

LINDA LINGLE  
GOVERNOR OF HAWAII



STATE OF HAWAII  
DEPARTMENT OF HEALTH  
P. O. BOX 3378  
HONOLULU, HAWAII 96801-3378

*Refused*  
CHIYOME L. FUKINO, M.D.  
DIRECTOR OF HEALTH  
*after review all  
of the above  
please  
see  
me*  
In reply, please refer to:  
EMD/SHWB  
*WFO*

May 3, 2007

S0505JR

**CERTIFIED MAIL NO.: 7005 1160 0003 8276 1911  
RETURN RECEIPT REQUESTED**

**WARNING LETTER /  
REQUEST FOR INFORMATION**

Mr. Paul Burns, Vice President/General Manager  
Waste Management of Hawaii, Inc.  
92-460 Farrington Highway  
Kapolei, Hawaii 96707

**CERTIFIED MAIL NO: 7005 1160 0003 8276 1904  
RETURN RECEIPT REQUESTED**

The Honorable Eric Takamura, Director  
Department of Environmental Services  
City and County of Honolulu  
1000 Uluohia Street  
Kapolei, Hawaii 96707

07 MAY 14 P12:01

DEPARTMENT OF  
ENVIRONMENTAL SVCS

Dear Messrs. Burns and Takamura:

SUBJECT: Inspections at Waimanalo Gulch Sanitary Landfill  
Solid Waste Management Permit No. LF-0054-02  
Kapolei, Oahu

On March 7 and 14, 2007, representatives of the Hawaii Department of Health (DOH), Solid Waste Section (SWS) conducted inspections at Waimanalo Gulch Sanitary Landfill in accordance with Hawaii Revised Statutes (HRS) Section 342H-6. The purpose of the inspections were to observe the conditions of the facility during H-Power diversion and to determine compliance with HRS Chapter 342H, Hawaii Administrative Rules, Section 11-58.1-15, and the subject solid waste management permit. Copies of the inspection reports along with photographs are enclosed for your review. The reports describe the conditions at the facility at the time of the inspection, potential violations and area of concern.

KEEP IN DIVISION

During the inspection, Ms. Susan Pankenier, Environmental Protection Manager for Waste Management of Hawaii, Inc. (WMH), accompanied the inspectors on both occasions and provided documents related to the operation of the landfill.

The inspections identified potential violations and concerns that were identified during the recent inspection:

Mr. Paul Burns  
The Honorable Eric Takamura  
May 3, 2007  
Page 2

The following are potential violations identified during the recent inspection:

1. The facility continues to violate Special conditions III, Item 9 by exceeding permit grades on the placement of ash and MSW. While WMH and the City and County of Honolulu (City) submitted an application to modify its permit grades after the fact, the application was previously identified as incomplete. On February 14, 2007, SWS received another submission for the modification of permit grades and it is presently under review. The department has had a number of meetings with both the City and WMH on the matter and will continue to review the application.
2. MSW Cell 4B sump remains inaccessible and thus leachate monitoring has not been conducted, in violation of Special Condition III, Item 6 and General Conditions I, Items 9b and 9c. SWS personnel continue to meet to discuss the construction and drilling of the borehole and installation of MSW Cell 4B sump. On March 30, 2007, SWS notified WMH of our concurrence on the drilling of the pilot hole.
3. Inadequate soil cover was observed on the top deck and side slopes of the east, west and north areas of MSW Cell-11, including part of MSW Cell-10 top deck area. The side slopes and part of the top deck of MSW Cell-11 has since been corrected and covered with soil based on photographs submitted by WMH. SWS has not verified the adequacy of the corrective actions taken by WMH and a follow-up inspection will be conducted in the near future.

The following are concerns that SWS has in reference to the operation of the landfill:


1. Waste profile is not adequately reviewed for expiration date, source of waste, and types of chemicals utilized in the waste process. As an example, the waste profile for waste generated from the City and County Bus & Car Wash Sumps has an expiration date of 12/31/03, and cannot be determined if it is from the old or new bus station sumps. Please review the hazardous waste exclusion and special waste programs to ensure that current data are reviewed and fully evaluated to ensure compliance and proper management of the waste.
2. Limited mud-tracking prevention system, with the use of two mud strips during high traffic volumes. Please investigate the need to increase or complement the existing system.
3. Automated leachate measurements need validation to explain/correct discrepancy with manual readings. Please submit a description and dimensions (including elevations) of the ash sump and riser section, explain the discrepancy between the automated and manual readings and proposed corrective action.

Any deficiencies, which may be noted in this letter or the enclosed inspection reports, are not necessarily inclusive and any omissions shall not be construed as a determination of compliance with any applicable laws. Also, any omission to cite other violations is not intended to nor shall be binding upon the DOH.

Mr. Paul Burns  
The Honorable Eric Takamura  
May 3, 2007  
Page 3

Should you have any questions, please contact Mr. Jose Ruiz of the Solid and Hazardous Waste Branch at (808) 586-4226.

Sincerely,

  
FOR THOMAS E. ARIZUMI, P.E., CHIEF  
Environmental Management Division

Enclosures

c: Kathleen Ho, Deputy Attorney General  
Laurence Lau, Deputy Director for Environmental Health

DEPARTMENT OF HEALTH  
SOLID AND HAZARDOUS WASTE BRANCH  
OFFICE OF SOLID WASTE MANAGEMENT  
919 ALA MOANA BOULEVARD, ROOM 212  
HONOLULU, HAWAII 96814  
TEL. NO. 586-4226 FAX NO. 586-7509

### INSPECTION REPORT

**FACILITY NAME:** Waimanalo Gulch MSWLF and Ash Monofill

**INSPECTION DATE:** March 14, 2007

**PERMIT NUMBER:** LF0054-02

**ISSUED DATE:** May 15, 2003

**EXPIRATION DATE:** April 30, 2008

**PERMIT RENEWAL APPLICATION SUBMITTED:**

**PERMIT MODIFICATION APPLICATION SUBMITTED:**

**COMPLETED APPLICATION SUBMITTED:**

**MAILING ADDRESS:** Mr. Paul F. Burns, General Manager  
Waste Management of Hawaii, Inc.  
92-460 Farrington Highway, Kapolei, Hawaii 96707

