Hydraulic Hoist Closure Assessment

Oneawa Union 76 Service Station
153 Oneawa Street
Kailua, Hawaii 96734

TMK No. (1) 4-3-059:087

Environmental Science International
56 Oneawa Street, Suite 103
Kailua, Hawaii 96734
(808) 261-0740 phone / (808) 261-0749 fax

Hydraulic Hoist Closure Assessment

Oneawa Union 76 Service Station
153 Oneawa Street
Kailua, Hawaii 96734

TMK No. (1) 4-3-059:087

DOH HEER Case No. 20070813-1554

Prepared for:

Mid Pac Petroleum
Topa Financial Center
677 Ala Moana Boulevard, Suite 625
Honolulu, HI 96813-5419

Prepared by:

Travis P. Hiramoto
Environmental Scientist

Environmental Science International
56 Oneawa Street, Suite 103
Kailua, Hawaii 96734

Project No. 107062

October 11, 2007

TABLE OF CONTENTS

LIST OF TABLES

LIST OF FIGURES

LIST OF APPENDICES

LIST OF ACRONYMS

amsl	above mean sea level
bgs	below ground surface
DOH	Department of Health, State of Hawaii
EAL	Environmental Action Level
EPA	Environmental Protection Agency
ESI	Environmental Science International, Inc.
HEER	Hazard Evaluation and Emergency Response
HMR	Hawaii Metal Recycling
LFR	Levine-Fricke, Inc.
M. Nakai	M. Nakai, Inc.
MRL	Method Reporting Level
PAH	Polycyclic Aromatic Hydrocarbon
PCB	Polychlorinated Biphenyls
PHC	petroleum hydrocarbon
PID	Photo-Ionization Detector
ppm	parts per million
PSC	Phillips Services Corporation
SSI	Schnitzer Steel, Industries
TMK	Tax Map Key
TPH-o	Total Petroleum Hydrocarbons as oil
UIC	Underground Injection Control
UST	Underground Storage Tank
VOC	Volatile Organic Compound

EXECUTIVE SUMMARY

The following report describes the removal and permanent closure of three single post hydraulic hoists. ESI oversaw the removal and closure of the hydraulic hoists and performed the closure assessment on behalf of Mid Pac Petroleum. The hoists were located at the Oneawa Union 76 Service Station, which is located at 153 Oneawa, Kailua, Hawaii [Tax Map Key No. (1) 4-3-059:087]. The DOH HEER Case No. is 20070813-1554.

The hydraulic hoist systems consisted of three self contained single-post hydraulic hoists (hoists H1, H2, and H3). The three single-pole hoists were located in the middle of the service bay.

On August 1, 2007, the area around each hoist was excavated and the hoists removed from the ground. The hoists extended from the ground surface to approximately 7.0 feet bgs. The hoists were removed from the ground and placed on 6-mil plastic sheeting.

The depth of the excavations at H1, H2, and H3 extended to approximately 7.0 feet bgs. Groundwater was not encountered during the excavations. No petroleum hydrocarbon odor or staining were observed in the soil surrounding and beneath the hoists.

On August 1, 2007, three verification soil samples (samples H1-7.0, H2-7.0, and H3-7.0) were collected. The three soil samples were collected at 7.0 feet bgs (directly beneath each hydraulic hoist post). The samples were analyzed for the DOH chemical constituents of concern for hydraulic oil. The samples were analyzed for TPH-o, PAHs, and PCBs. TPH-o (150 ppm) was detected in one sample (H1-7.0). None of the other chemical constituents analyzed for were detected. No chemical constituents were detected at concentrations above DOH EALs.

Based on the results of the closure assessment, ESI concludes that a minor release of hydraulic oil has occurred from the H1 hydraulic hoist, however, the contaminant (TPH-o) is below DOH EALs. The nearest drinking water well is approximately 2.5 miles from the Station, therefore, it is unlikely that contaminants originating at the Station have impacted or could impact drinking water sources. Also, it is unlikely that contaminants pose a threat to sensitive ecological receptors because the source of contamination has been removed. The impacted soil is greater than 7.0 feet bgs, which prevents human contact with potentially impacted soils, thereby essentially eliminating direct exposure routes. Based on these observations, ESI concludes that it is unlikely that contaminants originating at the Station pose a threat to human health or the environment.

Based on our conclusions, ESI does not recommend that additional subsurface soil investigation or remediation be performed. We recommend that a copy of this report be submitted to the DOH and that a copy be maintained at Mid Pac Petroleum.

