221)	mg/kg		
PCB-1232 (AROCHLOR 1232)	mg/kg		
PCB-1242 (AROCHLOR 1242)	mg/kg		
PCB-1248 (AROCHLOR 1248)	mg/kg		
PCB-1254 (AROCHLOR 1254)	mg/kg		
PCB-1260 (AROCHLOR 1260)	mg/kg		
METALS			
ANTIMONY	mg/kg	9 U	9 U
ARSENIC	mg/kg	1 U	1 U
BARIUM	mg/kg	58.9 =	55 =
BERYLLIUM	mg/kg	.5 U	.5 U
CADMIUM	mg/kg	1 U	1 U
CHROMIUM, TOTAL	mg/kg	5.9 =	13.5 =
COBALT	mg/kg	3 U	3 U
COPPER	mg/kg	7.6 =	26.5 =

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

	Facility Location:	Suspected Blast Grit Disposal Area	Suspected Blast Grit Disposal Area	Suspected Blast Grit Disposal Area
	Boring Number:	MBH68	MBH69	MBH69
	Sample Depth:	3.0 to 3.3 ft.	0.5 to 0.8 ft.	3.0 to 3.3 ft.
	Sample ID:	MBH68BS0201	MBH69BS0101	MBH69BS0201
	Collection Date:	05/21/97	05/21/97	05/21/97
Analyte	Units			
LEAD	mg/kg	10 U	48.7 =	48.7 =
MERCURY	mg/kg	.19 =	.21 =	.21 =
MOLYBDENUM	mg/kg	3 U	3 U	4.6 =
NICKEL	mg/kg	4.4 =	19.9 =	19.9 =
SELENIUM	mg/kg	1 U	1 U	1 U
SILVER	mg/kg	8.5 =	9.1 =	7.7 =
THALLIUM	mg/kg	35 =	41.7 =	30.4 =
VANADIUM	mg/kg	8.9 =	30.1 =	6.4 =

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

	Facility Location:	Primary Fuel Oil Pumping Area	Primary Fuel Oil Pumping Area
	Boring Number:	MBH70	MBH70
	Sample Depth:	0.5 to 0.8 ft.	3.0 to 3.3 ft.
	Sample ID:	MBH70BS0101	MBH70BS0201
	Collection Date:	05/21/97	05/21/97
Analyte	Units		
VOC			
BENZENE	ug/kg		
BROMOBENZENE	ug/kg		
BROMOCHLOROMETHANE	ug/kg		
BROMODICHLOROMETHANE	ug/kg		
BROMOFORM	ug/kg		
BROMOMETHANE	ug/kg		
n-BUTYLBENZENE	ug/kg		
SEC-BUTYLBENZENE	ug/kg		
tert-BUTYLBENZENE	ug/kg		
CARBON TETRACHLORIDE	ug/kg		
CHLOROBENZENE	ug/kg		
CHLOROETHANE	ug/kg		
CHLOROFORM	ug/kg		
CHLOROMETHANE	ug/kg		
2-CHLOROTOLUENE	ug/kg		
4-CHLOROTOLUENE	ug/kg		
DIBROMOCHLOROMETHANE	ug/kg		
1,2-DIBROMO-3-CHLOROPROPANE	ug/kg		
1,2-DIBROMOETHANE	ug/kg		
DIBROMOMETHANE	ug/kg		
1,2-DICHLOROBENZENE	ug/kg		
1,3-DICHLOROBENZENE	ug/kg		
1,4-DICHLOROBENZENE	ug/kg		
DICHLORODIFLUOROMETHANE	ug/kg		
1,1-DICHLOROETHANE	ug/kg		
1,2-DICHLOROETHANE	ug/kg		
1,1-DICHLOROETHENE	ug/kg		
cis-1,2-DICHLOROETHENE	ug/kg		
trans-1,2-DICHLOROETHENE	ug/kg		
1,2-DICHLOROPROPANE	ug/kg		
1,3-DICHLOROPROPANE	ug/kg		
2,2-DICHLOROPROPANE	ug/kg		
1,1-DICHLOROPROPENE	ug/kg		
1,1-DICHLOROPROPENE	ug/kg		
cis-1,3-DICHLOROPROPENE	ug/kg		
trans-1,3-DICHLOROPROPENE	ug/kg		
ETHYLBENZENE	ug/kg		
HEXACHLOROBUTADIENE	ug/kg		
ISOPROPYLBENZENE (CUMENE)	ug/kg		
p-ISOPROPYLTOLUENE	ug/kg		
METHYLENE CHLORIDE	ug/kg		
NAPHTHALENE	ug/kg		
n-PROPYLBENZENE	ug/kg		
STYRENE	ug/kg		
1,1,1,2-TETRACHLOROETHANE	ug/kg		
1,1,2,2-TETRACHLOROETHANE	ug/kg		
TETRACHLOROETHYLENE(PCE)	ug/kg		
TOLUENE	ug/kg		
1,2,3-TRICHLOROBENZENE	ug/kg		
1,2,4-TRICHLOROBENZENE	ug/kg		
1,1,1-TRICHLOROETHANE	ug/kg		
1,1,2-TRICHLOROETHANE	ug/kg		
TRICHLOROETHYLENE (TCE)	ug/kg		
TRICHLOROFUOROMETHANE	ug/kg		
1,2,3-TRICHLOROPROPANE	ug/kg		
1,2,4-TRIMETHYLBENZENE	ug/kg		
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	ug/kg		
VINYL CHLORIDE	ug/kg		
O-XYLENE (1,2-DIMETHYLBENZENE)	ug/kg		
M,P-XYLENE (SUM OF ISOMERS)	ug/kg		
M-XYLENE (1,3-DIMETHYLBENZENE)	ug/kg		

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

	Facility Location:	Primary Fuel Oil	Primary Fuel Oil
	Boring Number:	Pumping Area	Pumping Area
		MBH70	MBH70
	Sample Depth:	0.5 to 0.8 ft.	3.0 to 3.3 ft.
	Sample ID:	MBH70BS0101	MBH70BS0201
	Collection Date:	05/21/97	05/21/97
Analyte	Units		
1,2-DICHLOROPROPYLENE	ug/kg		
PETROLEUM HYDROCARBONS			
TPH (C10 to C24)	mg/kg	80 =	5 U
TPH (C25 to C40)	mg/kg		
HERBICIDES			
2,4,5-T (TRICHLOROPHENOXYACETIC ACID)	ug/kg		
SILVEX (2,4,5-TP)	ug/kg		
2,4-D (DICHLOROPHENOXYACETIC ACID)	ug/kg		
2,4 DB	ug/kg		
DALAPON	ug/kg		
DICAMBA	ug/kg		
DICHLOROPROP	ug/kg		
DINoseb	ug/kg		
PCBs			
PCB-1016 (AROCHLOR 1016)	ug/kg		
PCB-1221 (AROCHLOR 1221)	ug/kg		
PCB-1232 (AROCHLOR 1232)	ug/kg		
PCB-1242 (AROCHLOR 1242)	ug/kg		
PCB-1248 (AROCHLOR 1248)	ug/kg		
PCB-1254 (AROCHLOR 1254)	ug/kg		
PCB-1260 (AROCHLOR 1260)	ug/kg		
PESTICIDES/PCBs			
ALDRIN	mg/kg		
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	mg/kg		
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	mg/kg		
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	mg/kg		
gamma-BHC (Lindane)	mg/kg		
CHLORDANE	mg/kg		
p,p'-DDD	mg/kg		
p,p'-DDE	mg/kg		
p,p'-DDT	mg/kg		
DIELDRIN	mg/kg		
ALPHA ENDOSULFAN	mg/kg		
BETA ENDOSULFAN	mg/kg		
ENDOSULFAN SULFATE	mg/kg		
ENDRIN	mg/kg		
ENDRIN ALDEHYDE	mg/kg		
HEPTACHLOR EPOXIDE	mg/kg		
HEPTACHLOR	mg/kg		
METHOXYCHLOR	mg/kg		
TOXAPHENE	mg/kg		
PCB-1016 (AROCHLOR 1016)	mg/kg		
PCB-1221 (AROCHLOR 1221)	mg/kg		
PCB-1232 (AROCHLOR 1232)	mg/kg		
PCB-1242 (AROCHLOR 1242)	mg/kg		
PCB-1248 (AROCHLOR 1248)	mg/kg		
PCB-1254 (AROCHLOR 1254)	mg/kg		
PCB-1260 (AROCHLOR 1260)	mg/kg		
METALS			
ANTIMONY	mg/kg		
ARSENIC	mg/kg		
BARIUM	mg/kg		
BERYLLIUM	mg/kg		
CADMIUM	mg/kg		
CHROMIUM, TOTAL	mg/kg		
COBALT	mg/kg		
COPPER	mg/kg		

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 7
Soil Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Facility Location:		Primary Fuel Oil Pumping Area	Primary Fuel Oil Pumping Area
Boring Number:		MBH70	MBH70
Sample Depth:		0.5 to 0.8 ft.	3.0 to 3.3 ft.
Sample ID:		MBH70BS0101	MBH70BS0201
Collection Date:		05/21/97	05/21/97
Analyte	Units		
LEAD	mg/kg		
MERCURY	mg/kg		
MOLYBDENUM	mg/kg		
NICKEL	mg/kg		
SELENIUM	mg/kg		
SILVER	mg/kg		
THALLIUM	mg/kg		
VANADIUM	mg/kg		

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 8
Groundwater Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Facility Location:	South Fuel Storage	South Fuel Storage	Peaker Distillate	Displacement Oil	Lube Oil Tank
	Tank	Tank	Tank	Tank	
Boring Number:	MBH01	MBH03	MBH08	MBH09	MBH12
Sample Depth:	9.15 ft	6.2 ft	7.6 ft	10.3 ft	7.3 ft
Sample ID:	MBH01BW0104	MBH03BW0105	MBH08BW0105	MBH09BW0103	MBH12BW0105
Collection Date:	11/04/96	11/04/96	11/01/96	11/04/96	10/31/96
Analyte	Units				
VOC					
BENZENE	ug/l	.5 U		.5 U	
BROMOBENZENE	ug/l	.5 U		.5 U	
BROMOCHLOROMETHANE	ug/l	.5 U		.5 U	
BROMODICHLOROMETHANE	ug/l	.5 U		.5 U	
BROMOFORM	ug/l	.5 U		.5 U	
BROMOMETHANE	ug/l	.5 U		.5 U	
n-BUTYLBENZENE	ug/l	.5 U		.5 U	
SEC-BUTYLBENZENE	ug/l	.5 U		.5 U	
tert-BUTYLBENZENE	ug/l	.5 U		.5 U	
CARBON TETRACHLORIDE	ug/l	.5 U		.5 U	
CHLOROBENZENE	ug/l	.5 U		.5 U	
CHLOROETHANE	ug/l	.5 U		.5 U	
CHLOROFORM	ug/l	.5 U		.5 U	
CHLOROMETHANE	ug/l	.5 U		.5 U	
2-CHLOROTOLUENE	ug/l	.5 U		.5 U	
4-CHLOROTOLUENE	ug/l	.5 U		.5 U	
DIBROMOCHLOROMETHANE	ug/l	.5 U		.5 U	
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	.5 U		.5 U	
1,2-DIBROMOETHANE	ug/l	.5 U		.5 U	
DIBROMOMETHANE	ug/l	.5 U		.5 U	
1,2-DICHLOROBENZENE	ug/l	.5 U		.5 U	
1,3-DICHLOROBENZENE	ug/l	.5 U		.5 U	
1,4-DICHLOROBENZENE	ug/l	.5 U		.5 U	
DICHLORODIFLUOROMETHANE	ug/l	.5 U		.5 U	
1,1-DICHLOROETHANE	ug/l	.5 U		.5 U	
1,2-DICHLOROETHANE	ug/l	.5 U		.5 U	
1,1-DICHLOROETHENE	ug/l	.5 U		.5 U	
cis-1,2-DICHLOROETHENE	ug/l	.5 U		.5 U	
trans-1,2-DICHLOROETHENE	ug/l	.5 U		.5 U	
1,2-DICHLOROPROPANE	ug/l	.5 U		.5 U	
1,3-DICHLOROPROPANE	ug/l	.5 U		.5 U	
2,2-DICHLOROPROPANE	ug/l	.5 U		.5 U	
1,1-DICHLOROPROPENE	ug/l	.5 U		.5 U	
cis-1,3-DICHLOROPROPENE	ug/l	.5 U		.5 U	
trans-1,3-DICHLOROPROPENE	ug/l	.5 U		.5 U	
ETHYLBENZENE	ug/l	.5 U		.5 U	
HEXACHLOROBUTADIENE	ug/l	.5 U		.5 U	
ISOPROPYLBENZENE (CUMENE)	ug/l	.5 U		.5 U	
p-ISOPROPYLTOLUENE	ug/l	.5 U		.5 U	
METHYLENE CHLORIDE	ug/l	1 U		1 U	
NAPHTHALENE	ug/l	1 U		1 U	
n-PROPYLBENZENE	ug/l	.5 U		.5 U	
STYRENE	ug/l	.5 U		.5 U	
1,1,1,2-TETRACHLOROETHANE	ug/l	.5 U		.5 U	
1,1,2,2-TETRACHLOROETHANE	ug/l	.5 U		.5 U	
TETRACHLOROETHYLENE (PCE)	ug/l	.5 U		.5 U	
TOLUENE	ug/l	.5 U		.5 U	
1,2,3-TRICHLOROBENZENE	ug/l	.5 U		.5 U	
1,2,4-TRICHLOROBENZENE	ug/l	.5 U		.5 U	
1,1,1-TRICHLOROETHANE	ug/l	.5 U		.5 U	
1,1,2-TRICHLOROETHANE	ug/l	.5 U		.5 U	
TRICHLOROETHYLENE (TCE)	ug/l	.5 U		.5 U	
TRICHLOROFLUOROMETHANE	ug/l	.5 U		.5 U	
1,2,3-TRICHLOROPROPANE	ug/l	1 U		1 U	
1,2,4-TRIMETHYLBENZENE	ug/l	.5 U		.5 U	
3,5-TRIMETHYLBENZENE (MESITYLENE)	ug/l	.5 U		.5 U	

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 8
Groundwater Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Facility Location:	South Fuel Storage Tank	South Fuel Storage Tank	Peaker Distillate Tank	Displacement Oil Tank	Lube Oil Tank
Boring Number:	MBH01	MBH03	MBH08	MBH09	MBH12
Sample Depth:	9.15 ft.	6.2 ft.	7.6 ft.	10.3 ft.	7.3 ft.
Sample ID:	MBH01BW0104	MBH03BW0105	MBH08BW0105	MBH09BW0103	MBH12BW0105
Collection Date:	11/04/96	11/04/96	11/01/96	11/04/96	10/31/96
Analyte	Units				
VINYL CHLORIDE	ug/l	.5 U		.5 U	
O-XYLENE (1,2-DIMETHYLBENZENE)	ug/l	.5 U		.5 U	
M-XYLENE (1,3-DIMETHYLBENZENE)	ug/l	1 U		1 U	
1,2-DICHLOROPROPYLENE	ug/l	.5 U		.5 U	
DICHLOROFLUOROMETHANE	ug/l				
PETROLEUM HYDROCARBONS					
TPH (C10 to C24)	mg/l	.5 U	.6 =	.5 U	.5 U
TPH (C25 to C40)	mg/l	.5 U	.5 U	.5 U	.5 U
METALS					
ANTIMONY	mg/l				.045 U
ARSENIC	mg/l				.002 U
BARIUM	mg/l				.36 =
BERYLLIUM	mg/l				.0025 U
CADMIUM	mg/l				.005 U
CHROMIUM, TOTAL	mg/l				.011 =
COBALT	mg/l				.015 U
COPPER	mg/l				.01 U
LEAD	mg/l				.001 U
MERCURY	mg/l				.0003 U
MOLYBDENUM	mg/l				.015 U
NICKEL	mg/l				.02 U
SELENIUM	mg/l				.0028 =
SILVER	mg/l				.01 U
THALLIUM	mg/l				.002 U
VANADIUM	mg/l				.01 U
ZINC	mg/l				.025 =

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 8
Groundwater Analytical Results
Mandalay Generating Station
Edison Phase II ESA

		South Fuel Storage	Primary Fuel Pump	Secondary Fuel	Power Block Units 1	Power Block Units 1
Facility Location:		Tank	Area	Pump Area	& 2	& 2
Boring Number:		MBH01	MBH14	MBH16	MBH17	MBH19
Sample Depth:		9.15 ft.	9.6 ft.	7.8 ft.	7.7 ft.	7.8 ft.
Sample ID:		MBH01BW0104	MBH14BW0103	MBH16BW0103	MBH17BW0103	MBH19BW0105
Collection Date:		11/04/96	11/04/96	10/30/96	10/30/96	10/30/96
Analyte	Units					
VOC						
BENZENE	ug/l	.5 U	.5 U			
BROMOBENZENE	ug/l	.5 U	.5 U			
BROMOCHLOROMETHANE	ug/l	.5 U	.5 U			
BROMODICHLOROMETHANE	ug/l	.5 U	.5 U			
BROMOFORM	ug/l	.5 U	.5 U			
BROMOMETHANE	ug/l	.5 U	.5 U			
n-BUTYLBENZENE	ug/l	.5 U	.5 U			
SEC-BUTYLBENZENE	ug/l	.5 U	.5 U			
tert-BUTYLBENZENE	ug/l	.5 U	.5 U			
CARBON TETRACHLORIDE	ug/l	.5 U	.5 U			
CHLOROBENZENE	ug/l	.5 U	.5 U			
CHLOROETHANE	ug/l	.5 U	.5 U			
CHLOROFORM	ug/l	.5 U	.5 U			
CHLOROMETHANE	ug/l	.5 U	.5 U			
2-CHLOROTOLUENE	ug/l	.5 U	.5 U			
4-CHLOROTOLUENE	ug/l	.5 U	.5 U			
DIBROMOCHLOROMETHANE	ug/l	.5 U	.5 U			
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	.5 U	.5 U			
1,2-DIBROMOETHANE	ug/l	.5 U	.5 U			
DIBROMOMETHANE	ug/l	.5 U	.5 U			
1,2-DICHLOROBENZENE	ug/l	.5 U	.5 U			
1,3-DICHLOROBENZENE	ug/l	.5 U	.5 U			
1,4-DICHLOROBENZENE	ug/l	.5 U	.5 U			
DICHLORODIFLUOROMETHANE	ug/l	.5 U	.5 U			
1,1-DICHLOROETHANE	ug/l	.5 U	.5 U			
1,2-DICHLOROETHANE	ug/l	.5 U	.5 U			
1,1-DICHLOROETHENE	ug/l	.5 U	.5 U			
cis-1,2-DICHLOROETHENE	ug/l	.5 U	.5 U			
trans-1,2-DICHLOROETHENE	ug/l	.5 U	.5 U			
1,2-DICHLOROPROPANE	ug/l	.5 U	.5 U			
1,3-DICHLOROPROPANE	ug/l	.5 U	.5 U			
2,2-DICHLOROPROPANE	ug/l	.5 U	.5 U			
1,1-DICHLOROPROPENE	ug/l	.5 U	.5 U			
cis-1,3-DICHLOROPROPENE	ug/l	.5 U	.5 U			
trans-1,3-DICHLOROPROPENE	ug/l	.5 U	.5 U			
ETHYLBENZENE	ug/l	.5 U	.5 U			
HEXACHLOROBUTADIENE	ug/l	.5 U	.5 U			
ISOPROPYLBENZENE (CUMENE)	ug/l	.5 U	.5 U			
p-ISOPROPYLTOLUENE	ug/l	.5 U	.5 U			
METHYLENE CHLORIDE	ug/l	1 U	1 U			
NAPHTHALENE	ug/l	1 U	1 U			
n-PROPYLBENZENE	ug/l	.5 U	.5 U			
STYRENE	ug/l	.5 U	.5 U			
1,1,1,2-TETRACHLOROETHANE	ug/l	.5 U	.5 U			
1,1,2,2-TETRACHLOROETHANE	ug/l	.5 U	.5 U			
TETRACHLOROETHYLENE(PCE)	ug/l	.5 U	.5 U			
TOLUENE	ug/l	.5 U	.5 U			
1,2,3-TRICHLOROBENZENE	ug/l	.5 U	.5 U			
1,2,4-TRICHLOROBENZENE	ug/l	.5 U	.5 U			
1,1,1-TRICHLOROETHANE	ug/l	.5 U	.5 U			
1,1,2-TRICHLOROETHANE	ug/l	.5 U	.5 U			
TRICHLOROETHYLENE (TCE)	ug/l	.5 U	.5 U			
TRICHLOROFLUOROMETHANE	ug/l	.5 U	.5 U			
1,2,3-TRICHLOROPROPANE	ug/l	1 U	1 U			
1,2,4-TRIMETHYLBENZENE	ug/l	.5 U	.5 U			
3,5-TRIMETHYLBENZENE (MESITYLENE)	ug/l	.5 U	.5 U			

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 8
Groundwater Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Facility Location:		South Fuel Storage	Primary Fuel Pump	Secondary Fuel	Power Block Units 1	Power Block Units 1
		Tank	Area	Pump Area	& 2	& 2
Boring Number:		MBH01	MBH14	MBH16	MBH17	MBH19
Sample Depth:		9.15 ft.	9.6 ft.	7.8 ft.	7.7 ft.	7.8 ft.
Sample ID:		MBH01BW0104	MBH14BW0103	MBH16BW0103	MBH17BW0103	MBH19BW0105
Collection Date:		11/04/96	11/04/96	10/30/96	10/30/96	10/30/96
Analyte	Units					
VINYL CHLORIDE	ug/l	.5 U	.5 U			
O-XYLENE (1,2-DIMETHYLBENZENE)	ug/l	.5 U	.5 U			
M-XYLENE (1,3-DIMETHYLBENZENE)	ug/l	1 U	1 U			
1,2-DICHLOROPROPYLENE	ug/l	.5 U	.5 U			
DICHLOROFLUOROMETHANE	ug/l					
PETROLEUM HYDROCARBONS						
TPH (C10 to C24)	mg/l	.5 U		.5 U	.5 U	.5 U
TPH (C25 to C40)	mg/l	.5 U		.5 U	.5 U	.5 U
METALS						
ANTIMONY	mg/l			.045 U	.045 U	.045 U
ARSENIC	mg/l			.01 U	.003 =	.01 U
BARIUM	mg/l			.18 =	.25 =	.08 =
BERYLLIUM	mg/l			.005 U	.005 U	.005 U
CADMIUM	mg/l			.005 U	.005 U	.005 U
CHROMIUM, TOTAL	mg/l			.01 U	.01 U	.01 U
COBALT	mg/l			.015 U	.015 U	.015 U
COPPER	mg/l			.01 U	.01 U	.01 U
LEAD	mg/l			.05 U	.05 U	.05 U
MERCURY	mg/l			.001 =	.0021 =	.002 =
MOLYBDENUM	mg/l			.015 U	.015 U	.015 U
NICKEL	mg/l			.02 U	.1 =	.02 U
SELENIUM	mg/l			.005 U	.005 U	.005 U
SILVER	mg/l			.06 =	.09 =	.02 =
THALLIUM	mg/l			.01 U	.01 U	.01 U
VANADIUM	mg/l			.01 U	.01 U	.02 =
ZINC	mg/l			.02 U	.02 U	.02 U