**LOCATION ADDRESS:** 92-460 Farrington Highway  
Kapolei, Hawaii 96707

**PERSONS CONTACTED:** Suzan Pankenier, Environmental Protection Manager

**TELEPHONE NO.:** 808-668-2985

**INSPECTOR AND TITLE:** Jose Ruiz, EHS  
Janice Fujimoto, Environmental Engineer

**REPORT DATE:** March 27, 2007

**REASON FOR INSPECTION:**

- ROUTINE
- COMPLIANCE SCHEDULE
- PERMIT REQUIREMENT
- VARIANCE CONDITION
- COMPLAINT EXPLAIN:
- OTHER EXPLAIN:

**OBSERVATIONS / FINDINGS:**

On March 14, 2007, SWS inspectors Jose Ruiz and Janice Fujimoto, Engineer, visited the site and conducted a site inspection of Waimanalo Gulch MSWLF and Ash Monofill facility in accordance with Hawaii Revised Statutes (HRS), Section 342H-6. SWS

inspectors conducted the unannounced inspection at the landfill facility, which included a walk-thru and drive-thru of the landfill and ash monofill. The inspection was limited to the operation of the active work face and ash monofill area and did not include an overall compliance inspection of the facility to include closure planning documentation, groundwater monitoring, leachate analytical results, and financial assurance. Ms. Pankenier accompanied the inspector during the inspection and provided information and documents requested. Due to H-Power annual maintenance, WMH was scheduled to receive partial MSW diversion, and on the day prior to the site visit, WMH had received 1,200 tons of MSW.

**Ash Leachate and MSW Cell E-1 sumps**

SWS inspectors obtained readings from the electrical panel of the ash leachate sump (transducer), which indicated leachate level at 52 inches from the bottom of the sump to the top of the leachate level. The bubbler system indicated a reading of 52 inches of leachate in the ash sump system. The E cell sump was also checked and reading obtained from the transducer panel and bubbler showed 19 inches of leachate. Both of the leachate sumps level readings are within regulatory limits.

SW inspectors requested manual verification of leachate level for the ash leachate sump and a Solynst water meter was utilized to verify the leachate level. The instrument (plumb) was guided through the pipe and a sound alarm with a blinking light came on when the meter reached the leachate level. The top of the leachate level was measured at 71.3 feet from the top of the sump casing. The bottom of the sump (top of gravel within the sump) was measured at 77 feet from the top of the sump casing. The manual measurements indicate at least 5.7 feet of leachate was in the ash sump. SW inspectors requested that the automated system be verified and provide the actual sump depth and the height of the sump column to determine the difference in levels within the system.

**Ash Monofill landfill:** At the time of inspection, the ash monofill workforce area (cell-4) had received over 8 stockpiles of ash for the day. According to Ms. Pankenier, the ash monofill continues to be adequately covered with soil every Tuesday, and it appears to satisfy permit conditions.

**MSW Cell E-3, Active workforce area**

On March 14, 2007, SWS inspectors observed two compactors and one dozer working the active workforce area of MSW Cell E-3 (see photograph 3) during H-Power partial diversion. The workforce area was adequately compacted and maintained to a workable size by operators. Litter fences were observed around the perimeter of the cell without accumulated litter and were adequately maintained.

From the top of the ridge of Cell E-3 a few truckloads of sewage sludge were observed on the workforce of the cell to include a Roll-off truck containing sand grit. Due to the distinction of the waste, profile documents were requested for the sand grit and the document reviewed shows that the waste originated from the City & County Bus & Car Wash Sumps. It is not certain if the waste profile is for the new bus maintenance located in Manana or the old bus station formerly located in Halawa Industrial area. The generator waste profile does not indicate which bus station the waste was collected from and shows a profile renewal date of 12/31/2003, which we understand to mean the date when the profile expires and needs to be renewed. SWS' understanding is that the profile was filed for the old bus station and therefore, the profile should be updated to ensure effective implementation of the hazardous waste exclusion program and

special waste program. For future reference the description of the waste and location of waste origination should be included in the profile form.

Due to inclement weather from the night before and early morning, the road to the workface and workface area were muddy. The facility has a portable mud strip that consists of two panels and is placed on the top deck near the spotter (see photograph 4) to alleviate the transferring of mud into the highway. We question the effectiveness of the mud strip especially with increased traffic during diversion days. WMH should consider in obtaining additional mud strips on site during inclement weather or have a more active mud removal system.

#### **Construction of MSW Cell E-4 and deficiencies of soil cover**

Goodfellow Brothers, Inc., continues with the construction of the new E-4 cell and a large volume of soil was noted being mined from the cell slope (see photograph 13). Due to heavy equipment moving about the top deck of MSW Cell 11 and the new cell being built, part of the east, west and north slope areas of MSW Cell 11 were noted without adequate soil cover (see photographs 7-10). In addition, the top deck of MSW Cell 10/11 requires additional soil cover and crowned to prevent ponding water and promote water run-off (see photograph 5). The northeast side slope of MSW Cell 10 was adequately covered with intermediate soil and track-walked (see photograph 11). North, east, and west slopes of MSW Cell 11 were covered with soil and track-walked and photograph documented as of March 29, 2007, per e-mail received March 29, 2007 from Ms. Pankenier. In addition, Goodfellow Brothers Inc. is presently working on corrective actions for MSW Cell 10 to improve the grade in the area to promote water run-off. The repairs and corrective actions taken by WMH have not been verified by SWS and future inspection of the site will be conducted.

#### **Documents / Logs**

The following documents were requested during the inspection and copies were provided on site or faxed to SWS by WMH.

1. Expired profiles for waste generated by C&C Bus & Car Wash Sumps
2. Profile for pipeline excavation on Nimitz Highway
3. Daily Equipment Inspection Log for dozer and Bomag compactor (faxed)
4. Load Check Data sheet

#### **Potential Violations:**

1. Portions of Ash and MSW cells remains overfilled; MSW Cell 1 overfilled above permit grades.
2. MSW 4B sump remains inaccessible.
3. Inadequate soil cover was observed on the top deck and side slopes of the east, west and north areas of MSW Cell-11, including part of MSW Cell-10 top deck area. The side slopes and part of the top deck of MSW Cell-11 has been corrected and covered with soil based on photographs submitted by WMH. SWS have not verified the adequacy of the corrective actions taken by WMH and a follow-up inspection will be conducted in the near future.