SECTION 1 - INTRODUCTION

This report describes the removal and permanent closure of three single post hydraulic hoists at the Oneawa Union 76 Service Station, which is located at 153 Oneawa Street, Kailua, Hawaii, hereinafter referred to as the "Station" (Tax Map Key [TMK] No. (1) 4-3-059:087). The State of Hawaii Department of Health [DOH] Hazard Evaluation and Emergency Response [HEER] Case No. is 20070813-1554. Environmental Science International, Inc. [ESI], oversaw the removal and closure of the hydraulic hoists and performed the closure assessment. This assessment was conducted on behalf of Mid Pac Petroleum.

Photographic documentation is provided in Appendix A. The laboratory analytical reports are provided in Appendix B. The waste disposition forms are provided in Appendix C.

1.1 SITE DESCRIPTION

The Station is located adjacent and above the underground injection control [UIC] line, at a surface elevation of approximately 10 feet above mean sea level [amsl]. It is bounded on the south by a parking lot, on the east by Oneawa Street, on the north by Kawainui Street, and on the west by a residential building. The nearest surface body of water is Kawainui Marsh, which is approximately 0.20 miles to the west.

The Station is paved with concrete and asphalt and it consists of a station building, four fuel dispenser islands, and two 12,000-gallon capacity [USTs] used to store supreme unleaded gasoline (92 octane) and regular unleaded gasoline (87 octane). The gasoline USTs are located on the north side of the fuel dispenser islands. At the time of the hoist removals, the Station was in operation and the two USTs were listed by the DOH as *Currently in Use*.

Groundwater in the area of the Station, which is part of the Waimanalo Aquifer System of the Windward Aquifer Sector, resides in sedimentary deposits and is not a drinking water source (Mink and Lau, 1990). The water table beneath the Station may be tidally influenced, owing to its relative proximity from the ocean and surrounding bodies of water. In the general area of the Station, the direction of groundwater flow is flat throughout the Station. The Station is located approximately 2.5 miles from the nearest drinking water well.

1.2 BACKGROUND

Based on available information, the Station commenced operation in 1959, following the installation of a 5,000-gallon and a 7,500-gallon gasoline UST, a 550-gallon waste oil UST, and a 1,200-gallon septic tank and cesspool. In 1971, the two gasoline USTs were removed during the expansion of the Station, and replaced with two 10,000-gallon USTs. The 550-gallon waste oil UST was also abandoned at the same time. The waste oil UST was closed in place. The closures were not documented or the closure reports could not be located. The two 10,000-gallon USTs originally contained leaded gasoline products. In 1975, the "Regular" leaded gasoline UST was converted to unleaded. In 1987, the "High-Octane" leaded gasoline UST was converted to unleaded. In March 1991, two 12,000-gallon USTs were installed and replaced the

two 10,000-gallon USTs. The DOH issued a determination of *No Further Action* for the closure of the two 10,000-gallon USTs on August 13, 1996.

On November 9, 1995, a 350-gallon used oil UST was removed and permanently closed (Levine-Fricke [LFR], 1996). During the closure, a small volume of stained soil was observed. None of the chemical constituents detected in the verification soil samples collected from the UST excavation were at concentrations above DOH action levels. On August 13, 1996, the DOH issued a determination of *No Further Action* for the 350-gallon used oil UST. The installation of the 350-gallon used oil UST was not documented.

SECTION 2 – HYDRAULIC HOIST EXCAVATION AND REMOVAL

On August 1, 2007, ESI personnel (Mr. Travis P. Hiramoto) observed and documented the removal and permanent closure of three single post hydraulic hoists. Prior to removal, the hydraulic oil in each hydraulic hoist system was removed. The purpose of the hydraulic hoist closures was to remove the hoists from the ground and determine if a release had occurred.

2.1 HYDRAULIC HOIST SYSTEMS

The hydraulic hoist systems consisted of three single-post hydraulic hoists (hoists H1, H2, and H3). The three single-post hoists were located in the middle of the service bay, adjacent to one another. The locations of the hoists are shown in Figure 3.

The three hoists were self contained single-post hydraulic hoist systems. Each hoist measured approximately 1.2 feet in diameter and 7.0 feet in length. No holes or leaks were observed in the hoists. The hydraulic hoist specifications are listed in Table 2.1.