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 8
Groundwater Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Facility Location:	South Fuel Storage Oil/Water Separator Oil/Water Separator			Peaker Unit Pump	
	Tank	& Sump	& Sump	Peaker Unit	Area
Boring Number:	MBH01	MBH29	MBH29	MBH31	MBH32
Sample Depth:	9.15 ft.	10.8 ft.	10.8 ft.	9.1 ft.	8.4 ft.
Sample ID:	MBH01BW0104	MBH29BW0105	MBH29BW0125	MBH31BW0104	MBH32BW0104
Collection Date:	11/04/96	10/29/96	10/29/96	10/31/96	11/05/96
Analyte	Units				
VOC					
BENZENE	ug/l	.5 U	.5 U	.5 U	.5 U
BROMOBENZENE	ug/l	.5 U	.5 U	.5 U	.5 U
BROMOCHLOROMETHANE	ug/l	.5 U	.5 U	.5 U	.5 U
BROMODICHLOROMETHANE	ug/l	.5 U	.5 U	.6 =	.5 U
BROMOFORM	ug/l	.5 U	.5 U	.5 U	.5 U
BROMOMETHANE	ug/l	.5 U	.5 U	.5 U	.5 U
n-BUTYLBENZENE	ug/l	.5 U	1 U	1 U	.5 U
SEC-BUTYLBENZENE	ug/l	.5 U	.5 U	.5 U	3.2 =
tert-BUTYLBENZENE	ug/l	.5 U	.5 U	.5 U	.5 U
CARBON TETRACHLORIDE	ug/l	.5 U	.5 U	.5 U	.5 U
CHLOROBENZENE	ug/l	.5 U	.5 U	.5 U	.5 U
CHLOROETHANE	ug/l	.5 U	.5 U	.5 U	.5 U
CHLOROFORM	ug/l	.5 U	1.3 =	1.6 =	.5 U
CHLOROMETHANE	ug/l	.5 U	.5 U	.5 U	.5 U
2-CHLOROTOLUENE	ug/l	.5 U	.5 U	.5 U	.5 U
4-CHLOROTOLUENE	ug/l	.5 U	.5 U	.5 U	.5 U
DIBROMOCHLOROMETHANE	ug/l	.5 U	.5 U	.5 U	.5 U
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	.5 U	.5 U	.5 U	.5 U
1,2-DIBROMOETHANE	ug/l	.5 U	.5 U	.5 U	1 U
DIBROMOMETHANE	ug/l	.5 U	.5 U	.5 U	.5 U
1,2-DICHLOROETHENE	ug/l	.5 U	.5 U	.5 U	.5 U
1,3-DICHLOROETHENE	ug/l	.5 U	.5 U	.5 U	.5 U
1,4-DICHLOROETHENE	ug/l	.5 U	.5 U	.5 U	.5 U
DICHLORODIFLUOROMETHANE	ug/l	.5 U	.5 U	.5 U	.5 U
1,1-DICHLOROETHANE	ug/l	.5 U	.5 U	.5 U	.5 U
1,2-DICHLOROETHANE	ug/l	.5 U	.5 U	.5 U	.5 U
1,1-DICHLOROETHENE	ug/l	.5 U	.5 U	.5 U	.5 U
cis-1,2-DICHLOROETHENE	ug/l	.5 U	.5 U	.5 U	1 U
trans-1,2-DICHLOROETHENE	ug/l	.5 U	1 U	1 U	1 U
1,2-DICHLOROPROPANE	ug/l	.5 U	.5 U	.5 U	.5 U
1,3-DICHLOROPROPANE	ug/l	.5 U	.5 U	.5 U	.5 U
2,2-DICHLOROPROPANE	ug/l	.5 U	.5 U	.5 U	.5 U
1,1-DICHLOROPROPENE	ug/l	.5 U	.5 U	.5 U	.5 U
cis-1,3-DICHLOROPROPENE	ug/l	.5 U	.5 U	.5 U	.5 U
trans-1,3-DICHLOROPROPENE	ug/l	.5 U	.5 U	.5 U	1 U
ETHYLBENZENE	ug/l	.5 U	.5 U	.5 U	.5 U
HEXACHLOROBUTADIENE	ug/l	.5 U	.5 U	.5 U	.5 U
ISOPROPYLBENZENE (CUMENE)	ug/l	.5 U	.5 U	.5 U	.5 U
p-ISOPROPYLTOLUENE	ug/l	.5 U	.5 U	.5 U	.5 U
METHYLENE CHLORIDE	ug/l	1 U	.5 U	.5 U	.5 U
NAPHTHALENE	ug/l	1 U	.5 U	.5 U	.5 U
n-PROPYLBENZENE	ug/l	.5 U	.5 U	.5 U	2.2 =
STYRENE	ug/l	.5 U	1 U	1 U	.5 U
1,1,1,2-TETRACHLOROETHANE	ug/l	.5 U	.5 U	.5 U	.5 U
1,1,1,2-TETRACHLOROETHANE	ug/l	.5 U	.5 U	.5 U	.5 U
TETRACHLOROETHYLENE(PCE)	ug/l	.5 U	.5 U	.5 U	.5 U
TOLUENE	ug/l	.5 U	.5 U	.5 U	.5 U
1,2,3-TRICHLOROETHANE	ug/l	.5 U	.5 U	.5 U	.5 U
1,2,4-TRICHLOROETHANE	ug/l	.5 U	.5 U	.5 U	.5 U
1,1,1-TRICHLOROETHANE	ug/l	.5 U	.5 U	.6 =	.5 U
1,1,2-TRICHLOROETHANE	ug/l	.5 U	.5 U	.5 U	.5 U
TRICHLOROETHYLENE (TCE)	ug/l	.5 U	.5 U	.5 U	.5 U
TRICHLOROFLUOROMETHANE	ug/l	.5 U	.5 U	.5 U	.5 U
1,2,3-TRICHLOROPROPANE	ug/l	1 U	.5 U	.5 U	.5 U
1,2,4-TRIMETHYLBENZENE	ug/l	.5 U	.5 U	.5 U	.5 U
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	ug/l	.5 U	.5 U	.5 U	.5 U

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 8
Groundwater Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Facility Location:	Units	South Fuel Storage	Oil/Water Separator	Oil/Water Separator	Peaker Unit	Peaker Unit Pump
		Tank	& Sump	& Sump		Area
Boring Number:		MBH01	MBH29	MBH29	MBH31	MBH32
Sample Depth:		9.15 ft.	10.8 ft.	10.8 ft.	9.1 ft.	8.4 ft.
Sample ID:		MBH01BW0104	MBH29BW0105	MBH29BW0125	MBH31BW0104	MBH32BW0104
Collection Date:		11/04/96	10/29/96	10/29/96	10/31/96	11/05/96
Analyte	Units					
VINYL CHLORIDE	ug/l	.5 U	.5 U	.5 U		.5 U
O-XYLENE (1,2-DIMETHYLBENZENE)	ug/l	.5 U	.5 U	.5 U		.5 U
M-XYLENE (1,3-DIMETHYLBENZENE)	ug/l	1 U	.5 U	.5 U		.5 U
1,2-DICHLOROPROPYLENE	ug/l	.5 U	.5 U	.5 U		.5 U
DICHLOROFLUOROMETHANE	ug/l					
PETROLEUM HYDROCARBONS						
TPH (C10 to C24)	mg/l	.5 U	.5 U	.5 U	.5 U	1.6 =
TPH (C25 to C40)	mg/l	.5 U	.5 U	.5 U	.5 U	.5 U
METALS						
ANTIMONY	mg/l		.045 U	.045 U	.045 U	
ARSENIC	mg/l		.003 =	.01 U	.01 U	
BARIUM	mg/l		.17 =	.14 =	.19 =	
BERYLLIUM	mg/l		.005 U	.005 U	.005 U	
CADMIUM	mg/l		.005 U	.005 U	.005 U	
CHROMIUM, TOTAL	mg/l		.01 U	.01 U	.01 U	
COBALT	mg/l		.015 U	.015 U	.015 U	
COPPER	mg/l		.01 U	.01 U	.02 =	
LEAD	mg/l		.05 U	.05 U	.05 U	
MERCURY	mg/l		.0011 =	.0009 =	.013 =	
MOLYBDENUM	mg/l		.02 =	.02 =	.015 U	
NICKEL	mg/l		.02 U	.02 U	.02 U	
SELENIUM	mg/l		.01 =	.009 =	.014 =	
SILVER	mg/l		.08 =	.08 =	.22 =	
THALLIUM	mg/l		.01 U	.01 U	.01 U	
VANADIUM	mg/l		.08 =	.08 =	.02 =	
ZINC	mg/l		.03 =	.02 U	.02 U	

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 8
Groundwater Analytical Results
Mandalay Generating Station
Edison Phase II ESA

		South Fuel Storage		Submarine Pipeline		Adjacent Petroleum
Facility Location:		Tank	Switchyard	Septic Tank	Sump	Facility
Boring Number:		MBH01	MBH35	MBH39	MBH43	MBH44
Sample Depth:		9.15 ft.	7.5 ft.	9 ft.	8.5 ft.	17.72 ft.
Sample ID:		MBH01BW0104	MBH35BW0104	MBH39BW0104	MBH43BW0104	MBH44BW0105
Collection Date:		11/04/96	11/01/96	10/29/96	10/31/96	11/01/96
Analyte	Units					
VOC						
BENZENE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
BROMOBENZENE	ug/l	.5 U	.5 U	.5 U	1 U	.5 U
BROMOCHLOROMETHANE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
BROMODICHLOROMETHANE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
BROMOFORM	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
BROMOMETHANE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
n-BUTYLBENZENE	ug/l	.5 U	.5 U	1 U	.5 U	.5 U
SEC-BUTYLBENZENE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
tert-BUTYLBENZENE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
CARBON TETRACHLORIDE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
CHLOROBENZENE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
CHLOROETHANE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
CHLOROFORM	ug/l	.5 U	.5 U	.5 U	.5 U	5.6 =
CHLOROMETHANE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
2-CHLOROTOLUENE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
4-CHLOROTOLUENE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
DIBROMOCHLOROMETHANE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
1,2-DIBROMOETHANE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
DIBROMOMETHANE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
1,2-DICHLOROBENZENE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
1,3-DICHLOROBENZENE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
1,4-DICHLOROBENZENE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
DICHLORODIFLUOROMETHANE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
1,1-DICHLOROETHANE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
1,2-DICHLOROETHANE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
1,1-DICHLOROETHENE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
cis-1,2-DICHLOROETHENE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
trans-1,2-DICHLOROETHENE	ug/l	.5 U	.5 U	1 U	.5 U	.5 U
1,2-DICHLOROPROPANE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
1,3-DICHLOROPROPANE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
2,2-DICHLOROPROPANE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
1,1-DICHLOROPROPENE	ug/l					
cis-1,3-DICHLOROPROPENE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
trans-1,3-DICHLOROPROPENE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
ETHYLBENZENE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
HEXACHLOROBUTADIENE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
ISOPROPYLBENZENE (CUMENE)	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
p-ISOPROPYLTOLUENE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
METHYLENE CHLORIDE	ug/l	1 U	1 U	.5 U	1 U	1 U
NAPHTHALENE	ug/l	1 U	1 U	.5 U	.5 U	1 U
n-PROPYLBENZENE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
STYRENE	ug/l	.5 U	.5 U	1 U	.5 U	.5 U
1,1,1,2-TETRACHLOROETHANE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
1,1,2,2-TETRACHLOROETHANE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
TETRACHLOROETHYLENE(PCE)	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
TOLUENE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
1,2,3-TRICHLOROBENZENE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
1,2,4-TRICHLOROBENZENE	ug/l	.5 U	.5 U	.5 U	1 U	.5 U
1,1,1-TRICHLOROETHANE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
1,1,2-TRICHLOROETHANE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
TRICHLOROETHYLENE (TCE)	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
TRICHLOROFLUOROMETHANE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
1,2,3-TRICHLOROPROPANE	ug/l	1 U	1 U	.5 U	.5 U	1 U
1,2,4-TRIMETHYLBENZENE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
3,5-TRIMETHYLBENZENE (MESITYLENE)	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 8
Groundwater Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Facility Location:	South Fuel Storage		Submarine Pipeline		Adjacent Petroleum
	Tank	Switchyard	Septic Tank	Sump	Facility
Boring Number:	MBH01	MBH35	MBH39	MBH43	MBH44
Sample Depth:	9.15 ft.	7.5 ft.	9 ft.	8.5 ft.	17.72 ft.
Sample ID:	MBH01BW0104	MBH35BW0104	MBH39BW0104	MBH43BW0104	MBH44BW0105
Collection Date:	11/04/96	11/01/96	10/29/96	10/31/96	11/01/96
Analyte	Units				
VINYL CHLORIDE	ug/l	.5 U	.5 U	.5 U	.5 U
O-XYLENE (1,2-DIMETHYLBENZENE)	ug/l	.5 U	.5 U	.5 U	.5 U
M-XYLENE (1,3-DIMETHYLBENZENE)	ug/l	1 U	.5 U	1 U	1 U
1,2-DICHLOROPROPYLENE	ug/l	.5 U	.5 U	.5 U	.5 U
DICHLOROFLUOROMETHANE	ug/l				
PETROLEUM HYDROCARBONS					
TPH (C10 to C24)	mg/l	.5 U	.5 U	.5 U	.5 U
TPH (C25 to C40)	mg/l	.5 U	.5 U	.5 U	.5 U
METALS					
ANTIMONY	mg/l		.045 U	.045 U	
ARSENIC	mg/l		.006 =	.01 U	
BARIUM	mg/l		.26 =	.38 =	
BERYLLIUM	mg/l		.005 U	.005 U	
CADMIUM	mg/l		.005 U	.005 U	
CHROMIUM, TOTAL	mg/l		.01 U	.02 =	
COBALT	mg/l		.015 U	.015 U	
COPPER	mg/l		.01 U	.02 =	
LEAD	mg/l		.05 U	.05 U	
MERCURY	mg/l		.001 =	.002 =	
MOLYBDENUM	mg/l		.06 =	.015 U	
NICKEL	mg/l		.02 U	.02 U	
SELENIUM	mg/l		.005 U	.007 =	
SILVER	mg/l		.08 =	.04 =	
THALLIUM	mg/l		.01 U	.01 U	
VANADIUM	mg/l		.01 U	.02 =	
ZINC	mg/l		.02 U	.02 U	

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 8
Groundwater Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Facility Location:	Units	South Fuel Storage	Adjacent Petroleum	Adjacent Petroleum	HAZMAT Storage	HAZMAT Storage
		Tank	Facility	Facility	Area	Area
Boring Number:		MBH01	MBH45	MBH46	MBH48	MBH48
Sample Depth:		9.15 ft.	8.2 ft.	8.3 ft.	8.8 ft.	8.8 ft.
Sample ID:		MBH01BW0104	MBH45BW0103	MBH46BW0103	MBH48BW0104	MBH48BW0124
Collection Date:		11/04/96	11/01/96	10/31/96	10/29/96	10/29/96
Analyte	Units					
VOC						
BENZENE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
BROMOBENZENE	ug/l	.5 U	.5 U	1 U	.5 U	.5 U
BROMOCHLOROMETHANE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
BROMODICHLOROMETHANE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
BROMOFORM	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
BROMOMETHANE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
n-BUTYLBENZENE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
SEC-BUTYLBENZENE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
tert-BUTYLBENZENE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
CARBON TETRACHLORIDE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
CHLOROBENZENE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
CHLOROETHANE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
CHLOROFORM	ug/l	.5 U	.5 U	4.1 =	.5 U	.5 U
CHLOROMETHANE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
2-CHLOROTOLUENE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
4-CHLOROTOLUENE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
DIBROMOCHLOROMETHANE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
1,2-DIBROMOETHANE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
DIBROMOMETHANE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
1,2-DICHLOROBENZENE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
1,3-DICHLOROBENZENE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
1,4-DICHLOROBENZENE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
DICHLORODIFLUOROMETHANE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
1,1-DICHLOROETHANE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
1,2-DICHLOROETHANE	ug/l	.5 U	.5 U	6.7 =	.5 U	.5 U
1,1-DICHLOROETHENE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
cis-1,2-DICHLOROETHENE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
trans-1,2-DICHLOROETHENE	ug/l	.5 U	.5 U	.5 U	1 U	1 U
1,2-DICHLOROPROPANE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
1,3-DICHLOROPROPANE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
2,2-DICHLOROPROPANE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
1,1-DICHLOROPROPENE	ug/l					
cis-1,3-DICHLOROPROPENE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
trans-1,3-DICHLOROPROPENE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
ETHYLBENZENE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
HEXACHLOROBUTADIENE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
ISOPROPYLBENZENE (CUMENE)	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
p-ISOPROPYLTOLUENE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
METHYLENE CHLORIDE	ug/l	1 U	1 U	1 U	.5 U	.5 U
NAPHTHALENE	ug/l	1 U	1 U	.5 U	.5 U	.5 U
n-PROPYLBENZENE	ug/l	.5 U	.5 U	.5 U	1 U	1 U
STYRENE	ug/l	.5 U	.5 U	.5 U	1 U	1 U
1,1,1,2-TETRACHLOROETHANE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
1,1,2,2-TETRACHLOROETHANE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
TETRACHLOROETHYLENE(PCE)	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
TOLUENE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
1,2,3-TRICHLOROBENZENE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
1,2,4-TRICHLOROBENZENE	ug/l	.5 U	.5 U	1 U	.5 U	.5 U
1,1,1-TRICHLOROETHANE	ug/l	.5 U	.5 U	6.9 =	.5 U	.5 U
1,1,2-TRICHLOROETHANE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
TRICHLOROETHYLENE (TCE)	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
TRICHLOROFLUOROMETHANE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
1,2,3-TRICHLOROPROPANE	ug/l	1 U	1 U	.5 U	.5 U	.5 U
1,2,4-TRIMETHYLBENZENE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
3,5-TRIMETHYLBENZENE (MESITYLENE)	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 8
Groundwater Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Facility Location:	Units	South Fuel Storage	Adjacent Petroleum	Adjacent Petroleum	HAZMAT Storage	HAZMAT Storage
		Tank	Facility	Facility	Area	Area
Boring Number:		MBH01	MBH45	MBH46	MBH48	MBH48
Sample Depth:		9.15 ft.	8.2 ft.	8.3 ft.	8.8 ft.	8.8 ft.
Sample ID:		MBH01BW0104	MBH45BW0103	MBH46BW0103	MBH48BW0104	MBH48BW0124
Collection Date:		11/04/96	11/01/96	10/31/96	10/29/96	10/29/96
Analyte	Units					
VINYL CHLORIDE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
O-XYLENE (1,2-DIMETHYLBENZENE)	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
M-XYLENE (1,3-DIMETHYLBENZENE)	ug/l	1 U	1 U	1 U	.5 U	.5 U
1,2-DICHLOROPROPYLENE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
DICHLOROFLUOROMETHANE	ug/l					
PETROLEUM HYDROCARBONS						
TPH (C10 to C24)	mg/l	.5 U	.5 U	.5 U	.5 U	.5 U
TPH (C25 to C40)	mg/l	.5 U	.5 U	.5 U	.5 U	.5 U
METALS						
ANTIMONY	mg/l				.045 U	.045 U
ARSENIC	mg/l				.01 U	.01 U
BARIUM	mg/l				.09 =	.08 =
BERYLLIUM	mg/l				.005 U	.005 U
CADMIUM	mg/l				.005 U	.005 U
CHROMIUM, TOTAL	mg/l				.01 U	.01 U
COBALT	mg/l				.015 U	.015 U
COPPER	mg/l				.03 =	.01 U
LEAD	mg/l				.05 U	.05 U
MERCURY	mg/l				.001 =	.0009 =
MOLYBDENUM	mg/l				.015 U	.015 U
NICKEL	mg/l				.02 U	.02 U
SELENIUM	mg/l				.005 U	.005 U
SILVER	mg/l				.09 =	.09 =
THALLIUM	mg/l				.01 U	.01 U
VANADIUM	mg/l				.01 U	.01 U
ZINC	mg/l				.02 U	.02 U