#### **Areas of Concern:**

The following are concerns that SWS has in reference to the operation of the landfill:

1. Waste profile is not being adequately reviewed for expiration date and location of

the facility to include chemicals utilized in the waste process. As an example, the waste generated from the City and County Bus & Car Wash Sumps cannot be determined if it is from the old or new bus station sumps.

2. Limited number of mud strips, and its effectiveness, especially on waste diversion days.
3. Automated leachate measurements need validation to explain/correct discrepancy with manual readings.

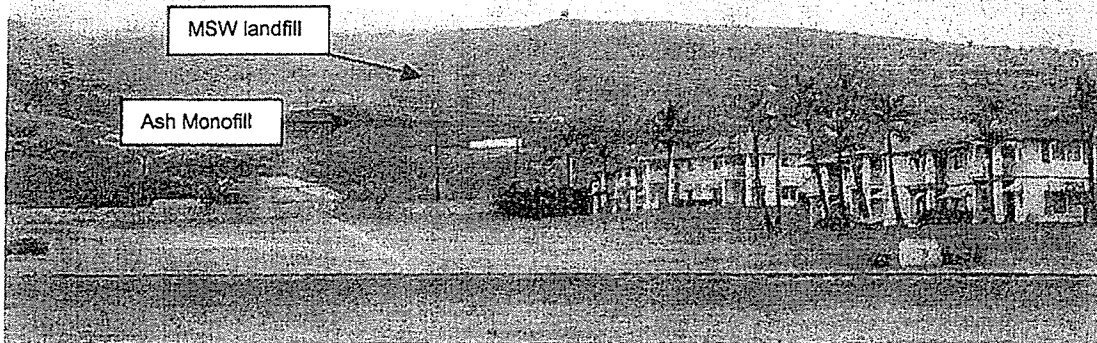
**VIOLATIONS:**

- HAWAII REVISED STATUTES
- HAWAII ADMINISTRATIVE RULES TITLE 11 CHAPTER 58.1
- COMPLIANCE SCHEDULE
- PERMIT CONDITION
- VARIANCE CONDITION
- OTHER
- NONE

FOLLOW-UP NEEDED: YES (x)      WHEN: as needed  
WHY: To ensure compliance with permit conditions

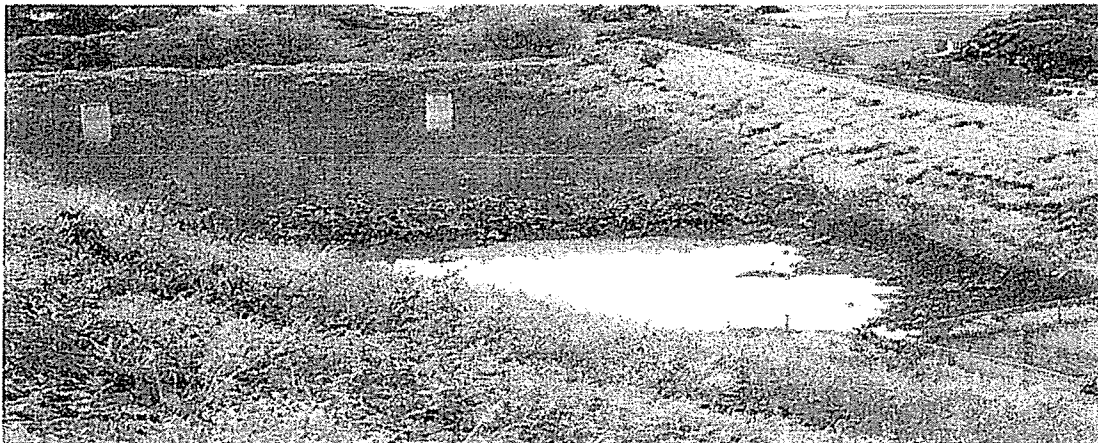
NO ( )

**LIST OF ATTACHMENTS:**      Photos



**Photograph 1**

**Site Name:** Waimanalo Gulch MSWLF and Ash Monofill  
**Location:** 92-460 Farrington Highway, Kapolei, Hawaii 96707  
**Date Taken:** March 14, 2007  
**Photographer:** JRuiz  
**Description:** View of the ash monofill and MSW landfill from KoOlina.



**Photograph 2**

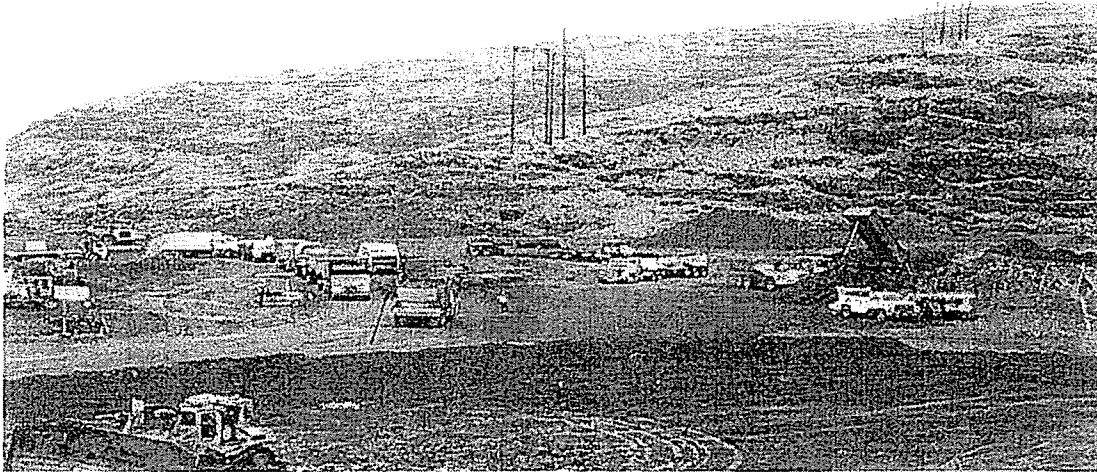
**Site Name:** Waimanalo Gulch MSWLF and Ash Monofill  
**Location:** 92-460 Farrington Highway, Kapolei, Hawaii 96707  
**Date Taken:** March 14, 2007  
**Photographer:** JRuiz  
**Description:** Siltation pond area with some rainwater from previous day rain.