TABLE 2.1
Hydraulic Hoist Specifications
Oneawa Union 76 Service Station
Hydraulic Hoist Closure Assessment

Hydraulic Hoist	Type	Dimensions (diameter x length)	External Tank	Date Removed
H1	single post	1.2 x 7.0	no	8/1/2007
H2	single post	1.2 x 7.0	no	8/1/2007
H3	single post	1.2 x 7.0	no	8/1/2007

Dimensions measured in feet.

2.2 HYDRAULIC HOIST EXCAVATIONS

On August 1, 2007, under the supervision of ESI personnel (Mr. Travis P. Hiramoto), M. Nakai, Inc. [M. Nakai], excavated the area around each hoist (H1, H2, and H3) and removed the hoists from the ground (Photograph 1). The hoists extended from ground surface to approximately 7 feet below ground surface. The hoists were removed from the ground and placed on 6-mil plastic sheeting (Photograph 2).

The subsurface soil around each hoist consisted of a brown basecourse fill material from the ground surface to approximately 0.5 feet bgs. Underlying the brown basecourse fill material was a layer of brown silty sand (from approximately 0.5 to 7.0 bgs). Groundwater was not encountered during the excavations. No petroleum hydrocarbon odor or staining were observed in the soil surrounding and beneath the hoists (Photograph 3).

The excavated soil was temporarily stockpiled at the Station. The excavated soil was used to backfill the excavations (Photograph 4).

2.3 HYDRAULIC HOIST DISPOSAL

Following the removal of the hoists, each hoist was properly cleaned, triple-rinsed, and placed on 6-mil plastic sheeting (Photograph 2). On August 1, 2007, the three hoists were loaded onto a flat-bed truck and transported by Phillips Services Corporation [PSC] to Schnitzer Steel Industries [SSI] (formerly Hawaii Metal Recycling [HMR]). The waste disposal manifests are included in Appendix C.

2.4 REMOVAL OF HYDRAULIC OIL

On August 1, 2007, prior to the removal of each hoist, PSC personnel opened the top of each hoist and removed the hydraulic oil from each hoist using a pump. The hydraulic oil from each hoist was pumped into two 55-gallon drums. A total of 110-gallons of hydraulic oil were removed from the three hoists. The waste disposal manifests are included in Appendix C.

SECTION 3 - VERIFICATION SOIL SAMPLING

On August 1, 2007, ESI personnel (Mr. Travis P. Hiramoto) collected three verification soil samples from the soil beneath each hoist. The purpose of the soil sampling was to determine if there had been releases from the hydraulic hoists.

3.1 FIELD MEASUREMENTS

A photo-ionization detector [PID] (miniRAE 2000) was used to monitor volatile organic compound [VOC] vapors in soil. Prior to use, the PID was calibrated using a 100 parts per million [ppm] isobutylene standard. A soil sample was collected at 7.0 feet bgs beneath each hydraulic hoist post, and analyzed for VOC vapors with the PID using the ambient temperature headspace method. The samples were placed into Ziploc bags and allowed to equilibrate for approximately 15 minutes, after which the PID probe tip was inserted into the bags and a measurement made. VOC vapors were detected (0.0 to 0.1 ppm) in the samples collected from 7.0 feet bgs. Table 3.1 lists the results.

TABLE 3.1
PID Measurement of VOCs in Verification Soil Sample (August 1, 2007)
Oneawa Union 76 Service Station
Hydraulic Hoist Closure Assessment

Sample	Sample Location	Description	Depth (feet bgs)	VOCs (ppm)
H1-7.0*	Beneath H1	Brown silty sand, moist, no petroleum hydrocarbon [PHC] odor or staining.	7.0	0.1
H2-7.0*	Beneath H2	Brown silty sand, moist, no petroleum hydrocarbon [PHC] odor or staining.	7.0	0.0
H3-7.0*	Beneath H3	Brown silty sand, moist, no petroleum hydrocarbon [PHC] odor or staining.	7.0	0.1

VOCs Volatile Organic Compounds.
ppm parts per million.
bgs below ground surface.
n.d. not detected.
* Sample collected for laboratory analysis.

3.2 VERIFICATION SOIL SAMPLING FOR LABORATORY ANALYSIS

On August 1, 2007, ESI personnel (Mr. Travis P. Hiramoto) collected three verification soil samples (samples H1-7.0, H2-7.0, and H3-7.0). Each soil sample was collected at 7.0 feet bgs (directly beneath each hydraulic hoist post). A description of the samples is provided in Table 3.1 and the sample locations are shown in Figure 4.