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 8
Groundwater Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Facility Location:	Units	South Fuel Storage	West Fuel Storage	Adjacent Petroleum	Adjacent Petroleum	Adjacent Petroleum
		Tank	Tank	Facility	Facility	Facility
Boring Number:		MBH01	MBH53	MBH59	MBH60	MBH61
Sample Depth:		9.15 ft.	9.7 ft.	8.1 ft.	8 ft.	8.5 ft.
Sample ID:		MBH01BW0104	MBH53BW0105	MBH59BW0201	MBH60BW0201	MBH61BW0201
Collection Date:		11/04/96	11/04/96	01/29/97	01/29/97	01/29/97
Analyte						
VOC						
BENZENE	ug/l	.5 U	.5 U	2.5 U	2.5 =	6.8 =
BROMOBENZENE	ug/l	.5 U	.5 U	2.5 U	1 U	.5 U
BROMOCHLOROMETHANE	ug/l	.5 U	.5 U	2.5 U	1 U	.5 U
BROMODICHLOROMETHANE	ug/l	.5 U	.5 U	2.5 U	1 U	.5 U
BROMOFORM	ug/l	.5 U	.5 U	2.5 U	1 U	.5 U
BROMOMETHANE	ug/l	.5 U	.5 U	2.5 U	1 U	.5 U
n-BUTYLBENZENE	ug/l	.5 U	.5 U	2.5 U	1 U	.5 U
SEC-BUTYLBENZENE	ug/l	.5 U	.5 U	2.5 U	3.5 =	.5 U
tert-BUTYLBENZENE	ug/l	.5 U	.5 U	2.5 U	1 U	.5 U
CARBON TETRACHLORIDE	ug/l	.5 U	.5 U	2.5 U	1 U	.5 U
CHLOROETHANE	ug/l	.5 U	.5 U	2.5 U	1 U	.5 U
CHLOROETHANE	ug/l	.5 U	.5 U	2.5 U	1 U	.5 U
CHLOROFORM	ug/l	.5 U	.5 U	2.5 U	1 U	.5 U
CHLOROMETHANE	ug/l	.5 U	.5 U	2.5 U	1 U	.5 U
2-CHLOROTOLUENE	ug/l	.5 U	.5 U	2.5 U	1 U	.5 U
4-CHLOROTOLUENE	ug/l	.5 U	.5 U	2.5 U	1 U	.5 U
DIBROMOCHLOROMETHANE	ug/l	.5 U	.5 U	2.5 U	1 U	.5 U
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	.5 U	.5 U	2.5 U	1 U	.5 U
1,2-DIBROMOETHANE	ug/l	.5 U	1 U	2.5 U	10 U	.5 U
DIBROMOMETHANE	ug/l	.5 U	.5 U	2.5 U	1 U	.5 U
1,2-DICHLOROETHANE	ug/l	.5 U	.5 U	2.5 U	1 U	.5 U
1,3-DICHLOROETHANE	ug/l	.5 U	.5 U	2.5 U	1 U	.5 U
1,4-DICHLOROETHANE	ug/l	.5 U	.5 U	2.5 U	1 U	.5 U
DICHLORODIFLUOROMETHANE	ug/l	.5 U	.5 U			
1,1-DICHLOROETHANE	ug/l	.5 U	.5 U	2.5 U	1 U	.5 U
1,2-DICHLOROETHANE	ug/l	.5 U	.5 U	2.5 U	1 U	.5 U
1,1-DICHLOROETHENE	ug/l	.5 U	.5 U	2.5 U	1 U	.5 U
cis-1,2-DICHLOROETHENE	ug/l	.5 U	1 U	2.5 U	1 U	.5 U
trans-1,2-DICHLOROETHENE	ug/l	.5 U	1 U	2.5 U	1 U	.5 U
1,2-DICHLOROPROPANE	ug/l	.5 U	.5 U	2.5 U	1 U	.5 U
1,3-DICHLOROPROPANE	ug/l	.5 U	.5 U	2.5 U	1 U	.5 U
2,2-DICHLOROPROPANE	ug/l	.5 U	.5 U	2.5 U	1 U	.5 U
1,1-DICHLOROPROPENE	ug/l			2.5 U	1 U	.5 U
cis-1,3-DICHLOROPROPENE	ug/l	.5 U	.5 U	2.5 U	1 U	.5 U
trans-1,3-DICHLOROPROPENE	ug/l	.5 U	1 U	2.5 U	1 U	.5 U
ETHYLBENZENE	ug/l	.5 U	.5 U	2.5 U	38.3 =	.5 U
HEXACHLOROBUTADIENE	ug/l	.5 U	.5 U	2.5 U	1 U	.5 U
ISOPROPYLBENZENE (CUMENE)	ug/l	.5 U	.5 U	2.5 U	15.8 =	.5 U
p-ISOPROPYLTOLUENE	ug/l	.5 U	.5 U	2.5 U	1.6 =	.5 U
METHYLENE CHLORIDE	ug/l	1 U	.5 U	.5 U	2 U	1 U
NAPHTHALENE	ug/l	1 U	.5 U	.5 U	12.6 =	1 U
n-PROPYLBENZENE	ug/l	.5 U	.5 U	2.5 U	1 U	.5 U
STYRENE	ug/l	.5 U	.5 U	2.5 U	1 U	.5 U
1,1,1,2-TETRACHLOROETHANE	ug/l	.5 U	.5 U	2.5 U	1 U	.5 U
1,1,1,2-TETRACHLOROETHANE	ug/l	.5 U	.5 U	2.5 U	1 U	.5 U
TETRACHLOROETHYLENE(PCE)	ug/l	.5 U	.5 U	2.5 U	1 U	.5 U
TOLUENE	ug/l	.5 U	.5 U	2.5 U	1 U	.5 U
1,2,3-TRICHLOROETHANE	ug/l	.5 U	.5 U	2.5 U	1 U	.5 U
1,2,4-TRICHLOROETHANE	ug/l	.5 U	.5 U	2.5 U	1 U	.5 U
1,1,1-TRICHLOROETHANE	ug/l	.5 U	.5 U	2.5 U	1 U	.5 U
1,1,2-TRICHLOROETHANE	ug/l	.5 U	.5 U	2.5 U	1 U	.5 U
TRICHLOROETHYLENE (TCE)	ug/l	.5 U	.5 U	2.5 U	1 U	.5 U
TRICHLOROFLUOROMETHANE	ug/l	.5 U	.5 U	2.5 U	1 U	.5 U
1,2,3-TRICHLOROPROPANE	ug/l	1 U	.5 U	.5 U	2 U	1 U
1,2,4-TRIMETHYLBENZENE	ug/l	.5 U	.5 U	2.5 U	1.1 =	.5 U
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	ug/l	.5 U	.5 U	2.5 U	1 U	.5 U

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 8
Groundwater Analytical Results
Mandalay Generating Station
Edison Phase II ESA

		South Fuel Storage	West Fuel Storage	Adjacent Petroleum	Adjacent Petroleum	Adjacent Petroleum
Facility Location:		Tank	Tank	Facility	Facility	Facility
Boring Number:		MBH01	MBH53	MBH59	MBH60	MBH61
Sample Depth:		9.15 ft.	9.7 ft.	8.1 ft.	8 ft.	8.5 ft.
Sample ID:		MBH01BW0104	MBH53BW0105	MBH59BW0201	MBH60BW0201	MBH61BW0201
Collection Date:		11/04/96	11/04/96	01/29/97	01/29/97	01/29/97
Analyte	Units					
VINYL CHLORIDE	ug/l	.5 U	.5 U	2.5 U	1 U	.5 U
O-XYLENE (1,2-DIMETHYLBENZENE)	ug/l	.5 U	.5 U	2.5 U	1 U	.5 U
M-XYLENE (1,3-DIMETHYLBENZENE)	ug/l	1 U	.5 U	5 U	2 U	1 U
1,2-DICHLOROPROPYLENE	ug/l	.5 U	.5 U			
DICHLOROFLUOROMETHANE	ug/l			2.5 U	1 U	.5 U
PETROLEUM HYDROCARBONS						
TPH (C10 to C24)	mg/l	.5 U	.5 U			
TPH (C25 to C40)	mg/l	.5 U	.5 U			
METALS						
ANTIMONY	mg/l					
ARSENIC	mg/l					
BARIUM	mg/l					
BERYLLIUM	mg/l					
CADMIUM	mg/l					
CHROMIUM, TOTAL	mg/l					
COBALT	mg/l					
COPPER	mg/l					
LEAD	mg/l					
MERCURY	mg/l					
MOLYBDENUM	mg/l					
NICKEL	mg/l					
SELENIUM	mg/l					
SILVER	mg/l					
THALLIUM	mg/l					
VANADIUM	mg/l					
ZINC	mg/l					

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 8
Groundwater Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Facility Location:		South Fuel Storage				
Boring Number:		Tank	Dredge Spoils Area	Dredge Spoils Area	Dredge Spoils Area	Dredge Spoils Area
Sample Depth:		MBH01	MBH62	MBH63	MBH64	MBH65
		9.15 ft.	0 ft.	10.3 ft.	8.8 ft.	0 ft.
Sample ID:		MBH01BW0104	MBH62BW0201	MBH63BW0201	MBH64BW0201	MBH65BW0201
Collection Date:		11/04/96	01/30/97	01/30/97	01/30/97	01/30/97
Analyte	Units					
VOC						
BENZENE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
BROMOBENZENE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
BROMOCHLOROMETHANE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
BROMODICHLOROMETHANE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
BROMOFORM	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
BROMOMETHANE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
n-BUTYLBENZENE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
SEC-BUTYLBENZENE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
tert-BUTYLBENZENE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
CARBON TETRACHLORIDE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
CHLOROBENZENE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
CHLOROETHANE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
CHLOROFORM	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
CHLOROMETHANE	ug/l	.5 U	.5 U	.5 U	.6 =	.5 U
2-CHLOROTOLUENE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
4-CHLOROTOLUENE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
DIBROMOCHLOROMETHANE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
1,2-DIBROMOETHANE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
DIBROMOMETHANE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
1,2-DICHLOROETHANE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
1,3-DICHLOROETHANE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
1,4-DICHLOROETHANE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
DICHLORODIFLUOROMETHANE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
1,1-DICHLOROETHANE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
1,2-DICHLOROETHANE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
1,1-DICHLOROETHENE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
cis-1,2-DICHLOROETHENE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
trans-1,2-DICHLOROETHENE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
1,2-DICHLOROPROPANE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
1,3-DICHLOROPROPANE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
2,2-DICHLOROPROPANE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
1,1-DICHLOROPROPENE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
cis-1,3-DICHLOROPROPENE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
trans-1,3-DICHLOROPROPENE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
ETHYLBENZENE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
HEXACHLOROBUTADIENE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
ISOPROPYLBENZENE (CUMENE)	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
p-ISOPROPYLTOLUENE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
METHYLENE CHLORIDE	ug/l	1 U	1 U	1 U	1 U	1 U
NAPHTHALENE	ug/l	1 U	1 U	1 U	1 U	1 U
n-PROPYLBENZENE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
STYRENE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
1,1,1,2-TETRACHLOROETHANE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
1,1,1,2-TETRACHLOROETHANE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
TETRACHLOROETHYLENE(PCE)	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
TOLUENE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
1,2,3-TRICHLOROBENZENE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
1,2,4-TRICHLOROBENZENE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
1,1,1-TRICHLOROETHANE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
1,1,2-TRICHLOROETHANE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
TRICHLOROETHYLENE (TCE)	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
TRICHLOROFLUOROMETHANE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
1,2,3-TRICHLOROPROPANE	ug/l	1 U	1 U	1 U	1 U	1 U
1,2,4-TRIMETHYLBENZENE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 8
Groundwater Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Facility Location:		South Fuel Storage				
Boring Number:		Tank	Dredge Spoils Area	Dredge Spoils Area	Dredge Spoils Area	Dredge Spoils Area
Sample Depth:		MBH01	MBH62	MBH63	MBH64	MBH65
Sample ID:		9.15 ft.	0 ft.	10.3 ft.	8.8 ft.	0 ft.
Collection Date:		MBH01BW0104	MBH62BW0201	MBH63BW0201	MBH64BW0201	MBH65BW0201
		11/04/96	01/30/97	01/30/97	01/30/97	01/30/97
Analyte	Units					
VINYL CHLORIDE	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
O-XYLENE (1,2-DIMETHYLBENZENE)	ug/l	.5 U	.5 U	.5 U	.5 U	.5 U
M-XYLENE (1,3-DIMETHYLBENZENE)	ug/l	1 U	1 U	1 U	1 U	1 U
1,2-DICHLOROPROPYLENE	ug/l	.5 U				
DICHLOROFLUOROMETHANE	ug/l		.5 U	.5 U	.5 U	.5 U
PETROLEUM HYDROCARBONS						
TPH (C10 to C24)	mg/l	.5 U				
TPH (C25 to C40)	mg/l	.5 U				
METALS						
ANTIMONY	mg/l		.5 U	.5 U	.5 U	.5 U
ARSENIC	mg/l		.01 U	.01 U	.01 U	.01 U
BARIUM	mg/l		.24 =	.12 =	.2 =	.26 =
BERYLLIUM	mg/l		.1 U	.1 U	.1 U	.1 U
CADMIUM	mg/l		.05 U	.05 U	.006 =	.05 U
CHROMIUM, TOTAL	mg/l		.01 =	.05 U	.05 U	.05 U
COBALT	mg/l		.05 U	.05 U	.05 U	.05 U
COPPER	mg/l		.05 U	.06 =	.05 U	.05 U
LEAD	mg/l		.07 =	.02 =	.03 =	.02 U
MERCURY	mg/l		.003 =	.01 =	.006 =	.001 U
MOLYBDENUM	mg/l		.1 U	.1 U	.1 U	.1 U
NICKEL	mg/l		.05 U	.05 U	.05 U	.05 U
SELENIUM	mg/l		.005 U	.005 U	.005 U	.005 U
SILVER	mg/l		.09 =	.07 =	.27 =	.19 =
THALLIUM	mg/l		.01 U	1 =	1.1 =	.01 U
VANADIUM	mg/l		.5 U	.5 U	.35 =	.5 U
ZINC	mg/l		.05 U	.05 U	.05 U	.05 U

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 8
Groundwater Analytical Results
Mandalay Generating Station
Edison Phase II ESA

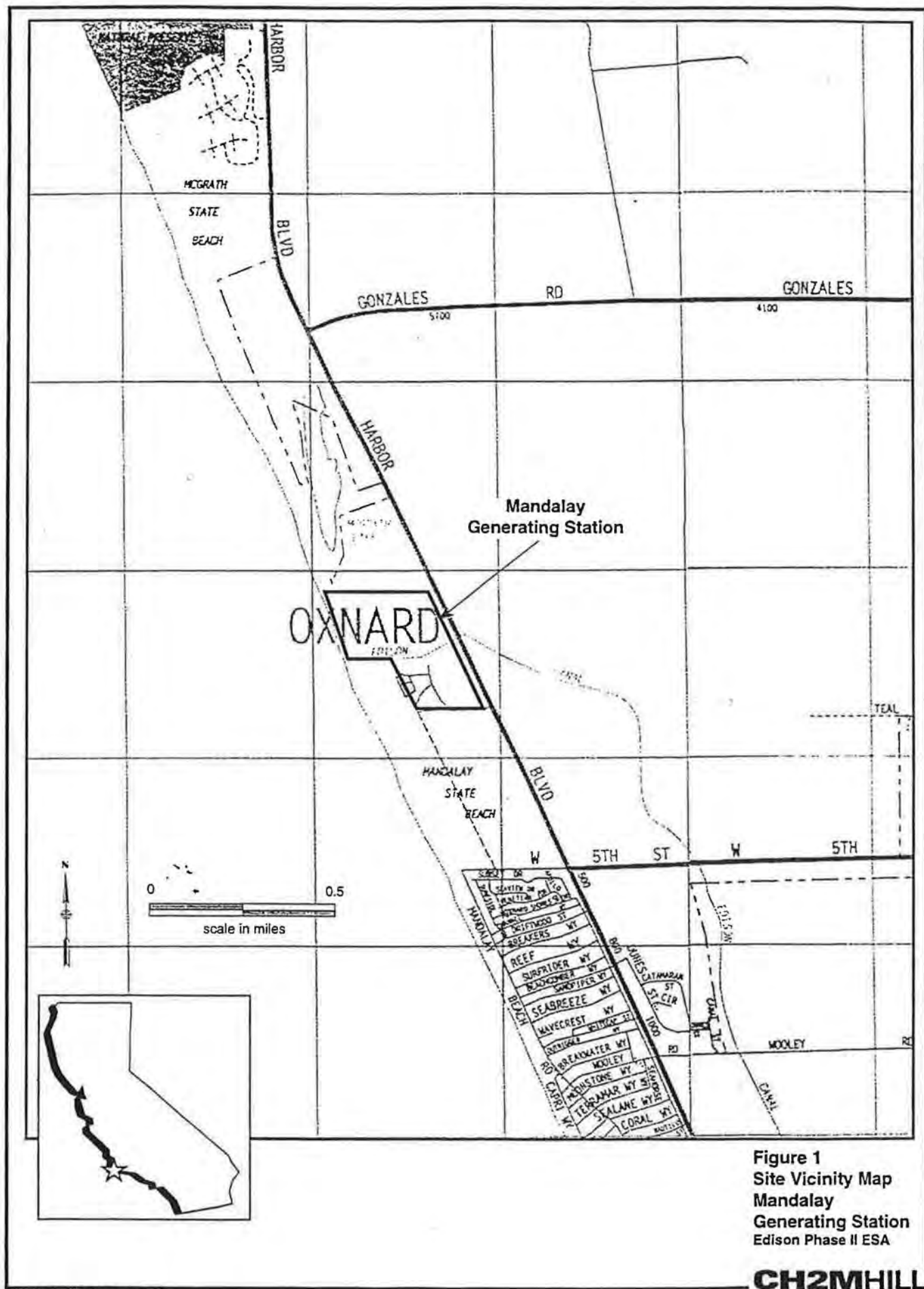
Facility Location:		South Fuel Storage		Former Drum Storage Area
Boring Number:		Tank MBH01	Dredge Spoils Area MBH65	MBH66
Sample Depth:		9.15 ft.	0 ft.	0 ft.
Sample ID:		MBH01BW0104	MBH65BW0221	MBH66BW0401
Collection Date:		11/04/96	01/30/97	05/21/97
Analyte	Units			
VOC				
BENZENE	ug/l	.5 U	.5 U	.5 U
BROMOBENZENE	ug/l	.5 U	.5 U	.5 U
BROMOCHLOROMETHANE	ug/l	.5 U	.5 U	.5 U
BROMODICHLOROMETHANE	ug/l	.5 U	.5 U	.5 U
BROMOFORM	ug/l	.5 U	.5 U	.5 U
BROMOMETHANE	ug/l	.5 U	.5 U	.5 U
n-BUTYLBENZENE	ug/l	.5 U	.5 U	.5 U
SEC-BUTYLBENZENE	ug/l	.5 U	.5 U	.5 U
tert-BUTYLBENZENE	ug/l	.5 U	.5 U	.5 U
CARBON TETRACHLORIDE	ug/l	.5 U	.5 U	.5 U
CHLOROBENZENE	ug/l	.5 U	.5 U	.5 U
CHLOROETHANE	ug/l	.5 U	.5 U	.5 U
CHLOROFORM	ug/l	.5 U	.5 U	.5 U
CHLOROMETHANE	ug/l	.5 U	.9 =	.5 U
2-CHLOROTOLUENE	ug/l	.5 U	.5 U	.5 U
4-CHLOROTOLUENE	ug/l	.5 U	.5 U	.5 U
DIBROMOCHLOROMETHANE	ug/l	.5 U	.5 U	.5 U
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	.5 U	.5 U	.5 U
1,2-DIBROMOETHANE	ug/l	.5 U	.5 U	.5 U
DIBROMOMETHANE	ug/l	.5 U	.5 U	.5 U
1,2-DICHLOROBENZENE	ug/l	.5 U	.5 U	.5 U
1,3-DICHLOROBENZENE	ug/l	.5 U	.5 U	.5 U
1,4-DICHLOROBENZENE	ug/l	.5 U	.5 U	.5 U
DICHLORODIFLUOROMETHANE	ug/l	.5 U	.5 U	.5 U
1,1-DICHLOROETHANE	ug/l	.5 U	.5 U	.5 U
1,2-DICHLOROETHANE	ug/l	.5 U	.5 U	.5 U
1,1-DICHLOROETHENE	ug/l	.5 U	.5 U	.5 U
cis-1,2-DICHLOROETHENE	ug/l	.5 U	.5 U	.5 U
trans-1,2-DICHLOROETHENE	ug/l	.5 U	.5 U	.5 U
1,2-DICHLOROPROPANE	ug/l	.5 U	.5 U	.5 U
1,3-DICHLOROPROPANE	ug/l	.5 U	.5 U	.5 U
2,2-DICHLOROPROPANE	ug/l	.5 U	.5 U	.5 U
1,1-DICHLOROPROPENE	ug/l	.5 U	.5 U	.5 U
cis-1,3-DICHLOROPROPENE	ug/l	.5 U	.5 U	.5 U
trans-1,3-DICHLOROPROPENE	ug/l	.5 U	.5 U	.5 U
ETHYLBENZENE	ug/l	.5 U	.5 U	.5 U
HEXACHLOROBUTADIENE	ug/l	.5 U	.5 U	.5 U
ISOPROPYLBENZENE (CUMENE)	ug/l	.5 U	.5 U	.5 U
p-ISOPROPYLTOLUENE	ug/l	.5 U	.5 U	.5 U
METHYLENE CHLORIDE	ug/l	1 U	1 U	1 U
NAPHTHALENE	ug/l	1 U	1 U	1 U
n-PROPYLBENZENE	ug/l	.5 U	.5 U	.5 U
STYRENE	ug/l	.5 U	.5 U	.5 U
1,1,1,2-TETRACHLOROETHANE	ug/l	.5 U	.5 U	.5 U
1,1,2,2-TETRACHLOROETHANE	ug/l	.5 U	.5 U	.5 U
TETRACHLOROETHYLENE (PCE)	ug/l	.5 U	.5 U	.5 U
TOLUENE	ug/l	.5 U	.5 U	.5 U
1,2,3-TRICHLOROBENZENE	ug/l	.5 U	.5 U	2.1 =
1,2,4-TRICHLOROBENZENE	ug/l	.5 U	.5 U	.5 U
1,1,1-TRICHLOROETHANE	ug/l	.5 U	.5 U	.5 U
1,1,2-TRICHLOROETHANE	ug/l	.5 U	.5 U	.5 U
TRICHLOROETHYLENE (TCE)	ug/l	.5 U	.5 U	.5 U
TRICHLOROFLUOROMETHANE	ug/l	.5 U	.5 U	.5 U
1,2,3-TRICHLOROPROPANE	ug/l	1 U	1 U	1 U
1,2,4-TRIMETHYLBENZENE	ug/l	.5 U	.5 U	.5 U
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	ug/l	.5 U	.5 U	.5 U

Note:
NA - Not Analyzed
U - Undetected
= - Detected

Table 8
Groundwater Analytical Results
Mandalay Generating Station
Edison Phase II ESA

Facility Location:		South Fuel Storage		Former Drum
Boring Number:		Tank	Dredge Spoils Area	Storage Area
Sample Depth:		MBH01	MBH65	MBH66
Sample ID:		9.15 ft.	0 ft.	0 ft.
Collection Date:		MBH01BW0104	MBH65BW0221	MBH66BW0401
		11/04/96	01/30/97	05/21/97
Analyte	Units			
VINYL CHLORIDE	ug/l	.5 U	.5 U	.5 U
O-XYLENE (1,2-DIMETHYLBENZENE)	ug/l	.5 U	.5 U	.5 U
M-XYLENE (1,3-DIMETHYLBENZENE)	ug/l	1 U	1 U	1 U
1,2-DICHLOROPROPYLENE	ug/l	.5 U		
DICHLOROFLUOROMETHANE	ug/l		.5 U	
PETROLEUM HYDROCARBONS				
TPH (C10 to C24)	mg/l	.5 U		
TPH (C25 to C40)	mg/l	.5 U		
METALS				
ANTIMONY	mg/l		.5 U	.5 U
ARSENIC	mg/l		.01 U	.01 U
BARIUM	mg/l		.25 =	5.8 =
BERYLLIUM	mg/l		.01 =	.01 U
CADMIUM	mg/l		.014 =	.005 U
CHROMIUM, TOTAL	mg/l		.02 =	.71 =
COBALT	mg/l		.05 U	.18 =
COPPER	mg/l		.05 U	.43 =
LEAD	mg/l		.05 U	.313 =
MERCURY	mg/l		.001 U	.002 =
MOLYBDENUM	mg/l		.1 U	.1 U
NICKEL	mg/l		.05 U	.48 =
SELENIUM	mg/l		.005 U	.01 U
SILVER	mg/l		.1 =	.18 =
THALLIUM	mg/l		.01 U	1.2 =
VANADIUM	mg/l		.5 U	.53 =
ZINC	mg/l		.05 U	1.4 =