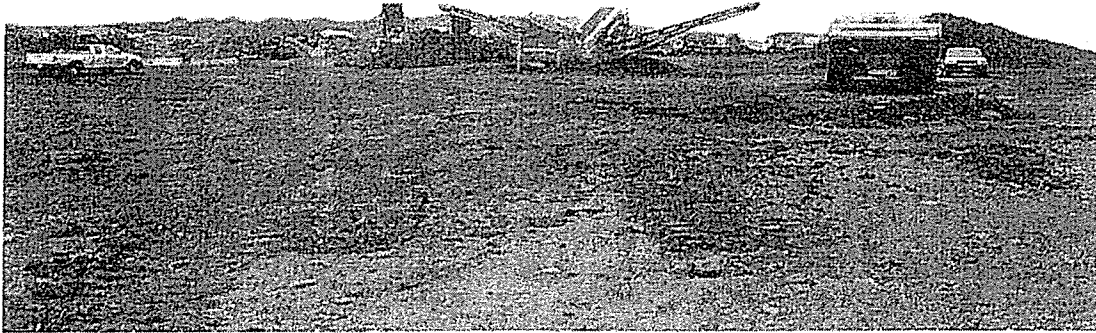
**Photograph 3**

**Site Name:** Waimanalo Gulch MSWLF and Ash Monofill  
**Location:** 92-460 Farrington Highway, Kapolei, Hawaii 96707  
**Date Taken:** March 14, 2007  
**Photographer:** JRuiz  
**Description:** View of the active workforce (Cell E-3) area for MSW during partial diversion from H-Power with two compactors and one dozer operating the workforce area.



**Photograph 4**

**Site Name:** Waimanalo Gulch MSWLF and Ash Monofill  
**Location:** 92-460 Farrington Highway, Kapolei, Hawaii 96707  
**Date Taken:** March 14, 2007  
**Photographer:** JRuiz  
**Description:** Spotter directing traffic to the workforce area. The ground is muddy due to heavy rain earlier in the day and a mud strip for trucks leaving the workforce is located somewhere within the red arrow.



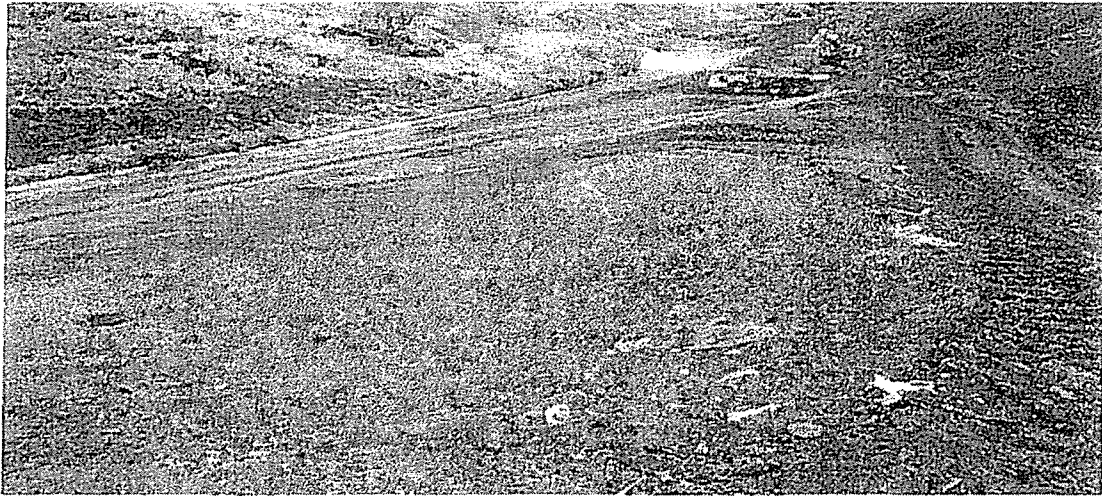
**Photograph 5**

**Site Name:** Waimanalo Gulch MSWLF and Ash Monofill  
**Location:** 92-460 Farrington Highway, Kapolei, Hawaii 96707  
**Date Taken:** March 14, 2007  
**Photographer:** JRuiz  
**Description:** MSW Cell 11 not adequately crowned with soil cover and with potential of ponding water.