The samples were collected in new, stainless steel sleeves, capped, placed into a cooler with ice, chilled to approximately 4^{o}C, and delivered to Advanced Analytical Laboratory, Inc. The chain-of-custody procedure was used to track the sample from collection to final disposition. The chain-of-custody form is included in Appendix B.

3.3 ANALYTICAL RESULTS FOR VERIFICATION SOIL SAMPLE

The three verification soil samples were analyzed for the DOH chemical constituents of concern for hydraulic oil. The samples were analyzed for total petroleum hydrocarbons as oil [TPH-o] using the Environmental Protection Agency [EPA] Method 8015 California Department of Health Services Modified, polycyclic aromatic hydrocarbons [PAHs] using EPA Method 8270, and polychlorinated biphenyls [PCBs] using EPA Method 8082. TPH-o (150 ppm) was detected in one sample (H1-7.0). None of the other chemical constituents analyzed for were detected. No chemical constituents were detected at concentrations above DOH EALs.

TABLE 3.2
Analytical Results for Verification Soil Sample (August 1, 2007)
Oneawa Union 76 Service Station
Hydraulic Hoist Closure Assessment

Chemical Constituent	H1-7.0	H2-7.0	H3-7.0	MRL	DOH EAL
TPH-o	150	n.d.	n.d.	100	5,000
Acenaphthene	n.d.	n.d.	n.d.	0.20	130
Benzo[a]pyrene	n.d.	n.d.	n.d.	0.20	0.62
Fluoranthene	n.d.	n.d.	n.d.	0.20	40
Naphthalene	n.d.	n.d.	n.d.	0.20	18
PCBs	n.d.	n.d.	n.d.	0.20	1.1

The data are in parts per million. Shaded values exceed DOH EALs.
TPH-o Total Petroleum Hydrocarbons as oil.
PCBs Polychlorinated Biphenyls.
DOH EAL State of Hawaii Department of Health Environmental Action Level for soil where drinking water sources are not threatened.
MRL Method Reporting Limit.
n.d. not detected.

SECTION 4 - SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS

On August 1, 2007, the area around each hoist was excavated and the hoists removed from the ground. Hoists H1, H2, and H3 extended from the ground surface to approximately 7.0 feet bgs. The hoists were removed from the ground and placed on 6-mil plastic sheeting.

The depth of the excavations at H1, H2, and H3 extended to approximately 7.0 feet bgs. Groundwater was not encountered during excavation. No petroleum hydrocarbon odor or staining were observed in the soil surrounding and beneath the hoists.

On August 1, 2007, the hydraulic oil from each hoist was removed using a powered pump. The hydraulic oil was pumped into two 55-gallon drums. Approximately 110 gallons of hydraulic oil were removed from the three hoists.

Following the removal of the hoists, each hoist was properly cleaned, triple-rinsed, and covered with 6-mil plastic sheeting. On August 1, 2007, the hoists were loaded onto a flat-bed truck and transported by PSC to SSI to be recycled.

On August 1, 2007, three verification soil samples (samples H1-7.0, H2-7.0, and H3-7.0) were collected. The three samples were collected at 7.0 feet bgs (directly beneath each hydraulic hoist post). The samples were analyzed for the DOH chemical constituents of concern for hydraulic oil. The samples were analyzed for TPH-o, PAHs, and PCBs. TPH-o (150 ppm) was detected in one sample. None of the other chemical constituents analyzed for were detected. No chemical constituents were detected at concentrations above DOH EALs.

Based on the results of the closure assessment, ESI concludes that a minor release of hydraulic oil has occurred from the H1 hydraulic hoist, however, the contaminant (TPH-o) is below the DOH EAL. The nearest drinking water well is approximately 2.5 miles from the Station, therefore, it is unlikely that contaminants originating at the Station have impacted or could impact drinking water sources. Also, it is unlikely that contaminants pose a threat to sensitive ecological receptors because the source of contamination has been removed. The impacted soil is greater than 7.0 feet bgs, which prevents human contact with potentially impacted soils, thereby essentially eliminating direct exposure routes. Based on these observations, ESI concludes that it is unlikely that contaminants originating at the Station pose a threat to human health or the environment.

Based on our conclusions, ESI does not recommend that additional subsurface soil investigation or remediation be performed. We recommend that a copy of this report be submitted to the DOH and that a copy be maintained at Mid Pac Petroleum.

SECTION 5 - REFERENCES

DOH, 1992, *Technical Guidance Manual for Underground Storage Tank Closure and Release Response*, 1st edition, August 1992.