Note:
NA - Not Analyzed
U - Undetected
= - Detected





SOIL BORING LOG

PROJECT MGS Phase II ESA LOCATION Mandalay Generating Station
ELEVATION _____ DRILLING CONTRACTOR Gress Drilling
DRILLING METHOD AND EQUIPMENT Direct Push 2' x 1" core sampler
WATER LEVELS 9.15' bgs START 11/4/96 FINISH 11/4/96 LOGGER T. Mosko

DEPTH BELOW SURFACE (FT)	SAMPLE			STANDARD PENETRATION TEST RESULTS	SOIL DESCRIPTION	COMMENTS
	INTERVAL	NUMBER AND TYPE	RECOVERY (FT)			
				6"-6'-6" (N)	SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
0		15-1			(0-3) Sandy, well graded gravel (GW)	
	0-2		1.7'		(3-8') Poorly sorted sand (SP), mostly fine sand, 20% med. sand, brownish grey, moist, < 5% brown silt.	Borehole 13.3 ppm, 0% LEL
					(2-4) same as above	Sieve 82 ppm
2.5						
	2-4		1.75'			
					(4-6) same as above	Borehole 262 ppm, 0% LEL
						Sieve 148 ppm
5.0						
	4-6	5-5.4	1.4'			Borehole 32 ppm, 0% LEL
					(6-8) same as above	Sieve 7 ppm
		6-6.2				
	6-8		1.7'			
7.5					(8-10') Poorly sorted sand (SP), brownish grey, wet @ 8.6', mostly fine sand, 20% med. sand	Borehole 21 ppm, 0% LEL
						Sieve 727 ppm
	8-10		1.5'			
10.0					- TD 10.0' Piez. set @ 11.0' bgs	Borehole 4 ppm, 0% LEL
						Sieve 498 ppm
						Sieve = headspace



PROJECT NUMBER MBH02	BORING NUMBER MBH02	SHEET	OF
SOIL BORING LOG			

PROJECT MGS Phase II ESA LOCATION Mandalay Generating Station
ELEVATION _____ DRILLING CONTRACTOR Gregs Drilling
DRILLING METHOD AND EQUIPMENT Direct Push 2' x 1" core sampler
WATER LEVELS _____ START 11/4/96 FINISH 11/4/96 LOGGER T. Mosko

DEPTH BELOW SURFACE (FT)	SAMPLE			STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
	INTERVAL	NUMBER AND TYPE	RECOVERY (FT)			
0					(0-0.75) Sandy, well graded gravel fill (Gw)	
0.75	0-2	5-1.0	1.5'		(0.75-2.0) Poorly sorted sand (SP), brownish gray, moist, mostly fs, 20% ms, 45% brown silt	
2.5	2-4		1.75'		(2-4) Same as above	Borehole 0.6 ppm, 0% LEL Sieve HS 700 ppm
5.0	4-6	5-5.7	1.7'		(4-6) Same as above	Borehole 1.2 ppm, 0% LEL Sieve HS 606 ppm
7.5	6-8		1.4'		(6-8) Same as above	Borehole 0 ppm, 0% LEL Sieve HS 376 ppm
10.0	8-10		1.5'		(8-10) Same as above	Borehole 1.3 ppm, 0% LEL Sieve HS 550 ppm
					- TD 10.0' wet @ 10.0'	Sieve HS 592 ppm



PROJECT NUMBER

MBH03

BORING NUMBER

MBH03

SHEET

OF

SOIL BORING LOG

PROJECT MGS Phase II ESALOCATION Mandak Generating Station

ELEVATION _____

DRILLING CONTRACTOR Gregs DrillingDRILLING METHOD AND EQUIPMENT Hand AugerWATER LEVELS 6.05' bgsSTART 11/4/96FINISH 11/4/96LOGGER T. Masko

DEPTH BELOW SURFACE (FT)	SAMPLE			STANDARD PENETRATION TEST RESULTS	SOIL DESCRIPTION	COMMENTS
	INTERVAL	NUMBER AND TYPE	RECOVERY (FT)			
0				5'-5'-5" (N)	0-2.5 Poorly sorted sand (SP), brown grey, moist, mostly fs, 30% ms, <5% brown silt	Bore hole 0 ppm, 0% LEL
2.5		5.5-1				
5.0		5.5-8			(5.8-6.5) Poorly sorted sand (SP), same as above but soil is dark stained with petroleum. Petrol odor. Wet @ 6.0'. Hole caves below 6.5'.	Bore hole 3.0 ppm, 0% LEL Baggie HS 0 ppm
7.5					TD 6.5' Piez. set @ 7.0' bgs	Bore hole 0 ppm, 0% LEL 3.3 ppm Baggie
10.0						



PROJECT NUMBER

MBH04

BORING NUMBER

MBH04

SHEET

OF

SOIL BORING LOG

PROJECT MGS Phase II ESA LOCATION Mandalay Generating Station
ELEVATION _____ DRILLING CONTRACTOR Gress Drilling
DRILLING METHOD AND EQUIPMENT Direct Push 2' x 1" core sampler
WATER LEVELS _____ START 11/1/96 FINISH 11/1/96 LOGGER T. Moko

DEPTH BELOW SURFACE (FT)	SAMPLE			STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
	INTERVAL	NUMBER AND TYPE	RECOVERY (FT)			
0	0-2	5-1	1.70		(0-3) Oily soil. Looks like motor oil (3-6) Gravelly sand (Sw), oil stained, petrol smell (6-2.0) Poorly sorted sand (Sp), brownish grey, moist, some petrol odor	
2.5	2-4		1.70'		(2-4) same as above	Borehole 119 ppm, 0% LEL Sieve HS 43 ppm
5.0	4-6	5-1 5.4	1.6'		(4-6) same as above	Borehole 89 ppm, 0% LEL
7.5	6-8		1.75'		(6-8) same as above	Borehole 74 ppm, 0% LEL Sieve HS 11 ppm
					8' TD, wet @ 8.0'	Borehole 20 ppm
10.0						



PROJECT NUMBER

MBH05

BORING NUMBER

MBH05

SHEET

OF

SOIL BORING LOG

PROJECT MGS Phase II ESALOCATION Mandalay Generating Station

ELEVATION _____

DRILLING CONTRACTOR Gregg DrillingDRILLING METHOD AND EQUIPMENT Direct Push 2' x 1" core sampler

WATER LEVELS _____

START _____

FINISH _____

LOGGER T. Mosko

DEPTH BELOW SURFACE (FT)	SAMPLE			STANDARD PENETRATION TEST RESULTS 6"-6" (N)	SOIL DESCRIPTION	COMMENTS
	INTERVAL	NUMBER AND TYPE	RECOVERY (FT)		SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
0	0-2	5-9 97.2	1.25'		(0-2') Poorly sorted sand (SP), brownish gray, moist, mostly fs, some ms, <5% brown silt	
2.5	2-4		1.3'		(2-4) Same as above	Bore hole 0 ppm, 0% LFL Sieve HS 0 ppm
5.0	4-6	56 5.9	1.7'		(4-6') Poorly sorted sand (SP), same as above but coarser at 5.3' to a SW. A 1/2" thick band of darkened soil was at water table. Wet @ 5.25' bgs	Bore hole 0 ppm, 0% LFL Sieve 94 ppm
7.5					TD - 6.0'	Bore hole 0 ppm, 0% LFL Sieve HS 0 ppm
10.0						



PROJECT NUMBER

MBH06

BORING NUMBER

MBH06

SHEET

OF

SOIL BORING LOG

PROJECT MGS Phase II ESA LOCATION Mandalay Generating Station
ELEVATION _____ DRILLING CONTRACTOR Gress Drilling
DRILLING METHOD AND EQUIPMENT Direct Push 2' x 1" core sampler
WATER LEVELS _____ START 11/1/96 FINISH 11/1/96 LOGGER T. Moko

DEPTH BELOW SURFACE (FT)	SAMPLE			STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
	INTERVAL	NUMBER AND TYPE	RECOVERY (FT)			
0					(0-1.5) Sandy gravel fill (Gw) dry	
	0-2	5-1	1.6'		(1.5-2') Poorly graded sand (SP), brownish grey, moist, mostly fs, little fs, soft	
					(2-4) same as above	Borehole 0 ppm
2.5	2-4		1.75'			
					(4-6') Poorly sorted sand (SP), brownish grey, moist, same as above but ms increases to 20% by 6'	Borehole 8 ppm, 0% LEL Sieve 11 ppm
5.0	4-6	5-5.4	1.7'			
					(6-7.7) same as above	Borehole 4 ppm, 0% LEL Sieve 0 ppm
7.5	6-8		1.7'			
					(7.7-8') Well graded sand (SW), wet @ 8.0' bgs	Borehole 0 ppm
					TD 8.0'	
10.0						

PROJECT NUMBER
MBH07BORING NUMBER
MBH07

SHEET

OF

SOIL BORING LOG

PROJECT MGS Phase II ESALOCATION Mandalay Generating Station

ELEVATION _____

DRILLING CONTRACTOR Gress DrillingDRILLING METHOD AND EQUIPMENT Direct Push 4'x1.5" core sampler

WATER LEVELS _____

START 10/29/96 FINISH 10/29/96LOGGER T. Moko

DEPTH BELOW SURFACE (FT)	SAMPLE			STANDARD PENETRATION TEST RESULTS 6"-6'-6" (N)	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
	INTERVAL	NUMBER AND TYPE	RECOVERY (FT)			
0					(0-2.5) Poorly graded sand (SP), brownish grey, moist, 5% fine gravel	Raining - cannot use PID
2.5	0-4'		2.8'		(2.5-4.0) Poorly graded sand (SP), brownish grey, moist, <5% brown silt, mostly fs	
5.0		5-5.4 5.4-5.8	3.1'		(4-8) Same as above	
7.5					(8-12) Poorly graded sand (SP), Same as above but almost wet @ 8.0'. 1% fine and rounded gravel, WTX 10.0'	
10.0	8-12	10.0-10.4	Core Destroyed			
12.0					TD-12'	



PROJECT NUMBER

MBH08

BORING NUMBER

MBH08

SHEET

OF

SOIL BORING LOG

PROJECT MGS Phase II ESALOCATION Mandalay Generating Station

ELEVATION _____

DRILLING CONTRACTOR Gress DrillingDRILLING METHOD AND EQUIPMENT Direct Push 2' x 1" core sampler

WATER LEVELS _____

START 11/1/96FINISH 11/1/96LOGGER T. Moko

DEPTH BELOW SURFACE (FT)	SAMPLE			STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
	INTERVAL	NUMBER AND TYPE	RECOVERY (FT)			
0	0-2		1.15		(0-2) Silty sand (SM) dark brown, moist, sand is fs, 10% f. gravel (2-2) Poorly graded sand (SP), mostly fs, 10% ms, <5% silt, greyish brown, moist	
2.5	2-4		1.8		(2-4) Same as above	Borehole 0ppm, 0% LEL Sieve HS 3ppm
5.0	4-6	5.4	1.7		(4-5.5) Same as above	Bore hole 0.4 ppm, 0% LEL Sieve 4.7 ppm
7.5	6-8		1.7		(5.5-6.0) Well graded sand (SW) clean, moist (6-8) Poorly graded sand (SP), greyish brown, moist, wet @ 7.0'	Borehole 1.1 ppm, 0% LEL Sieve 1.4 ppm
10.0					-TD 8' piez. set @ 9.0' bgs	Bore hole 0.4 ppm, 0% LEL Sieve HS 4.6 ppm



PROJECT NUMBER

MBH09

BORING NUMBER

MBH09

SHEET

OF

SOIL BORING LOG

PROJECT MGS Phase II ESA LOCATION Mandalay Generating Station
ELEVATION _____ DRILLING CONTRACTOR Gregg Drilling
DRILLING METHOD AND EQUIPMENT Direct Push 2' x 1" core sampler
WATER LEVELS 10.3' START 11/4/96 FINISH 11/4/96 LOGGER T. Mosko

DEPTH BELOW SURFACE (FT)	SAMPLE			STANDARD PENETRATION TEST RESULTS 6"-5"-5" (N)	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
	INTERVAL	NUMBER AND TYPE	RECOVERY (FT)			
0	0-2	5-1	1.7'		(0-1.5) Silty sand (SM), dark brown, moist, 5% f.g.r., sand is FS (SP) (1.5-2) Silty sand (SM), light brown, moist, 5% f.g.r., 30% brown silt	Sieve HS 448 ppm
2.5	2-4		1.75'		(2-4) Silty sand (SM) same as above but silt decreases to <15%	Borehole 14.1 ppm, 0% LEL Sieve HS 492 ppm
5.0	4-6		1.7'		(4-6) Poorly graded sand (SP), brownish grey, mostly fs, 10-20% ms	Borehole 23.2 ppm, 0% LEL Sieve HS 178 ppm
		5.5 6				
	6-8		1.75'		(6-8) same as above	Borehole 225 ppm, 0% LEL Sieve HS 745 ppm
7.5						
	8-10		1.7'		(8-10) (SP) same as above but wet @ 8.4' bgs	Borehole 227 ppm, 10% LEL Sieve HS 610 ppm
10.0					TD - 10'	Sieve HS 296 ppm



PROJECT NUMBER

MBH10

BORING NUMBER

MBH10

SHEET

OF

SOIL BORING LOG

PROJECT MGS Phase II ESALOCATION Mandaky Generating Station

ELEVATION _____

DRILLING CONTRACTOR Gregs DrillingDRILLING METHOD AND EQUIPMENT Hand Auger

WATER LEVELS _____

START 11/4/96FINISH 11/4/96LOGGER T. Mosko

DEPTH BELOW SURFACE (FT)	SAMPLE			STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
	INTERVAL	NUMBER AND TYPE	RECOVERY (FT)			
0		5-9			(0-1.0) Silty sand (SM), very dark, brown, almost wet, sand is fs, 30% silt (1-5.5) Poorly sorted sand (SP) brownish grey, moist, mostly fs, 10-20% ms	Steep Oppm Baggie HS
2.5						Baggie HS Oppm Borehole 1.3 ppm, 0% LEL
5.0		5-5.5			TD 5.5'	Bag HS oppm Borehole Oppm
7.5						
10.0						



PROJECT NUMBER

MBH11

BORING NUMBER

MBH11

SHEET

OF

SOIL BORING LOG

PROJECT MGS Phase II ESALOCATION Mandala Generating Station

ELEVATION _____

DRILLING CONTRACTOR Gress DrillingDRILLING METHOD AND EQUIPMENT Direct Push 2' x 1" core sampler

WATER LEVELS _____

START 10/31/96FINISH 10/31/96LOGGER T. Moko

DEPTH BELOW SURFACE (FT)	SAMPLE			STANDARD PENETRATION TEST RESULTS 6"-6'-6" (N)	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
	INTERVAL	NUMBER AND TYPE	RECOVERY (FT)			
0		0.5-1			(0-0.25) Asphalt	
	0-2	1-1.5	1.5'		(.25-.4) clay (C) red brn, moist	
					(.4-2.0) Poorly sorted sand (SP), brownish grey, moist, mostly fs, 5% silt, <5% clay, 20% ms, a band of dark (stained?) soil from 2.1 - 2.2' bgs	Borehole 1.9ppm, 0% LEL
2.5					(2-4) same as above	
	2-4		1.7'			Borehole 1.8ppm, 0% LEL
						Sieve 2.1ppm
5.0	4-6	4.5-5.0	1.7'		(4-6) Poorly sorted sand (SP), mostly fs, 20% ms, 5% silt, no clay, moist, wet @ 7.0'	Borehole 5.1ppm, 0% LEL
					(6-8) same as above	
7.5	6-8		1.7'			Borehole 0ppm
					TD-8'	
10.0						



PROJECT NUMBER

MBH12

BORING NUMBER

MBH12

SHEET

OF

SOIL BORING LOG

PROJECT MGS Phase II ESA LOCATION Mandalay Generating Station
ELEVATION _____ DRILLING CONTRACTOR Gress Drilling
DRILLING METHOD AND EQUIPMENT Direct Push 2' x 1" core sampler
WATER LEVELS 7.34 START 10/31/96 FINISH 10/31/96 LOGGER T. Moyle

DEPTH BELOW SURFACE (FT)	SAMPLE			STANDARD PENETRATION TEST RESULTS	SOIL DESCRIPTION	COMMENTS
	INTERVAL	NUMBER AND TYPE	RECOVERY (FT)			
0				6"-6" (N)		
0-2	0.5-1	1.6			(0-.25) Asphalt (0.25-.75) Sandy silt (m), brown, moist, 20% (sw) (.75-2.0) Poorly sorted sand (SP), brownish grey, moist, 5% silt, <5% f. gravel, very soft, poor recovery due to soil & compacting in tube + pushing soil out of way (2-4) same as above	Borehole 4.5 ppm 0% LEL
2.5	2-4	1.1				Borehole 6.0 ppm "
5.0	4-6	5.0-5.4 0.4	.75		(4-6) Poorly graded sand (SP), greyish brown, moist, ~60% fs, 35% ms, 5% silt	Borehole 4.5 ppm "
7.5	6-8	1.6			(6-8) Well graded sand (sw), brownish grey, wet @ 6', mostly fs, 30% ms, 5% cs, <5% f. to m. gravel -TD-8' Piez set @ 9'	Borehole 6.4 ppm " Borehole 4.5 ppm "
10.0						



PROJECT NUMBER	BORING NUMBER	SHEET	OF
	MBH13		
SOIL BORING LOG			

PROJECT MGS Phase II ESA LOCATION Mandala Generating Station
 ELEVATION _____ DRILLING CONTRACTOR Greegs Drilling
 DRILLING METHOD AND EQUIPMENT Direct Push 2' x 1" core sampler
 WATER LEVELS _____ START 11/4/96 FINISH 11/4/96 LOGGER T. Moko

DEPTH BELOW SURFACE (FT)	SAMPLE			STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
	INTERVAL	NUMBER AND TYPE	RECOVERY (FT)			
0	0-2	5-1	1.6'		(0-1.5) Asphalt (1.5-2.0) Sandy gravel (Gw) (2.0-2.4) Poorly graded sand (SP), mostly grey brown, moist, mostly fs,	Sieve HS 926 ppm
2.5	2-4		1.9'		(2-4) Same as above	Borehole 6.1 ppm, 0% LEL Sieve HS 126 ppm
5.0	4-6	4.5-5.0	1.9'		(4-6) Same as above	Borehole 39.3 ppm, 0% LEL Sieve HS 126 ppm
7.5	6-8		1.6'		(6-8) same as above	Borehole 146 ppm Sieve HS 955 ppm
10.0	8-10		1.6'		wet @ 9.1'	Borehole 131 ppm Sieve HS 435 ppm
						Sieve HS 935 ppm



PROJECT NUMBER

BORING NUMBER

MBH14

SHEET

OF

SOIL BORING LOG

PROJECT MGS Phase II ESA LOCATION Mandala Generating Station
ELEVATION _____ DRILLING CONTRACTOR Gress Drilling
DRILLING METHOD AND EQUIPMENT Direct Push 2' x 1" core sampler
WATER LEVELS 9.6 START 11/4/96 FINISH 11/4/96 LOGGER T. Moko

DEPTH BELOW SURFACE (FT)	SAMPLE			STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
	INTERVAL	NUMBER AND TYPE	RECOVERY (FT)			
0					(0-0.5) Gravelly sand fill (SP) moist	
0-2	0-2	5-1	1.75'		(0.5-2.0) Poorly sorted sand (SP), brownish grey, moist, mostly Fs, 20-40% ms	
2.5					(2-4) Same as above	Borehole 6.9 ppm 0% LEL Sieve HS 600 ppm
	2-4		1.75'			
					(4-6) same as above	Borehole 5.6 ppm "
5.0	4-6	5-5.5	1.8'			
					(6-8) same as above	Borehole 30.8 ppm " Sieve HS 498 ppm
	6-8		1.8'			
7.5					(8-10) same as above	Borehole 0 ppm " Sieve HS 0 ppm
	8-10		1.6'		- Wet @ 8.5' - 9.0'	
10.0					- TD 10' Piez set @ 11.5'	Borehole 35 ppm " Sieve HS 974 ppm



PROJECT NUMBER

BORING NUMBER

SHEET

OF

MBH15

SOIL BORING LOG

PROJECT MGS Phase II ESA LOCATION Mandala Generating Station
ELEVATION _____ DRILLING CONTRACTOR Gregg Drilling
DRILLING METHOD AND EQUIPMENT Direct Push 2' x 1" core sampler
WATER LEVELS _____ START 10/30/96 FINISH 10/30/96 LOGGER T. Mosko

DEPTH BELOW SURFACE (FT)	SAMPLE			STANDARD PENETRATION TEST RESULTS 6" x 6" (N)	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
	INTERVAL	NUMBER AND TYPE	RECOVERY (FT)			
0					(0-1.4) Asphalt (1.4-2) Poorly graded sand (SP) mostly fs, some ms, greyish brown, moist	Sieve HS 800 ppm
2.5	0-2		1.6'		(2-4) same as above	Borehole 24.6 ppm 0% LEL
	2-4		1.6'		(4-6) same as above	Borehole 0 ppm " Sieve HS 380+ ppm
5.0	4-6		1.7'		(6-8) same as above	Borehole 0 ppm " Sieve HS 360+ ppm
7.5	6-8		1.15'		wet @ 7.5'	Borehole 1.6 ppm " Sieve HS 400+ ppm
	8-10	8.2-8.9	1.4'		(8-10) SP same as above w/ band of dark stained soil at 8.5-8.6'	Sieve HS 37 ppm
10.0					10' TD	



PROJECT NUMBER

BORING NUMBER

MBH16

SHEET

OF

SOIL BORING LOG

PROJECT MGS Phase II ESA LOCATION Mandalay Generating Station
ELEVATION _____ DRILLING CONTRACTOR Gregs Drilling
DRILLING METHOD AND EQUIPMENT Direct Push 2' x 1" core sampler
WATER LEVELS 7.82' bgs START 10/30/96 FINISH 10/30/96 LOGGER T. Mosko