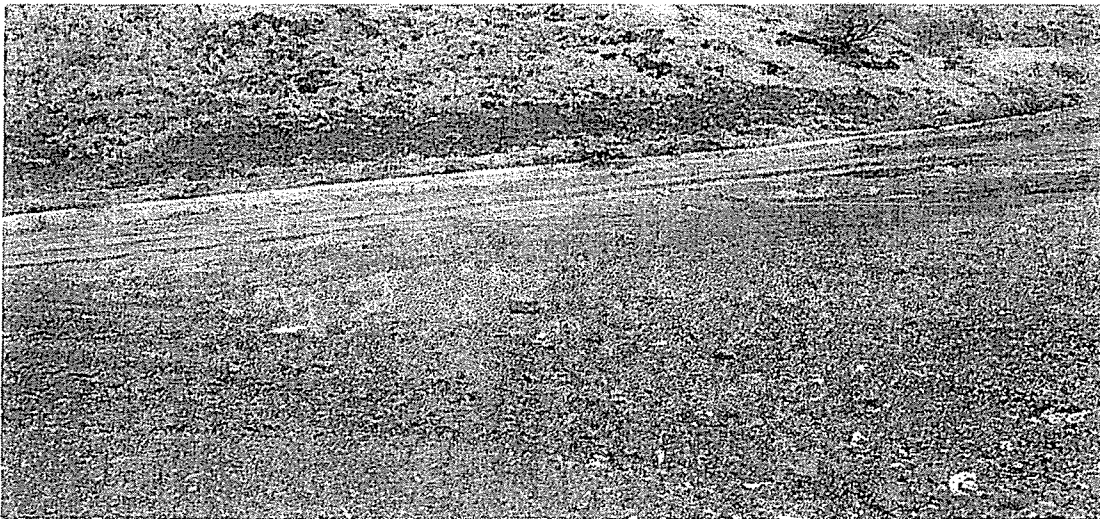
**Photograph 6**

**Site Name:** Waimanalo Gulch MSWLF and Ash Monofill  
**Location:** 92-460 Farrington Highway, Kapolei, Hawaii 96707  
**Date Taken:** March 14, 2007  
**Photographer:** JRuiz  
**Description:** The stormwater channel located at the top side of MSW Cell-11 to divert run on water was previously identified for not having a safety fence around the perimeter of the channel area. As a temporary corrective action, an orange plastic fence has been placed on the perimeter of the stormwater channel area.



**Photograph 7**

**Site Name:** Waimanalo Gulch MSWLF and Ash Monofill  
**Location:** 92-460 Farrington Highway, Kapolei, Hawaii 96707  
**Date Taken:** March 14, 2007  
**Photographer:** JRuiz  
**Description:** A large portion of the northwest side slope of MSW Cell-11 with exposed waste and inadequately covered with intermediate soil.



**Photograph 8**

**Site Name:** Waimanalo Gulch MSWLF and Ash Monofill  
**Location:** 92-460 Farrington Highway, Kapolei, Hawaii 96707  
**Date Taken:** March 14, 2007  
**Photographer:** JRuiz  
**Description:** Northwestern side slope of MSW Cell 11 with exposed trash and not adequately covered with intermediate soil.



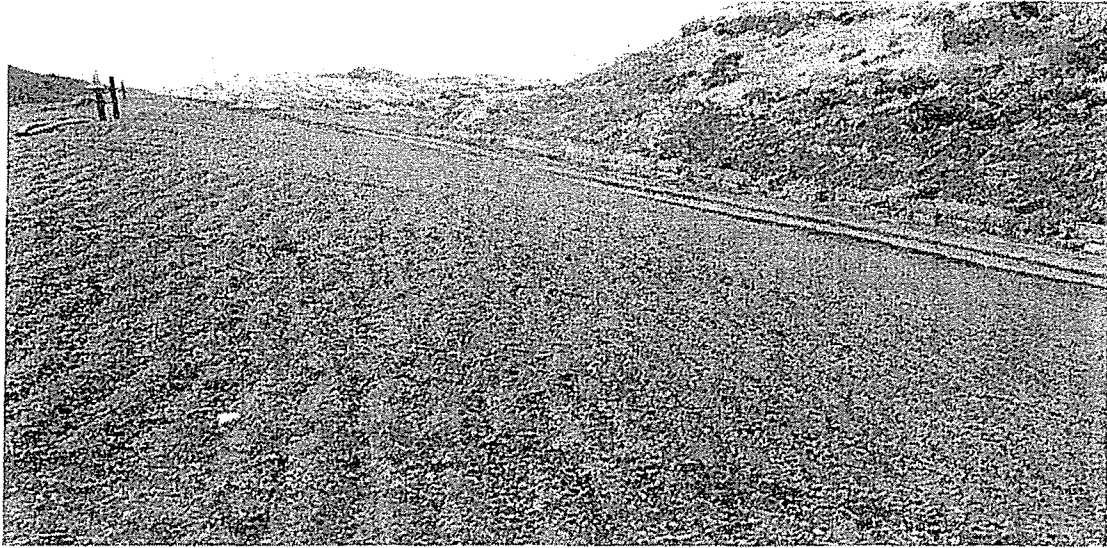
**Photograph 9**

**Site Name:** Waimanalo Gulch MSWLF and Ash Monofill  
**Location:** 92-460 Farrington Highway, Kapolei, Hawaii 96707  
**Date Taken:** March 14, 2007  
**Photographer:** JRuiz  
**Description:** A large portion of the northwest side slope of MSW Cell 11 with exposed trash and other exposed debris.



**Photograph 10**

**Site Name:** Waimanalo Gulch MSWLF and Ash Monofill  
**Location:** 92-460 Farrington Highway, Kapolei, Hawaii 96707  
**Date Taken:** March 14, 2007  
**Photographer:** JRuiz  
**Description:** Another view of the northwest side slope of MSW Cell 11 with exposed trash and debris.