DOH, 1996, *Risk-Based Corrective Action and Decision Making at Sites with Contaminated Soil and Groundwater*: Volumes I and II, December 1995 (Revised June 1996).

DOH, 1997, *Technical Guidance Manual for the Implementation of the Hawaii State Contingency Plan*, Draft edition, October 1997.

DOH, 2000a, Underground Storage Tanks: Hawaii Administrative Rules, Title 11, Chapter 281, January 12, 2000.

DOH, 2000b, *Technical Guidance Manual for Underground Storage Tank Closure and Release Response*, 2nd edition, March 2000.

DOH, 2005, *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater*, Interim Final, May 2005.

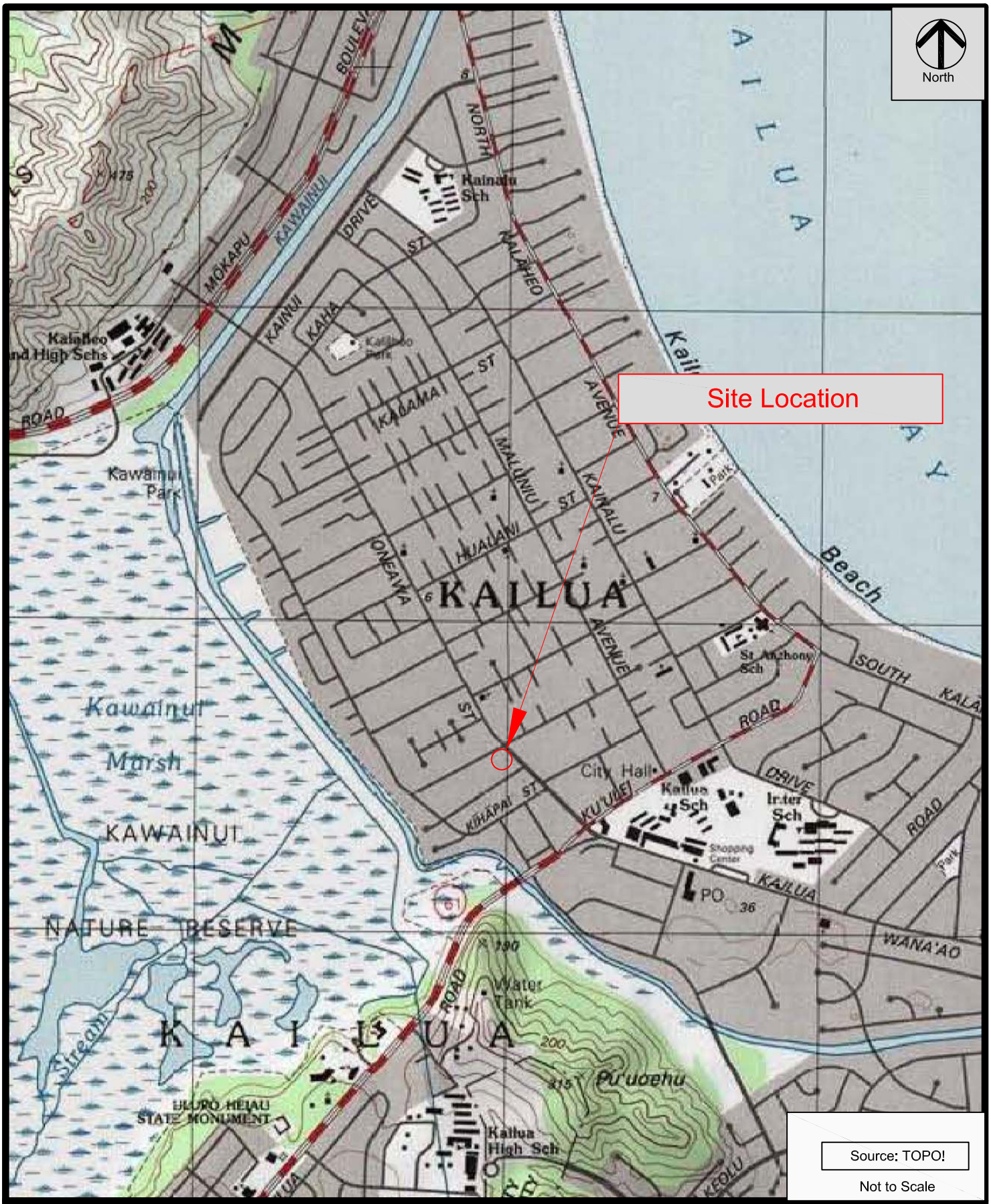
LFR, 1996, Underground Storage Tank Closure Report, Unocal Service Station #4342: Levine-Fricke, Incorporated, January 1996.