DEPTH BELOW SURFACE (FT)	SAMPLE			STANDARD PENETRATION TEST RESULTS 5"-5'-5" (N)	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
	INTERVAL	NUMBER AND TYPE	RECOVERY (FT)			
0	0-2		1.33'		(0-0.5) Asphalt (0.5-1.0) silty gravel w/ sand (Gm), mostly fine gravel (1.0-1.8) Poorly graded sand (SP), greyish brown, moist, soft, mostly fs (1.8-2.0) Clay (CL) red-brown sandy clay (2.0-4.0) Poorly graded sand, greyish brown, moist, soft. Two 1/2" thick dark bands of soil @ 2.15' and 2.6'.	Borehole 363ppm 0% LFL Sieve HS 302ppm
2.5	2-4		1.6'		(4-6) same as above Dark band of stained soil @ 4.0-4.15' Dark " " " " 4.25-4' " " " " " 4.75-5.0'	Borehole 30.8ppm " Sieve HS 112ppm
5.0	4-6		1.6'		(6-8) same as above	Borehole 13.8ppm " Sieve HS 224ppm
7.5	6-8		1.7'		wet @ 7.82' Dark stained soil @ 8.0' TD-8.0'	Sieve HS 16.2ppm
10.0						



PROJECT NUMBER

BORING NUMBER

MB417

SHEET

OF

SOIL BORING LOG

PROJECT MGS Phase II ESALOCATION Mandalay Generating Station

ELEVATION _____

DRILLING CONTRACTOR Gress DrillingDRILLING METHOD AND EQUIPMENT Direct Push 2' x 1" core samplerWATER LEVELS 7.7' bgsSTART 10/30/96FINISH 10/30/96LOGGER T. Mosko

DEPTH BELOW SURFACE (FT)	SAMPLE			STANDARD PENETRATION TEST RESULTS 6"-6'-6" (N)	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
	INTERVAL	NUMBER AND TYPE	RECOVERY (FT)			
0	0-2	5-1	1.75'		(0-1.25') Asphalt (1.25-1.5') Sandy clayey sand (SC), reddish brown, moist, 15% clay, sand (SW) (1.5-2.0') Poorly graded sand (SP), brownish gray, moist, mostly fs, some ms. Few pieces of med gravel	Borehole 6.8 ppm 0% LEL Sieve HS 8.6 ppm
2.5	2-4		1.75'		(2-4) same as above	
					(4-6) same as above	Borehole 9.2 ppm Sieve HS 8.8 ppm
5.0	4-6	5-5.4	1.5'			Borehole 5.2 ppm Sieve HS 16 ppm
7.5	6-8		1.7'		(6-8) Poorly graded sand (SP), same as above but 50% fs, 50% ms, no gravel wet @ 7.0'	
					TD 8' piez. set @ 9.2'	Borehole 4.0 ppm
10.0						



PROJECT NUMBER

BORING NUMBER

MBH18

SHEET

OF

SOIL BORING LOG

PROJECT MGS Phase II ESA LOCATION Mandalay Generating Station
ELEVATION _____ DRILLING CONTRACTOR Gress Drilling
DRILLING METHOD AND EQUIPMENT Direct Push 2' x 1" core sampler
WATER LEVELS _____ START 10/30/96 FINISH 10/30/96 LOGGER T. Moyle

DEPTH BELOW SURFACE (FT)	SAMPLE			STANDARD PENETRATION TEST RESULTS 5"-8"-6" (N)	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
	INTERVAL	NUMBER AND TYPE	RECOVERY (FT)			
0					(0-1.5) Asphalt	
	0-2	5-1	1.75'		(1.5-1.5) gravelly silt, reddish brown, moist, 10-20% sand, 25% gravel	
2.5					(1.5-2.0) Poorly sorted sand(SP), brownish grey, moist, mostly fs., some ms, soft	Borehole 4.0 ppm 0% LEL
	2-4		1.75'		(2-4) same as above	
5.0					(4-6) same as above	Borehole 4.0 ppm " Sleeve HS 4 ppm
	4-6	5-5.4	1.6'		(6-8) same as above	
7.5					- wet @ 7.0'	
	6-8		1.5'		TD - 8.0'	Borehole 1.5 ppm " Sleeve HS 1.5 ppm



PROJECT NUMBER

BORING NUMBER

SHEET

OF

MBH19

SOIL BORING LOG

PROJECT MGS Phase II ESALOCATION Mandalay Generating Station

ELEVATION _____

DRILLING CONTRACTOR Gress DrillingDRILLING METHOD AND EQUIPMENT Direct Push 2' x 1" core samplerWATER LEVELS 7.79' bgsSTART 10/30/96FINISH 10/30/96LOGGER T. Mosko

DEPTH BELOW SURFACE (FT)	SAMPLE			STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
	INTERVAL	NUMBER AND TYPE	RECOVERY (FT)			
0	0-2	5-1 1-1.5	1.8'		(0-1.5) Asphalt (1.5-2.0) silty gravel (Gm), brown, moist (2.0-2.5) Poorly graded sand (SP), brownish grey, moist, mostly fs, some ms, intermittent fine gravel up to 10%	Borehole 1.5 ppm
2.5	2-4		1.7'		(2-4) same as above	
					(4-6) same as above	Borehole 3 ppm Steve HS 0.7 ppm
5.0	4-6	5-5.4	1.8'		(6-8) same as above	Borehole 3.7 ppm Steve 0 ppm
7.5	6-8		1.8'			
10.0					- TO 8' piez set @ 10.0'	Borehole 8 ppm

**Sample Locations MSS20 through MSS27
are grab samples. Therefore, boring
logs do not exist for these locations.**



PROJECT NUMBER

BORING NUMBER

MBH28

SHEET

OF

SOIL BORING LOG

PROJECT MGS Phase II ESALOCATION Mandalay Generating Station

ELEVATION _____

DRILLING CONTRACTOR Gress DrillingDRILLING METHOD AND EQUIPMENT Direct Push 2' x 1" core sampler

WATER LEVELS _____

START 10/30/96 FINISH 10/30/96LOGGER T. Moko

DEPTH BELOW SURFACE (FT)	SAMPLE			STANDARD PENETRATION TEST RESULTS 6"-5'-6" (N)	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
	INTERVAL	NUMBER AND TYPE	RECOVERY (FT)			
0	0-2		1.5'		(0-2.5) Asphalt (2.5-4) Silty fine gravel (Gm), 25% silt, 20% sand, brown, moist (4-2.0) Poorly graded sand (SP), mostly brownish gray, moist, mostly fs, some ms, 5% brown silt, 45% f. gravel. Poor recovery due to soft sand compacting in tube and pushing away underlying sands	
2.5	2-4		0.8		(2-4) Same as above (4-6) same as above	Borehole Oppm 0% LEL
5.0	4-6		0.8		(6-8) same as above	Borehole Oppm 11
7.5	6-8		0.8		(8-9) SP same as above w/ some red brown mottling i.e. FeOx staining. Also dark brown mottles	Borehole 1 ppm 11 (Drive core 1" only to improve recovery) Borehole 16.8 ppm 11
10.0	8-9	8.5-9.0	0.9		(9-13) SP same as above 9.0-9.5' is dark stained	Borehole 16.8 ppm 11
12.5	9-11		1.75'			Borehole 16.8 ppm 11
	11-13		Core Destroyed			



PROJECT NUMBER	BORING NUMBER	SHEET	OF
	M13 H 29		
SOIL BORING LOG			

PROJECT MGS Phase II ESA LOCATION Mandalay Generating Station
 ELEVATION _____ DRILLING CONTRACTOR Gress Drilling
 DRILLING METHOD AND EQUIPMENT Direct Push 2' x 1" core sampler
 WATER LEVELS 10.78' bgs START 10/30/96 FINISH 10/30/96 LOGGER T. Mosko

DEPTH BELOW SURFACE (FT)	SAMPLE			STANDARD PENETRATION TEST RESULTS	SOIL DESCRIPTION	COMMENTS
	INTERVAL	NUMBER AND TYPE	RECOVERY (FT)			
0				6"-6"-6" (N)	0-2.5) Asphalt (0.25-.7) silty fine gravel, 25% silt, gravel pieces - rnd. (0.7-2.0) Poorly graded sand (SP), brownish grey, moist, mostly fs, some ms, 5% silt, 25% f. gravel	
0-2		5-1	1.6'		(2-4) Same as above	Borehole 20 ppm Sieve 300+ ppm 0% LEL
2.5						
2-4			1.7'		(4-6) same as above 1/2" band of tan brn silt @ 4.3'	Borehole 60 ppm Sieve 800+ ppm "
5.0						
4-6		5.5, 7	1.5'		(6-8) same as above	Borehole 40 ppm "
6-8			1.5'			
7.5						
8-10		8.6, 9.1	1.33'		(8-10) Same as above	Borehole 19.5 ppm Sieve HS 100+ ppm "
10.0						
10-12		10.8-11.3	1.5'		(10-12) Same as above Dark grey stained soil 3" thick @ 10.8'	Borehole 190 ppm Sieve HS 999+ ppm "
12.5						
12-14			1.7'		wet @ 12.0' (12-14) same as above	Borehole 0 ppm Sieve HS 100+ ppm
15.0					TD 14.0'	



PROJECT NUMBER	BORING NUMBER	SHEET	OF
	MBH30		
SOIL BORING LOG			

PROJECT MGS Phase II ESA LOCATION Mandalay Generating Station
 ELEVATION _____ DRILLING CONTRACTOR Gress Drilling
 DRILLING METHOD AND EQUIPMENT Direct Push 2' x 1" core sampler
 WATER LEVELS _____ START 10/31/96 FINISH 10/31/96 LOGGER T. Mosko

DEPTH BELOW SURFACE (FT)	SAMPLE			STANDARD PENETRATION TEST RESULTS	SOIL DESCRIPTION	COMMENTS
	INTERVAL	NUMBER AND TYPE	RECOVERY (FT)			
0				6"-6'-6" (N)	0-0.15' Asphalt 0.15-0.8' sandy gravel, gray-brn, moist, 30% sand, 10% silt 0.8-2.0' Poorly graded sand (SP), brownish gray, moist, mostly fs, some ms (70% fs, 25% ms) 5% silt (2-4) same as above - May be dark stained soil @ 2.6'	Borehole 1.6 ppm 0% LEL
2.5	0-2	5-1	1.9			
	2-4		2.0		(4-6) same as above	Borehole 18 ppm Sleeve 4.1 ppm "
5.0	4-6	5-5.4	1.85'		(6-8) same as above	Borehole 5.2 ppm Sleeve MS 1.7 ppm "
7.5	6-8		1.75'		TD - 8.0'	Borehole 1.7 ppm Sleeve MS 4.5 ppm "
10.0						



PROJECT NUMBER

BORING NUMBER

MBH31

SHEET

OF

SOIL BORING LOG

PROJECT MGS Phase II ESALOCATION Mandalay Generating Station

ELEVATION

DRILLING CONTRACTOR Gress Drilling

DRILLING METHOD AND EQUIPMENT

Direct Push 2' x 1" core samplerWATER LEVELS 9.12' bgsSTART 10/31/96FINISH 10/31/96LOGGER T. Moko

DEPTH BELOW SURFACE (FT)	SAMPLE			STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
	INTERVAL	NUMBER AND TYPE	RECOVERY (FT)			
0					(0-2) Asphalt (2-4) Sandy gravel (GW), brown, moist, 30% SW, 15% silt + clay (4-6) Poorly graded sand (SP), greyish brown, moist, mostly fs, some ms (6-8) same as above	Borehole 1.4 ppm 0% LEL
2.5	0-2	5-1	1.5'			
	2-4		1.8'			Borehole 1.7 ppm "
5.0	4-6	5-4	1.5'		(4-6) Poorly graded sand (SP), greyish brown, moist, increase in ms to 20-40% ms, mostly fs. (6-8) same as above	Borehole 1.3 ppm "
7.5	6-8		1.5'		(8-10) same as above	
	8-10		1.45'		Dark stained soil indicating possible smear zone @ 8.6-8.7'	Borehole 1.2 ppm "
10.0					10'-TD	Sleeve HS 443 ppm



PROJECT NUMBER

BORING NUMBER

MB432

SHEET

OF

SOIL BORING LOG

PROJECT MGS Phase II ESALOCATION Mandala Generating StationELEVATION _____ DRILLING CONTRACTOR Gress DrillingDRILLING METHOD AND EQUIPMENT Direct Push 2'x1" core samplerWATER LEVELS 8.41' bgs START 11/5/96 FINISH 11/5/96 LOGGER T. Moyle

DEPTH BELOW SURFACE (FT)	SAMPLE			STANDARD PENETRATION TEST RESULTS 6"-6'-6" (N)	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
	INTERVAL	NUMBER AND TYPE	RECOVERY (FT)			
0					(0-0.95) Silty sand w/ gravel (SM), brownish grey, moist, mostly fs, 20% brn. silt, 10% gravel	Sieve HS 161 ppm
0-2			1.75		(0.95-2.0) Poorly sorted sand (SP), brownish grey, moist, mostly fs, 20-50% ms, 20% < 5% silt	Borehole 11.2 ppm
2.5	2-4		1.8'		(2-4) same as above	
					- Possible dark stained soil 3.1-3.35'	
					(4-6) same as above	Sieve HS 130 ppm
5.0	4-6	4.5-5.1	1.7'		- Possible dark stained soil 4.4-4.9'	Borehole 336 ppm
					(6-8) same as above	Borehole 75 ppm Sieve HS 5.4 ppm
	6-8	7-7.7	1.75'		- Wet @ 7.2'	Sieve HS 170 ppm
7.5					- Dark stained - reddish brn @ 7.3-7.55'	
					- TD 8' set piez @ 10'	Borehole 125 ppm
10.0						



PROJECT NUMBER

BORING NUMBER

MBH33

SHEET

OF

SOIL BORING LOG

PROJECT MGS Phase II ESALOCATION Mandalay Generating Station

ELEVATION _____

DRILLING CONTRACTOR Gress DrillingDRILLING METHOD AND EQUIPMENT Direct Push 2' x 1" core sampler

WATER LEVELS _____

START 11/5/96FINISH 11/5/96LOGGER T. Moko

DEPTH BELOW SURFACE (FT)	SAMPLE			STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
	INTERVAL	NUMBER AND TYPE	RECOVERY (FT)			
0	0-2		1.75'		(0-5) Silty sand (SM), brown, moist, 30% silt, 10% gravel, some red lenticles (0.5-2.0) Poorly sorted sand (SP), greyish brown, moist, mostly fs, 10% ms, <5% silt	
2.5	2-4		1.75'		(2-4) same as above - dark staining @ 3.2'	Borehole 2.4 ppm Sieve 4.1 ppm
5.0	4-6	4.9-5.1	1.75'		(4-6) same as above - dark staining @ 4.9-5.2'	Borehole 16 ppm Sieve HS 16 ppm sieve HS 6 ppm
7.5	6-8		1.7'		(6-8) same as above - dark staining @ 7.3-7.5'	Borehole 3.5 ppm
10.0	8-10	8.9-9.2	1.75'		(8-10) Poorly graded sand (SP), same as above but w/ 40% ms - dark staining @ 8.9-9.1'	Borehole 7.4 ppm Sieve HS 7.8 ppm
					- TD 10'	sieve HS 21 ppm



PROJECT NUMBER

BORING NUMBER

MB434

SHEET

OF

SOIL BORING LOG

PROJECT MGS Phase II ESALOCATION Mandala Generating Station

ELEVATION

DRILLING CONTRACTOR

Gregs Drilling

DRILLING METHOD AND EQUIPMENT

Direct Push 2' x 1" core sampler

WATER LEVELS

START 11/1/96FINISH 11/1/96LOGGER T. Moxo

DEPTH BELOW SURFACE (FT)	SAMPLE			STANDARD PENETRATION TEST RESULTS 6"-6'-6" (N)	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
	INTERVAL	NUMBER AND TYPE	RECOVERY (FT)			
0	0-2	5-1	1.45'		(0-2.5) Asphalt (2.5-2.7) Gravelly sand (SP), brn-grey, moist, mostly FS (2.7-2.9) Poorly sorted sand (SP), brn-grey, moist, mostly fs, some ms (10%ms), a dark band of soil @ 2.2-2.3'. No odor (2-4) same as above	Borehole 2.7 ppm 0% LEL Stave HS 23 ppm
2.5	2-4	25-30	1.5'		4.0 TD	Borehole 1.4 ppm Stave HS 8.0 ppm
5.0						



PROJECT NUMBER

BORING NUMBER

MBH35

SHEET

OF

SOIL BORING LOG

PROJECT MGS Phase II ESALOCATION Mandala Generating Station

ELEVATION

DRILLING CONTRACTOR Gress Drilling

DRILLING METHOD AND EQUIPMENT

Direct Push 2' x 1" core samplerWATER LEVELS 7.47' bgsSTART 10/31/96FINISH 11/1/96LOGGER T. Moxo

DEPTH BELOW SURFACE (FT)	SAMPLE			STANDARD PENETRATION TEST RESULTS	SOIL DESCRIPTION	COMMENTS
	INTERVAL	NUMBER AND TYPE	RECOVERY (FT)			
0				6"-8"-6" (N)	0-1.25) Asphalt 1.25-1.5) Sandy gravel (GW) 15% silt 25% sand 1.5-2.2) Poorly graded sand (SP), brownish gray, moist, mostly fs, 10% ms, 5% silt 2.0-2.3) Same as above 2.2-3.3) silty sand (SM), brown, moist, sand is fs 3.3-4.0) Poorly graded sand (SP), brownish gray, moist, mostly fs, little ms 4.0-6.0) same as above - dark stained soil @ 4.2-4.3' - dark stained soil 1/2" thick @ 4.75' 6.0-8.0) same as above - dark band of soil 1/2" thick @ 6.15' @ w.T. wet @ 6.15' - TD - 8' piez. set @ 9.5'	Depth of casing, drilling rate, drilling fluid loss, tests and instrumentation Borehole 10 ppm 0% LEL Sieve HS 500 ppm Borehole 16 ppm Sieve HS 556 ppm Borehole 3.2 ppm Sieve HS @ 24 ppm Borehole 26 ppm Sieve HS 363 ppm
0-2	0-2	5-1.5	1.6'			
2.5	2-4	2.5-3.5	1.6'			
5.0	4-6		1.8'			
7.5	6-8		1.33'			
10.0						



PROJECT NUMBER

BORING NUMBER

MB H36

SHEET

OF

SOIL BORING LOG

PROJECT MGS Phase II ESALOCATION Mandaky Generating Station

ELEVATION _____

DRILLING CONTRACTOR

Gregg Drilling

DRILLING METHOD AND EQUIPMENT

Hand Auger

WATER LEVELS _____

START

11/1/96

FINISH

11/1/96

LOGGER

T. Mosko

DEPTH BELOW SURFACE (FT)	SAMPLE			STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
	INTERVAL	NUMBER AND TYPE	RECOVERY (FT)			
0		5-1			0-0.5) clay (CL) brown, moist, soft plastic, 5% sand 0.5-1.0) clay (CL) silty clay, brown, moist 1.0-5.0) poorly graded sand (SP), greyish brown, moist, soft, mostly fs, some ms	Bore hole 2.3 ppm 0% LFL
2.5						- Baggie HS 3.3 ppm
		3.5 4.0			- @ 3.8', dark stained soil	
5.0					- TD 5.0'	Bore hole 0.9 ppm "



PROJECT NUMBER

BORING NUMBER

MBH37

SHEET

OF

SOIL BORING LOG

PROJECT MGS Phase II ESALOCATION Mandaky Generating Station

ELEVATION _____

DRILLING CONTRACTOR Gregg DrillingDRILLING METHOD AND EQUIPMENT Hand Auger

WATER LEVELS _____

START 11/1/96FINISH 11/1/96LOGGER T. Mosko

DEPTH BELOW SURFACE (FT)	SAMPLE			STANDARD PENETRATION TEST RESULTS 6"-6'-6" (N)	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
	INTERVAL	NUMBER AND TYPE	RECOVERY (FT)			
0		5-1			(0-1.0) Silty sand(sm), dark brown, moist, soft, 30% silt	
25					(1.0-5.0) Poorly graded sand(sp), brownish grey, moist, mostly fs, some ms,	Borehole 0.5 ppm 0% LE
		3.8-4.4			- @ 3.5 to 4.5' soil appears to be dark stained, no odor	Borehole 0.7 ppm "
5.0					- TO 5.0	Baggie HS 3.5 ppm
						Borehole 0.8 ppm "



PROJECT NUMBER

BORING NUMBER

MBH 38

SHEET

OF

SOIL BORING LOG

PROJECT MGS Phase II ESALOCATION Mandalay Generating Station

ELEVATION _____

DRILLING CONTRACTOR Gress DrillingDRILLING METHOD AND EQUIPMENT Direct Push 2' x 1" core sampler

WATER LEVELS _____

START 10/29/96FINISH 10/29/96LOGGER T. Moko

DEPTH BELOW SURFACE (FT)	SAMPLE			STANDARD PENETRATION TEST RESULTS 6"-5'-6" (N)	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
	INTERVAL	NUMBER AND TYPE	RECOVERY (FT)			
0		S-1			(0-2') silty sand (SM), reddish brown, dry, sand is SW	
0-2			0.9'			
2.5					(2-4) Poorly graded sand (SP), brownish grey, moist, soft, <5-10% silt, <5% gravel. Poor recovery due to sand being so soft - compacts in tube.	
2-4			0.9'			
5.0					(4-6) same as above	Borehole Oppm 0% LEL
4-6		S-5, 5.7	0.7'			
6-8			0.7		(6-8) same as above	Raining no PID meas.
7.5					- wet @ 7.5'	
					- TD 8.0'	
10.0						



PROJECT NUMBER

BORING NUMBER

MBH39

SHEET

OF

SOIL BORING LOG

PROJECT MGS Phase II ESA LOCATION Mandalay Generating Station
 ELEVATION _____ DRILLING CONTRACTOR Gress Drilling
 DRILLING METHOD AND EQUIPMENT Direct Push 2' x 1" core sampler
 WATER LEVELS 7.1' bgs START 10/29/96 FINISH 10/29/96 LOGGER T. Moxo