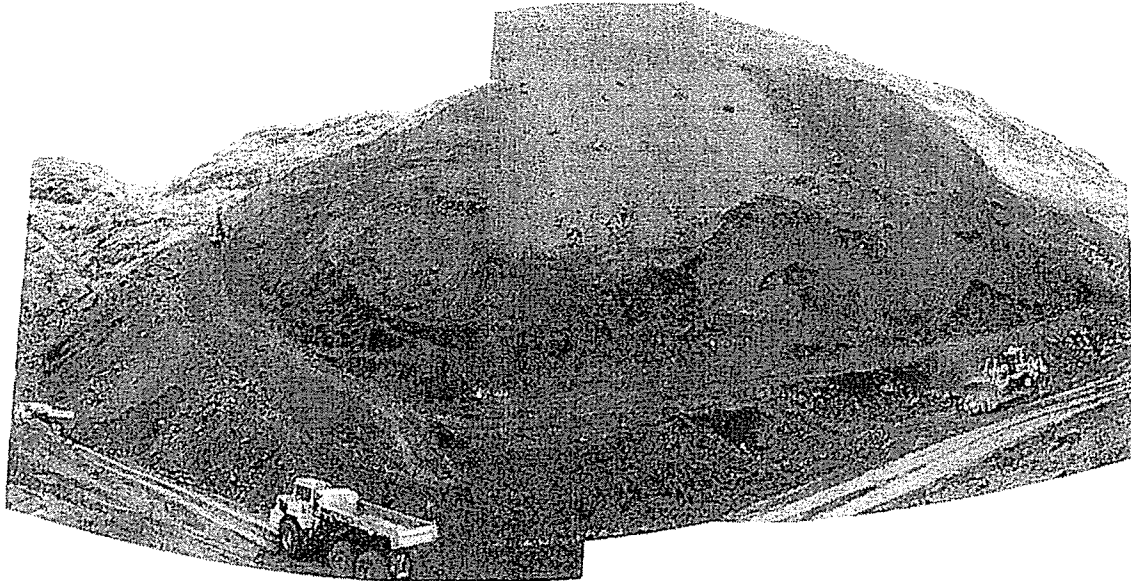
**Photograph 11**

**Site Name:** Waimanalo Gulch MSWLF and Ash Monofill  
**Location:** 92-460 Farrington Highway, Kapolei, Hawaii 96707  
**Date Taken:** March 14, 2007  
**Photographer:** JRuiz  
**Description:** View of the northeast side slope of MSW Cell 10, well covered with intermediate soil and track-walked.



**Photograph 12**

**Site Name:** Waimanalo Gulch MSWLF and Ash Monofill  
**Location:** 92-460 Farrington Highway, Kapolei, Hawaii 96707  
**Date Taken:** March 14, 2007  
**Photographer:** JRuiz  
**Description:** View of Ash Cell-4 workforce area on the background from top of E-2 leachate sump area.



**Photograph 13**

**Site Name:**

Waimanalo Gulch MSWLF and Ash Monofill

**Location:**

92-460 Farrington Highway, Kapolei, Hawaii 96707

**Date Taken:**

March 14, 2007

**Photographer:**

JRuiz

**Description:**

Composite photographs of the E-4 cell slope being mined by Goodfellow Brothers Inc. with large amount of soil cover being excavated from the recently mined area.

DEPARTMENT OF HEALTH  
SOLID AND HAZARDOUS WASTE BRANCH  
OFFICE OF SOLID WASTE MANAGEMENT  
919 ALA MOANA BOULEVARD, ROOM 212  
HONOLULU, HAWAII 96814  
TEL. NO. 586-4226 FAX NO. 586-7509

**INSPECTION REPORT**

**FACILITY NAME:** Waimanalo Gulch MSWLF and Ash Monofill

**INSPECTION DATE:** March 7, 2007

**PERMIT NUMBER:** LF0054-02

**ISSUED DATE:** May 15, 2003

**EXPIRATION DATE:** April 30, 2008

**PERMIT RENEWAL APPLICATION SUBMITTED:**

**PERMIT MODIFICATION APPLICATION SUBMITTED:**

**COMPLETE APPLICATION SUBMITTED:**

**MAILING ADDRESS:** Mr. Paul F. Burns, General Manager  
Waste Management of Hawaii, Inc.  
92-460 Farrington Highway, Kapolei, Hawaii 96707

**LOCATION ADDRESS:** 92-460 Farrington Highway  
Kapolei, Hawaii 96707

**PERSONS CONTACTED:** Suzan Pankenier, Environmental Protection Manager

**TELEPHONE NO.:** 808-668-2985

**INSPECTOR AND TITLE:** Jose Ruiz, EHS

**REPORT DATE:** March 13, 2007

**REASON FOR INSPECTION:**

- ROUTINE
- COMPLIANCE SCHEDULE
- PERMIT REQUIREMENT
- VARIANCE CONDITION
- COMPLAINT EXPLAIN:
- OTHER EXPLAIN:

**OBSERVATIONS / FINDINGS:**

On March 7, 2007, SWS inspector, Jose Ruiz visited the site to observe WMH personnel manage complete solid waste diversion from H-power that has been taking place for the past week. H-power is conducting their annual maintenance of their

boilers and WGLF is accepting full and partial solid waste diversion for the next three weeks. The inspections were conducted early morning and late afternoon until closure. WMH had received 2,753 tons of MSW the day before.

The site inspections of Waimanalo Gulch MSWLF and Ash Monofill facility were conducted in accordance with Hawaii Revised Statutes (HRS), Section 342H-6. SWS inspector conducted the unannounced inspection's at the landfill facility, which included a walk-thru and drive-thru of the landfill and ash monofill. The inspections were limited to the operation of the active work face and ash monofill areas and do not include an overall compliance inspection of the facility to include closure planning documentation, groundwater monitoring, leachate analytical results, and financial assurance. Ms. Pankenier accompanied the inspector during the inspections and provided information and documents requested.

#### **Ash Leachate and MSW Cell E-1 sumps**

SWS inspector obtained readings from the electrical panel of the ash leachate sump (transducer), which indicated leachate level at 53 inches from the bottom of the sump to the top of the leachate level. The bubbler system indicated a reading of 52 inches of leachate in the ash sump system. The E cell sump was also checked and readings obtained from the transducer and bubbler panels showed 16 inches of leachate. Both of the leachate sumps level readings were within regulatory limits.

**Ash Monofill landfill:** At the time of inspection, a Covanta truck from H-Power was discharging ash onto the monofill workface area of Cell-2 (see photograph 1). Approximately seven stockpiles of ash had been received at the monofill for the day. The previous workface area located in Cell-8 was covered the day before with intermediate soil and appears to satisfy permit conditions (see photograph 2). From top of E-cell leachate sump, a D-6 dozer was observed grading the ash workface area (see photograph 5).

#### **MSW Cell E-3, Active workface area**

On the morning of March 7, 2007, WMH was scheduled to receive full H-Power solid waste diversion. SWS inspectors observed two dozers (D-7 & D-9) and one bomac compactor working the active workface area of MSW Cell E-3 (see photographs 3& 4). No flying litter was observed from the east ridge of the cell and litter fences were observed and effectively placed for flying litter on the E-Cell perimeter.

The inspector conducted a second inspection of the landfill after the landfill was closed for the day. The dozer operator had already covered a large portion of the workface area and four litter pickers were observed collecting litter from the covered area (see photographs 6 & 7). Semi-trucks were also observed delivering soil cover to the workface area for daily cover of the workface (see photograph 8). The day's workface area was adequately covered with soil at 6:30 PM (see photograph 10).