Mink, J. F. and Lau, L. S., 1990, Aquifer Identification and Classification for O'ahu: Groundwater Protection Strategy for Hawaii: Water Resources Research Center Technical Report No. 179, February 1990.

Stearns, H. T. and Vaksvik, K. N., 1935, Geology and Groundwater Resources of the Island of Oahu, Hawaii: Hawaii Div. Hydrogr. Bull. 1, 479 p.

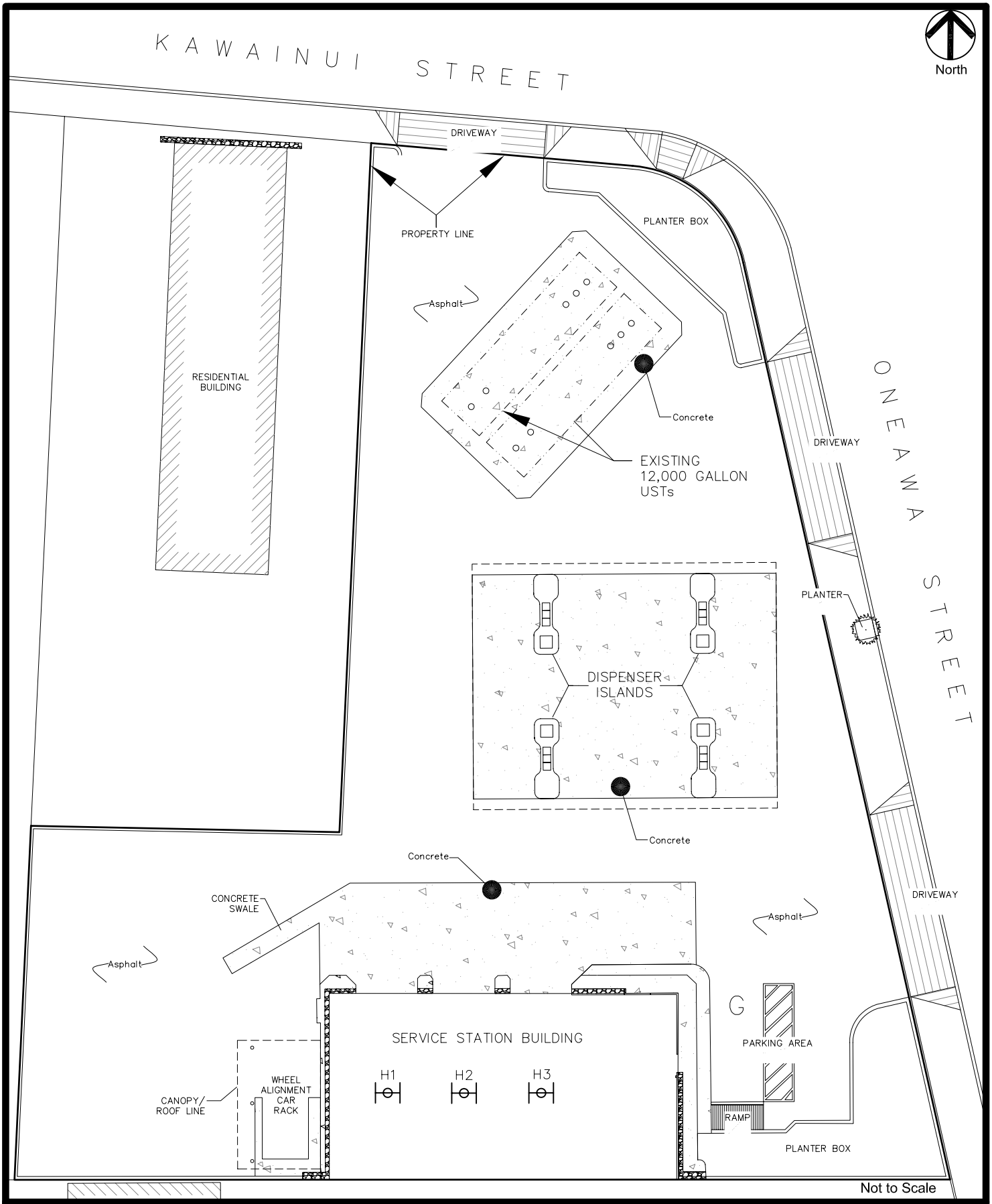
Stearns, H. T. and Vaksvik, K. N., 1938, Records of the Drilled Wells on the Island of Oahu, Hawaii: Hawaii Div. Hydrogr. Bull. 4, 213 p.