DEPTH BELOW SURFACE (FT)	SAMPLE			STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
	INTERVAL	NUMBER AND TYPE	RECOVERY (FT)			
0					(0-2.5) Asphalt	
2.5	0-2	1-1 1-2	2.0'		(1.5-2.0) Poorly graded sand (SP), brownish grey, moist, mostly fs, 45% silt, soft, poor recovery because soft soil compacts in tube and pushes away underlying soil. (2-4) Same as above	Borehole Oppm 0% LEL
	2-4		0.9'		(4-6) Same as above	Borehole Oppm "
5.0	4-6	5-5.7	0.9'		(6-8) same as above	Borehole Oppm "
7.5	6-8		0.8'		wet @ 7.5'	
					TD 8.0 piez set @ 10.0	Borehole Oppm "



PROJECT NUMBER

BORING NUMBER

MBH40

SHEET

OF

SOIL BORING LOG

PROJECT MGS Phase II ESALOCATION Mandala Generating Station

ELEVATION _____

DRILLING CONTRACTOR Gregs DrillingDRILLING METHOD AND EQUIPMENT Direct Push 2' x 1" core sampler

WATER LEVELS _____

START 10/31/96 FINISH 10/31/96LOGGER T. Mosto

DEPTH BELOW SURFACE (FT)	SAMPLE			STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
	INTERVAL	NUMBER AND TYPE	RECOVERY (FT)			
0	0-2	.5-1 1-1.5	1.4'		(0-1) clayey sand SL, reddish brn, moist sand is SW, 15% gravel (1-2) Poorly graded sand (SP), greyish brown, moist, mostly fs, 20% ms, soft, poor recovery due to soft sand compacting in tube and pushing away underlying sand (2-4) same as above	Borehole 2.8 ppm 0% LEL
2.5	2-4		0.8'		(4-5) well graded sand, grey, moist, soft	
5.0	4-5		0.8		(5-6) Poorly graded sand, grey-brown, moist, soft, mostly fs, 40% ms. (6-8) same as above	Borehole 2 ppm "
	5-6	5-5.4	0.8			Borehole 1.9 ppm "
7.5	6-8		1.6'		- wet @ 7.1'	
10.0					- TD 8'	

**Sample Locations MSS41 and MSS42
are grab samples. Therefore, boring
logs do not exist for these locations.**



PROJECT NUMBER

BORING NUMBER

MBH43

SHEET

OF

SOIL BORING LOG

PROJECT MGS Phase II ESALOCATION Mandalay Generating Station

ELEVATION

DRILLING CONTRACTOR

Gregs Drilling

DRILLING METHOD AND EQUIPMENT

Direct Push 2' x 1" core samplerWATER LEVELS 8.45' bgsSTART 10/31/96FINISH 10/31/96LOGGER T. Mosto

DEPTH BELOW SURFACE (FT)	SAMPLE			STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
	INTERVAL	NUMBER AND TYPE	RECOVERY (FT)			
0					(0-0.7) Gravelly sand SW, brown, moist, 10% silt, 20% GW	
	0-2		1.1'		(0.7-2.0) Poorly graded sand(SP), brownish grey, moist, mostly fs, 20% ms	
2.5					(2-4) same as above	Borehole 51ppm 0% LEL Sieve HS 442ppm
	2-4		1.5'			
					(4-6) same as above	Borehole 350ppm Sieve HS 441ppm
5.0	4-6	4.5-5.0	1.75'			
					(6-8) same as above	Borehole 12.6ppm Sieve HS 442ppm
7.5	6-8		1.6'			
		7.9-8.4			- dark band of soil 1" thick @ w.T. - wet @ 8.3'	Borehole 11.1ppm Sieve HS 442ppm
	8-10		1.33'			
10.0					- TD 10'	Sieve HS 372ppm



PROJECT NUMBER

BORING NUMBER

MBH44

SHEET

1 OF 2

SOIL BORING LOG

PROJECT MGS Phase II ESALOCATION Mandala Generating Station

ELEVATION

DRILLING CONTRACTOR Gregg DrillingDRILLING METHOD AND EQUIPMENT Direct Push 2' x 1" core sampler

WATER LEVELS

START 11/1/96FINISH 11/LOGGER T. Mosko

DEPTH BELOW SURFACE (FT)	SAMPLE			STANDARD PENETRATION TEST RESULTS 6"-6" (N)	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
	INTERVAL	NUMBER AND TYPE	RECOVERY (FT)			
0					(0-0.5) silt (ML), brown, dry, 20% fs	
	0-2	0.5-1	1.7'		(0.5-2.0) Poorly graded sand (SP), brownish grey, dry	
2					(2.0-4) same as above	Borehole 0.9 ppm 0% LEL
	2-4		1.6'			
4					(4-6) same as above, moist	Borehole 1.3 ppm "
	4-6	4.5-5	1.4'			
6					(6-8) same as above	Borehole 1.2 ppm "
	6-8		1.33'			
8					(8-10) same as above	Borehole 2.1 ppm "
	8-10		1.8'			
10					(10-12) same as above	
	10-12	10-10.5	1.7'			
12						



PROJECT NUMBER

BORING NUMBER

MBH 44

SHEET

2 OF 2

SOIL BORING LOG

PROJECT MGS Phase II ESALOCATION Mandalay Generating Station

ELEVATION _____

DRILLING CONTRACTOR

Gregg Drilling

DRILLING METHOD AND EQUIPMENT

Direct Push 2' x 1" core sampler

WATER LEVELS _____

START _____

FINISH _____

LOGGER

T. Marko

DEPTH BELOW SURFACE (FT)	SAMPLE			STANDARD PENETRATION TEST RESULTS 6"-6'-6" (N)	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
	INTERVAL	NUMBER AND TYPE	RECOVERY (FT)			
12					(12-12.7) Same as above	Borehole 1.7 ppm 0% LEL
	12-14		1.75'		(12.7-14) Same as above w/ 40% mc, lighter grey color	
14					(14-16) same as above	Borehole 1.3 ppm "
	14-16	15-15.5	1.7'			
16					(16-18) Same as above	Borehole 2.5 ppm "
	16-18		1.5'			
18					(18-20) same as above wet @ 18'	Borehole 1.0 ppm "
	18-20		0.9'			
20					-TD 20'	



PROJECT NUMBER

BORING NUMBER

MBH45

SHEET

OF

SOIL BORING LOG

PROJECT MGS Phase II ESA LOCATION Mandalay Generating Station
 ELEVATION _____ DRILLING CONTRACTOR Gress Drilling
 DRILLING METHOD AND EQUIPMENT Direct Push 2' x 1" core sampler
 WATER LEVELS 8.15 START 10/31/96 FINISH 10/31/96 LOGGER T. Mosto

DEPTH BELOW SURFACE (FT)	SAMPLE			STANDARD PENETRATION TEST RESULTS 6"-6'-6" (N)	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
	INTERVAL	NUMBER AND TYPE	RECOVERY (FT)			
2.5	0-2	5-1	1.6'		(0-1) clayey sand (SC), much tan from road in soil	
					(1-2) Poorly graded sand (SP), brownish grey, moist, fine to med sand, mostly fs	Bore hole 374 ppm 0% LEL
5.0	2-4		1.7'		(2-4) same as above	Sieve HS 19 ppm
					(4-6) same as above	Bore hole 31 ppm "
7.5	4-6	5-5.7	1.6'			Sieve HS 374 ppm
					(6-8) same as above	Bore hole 35.8 ppm "
10.0	6-8		1.7'			Sieve HS 309 ppm
					TD - 8' piez set @ 12'	sieve 352 ppm



PROJECT NUMBER

BORING NUMBER

MBH46

SHEET

OF

SOIL BORING LOG

PROJECT MGS Phase II ESALOCATION Mandalay Generating Station

ELEVATION

DRILLING CONTRACTOR

Gress Drilling

DRILLING METHOD AND EQUIPMENT

Direct Push 2' x 1" core samplerWATER LEVELS 8.34START 10/31/96FINISH 10/31/96LOGGER T. Mosko

DEPTH BELOW SURFACE (FT)	SAMPLE			STANDARD PENETRATION TEST RESULTS 6"-5"-5" (N)	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
	INTERVAL	NUMBER AND TYPE	RECOVERY (FT)			
0					(0-8) silty sand, grey-brown, moist to wet	
	0-2	0.5-1	1.33'		(0.8-2) Poorly graded sand(SP), brownish grey, moist, mostly fs, 30% ms	
2.5					(2-4) same as above	Borehole 7.8 ppm 0% LEL
	2-4		1.5'			
5.0					(4-6) same as above	Borehole 99.1 ppm 11
	4-6	4.9-5.4	1.5'			Sleeve HS 420 ppm
7.5					(6-8) same as above	Borehole 76 ppm 11
	6-8		1.33'		- wet @ 7.1'	Sleeve HS 507 ppm
10.0					TD - 8' sep set pres. @ 11'	



PROJECT NUMBER

BORING NUMBER

MBH47

SHEET

OF

SOIL BORING LOG

PROJECT MGS Phase II ESALOCATION Mandalay Generating Station

ELEVATION _____

DRILLING CONTRACTOR Gress DrillingDRILLING METHOD AND EQUIPMENT Direct Push 2' x 1" core sampler

WATER LEVELS _____

START 10/29/96FINISH 10/29/96LOGGER T. Mosto

DEPTH BELOW SURFACE (FT)	SAMPLE			STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
	INTERVAL	NUMBER AND TYPE	RECOVERY (FT)			
0					(0-6.5) Silty sand (SM), brown, dry, 15% well graded gravel	
0-2		0.5-1	1.8'		(0.65-2) Poorly graded sand (SP), brownish grey, dry, mostly fs, <5% silt	
2.5					(2-4) same as above, moist @ 3.0'	Boring oppm 0% LEL
	2-4		2.0'			
5.0		4-4.7			(4-5) same as above silty sand (SM), brown, dry, 30% silt, sand sw	" "
	4-6		1.75'		(5-6) Poorly graded sand (SP), greyish brown, moist, F → ms	Boring 20.4 ppm
7.5					(6-8) same as above	
	6-8		1.6'			
					(8-10) same as above	Boring 9.9 ppm
	8-10		1.7'			
10.0		9.4-10			-wet @ 9.5'	Boring 0 ppm
					TD - 10'	



PROJECT NUMBER

BORING NUMBER

MBH48

SHEET

OF

SOIL BORING LOG

PROJECT MGS Phase II ESALOCATION Mandala Generating Station

ELEVATION

DRILLING CONTRACTOR

Gress Drilling

DRILLING METHOD AND EQUIPMENT

Direct Push 4' x 1.5' core sampler

WATER LEVELS

8.8' bgsSTART 10/29/96FINISH 10/29/96

LOGGER

T. Mosko

DEPTH BELOW SURFACE (FT)	SAMPLE			STANDARD PENETRATION TEST RESULTS	SOIL DESCRIPTION	COMMENTS
	INTERVAL	NUMBER AND TYPE	RECOVERY (FT)			
0				6"-6'-6" (N)	(0-.5) gravelly silt, brown, dry, (ML) 15% GW, 10% sand (.5-4) Poorly graded sand, SP, brownish grey, moist, 5% fine gravel, sand is mostly fs.	Borehole 0 ppm 0% LEL
0-4		5-1	3.4'			
2.5						
5.0		5-5.7	3.15'		(4-8) Poorly graded sand (SP), greyish brown, moist, sand is mostly f.s., 10% ms.	" " "
4-8						" " "
7.5						
10.0	8-12		core Destroyed		(8-12) same as above wet @ 10.0'	
12.5					-TD 12.0	



PROJECT NUMBER

BORING NUMBER

MBH49

SHEET

OF

SOIL BORING LOG

PROJECT MGS Phase II ESA LOCATION Mandala Generating Station
 ELEVATION _____ DRILLING CONTRACTOR Gress Drilling
 DRILLING METHOD AND EQUIPMENT Direct Push 2' x 1" core sampler
 WATER LEVELS _____ START 11/5/96 FINISH 11/5/96 LOGGER T. Mosto

DEPTH BELOW SURFACE (FT)	SAMPLE			STANDARD PENETRATION TEST RESULTS	SOIL DESCRIPTION	COMMENTS
	INTERVAL	NUMBER AND TYPE	RECOVERY (FT)			
0	0-2 2-4	5-1	1.45'	6"-6'-6" (N)	(0-2) Silty sand (sm), brown, moist, sand is sw, 30% silt (2-4) Well graded sand (sw), brownish gray, dry, 15% silt	Sieve HS 3.2 ppm
2.5	2-4 4-6		1.7'		(2.0-4.0) Same as above, w/ bands of silty brown soil, slight moisture	Bore hole 0.2 ppm 0% LEL Sieve 11.5 ppm
5.0	4-6	4.9-5.2	1.9'		(4.0-4.6) same as above (4.6-4.7) gravel interbed (4.7-6) Silty sand (sm), mostly fs, gray-brn, dry, 10% ms + cs	Bore hole 4.5 ppm 11 Sieve 36 ppm
7.5	6-8				(6-7) same as above TD 7' Refusal - concrete housing for gas line?	Bore hole 36 ppm
10.0					This site is probably on periphery of the spoils.	



PROJECT NUMBER

BORING NUMBER

MBH50

SHEET

OF

SOIL BORING LOG

PROJECT MGS Phase II ESALOCATION Mandalay Generating Station

ELEVATION

DRILLING CONTRACTOR Gress Drilling

DRILLING METHOD AND EQUIPMENT

Direct Push 2' x 1" core sampler

WATER LEVELS

13.33' bgs

START

11/5/96

FINISH

11/5/96

LOGGER

T. Mosko

DEPTH BELOW SURFACE (FT)	SAMPLE			STANDARD PENETRATION TEST RESULTS	SOIL DESCRIPTION	COMMENTS
	INTERVAL	NUMBER AND TYPE	RECOVERY (FT)			
0				6"-6" (N)		
0-2	0-2	1.5-1	1.75'		(0-2) silt (ML), dark brown, moist, w/ some organic material, <10% sand + f. gravel, fine roots	
2.5	2-4		1.25'		(2-4) same as above	Borehole 1.2 ppm 0% LEL sleeve HS 8.0 ppm
5.0	4-6	4.9-5.2	1.6'		(4-6) same as above, w/ 30% clay	Borehole 0 ppm sleeve HS 32 ppm
7.5	6-8				(6-8) no recovery	Borehole 0.7 ppm
10.0	8-10	9.9-9.4	1.5'		(8-10) silt to poorly graded sand (ML-SP), dark, oily, moist, smells like tar, no odor	sleeve HS 149 ppm
12.5	10-12		1.7'		(10-10.3) same as above (10.3-12) Poorly graded sand (SP) brownish grey, moist, wet at 12.0'	Borehole 1.3 ppm
					TD-12	



PROJECT NUMBER

BORING NUMBER

MBH51

SHEET

OF

SOIL BORING LOG

PROJECT MGS Phase II ESA LOCATION Mandalay Generating Station
 ELEVATION _____ DRILLING CONTRACTOR Gress Drilling
 DRILLING METHOD AND EQUIPMENT Direct Push 2' x 1" core sampler
 WATER LEVELS _____ START _____ FINISH _____ LOGGER T. Mosko

DEPTH BELOW SURFACE (FT)	SAMPLE			STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
	INTERVAL	NUMBER AND TYPE	RECOVERY (FT)			
0	0-2	5-1	1.6'		(0-1.6) Silty sand, brown, moist, mostly fs, 5% f. gr. (1.6-2) Poorly graded sand, (SP) brn-gry, dry, mostly fs.	Slieve 130 ppm
2.5	2-4		1.75'		(2-) same as above w/ moisture - a CL to SC from 2.2-2.4'	Borehole 8.9 ppm 0% LEL
5.0	4-6	5-5.4	2.0'		(4-6) same as above, some moisture	Borehole 9.0 ppm Slieve 15 ppm
7.5	6-8		-		(6-8) same as above	Borehole 24.7 ppm
10.0	8-10		1.8'		(8-10) same as above wet @ 9.5'	Borehole 3.2 ppm Slieve 3.2 ppm 1.9 ppm
					TD-10	Borehole 0.8 ppm Slieve 2.4 ppm



PROJECT NUMBER

BORING NUMBER

MBH52

SHEET

OF

SOIL BORING LOG

PROJECT MGS Phase II ESALOCATION Mandala Generating Station

ELEVATION

DRILLING CONTRACTOR

Gress Drilling

DRILLING METHOD AND EQUIPMENT

Direct Push 2' x 1" core sampler

WATER LEVELS

START

11/5/96

FINISH

11/5/96

LOGGER

T. Mosko

DEPTH BELOW SURFACE (FT)	SAMPLE			STANDARD PENETRATION TEST RESULTS 6"-5'-6" (N)	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
	INTERVAL	NUMBER AND TYPE	RECOVERY (FT)			
0	0-2	1-1.5	1.8'		(0-1.5) Asphalt (1.5-1.8) clay (CL), w/ gravel (1.8-2) Poorly graded sand (SP), greyish brn, moist, mostly fs, soft	
2.5	2-4		0.75'		(2-4) same as above - dark band of soil 2.25-2.3' w/ slight petrol odor Poor recovery in soft sand, go to 1' push	Borehole 2.0 ppm Sieve 5.1 ppm 0% LEL
	4-5		0.9'		(4-5) same as above	Borehole 2.4 ppm Sieve 13 ppm 11
5.0	5-6	5-5.4 5.4-5.8	1.0'		(5-6) same as above	
	6-8		1.7'		(6-8) same as above - dark smudge @ 7.5'	Borehole 1.7 ppm Sieve 9 ppm 11
7.5					- TD 8'	
10.0						



PROJECT NUMBER

BORING NUMBER

MBH 53

SHEET

OF

SOIL BORING LOG

PROJECT MGS Phase II ESALOCATION Mandala Generating Station

ELEVATION

DRILLING CONTRACTOR Gregs Drilling

DRILLING METHOD AND EQUIPMENT

Direct Push 2' x 1" core samplerWATER LEVELS 9.68

START

FINISH

LOGGER

T. Moiko

DEPTH BELOW SURFACE (FT)	SAMPLE			STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
	INTERVAL	NUMBER AND TYPE	RECOVERY (FT)			
0		5-1			(0-1.5) silty sand (Sm), brown, moist, mostly fs	
0-2			1.7'		(1.5-2) Poorly graded sand (SP), brownish grey, moist, mostly fs, some ms + cs	Sleeve HS 11.5 ppm
2.5					(2-4) same as above	Borehole 0 ppm 0% LEL
	2-4		1.7'			
5.0	4-6	5-5.4	1.9'		(4-6) same as above	Borehole 5 ppm Sleeve HS 118 ppm
					(6-8) same as above	Sleeve HS 622 ppm
	6-8		1.9'			Borehole 15 ppm
7.5					(8-10) same as above but w/ up to 30-40% ms wet @ 9.3'	Borehole 31 ppm Sleeve HS 16.0 ppm
	8-10		1.6'			Sleeve HS 157 ppm
10.0					TD-10' piez @ 11.0'	Borehole 46 ppm



PROJECT NUMBER

137125. ED. AF. MA

BORING NUMBER

MBH59

SHEET

1 OF 1

SOIL BORING LOG

PROJECT EDISON PHASE II SUPPLEMENTAL INVESTIGATION LOCATION MANDALAY
ELEVATION _____ DRILLING CONTRACTOR ENVIRONMENTAL SUPPORT TECH., LAGUNA, CA
DRILLING METHOD AND EQUIPMENT DIRECT PUSH CONTINUOUS CORE
WATER LEVELS 8.12 FT @ 1449 1/24/97 START 1415 1/29/97 FINISH _____ LOGGER G. BUTLER

DEPTH BELOW SURFACE (FT)	SAMPLE			STANDARD PENETRATION TEST RESULTS 5'-5'-5' (N)	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
	INTERVAL	NUMBER AND TYPE	RECOVERY (FT)			
1.0-1.8		φ1-5	13"		SAND (SP), LIGHT BROWN, FINE TO MEDIUM SAND, WELL SORTED (i.e. POORLY GRADED).	PID 6.0 ppm (SAMPLE) CGI 0.09% LEL
2			15"		SAME AS ABOVE	PID 6.0 ppm (SAMPLE) CGI 0.09% LEL
4	4.8-22.5	φ2-5	16"		SAME AS ABOVE	PID 0.0 ppm (SAMPLE) CGI 0.09% LEL
6	6.0		14"		SAME AS ABOVE MOIST @ 7.8 FT	PID 0.0 ppm (SAMPLE) CGI 0.09% LEL
8			15"		SAND (SW), TAN, FINE TO COARSE SAND, POORLY SORTED (i.e. WELL GRADED)	GROUNDWATER @ ~ 7.9 FT PID 0.0 ppm (SAMPLE)
10	9.4-10.0	φ3-5			STAINED SOIL @ 9.4' HYDRAULIC BODIL SAND (SP), DARK GRAY, FINE SAND, WELL SORTED (POORLY GRADED)	PID 5.1 ppm (SAMPLE)
12					END SOIL BORING AT 12 FT TEMP. PYCROMETER, INSTALLED TO 11.8 FT BGS. 5 FT OF 0.01 SLOT, 5/40 PVC, FLUSH THREADED (8.30)	



PROJECT NUMBER

137125.ED.AF.MA

BORING NUMBER

MBH60

SHEET

OF

SOIL BORING LOG

PROJECT EDISON PHASE II SUPPLEMENTAL INVESTIGATION LOCATION MANDALAYELEVATION _____ DRILLING CONTRACTOR ENVIRONMENTAL SUPPORT TECH., LAGUNA, CADRILLING METHOD AND EQUIPMENT DIRECT PUSH CONTINUOUS COREWATER LEVELS 7.45 FT @ 1405 1/21/97 START 1335 1/20/97 FINISH 1405 1/20/97 LOGGER G. BUTLER

DEPTH BELOW SURFACE (FT)	SAMPLE			STANDARD PENETRATION TEST RESULTS 6"-5"-5" (N)	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
	INTERVAL	NUMBER AND TYPE	RECOVERY (FT)			
2	1.0-1.8	01-5	15"		<u>SAND (SW), TAN, FINE TO COARSE</u> <u>SAND W. SOME PEBBLES, POORLY SORTED (i.e. WELL-GRADED).</u>	PID 0.0 ppm (SAMPLE) CGI 0.0% LEL
4			2"		<u>SAME AS ABOVE</u> <u>MOIST (3.5 ft)</u>	PID 0.0 ppm (SAMPLE) CGI 0.0% LEL
6	5.0-5.8	02-5	17"		<u>SAND (SW), LIGHT GRAY, MEDIUM TO COARSE SAND W. SOME FINE SAND, POORLY SORTED (i.e. WELL-GRADED).</u>	
8			16"		<u>SAME AS ABOVE, SLIGHTLY SATURATED</u>	
10	9.4-10.0	03-5	18"		<u>STAINED SOILS AT 9.5 FT, MICROBIAL ODOR</u> <u>SAND (SP), TAN, FINE TO MEDIUM SAND, WELL-SORTED (i.e. POORLY GRADED).</u>	PID 1.4 ppm CGI 0.0% LEL GROUNDWATER @ ~9.4 FT
12					<u>END OF SOIL BORING @ 12.0 FT @ 65 TEMP PIEZOMETER INSTALLED TO 11.6</u>	