#### **Construction of MSW Cell E-4**

Goodfellow Brothers, Inc., continues to construct MSW Cell E-4 by excavating the material from the ridge slope and pushing the excavated material down the slope to the bottom of the cell during the evening hours.

#### **Potential Violations:**

1. Portions of Ash and MSW cells remains overfilled; MSW Cell 1 overfilled



- above permit grades.  
2. MSW 4B sump remains inaccessible.

**Areas of Concern:**

**VIOLATIONS:**

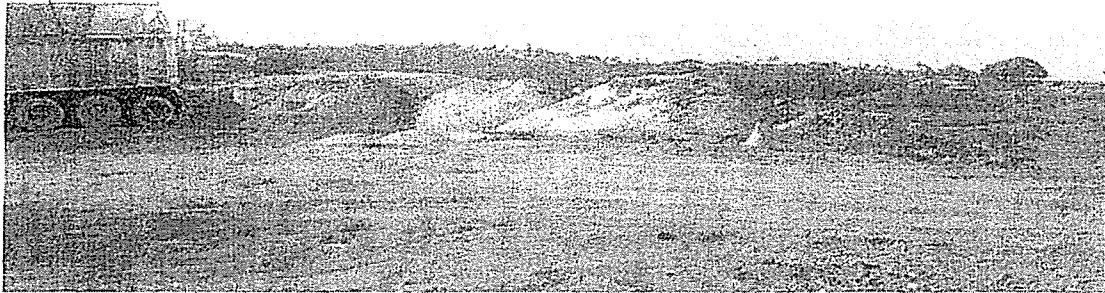
- HAWAII REVISED STATUTES
- HAWAII ADMINISTRATIVE RULES TITLE 11 CHAPTER 58.1
- COMPLIANCE SCHEDULE
- PERMIT CONDITION
- VARIANCE CONDITION
- OTHER
- NONE

FOLLOW-UP NEEDED: YES (x)

WHEN: as needed

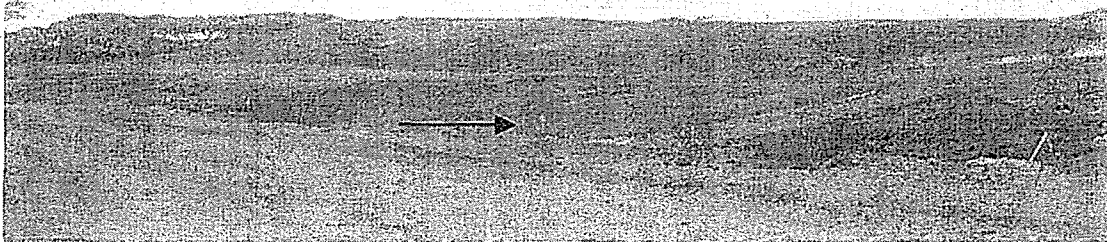
WHY: To ensure compliance with permit conditions

LIST OF ATTACHMENTS: NO ( )  
Photos



**Photograph 1**

**Site Name:** Waimanalo Gulch MSWLF and Ash Monofill  
**Location:** 92-460 Farrington Highway, Kapolei, Hawaii 96707  
**Date Taken:** March 7, 2007  
**Photographer:** JRuiz  
**Description:** Ash monofill cell workface area in cell-2, after the inspection the ash stockpile was graded with a D-6 dozer.



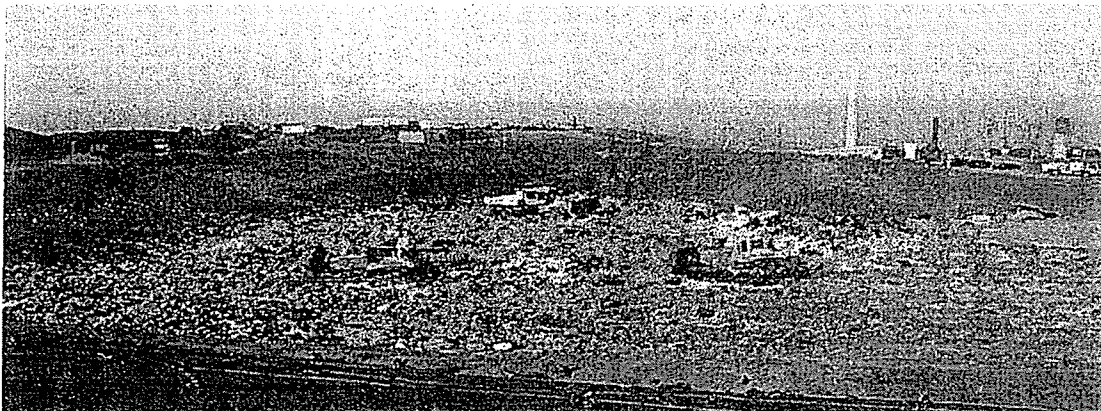
**Photograph 2**

**Site Name:** Waimanalo Gulch MSWLF and Ash Monofill  
**Location:** 92-460 Farrington Highway, Kapolei, Hawaii 96707  
**Date Taken:** March 7, 2007  
**Photographer:** JRuiz  
**Description:** Former workface area adequately covered the previous day.