FIGURES

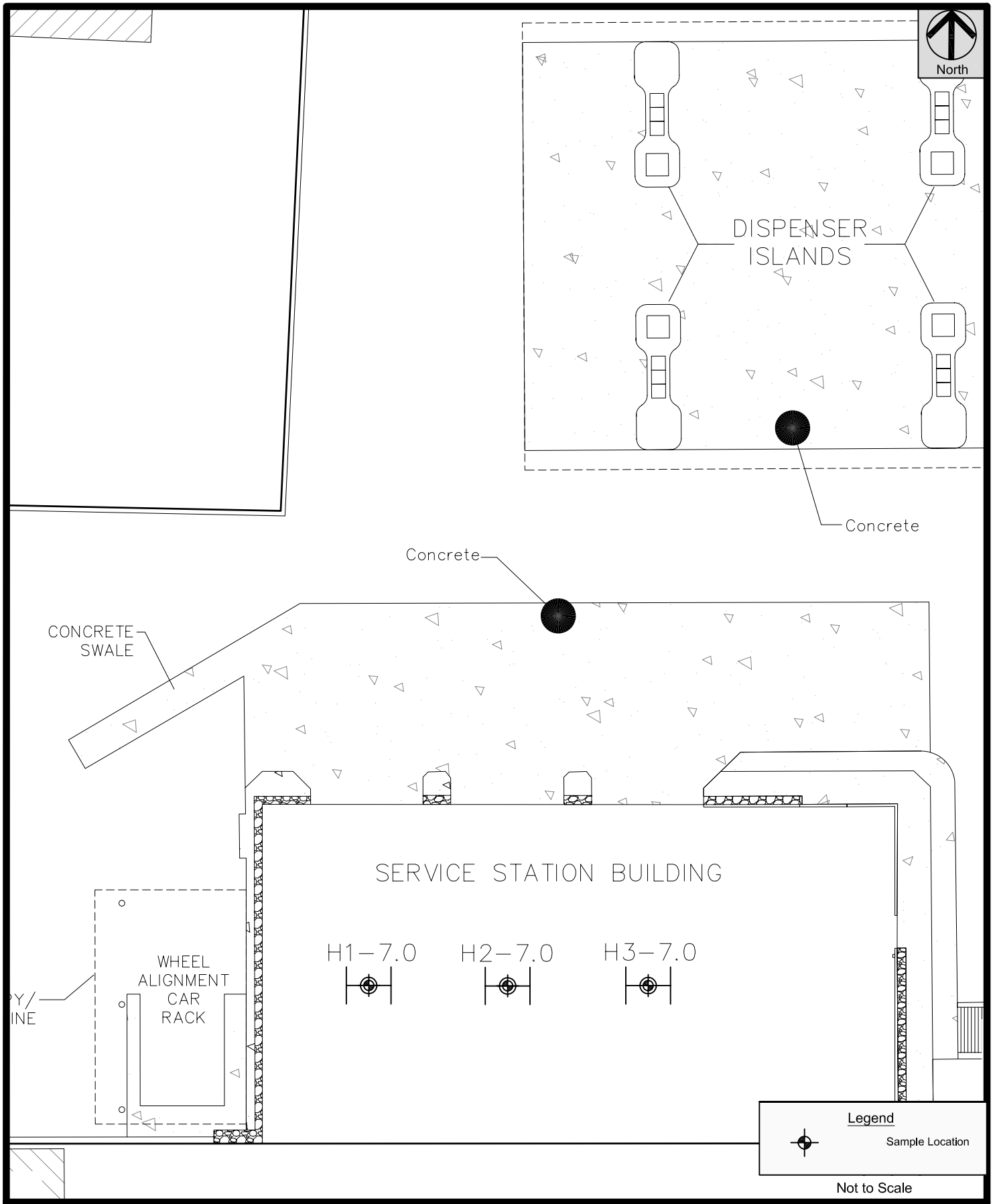


	Site Area Topographic Map	ESI Project No. 107062
	Oneawa Union 76 Service Station	Date: 10/11/2007
	153 Oneawa Street, Kailua, Hawaii	Figure 1