PT 65. 5 FT 0.01 SLO, 5/4 TO PVC, FLUSH THREADED
(8.30)

REV 11/89 FORM D1586

EP014 1221



PROJECT NUMBER

137125. ED. AF. MA

BORING NUMBER

MBH 61

SHEET

1 OF 2

SOIL BORING LOG

PROJECT EDISON PHASE II SUPPLEMENTAL INVESTIGATION LOCATION MANOALAY
ELEVATION _____ DRILLING CONTRACTOR ENVIRONMENTAL SUPPORT TECH., LAGUNA, CA
DRILLING METHOD AND EQUIPMENT DIRECT PUSH CONTINUOUS CORE
WATER LEVELS 8.5 FT @ 1320 1/21/97 START 1255 1/21/97 FINISH 1320 1/21/97 LOGGER G. BUTLER

DEPTH BELOW SURFACE (FT)	SAMPLE			STANDARD PENETRATION TEST RESULTS 6"-5"-5" (N)	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
	INTERVAL	NUMBER AND TYPE	RECOVERY (FT)			
2			17"		<u>SAND (SW), LIGHT BROWN, FINE TO COARSE SAND, POORLY SORTED (ie, well GRADED)</u>	PID 0.0 ppm (SAMPLE) CGI 0.09% LEL
			24"		SAME AS ABOVE	
4			18"		SAME AS ABOVE. MOIST @ 4.5 FT	PID 0.4 ppm (HOLE) CGI 0.09% LEL
6			16"		SAME AS ABOVE. SATURATED W. WATER	GROUNDWATER @ ~7.5 FT PID 0.0 ppm CGI 0.09% LEL
8			16"		SAME AS ABOVE	PID 0.0 ppm (SAMPLE) CGI 0.09% LEL
10						
12						

EP014 1222



PROJECT NUMBER

137125. ED. AF. MA

BORING NUMBER

MBH61

SHEET

2 OF 2

SOIL BORING LOG

PROJECT EDISON PHASE II SUPPLEMENTAL INVESTIGATION LOCATION MANDALAY
ELEVATION _____ DRILLING CONTRACTOR ENVIRONMENTAL SUPPORT TECH., LABUNA, CA
DRILLING METHOD AND EQUIPMENT DIRECT PUSH CONTINUOUS CORE
WATER LEVELS BS FT @ 1320 1/24/97 START 1255 1/29/97 FINISH 1320 1/29/97 LOGGER G. BUTLER

DEPTH BELOW SURFACE (FT)	SAMPLE			STANDARD PENETRATION TEST RESULTS 6"-5"-5" (N)	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
	INTERVAL	NUMBER AND TYPE	RECOVERY (FT)			
14					END OF SOIL BORING AT 13 FT TEMP. PIEZOMETER INSTALLED AT 12.8 FT. BGS. 5 FT OF 0.01 SLOT, SCH 40, PVC, FLUSH THREADED.	
16						

PROJECT NUMBER
137125. ED. AF. MDBORING NUMBER
MBH 62

SHEET 1 OF 1

SOIL BORING LOG

PROJECT EDISON PHASE II SUPPLEMENTAL INVEST. LOCATION MBH 62
ELEVATION _____ DRILLING CONTRACTOR ENVIRONMENTAL SUPPORT TECH., LABUNIA, CA
DRILLING METHOD AND EQUIPMENT HAND AUGER
WATER LEVELS 8' 10" START 1330 4/1/97 FINISH 1445 4/29/97 LOGGER JOE NUZZOLO

DEPTH BELOW SURFACE (FT)	SAMPLE			STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
	INTERVAL	NUMBER AND TYPE	RECOVERY (FT)			
0.5-1.0	0.5-1.0	Ø1-5	8"		SAND (SP), BROWN, FINE TO MEDIUM, WELL-SORTED (i.e., POORLY GRADED), SOME ORGANIC MATTER, SOME WELL CEMENTED SAND GRAINS AND LOOSE SAND.	PID 0.1 ppm CGI 0.09% LEL PID 0.1 ppm (SAMPLE) CGI 0.09% LEL
5.0-5.8	5.0-5.8	Ø2-5	8"		SAME AS ABOVE	PID 0.2 ppm (SAMPLE) CGI 0.0% LEL
8.0-8.8					GROUNDFWATER @ 8' 10" SET PIEZOMETER AT 9' 10" MAY HAVE TO RE-INSERT PIEZOMETER w/ DRILLING	PID 0.1 ppm CGI 0.0% LEL



PROJECT NUMBER

137125. ED AF.MA

BORING NUMBER

MOH63

SHEET

1 OF 2

SOIL BORING LOG

PROJECT EDISON PHASE II SUPPLEMENTAL INVEST. LOCATION MANDALAY
ELEVATION _____ DRILLING CONTRACTOR ENVIRONMENTAL SUPPORT TECH., LAGUNA, CA
DRILLING METHOD AND EQUIPMENT HAND AUGER / DIRECT PUSH CONTINUOUS CORE
WATER LEVELS 10.26 ft @ 1810 11/29/97 START 1510 1/29/97 FINISH 1800 1/29/97 LOGGER G. BUTLER

DEPTH BELOW SURFACE (FT)	SAMPLE			STANDARD PENETRATION TEST RESULTS	SOIL DESCRIPTION	COMMENTS
	INTERVAL	NUMBER AND TYPE	RECOVERY (FT)			
0					<u>SILTY SAND (SM)</u> , OLIVE GRAY, FINE SAND W. SHELL FRAGMENTS, POORLY SORTED (i.e., WELL-GRADED).	P10 0.0 PPM (HOLE) C16 0.0% LEL
2	2.0-2.5	01-5				P10 0.0 PPM (HOLE)
4					<u>SAND (SP)</u> , BROWN, FINE TO MEDIUM SAND W. SOME ROCK FRAGMENTS, PO WELL-SORTED (i.e., POORLY GRADED).	
6	5.0-6.0	02-5	10"			
			21"		SAME AS ABOVE	
			14"		SAME AS ABOVE (LIGHTLY SATURATED)	GROUNDWATER @ ~ 9.5 FT
10						
12						



PROJECT NUMBER

137125. ED. AF. MA

BORING NUMBER

MBH63

SHEET

2 OF 2

SOIL BORING LOG

PROJECT EDISON PHASE II SUPPLEMENTAL INVEST. LOCATION MANDALAY
ELEVATION _____ DRILLING CONTRACTOR ENVIRONMENTAL SUPPORT TECH., LAGUNA, CA
DRILLING METHOD AND EQUIPMENT HAND AUGER / DIRECT PUSH CONTINUOUS CORE
WATER LEVELS 10.26 FT @ 1810 4/24/97 START 1510 4/24/97 FINISH 1800 4/24/97 LOGGER G. BUTLER

WATER LEVELS						
DEPTH BELOW SURFACE (FT)	SAMPLE			STANDARD PENETRATION TEST RESULTS	SOIL DESCRIPTION	COMMENTS
	INTERVAL	NUMBER AND TYPE	RECOVERY (FT)			
				6"-6'-6" (N)	SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
12						
14					END OF SOIL BORING @ 13.0 FT TEMP. PIEZOMETER INSTALLED TO 12.8 FT BGS. 5 FT OF 0.01 SLOP, SLIT 40 PVC - FLUSH THREADED.	
16						



PROJECT NUMBER

137125.ED.AF.MA

BORING NUMBER

MBH 64

SHEET

1

OF 2

SOIL BORING LOG

PROJECT EDISON PHASE II SUPPLEMENTAL INVEST. LOCATION MANDALAY
ELEVATION _____ DRILLING CONTRACTOR ENVIRONMENTAL SUPPORT TECH., LAGUNA, CA
DRILLING METHOD AND EQUIPMENT HAND AUGER / DIRECT PUSH CONTINUOUS CORE
WATER LEVELS 8.8 FT 1/29/97 START 1635 1/29/97 FINISH 1725 1/29/97 LOGGER G. BUTLER

DEPTH BELOW SURFACE (FT)	SAMPLE			STANDARD PENETRATION TEST RESULTS 5'-5'-5' (N)	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
	INTERVAL	NUMBER AND TYPE	RECOVERY (FT)			
2	2.0-2.6	Ø1-5	14"		SILTY SAND (SM-ML), OLIVE GRAY, DRY, LOOSE, SOME ROOTS AND OTHER ORGANIC MATTER.	PID 0.0 ppm (HOLE) CGI 0.0 % LEL
4					- SAME AS ABOVE	PID 0.0 ppm (SAMPLE)
6	5.0-6.5	Ø2-5 22-5	10"		SAND (SP), LIGHT BROWN, FINE SAND, WELL-SORTED (i.e. POORLY GRADED), LOW RECOVERY	
8	6.5-8.0		10"		SAME AS ABOVE, LOW RECOVERY.	
10			10"		SAND (SP), LIGHT BROWN-BUFF, FINE TO MEDIUM, WELL-SORTED (i.e. POORLY GRADED), MOIST, LOW RECOVERY	GROUNDWATER X 8 FT
12						

EP014 1227



PROJECT NUMBER

137125. ED. AF. MA

BORING NUMBER

MBH64

SHEET

2 OF 2

SOIL BORING LOG

PROJECT EDISON PHASE II SUPPLEMENTAL INVEST. LOCATION MANDALAYELEVATION _____ DRILLING CONTRACTOR ENVIRONMENTAL SUPPORT TECH., LAGUNA, CADRILLING METHOD AND EQUIPMENT HAND AUGER / DIRECT PUSH CONTINUOUS COREWATER LEVELS 8.8 FT 1/29/97 START 1635 1/29/97 FINISH 1725 1/29/97 LOGGER G. BUTLER

WATER LEVELS						
DEPTH BELOW SURFACE (FT)	SAMPLE			STANDARD PENETRATION TEST RESULTS	SOIL DESCRIPTION	COMMENTS
	INTERVAL	NUMBER AND TYPE	RECOVERY (FT)			
				6"-5"-6" (N)		
12						
14						
16					END OF SOIL BORING @ 15 FT TEMP. PIEZOMETER INSTALLED @ 14.8 FT BGS. 5 FT OF 0.01 SLOT, SCH 40 PVC. FLUSH THREADED.	



PROJECT NUMBER

137125.ED.AF.MX

BORING NUMBER

MBH 65

SHEET

1 OF 2

SOIL BORING LOG

PROJECT EDISON PHASE II SUPPLEMENTAL INVESTIGATION LOCATION MANDALAY
ELEVATION _____ DRILLING CONTRACTOR ENVIRONMENTAL SUPPORT TECH., LAGUNA, CA
DRILLING METHOD AND EQUIPMENT DIRECT PUSH CONTINUOUS CORE
WATER LEVELS 8.48 FT @ 0845 1/30/97 START 0800 1/30/97 FINISH 0845 1/30/97 LOGGER G. BUTLER

DEPTH BELOW SURFACE (FT)	SAMPLE			STANDARD PENETRATION TEST RESULTS 5'-5'-5' (N)	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
	INTERVAL	NUMBER AND TYPE	RECOVERY (FT)			
0	0.8	1-5	18"		SAND (SP), TAN, FINE SAND, WELL SORTED (i.e., POORLY GRADED), MINOR SHELL FRAGMENTS AND ORGANIC MATTER (ROOTS).	PID 4.8 ppm (SAMPLE) CGI 0.090 LEL
2	1.8		18"			
4	5.5	2-5 20-5 25-5	10"		SAND (SP), LIGHT GRAY, FINE TO COARSE SAND, POORLY SORTED (i.e., WELL GRADED), TRACE SILT (LOW RECOVERY)	
6	7.0		13"		SAME AS ABOVE, LESS FINE SAND. (LOW RECOVERY)	CGI 0.090 LEL PID 0.3 ppm (HOLE) PID 0.5 ppm (SAMPLE)
8	8.5		15"			GROUNDWATER @ 8.5 FT
10	10.0				SAME AS ABOVE (VERY MOIST).	
12						



PROJECT NUMBER

137125. ED. AF. MA

BORING NUMBER

MBH 65

SHEET

2 OF 2

SOIL BORING LOG

PROJECT EDISON PHASE II SUPPLEMENTAL INVESTIGATION LOCATION MANOALAY
ELEVATION _____ DRILLING CONTRACTOR ENVIRONMENTAL SUPPORT TECH., LAGUNA, CA
DRILLING METHOD AND EQUIPMENT DIRECT PUSH CONTINUOUS CORE
WATER LEVELS 8.46 FT @ 0845 1/30/97 START 0800 1/30/97 FINISH 0845 1/30/97 LOGGER G. BUTLER

DEPTH BELOW SURFACE (FT)	SAMPLE			STANDARD PENETRATION TEST RESULTS	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
	INTERVAL	NUMBER AND TYPE	RECOVERY (FT)			
12				6"-6"-6" (N)		
14						
16					END OF SOIL BORING @ 14.5 FT TEMP. PIEZOMETER INSTALLED TO 14.3 FT BGS. 5 FT OF 0.01 SLOT, SCH 40, PVC, FLUSH THREADED	



PROJECT NUMBER
137125. ED. AF. MA

BORING NUMBER
MBH66

SHEET 1 OF 1

SOIL BORING LOG

MBH66

PROJECT Edison - Addn'l Field Work - LOCATION Mandley Generating Station
ELEVATION _____ DRILLING CONTRACTOR EST
DRILLING METHOD AND EQUIPMENT Direct Push Rig
WATER LEVELS 9.34' START 1540 FINISH 1630 LOGGER JBN

DEPTH BELOW SURFACE (FT)	SAMPLE			STANDARD PENETRATION TEST RESULTS 6"-6" (N)	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
	INTERVAL	NUMBER AND TYPE	RECOVERY (FT)			
0'	0'-6"	PCB TPH-D Metals VOC	1.8'		0-1'5" - Silty Sand, Tan color 1'5" - Reddish powder visible 1'5"-2' - hard packed large grain sand & silty sand	PID : 1.5 ppm Collect Sample 1545 MBH66 B50101 6"-10" PCB 10"-14" TPH-D 14"-18" Metals 18"-22" VOC
2'	2'-2'3"		2.0'		2'-2'3" - silty hard packed soil - maybe slough 2'3"-4' - large grain sand - light tan color	PID : 3.3 ppm
4'	4'-6'		1.65'		4'-6' - Small grain sand & pebbles - white color, light sand	Collect Sample 1605 60"-64" PCB 64"-68" TPH-D 68"-72" Metals 72"-76" VOC MBH66 B50201
6'	6'-6'8"		1.5'		6'-6'8" - Fine grain sand, light tan 6'8"-8' - Coarse grain sand darker tan color	PID : 0.3 ppm
8'	8'-8'8"		1.0'		8'-8'8" - Coarse grain sand dark tan color	Collect GW sample 1620 Set Well at 13' bgs
10'	9'6"-10'		0.8'		9'6"-10' - Moist Coarse grain sand Ground water at @ 10'	GW Level - 9.34' Collect VOC, Metals MBH66 BWO101
12'	10'-12'				10'-12' - Wet Sand	PID : 0.6 ppm

PROJECT NUMBER
13725.ED.AF.MABORING NUMBER
MBH67

SHEET 1 OF 1

SOIL BORING LOG

PROJECT Edison - Additional Field Work - Mandalay LOCATION MBH 67ELEVATION _____ DRILLING CONTRACTOR ESTDRILLING METHOD AND EQUIPMENT Direct Push R/gWATER LEVELS N/A START 1040 FINISH 1700 LOGGER JBN

DEPTH BELOW SURFACE (FT)	SAMPLE			STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
	INTERVAL	NUMBER AND TYPE	RECOVERY (FT)			
0'	0' - 1' 10"	1 Metals	1.9'		Light Tan - Fine & coarse grain sand darker in color in lower half of sleeve (1'-2')	PID - 1.4 ppm 1655 - collect sample MBH67 BS0101 Metals
2'					2'-4' - Darker Tan color - coarse & fine grain sand - Hard Packed.	PID: 1.3 ppm Collect Sample: 1705 MBH67 BS0201 Metals
3'	3' - 4'	36" 1 Metals	1.85'			
4'					End at 4' bgs	

PROJECT NUMBER **AF**
137125. ED. 05. MABORING NUMBER
MBH68SHEET **1** OF **1**

SOIL BORING LOG

PROJECT **Edison - Addn'l Field Work - Mandalay** LOCATION **MBH68**ELEVATION _____ DRILLING CONTRACTOR **EST**DRILLING METHOD AND EQUIPMENT **Direct Push Rig**WATER LEVELS **N/A** START **1710** FINISH **1733** LOGGER **JBN**

DEPTH BELOW SURFACE (FT)	SAMPLE			STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
	INTERVAL	NUMBER AND TYPE	RECOVERY (FT)			
0'	0" - 6"	1 Metals	1.7'		0-5" - Fine grain sand Light tan/white color 5"-8" - dark clay-like soil or silt; hard packed 8"-24" - darker fine & coarse grain sand (Tan) w/ visible Red grains/powder	PID: 0.2 ppm 1715 - collect sample MBH68BS0101 Metals - 6"-10"
2'	36" - 40"	1 Metals	1.9'		2'-3' dark tan fine & coarse grain sand 3'-4' moist dark tan fine & coarse grain sand.	PID: 0.0 ppm 1730 - collect sample MBH68BS0201 Metals - 36"-40"
4'					End at 4' bgs	



PROJECT NUMBER 137125.ED.AF.MA	BORING NUMBER MBH69	SHEET 1 OF 1
SOIL BORING LOG		

PROJECT Edison-Add. Field Work Mandatory LOCATION MBH69
ELEVATION _____ DRILLING CONTRACTOR EST
DRILLING METHOD AND EQUIPMENT Direct Push Rig
WATER LEVELS N/A START 1735 FINISH 1745 LOGGER JBN

DEPTH BELOW SURFACE (FT)	SAMPLE			STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
	INTERVAL	NUMBER AND TYPE	RECOVERY (FT)			
0'	6"	1 Metals	1.9'		0'-1'6" - coarse grain and fine grain sand - dark tan color	PID: 1.5ppm 1740 collected sample MBH69BS0101 Metals - 6"-10"
2'	36"	1 Metals	2.0'		1'6"-2' - dark tan silty sand and fine grain sand	
4'	40"				2'-4' - dark tan color fine and coarse grain sand - consistent throughout sleeve.	PID: 1.4ppm 1745 - collected sample MBH69BS0201 Metals - 36"-40"
					End at 4' bgs	

PROJECT NUMBER
137125.ED.AF.MABORING NUMBER
MBH 70

SHEET 1 OF 1

SOIL BORING LOG

PROJECT Edison - Add. Field Work - Mandaley LOCATION MBH 70
ELEVATION _____ DRILLING CONTRACTOR EST
DRILLING METHOD AND EQUIPMENT Direct Push Rig
WATER LEVELS N/A START 1750 FINISH 1830 LOGGER JBN

DEPTH BELOW SURFACE (FT)	SAMPLE			STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
	INTERVAL	NUMBER AND TYPE	RECOVERY (FT)			
0'	6"	1 TPH-D	1.4'		0-2" - Black oily sand. Very sticky. VOC readings in headspace → at 2" - gravel layer 2"-10" → dark gray colored. 6"-10" → sand (not black) collect sample 10"-24" - Fine grain, dark-tan sand. No sign of oily residue.	PID Headspace in Sleeve: 36.5ppm Bore hole: 2.0ppm 1800 - collect sample MBH70BS0101 TPH-D - 6"-10"
2'	36"		1.0'		2-4" Sleeve: Fine grain, dark-tan sand. No oil visible.	PID: Borehole: 0.7ppm Headspace: 6.2ppm 1815 Collect sample MBH69BS0201 TPH-D - 36"-40" 1810 1815 collect Eg. Blank VOC (water) 1825 - complete labels for Travel Blank VOC (water)
4'	40"				End at 4' bgs	

APPENDIX B - SAMPLE LOCATION CONTROL DATA
MANDALAY GENERATING STATION
EDISON PHASE II ESA

SAMPLE LOCATION	SAMPLE LOCATION CONTROL POINT	DISTANCE TO PERMANENT SITE FEATURE (FEET)	DESCRIPTION OF PERMANENT SITE FEATURE
MBH01	1	40.1	Automatic tank gage on northeast side of South Fuel Oil Tank
	2	30.8	Southeast corner of bottom stair on northeast side of South Fuel Oil Tank
	3	24.0	Valve on northeast side of South Fuel Oil Tank, north of Swing-Tie Point #2 but south of Swing-Tie Point #1
MBH02	1	23.7	Staff gage (level indicator) on north side of South Fuel Oil Tank
	2	19.0	North side of suction pipe at intersection with wall of South Fuel Oil Tank
	3	14.9	Valve on suction pipe west of (downstream of) Swing-Tie Point #2
MBH03	1	19.9	Manhole port on southwest side on South Fuel Oil Tank (on a perpendicular)
	2	33.7	Drain pipe north of Swing-Tie Point #1
	3	46.4	Drain pipe south of Swing-Tie Point #1
MBH04	1	11.2	North Fuel Oil Tank (on a perpendicular)
	2	14.6	Liquid level transmitter on northwest side of North Fuel Oil Tank
	3	18.8	Roof drain north of manhole port on northwest side of North Fuel Oil Tank
MBH05	1	59.5	Manhole on east side of North Fuel Oil Tank
	2	72.0	Drain pipe south of Swing-Tie Point #1
	3	40.1	Drain pipe north of Swing-Tie Point #1