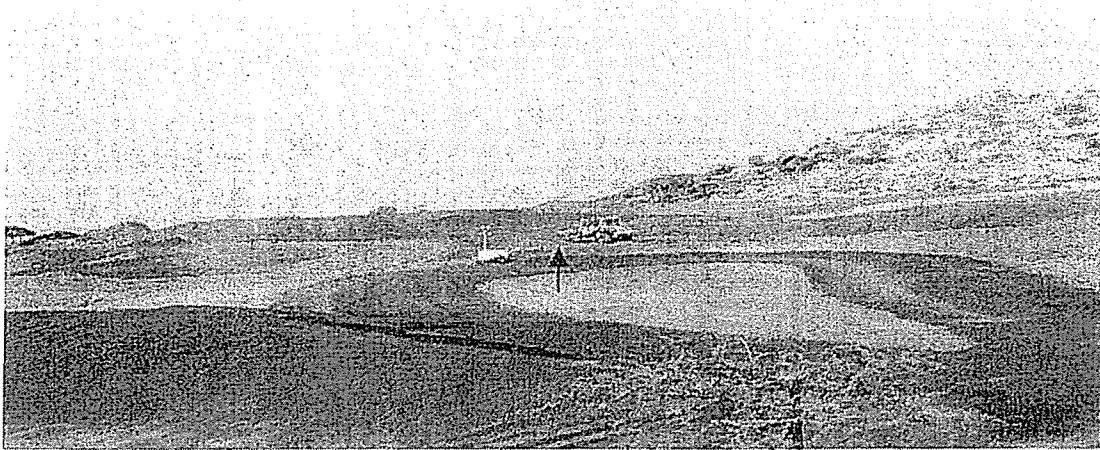
**Photograph 3**

**Site Name:** Waimanalo Gulch MSWLF and Ash Monofill  
**Location:** 92-460 Farrington Highway, Kapolei, Hawaii 96707  
**Date Taken:** March 7, 2007  
**Photographer:** JRuiz  
**Description:** MSW Cell E-3 during full H-Power diversion with two dozers and one compactor handling the waste. Litter fences were placed adequately within the cell perimeter.



**Photograph 4**

**Site Name:** Waimanalo Gulch MSWLF and Ash Monofill  
**Location:** 92-460 Farrington Highway, Kapolei, Hawaii 96707  
**Date Taken:** March 7, 2007  
**Photographer:** JRuiz  
**Description:** Another view of Cell E-3 workforce area during full H-Power diversion.



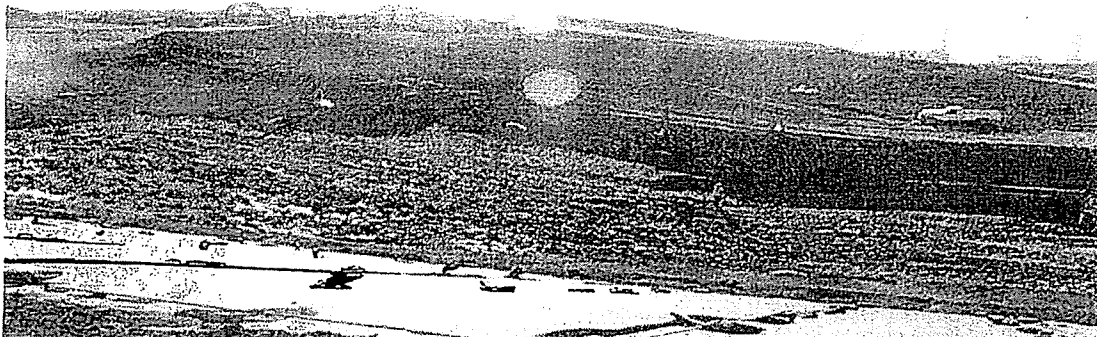
**Photograph 5**

**Site Name:** Waimanalo Gulch MSWLF and Ash Monofill  
**Location:** 92-460 Farrington Highway, Kapolei, Hawaii 96707  
**Date Taken:** March 7, 2007  
**Photographer:** JRuiz  
**Description:** Ash monofill workface area being graded with a D-6 dozer.



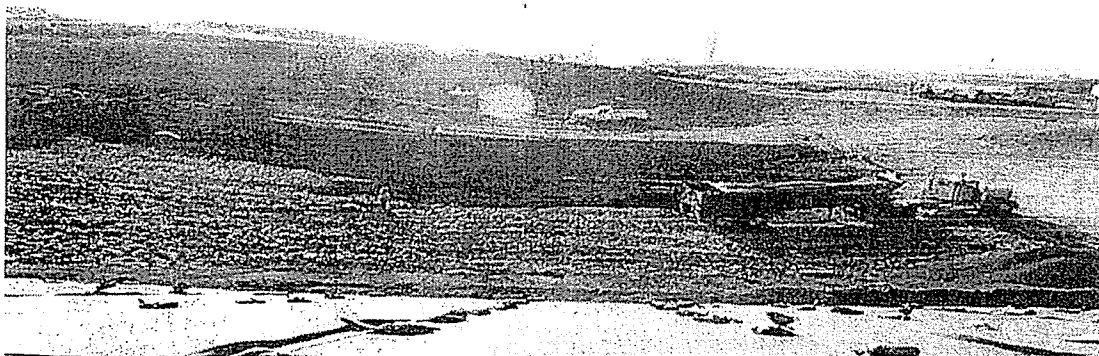
**Photograph 6**

**Site Name:** Waimanalo Gulch MSWLF and Ash Monofill  
**Location:** 92-460 Farrington Highway, Kapolei, Hawaii 96707  
**Date Taken:** March 7, 2007  
**Photographer:** JRuiz  
**Description:** Cell E-3 workface area at 5:00 PM, after landfill closure.



**Photograph 7**

**Site Name:** Waimanalo Gulch MSWLF and Ash Monofill  
**Location:** 92-460 Farrington Highway, Kapolei, Hawaii 96707  
**Date Taken:** March 7, 2007  
**Photographer:** JRuiz  
**Description:** Another view of Cell E-3 with soil cover being placed and litter pickers working the area (arrow).



**Photograph 8**

**Site Name:** Waimanalo Gulch MSWLF and Ash Monofill  
**Location:** 92-460 Farrington Highway, Kapolei, Hawaii 96707  
**Date Taken:** March 7, 2007  
**Photographer:** JRuiz  
**Description:** Additional soil cover being delivered to the workforce area at the end of the day.



**Photograph 9**

**Site Name:** Waimanalo Gulch MSWLF and Ash Monofill  
**Location:** 92-460 Farrington Highway, Kapolei, Hawaii 96707  
**Date Taken:** March 7, 2007  
**Photographer:** JRuiz  
**Description:** Dozer operator covering the MSW at the end of the day.



**Photograph 10**

**Site Name:** Waimanalo Gulch MSWLF and Ash Monofill  
**Location:** 92-460 Farrington Highway, Kapolei, Hawaii 96707  
**Date Taken:** March 7, 2007  
**Photographer:** JRuiz  
**Description:** MSW Cell E-3 completely covered with adequate soil at the end of the day (6:30 PM).