APPENDIX B - SAMPLE LOCATION CONTROL DATA
MANDALAY GENERATING STATION
EDISON PHASE II ESA

SAMPLE LOCATION	SAMPLE LOCATION CONTROL POINT	DISTANCE TO PERMANENT SITE FEATURE (FEET)	DESCRIPTION OF PERMANENT SITE FEATURE
MBH06	1	12.7	Electrical conduit on southwest side of North Fuel Oil Tank, near suction pipe
	2	13.7	Drain pipe on southwest side of North Fuel Oil Tank (on a perpendicular)
	3	17.8	Valve on southwest side of North Fuel Oil Tank, north of Swing-Tie Point #2
MBH07	1	12.0	Distillate Tank (on a perpendicular)
	2	47.4	Manhole port on southeast side of Distillate Tank
	3	40.7	Top edge of berm on east side of Distillate Tank (on a perpendicular from top of berm to ground level at borehole)
MBH08	1	18.6	Southwest corner of bottom metal stair on southwest side of Distillate Tank
	2	23.5	Pipe riser north (around circumference of Distillate Tank) of Swing-Tie Point #1, east of asphalt
	3	0.33	Edge of asphalt
MBH09	1	15.0	Northeast corner of cement support for suction pipe on north side of Cutter Tank
	2	9.9	Electrical box on north side of Cutter Tank
	3	14.5	Floor drain east of (clockwise from) Sing-Tie Point #2
MBH10	1	24.0	Southwest corner of bottom stair on south side of Cutter Tank
	2	27.5	Manhole port on southeast side of Cutter Tank (counter-clockwise from

APPENDIX B - SAMPLE LOCATION CONTROL DATA
MANDALAY GENERATING STATION
EDISON PHASE II ESA

SAMPLE LOCATION	SAMPLE LOCATION CONTROL POINT	DISTANCE TO PERMANENT SITE FEATURE (FEET)	DESCRIPTION OF PERMANENT SITE FEATURE
			Swing-Tie Point #1)
MBH11	3	30.6	Monitoring Well MW-16
	1	8.0	Northwest corner of brick wall outlining north oil tank on north side of Power Block
	2	12.3	Northwest corner of brick wall immediately north of largest concrete pad and directly south of Swing-Tie Point #1
MBH12	3	17.3	Northwest corner of largest concrete pad
	1	28.0	Southwest corner of largest concrete pad
	2	17.6	Corner of concrete pad in line with oil tank to east
MBH13	3	9.8	Southwest corner of concrete pad closest to southwest corner of brick wall outlining south oil tank on north side of power block
	1	40.7	Northwest corner of bottom wood stairs descending berm on west side of road
	2	30.1	Northwest corner of Fire Building on east side of road
MBH14	3	12.2	Northwest corner of concrete pad on east side of road, north of Fire Building
	1	4.5	Wood light pole east of road, north of Primary Fuel Area Pumps
	2	8.0	West corner of concrete pad east of road, southeast of Swing-Tie Point #1
	3	8.8	Northeast corner of concrete pad south

APPENDIX B - SAMPLE LOCATION CONTROL DATA
MANDALAY GENERATING STATION
EDISON PHASE II ESA

SAMPLE LOCATION	SAMPLE LOCATION CONTROL POINT	DISTANCE TO PERMANENT SITE FEATURE (FEET)	DESCRIPTION OF PERMANENT SITE FEATURE
			of Swing-Tie Point #1
MBH15	1	23.3	Southeast corner of Secondary pump Area
	2	11.0	Metal "H" post near center of east edge of Secondary Pump Area
	3	34.8	Metal "H" post north of MBH15
MBH16	1	9.0	Southwest corner of concrete pad east of MBH16
	2	58.3	Northwest corner of concrete pad east of MBH16
	3	45.5	Light pole southwest of concrete pad
MBH17	1	12.4	Southern side of garage door on south wall of power block
	2	22.7	Southwest corner of south wall of power block
	3	26.5	Metal "H" post west of southwest corner of south wall of power block
MBH18	1	14.0	Ladder on Stack west of Unit 2
	2	15.1	Northwest corner of west wall of Unit 2 Power Block
	3	28.7	Southwest corner of west wall of Unit 2 Power Block
MBH19	1	41.1	Light pole east of the northeast corner of concrete pad near transformers for Unit 2
	2	14.5	Northwest corner of cable vault

APPENDIX B - SAMPLE LOCATION CONTROL DATA
MANDALAY GENERATING STATION
EDISON PHASE II ESA

SAMPLE LOCATION	SAMPLE LOCATION CONTROL POINT	DISTANCE TO PERMANENT SITE FEATURE (FEET)	DESCRIPTION OF PERMANENT SITE FEATURE
	3	3.0	Southeast corner of concrete pad for transformers for Unit 2
MSS20	1	NA	Ballast on south side of north transformer of Main Transformer Bank east of Units 1 and 2 (referred to as transformer A)
MSS21	1	NA	Ballast on south side of transformer immediately south of MSS20 (referred to as transformer B)
MSS22	1	NA	Ballast on south side of transformer immediately south of MSS21 (referred to as transformer C)
MSS23	1	NA	Ballast on south side of transformer immediately south of MSS22 (referred to as transformer D)
MSS24	1	NA	Ballast on south side of transformer immediately south of MSS23 (referred to as transformer E)
MSS25	1	NA	Ballast on south side of south transformer of Main Transformer Bank east of Units 1 and 2 (referred to as transformer F)
MSS26	1	NA	Ballast on west side of Main Transformer for Peaker Unit
MSS27	1	NA	Ballast on south side of Auxilliary Transformer east-southeast of Pig Launcher
MBH28	1	5.0	Northwest corner of Oil/Water Separator Sump
	2	4.2	Northeast corner of Oil/Water Separator Sump

APPENDIX B - SAMPLE LOCATION CONTROL DATA
MANDALAY GENERATING STATION
EDISON PHASE II ESA

SAMPLE LOCATION	SAMPLE LOCATION CONTROL POINT	DISTANCE TO PERMANENT SITE FEATURE (FEET)	DESCRIPTION OF PERMANENT SITE FEATURE
	3	30.0	Monitoring Well MW-9
MBH29	1	12.5	Southwest corner of Oil/Water Separator Sump
	2	11.5	Fire hydrant south-southwest of oil/water separator sump
	3	32.3	Northwest corner of Oil/Water Separator Sump
MBH30	1	16.4	Northeast corner of Peaker Unit
	2	39.7	North center corner of Peaker Unit west and north of Swing-Tie Point #1
	3	34.7	Light pole east of Swing Tie-Point #1
MBH31	1	26.0	Southwest corner of cement curb around Peaker Unit Transformers
	2	10.7	Southeast corner of garage southwest of Peaker Unit
	3	15.0	Light pole east of Swing-Tie Point #1
MBH32	1	5.2	Northeast corner of concrete pad for Distillate Fuel Pumps
	2	23.1	Northwest corner of concrete pad for Distillate Fuel Pumps
	3	31.7	Southwest corner of fence around Hydrogen Gas storage area east of road
MBH33	1	7.9	Southwest corner of concrete pad for Distillate Fuel Pumps
	2	26.9	Cement light pole on west side of road, southeast of Distillate Fuel Pumps
	3	31.1	Wood electrical pole southwest of Distillate Fuel Pumps

APPENDIX B - SAMPLE LOCATION CONTROL DATA
MANDALAY GENERATING STATION
EDISON PHASE II ESA

SAMPLE LOCATION	SAMPLE LOCATION CONTROL POINT	DISTANCE TO PERMANENT SITE FEATURE (FEET)	DESCRIPTION OF PERMANENT SITE FEATURE
MBH34	1	165.0	Northeast corner of carport for maintenance building
	2	66.8	Southeast corner of carport/Northeast corner of shed/garage adjacent to (south of) carport for maintenance building
	3	94.6	Light pole east of road, opposite shed/garage adjacent to (south of) carport for maintenance building
MBH35	1	30.6	Southeast corner of shed/garage adjacent to (south of) carport for maintenance building
	2	31.7	Northeast corner of shed/garage adjacent to (south of) carport for maintenance building
	3	24.3	Light pole east of road, opposite shed/garage adjacent to (south of) carport for maintenance building
MBH36	1	2.5	East of perimeter fence
	2	0.0	32nd post north of road
MBH37	1	1.5	East of perimeter fence
	2	6.4	23rd fence post south of road
MBH38	1	29.5	Lamp post north of New Haz Mat Storage Area
	2	5.8	Southeast corner of Septic Tank
	3	7.9	Northeast corner of Septic Tank
MBH39	1	22.7	Northeast corner of New Haz Mat Storage Area

APPENDIX B - SAMPLE LOCATION CONTROL DATA
MANDALAY GENERATING STATION
EDISON PHASE II ESA

SAMPLE LOCATION	SAMPLE LOCATION CONTROL POINT	DISTANCE TO PERMANENT SITE FEATURE (FEET)	DESCRIPTION OF PERMANENT SITE FEATURE
MBH40	2	9.5	Lamp post north of New Haz Mat Storage Area
	3	8.4	Southwest corner of Septic Tank
	1	3.8	Valve on pig launcher (on a perpendicular)
	2	12.4	Northeast corner of curb around pig launcher, east of Swing-Tie Point #1
	3	25.5	Light pole on south side of road, west of Swing-Tie Point #1
MSS41	1	NA	Surface soil beneath drain valve on north side of tank on east transformer in Insulator Test Area
MSS42	1	NA	Surface soil beneath south side of pole transformer (west transformer) in Insulator Test Area
MBH43	1	6.2	Southwest pole of railing around vault
	2	11.5	Southeast pole of railing around vault
	3	10.0	Light pole southeast of vault
MBH44	1	11.5	Southwest corner of metal housing
	2	29.0	Wood light pole west of Swing-Tie Point #1
	3	30.6	Wood light pole south of Swing-Tie Point #1
MBH45	1	~ 4.0-5.0	East of Torch Operating Co. Transformer in southeast corner of Torch facility (on a perpendicular), at the west edge of the asphalt
MBH46	1	Non-Precise	South of northeast corner of Torch Operating Co. facility but north of

APPENDIX B - SAMPLE LOCATION CONTROL DATA
MANDALAY GENERATING STATION
EDISON PHASE II ESA

SAMPLE LOCATION	SAMPLE LOCATION CONTROL POINT	DISTANCE TO PERMANENT SITE FEATURE (FEET)	DESCRIPTION OF PERMANENT SITE FEATURE
			MBH45, at the west edge of the asphalt
MBH47	1	7.5	Northeast corner of Old Haz Mat Storage Area
	2	28.8	Northwest corner of Old Haz Mat Storage Area
	3	22.0	Southeast corner of Old Haz Mat Storage Area
MBH48	1	9.3	Southwest corner of Old Haz Mat Storage Area
	2	35.4	Northwest corner of Old Haz Mat Storage Area
	3	31.5	Southeast corner of Old Haz Mat Storage Area
MBH49	1	179.2	Northwest corner of Old Haz Mat Storage Area
	2	153.9	Monitoring Well MW-6
	3	199.9	Southeast corner of Insulators Test Area
MBH50	1	142.0	Monitoring Well MW-6
	2	114.2	Southeast corner of Insulators Test Area
	3	172.5	Southwest corner of Insulators Test Area
MBH51	1	84.0	Northwest corner of New Haz Mat Storage Area
	2	59.2	Northeast corner of Old Haz Mat Storage Area

APPENDIX B • SAMPLE LOCATION CONTROL DATA
MANDALAY GENERATING STATION
EDISON PHASE II ESA

SAMPLE LOCATION	SAMPLE LOCATION CONTROL POINT	DISTANCE TO PERMANENT SITE FEATURE (FEET)	DESCRIPTION OF PERMANENT SITE FEATURE
	3	57.7	Northwest corner of Old Haz Mat Storage Area
MBH52	1	10.9	Southeast corner of cement curb around oil skimmer, near metal grate
	2	10.0	Southeast corner of cement curb around oil skimmer, north of Swing-Tie Point #1 and metal grate
	3	23.2	Northeast corner of cement curb around oil skimmer
MBH53	1	30.2	Manhole port on south side of West Fuel Oil Tank
	2	40.1	Monitoring Well MW-17
	3	28.3	Floor drain west of (clockwise from) Swing-Tie Point #1
MBH59	1	1.0	West of piping
	2	38.0	Northeast of power pole
	3	46.2	North of Building #4
MBH60	1	6.3	South of power pole
	2	9.4	East of chain-link fence
	3	55.0	West of power pole
MBH61	1	12.0	South of fire hydrant
	2	18.0	Southeast of power pole
	3	25.0	Southwest of Building #4
MBH62	1	99.1	Northeast corner of Retention Basin

APPENDIX B - SAMPLE LOCATION CONTROL DATA
MANDALAY GENERATING STATION
EDISON PHASE II ESA

SAMPLE LOCATION	SAMPLE LOCATION CONTROL POINT	DISTANCE TO PERMANENT SITE FEATURE (FEET)	DESCRIPTION OF PERMANENT SITE FEATURE
MBH63	2	105.8	East/Northeast of MW-3
	3	188.1	Southwest corner of New Hazardous Materials Area
	1	61.5	Southwest corner of Old Transformer Area
	2	64.5	Southeast corner of Old Transformer Area
MBH64	3	93.6	North of MW-6
	1	116.3	Southeast corner of Old Transformer Area
	2	169.6	South of north fenceline
MBH65	3	167.1	Southwest of MW-2
	1	157.6	South of MW-6
	2	185.2	South of north fenceline
	3	218.4	Southwest of light pole
MBH66	1	66.8	Southwest corner of old hazardous waste storage area
	2	102.7	Southwest corner of new hazardous waste storage area
	3	121.3	Northwest of new hazardous waste storage area
MBH67	1	98.7	Northeast steel girder for platform over ammonia tank
	2	100.7	Northeast of vertical steel girder north of northern wall of power block unit #2
	3	119.6	Northwest vertical steel girder north of northern wall of power block #2

APPENDIX B - SAMPLE LOCATION CONTROL DATA
MANDALAY GENERATING STATION
EDISON PHASE II ESA

SAMPLE LOCATION	SAMPLE LOCATION CONTROL POINT	DISTANCE TO PERMANENT SITE FEATURE (FEET)	DESCRIPTION OF PERMANENT SITE FEATURE
MBH68	1	124.0	Northeast of steel girder for platform over ammonia tank
	2	70.6	Northeast of vertical steel girder north of northern wall of power block unit #2
	3	115.3	Northwest of vertical steel girder north of northern wall of power block unit #2
MBH69	1	119.9	Northeast of vertical steel girder north of northern wall of power block unit #2
	2	164.9	Northwest of vertical steel girder north of northern wall of power block unit #2
	3	118.6	Northwest corner of test shop building/shipping & receiving building
MBH70	1	6.7	Southwest corner of concrete pump pad (east of roadway) at primary fuel pumping area
	2	37.3	Northeast corner of concrete pad for fuel pipeline risers at fuel pumping area south of borehole
	3	30.5	Northwest corner of concrete pad for fuel pipeline risers south of borehole

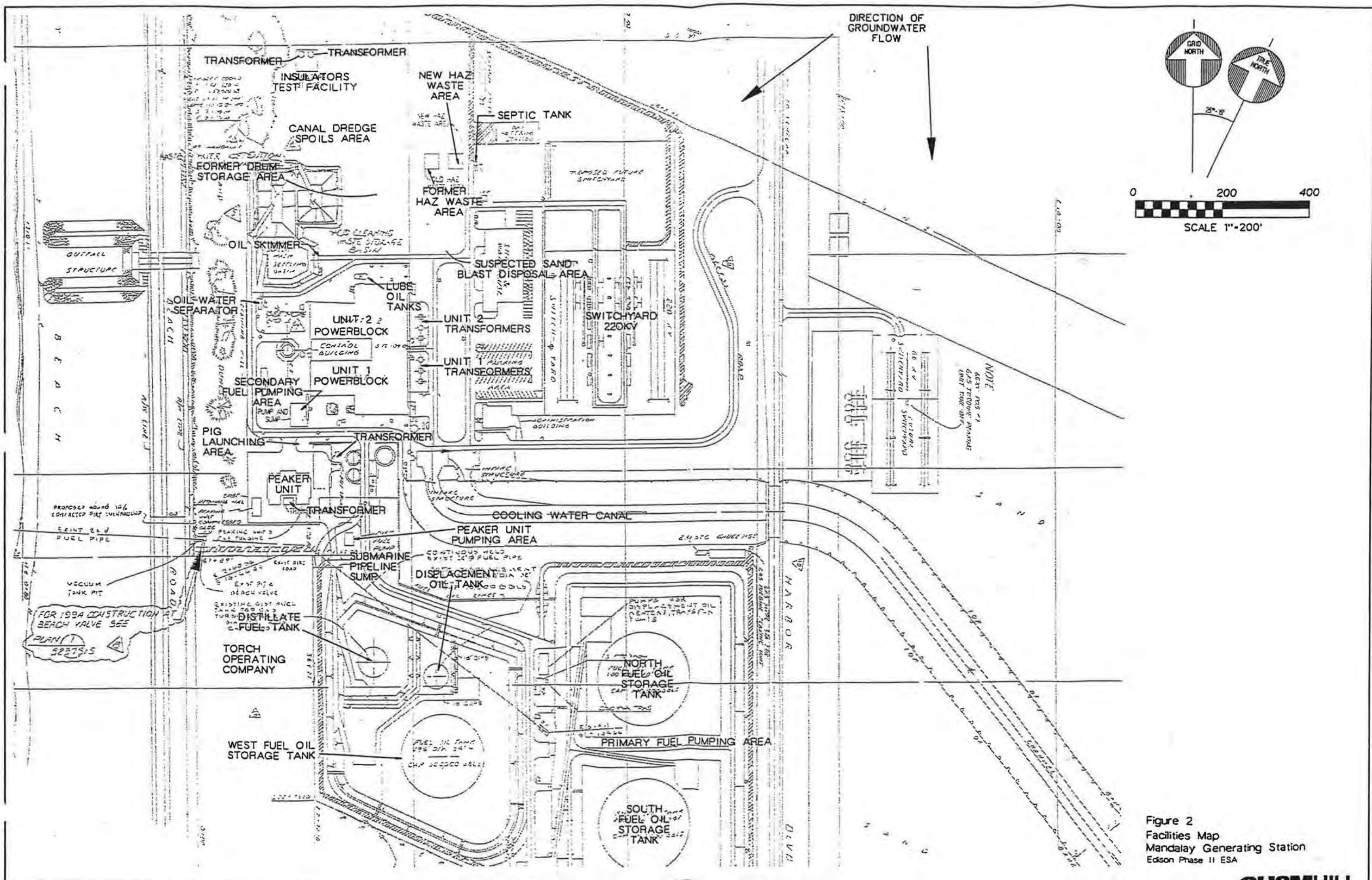
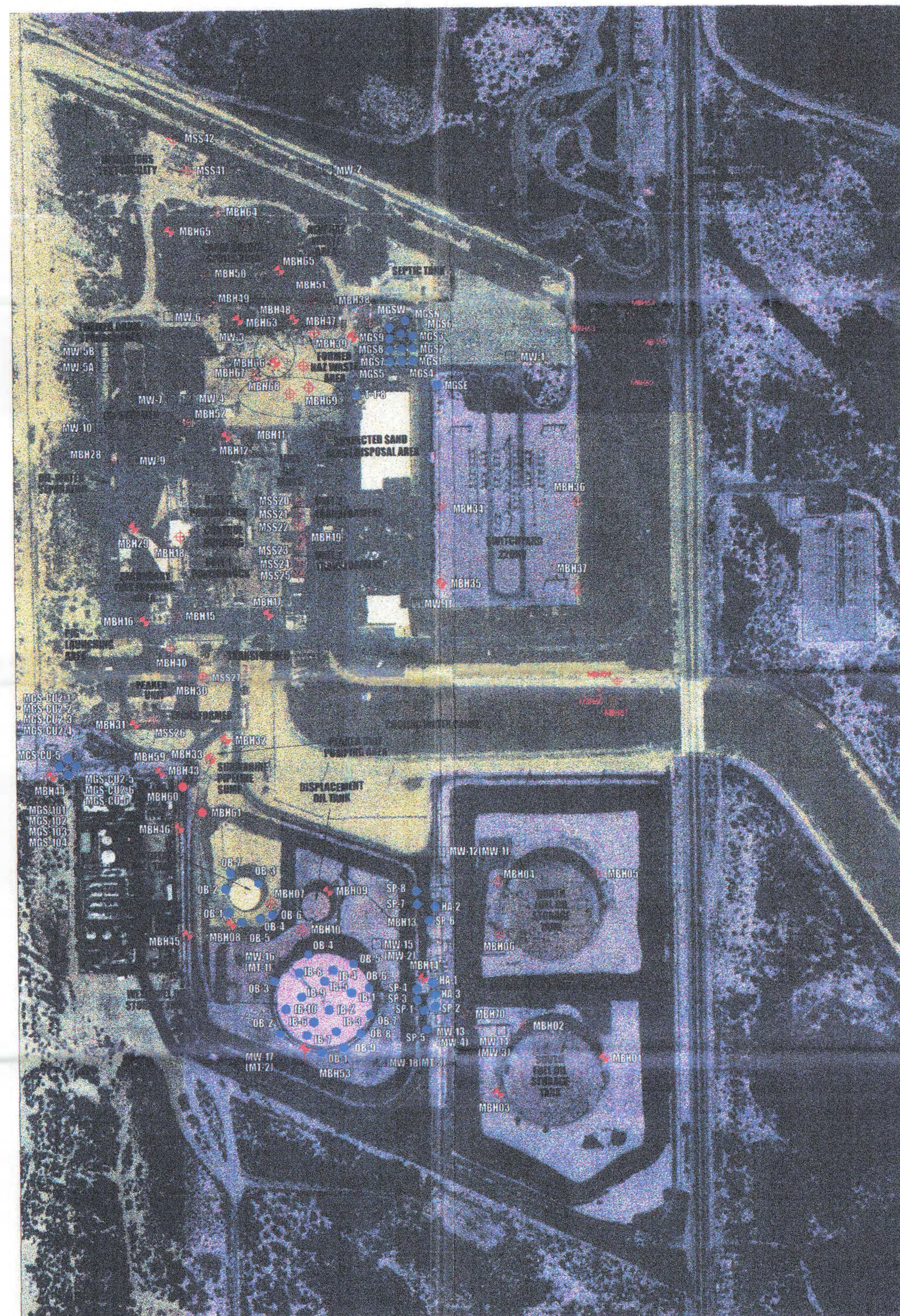


Figure 2
Facilities Map
Mandalay Generating Station
Edison Phase II ESA

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NOT TO SCALE

LEGEND

- PRE-EXISTING SOIL BORING DATA
- PRE-EXISTING MONITORING WELL (PARENTHESIS INDICATES PREVIOUS NAME)
- ⊕ PHASE II SOIL SAMPLING LOCATION
- PHASE II GROUNDWATER SAMPLING LOCATION
- ⊕ PHASE II SOIL AND GROUNDWATER SAMPLING LOCATION
- APPROXIMATE LIMIT OF DISPOSAL AREAS
- PROPERTY TO BE RETAINED (APPROX.)
- PROPERTY TO BE SOLD (APPROX.)

Figure 4
Sample Location Map
Mandalay Generating Station
Edison Phase II ESA

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