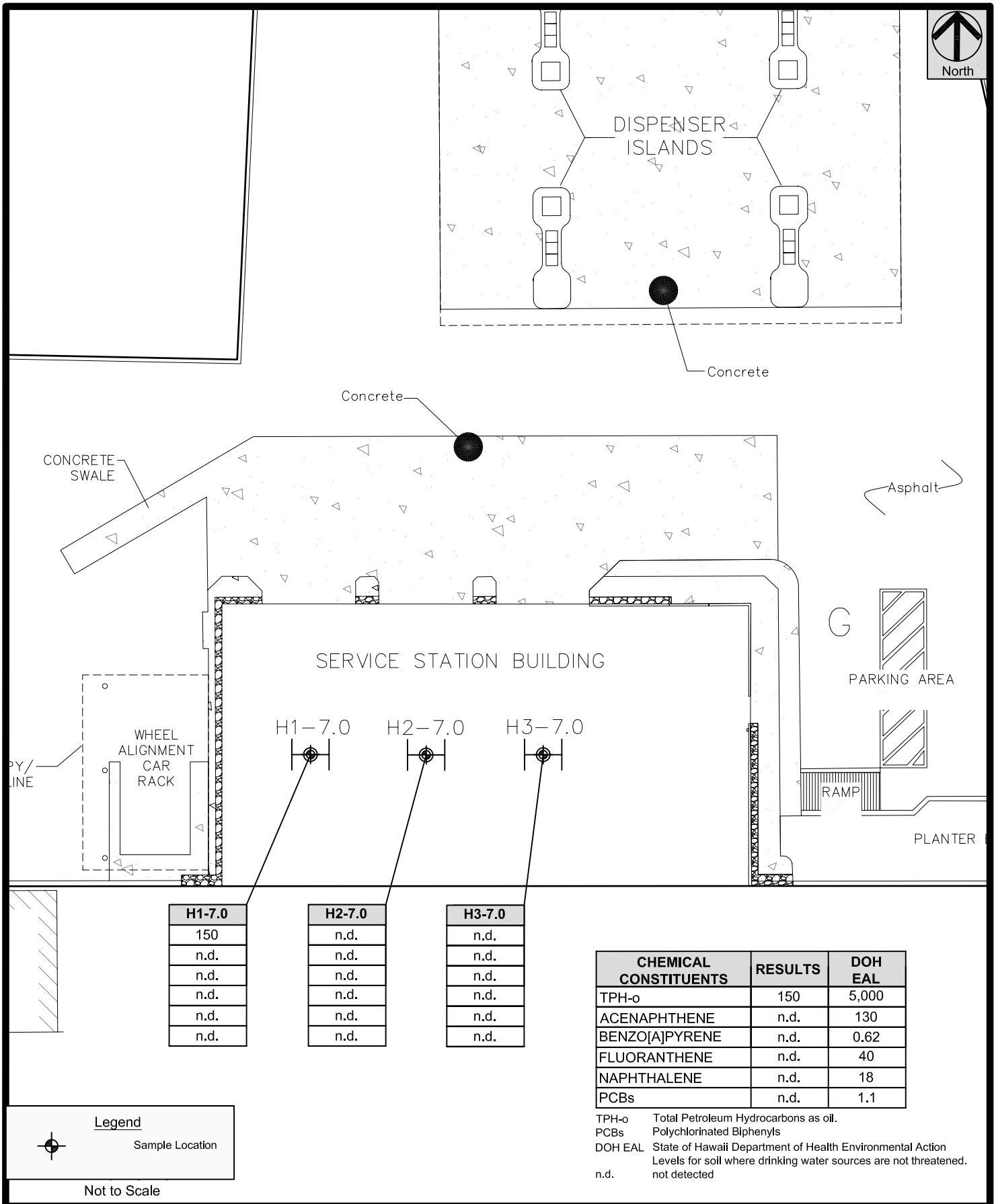
ESI	UIC Line and Well Location Map	ESI Project No. 107062
	Oneawa Union 76 Service Station	Date: 10/11/2007
	153 Oneawa Street, Kailua, Hawaii	Figure 2



ESI	Site Map	ESI Project No. 107062
	Oneawa Union 76 Service Station	Date: 10/11/2007
	153 Oneawa Street, Kailua, Hawaii	Figure 3



ESI	Sample Location Map	ESI Project No. 107062
	Oneawa Union 76 Service Station	Date: 10/11/2007
	153 Oneawa Street, Kailua, Hawaii	Figure 4



CHEMICAL CONSTITUENTS	RESULTS	DOH EAL
TPH-o	150	5,000
ACENAPHTHENE	n.d.	130
BENZO[A]PYRENE	n.d.	0.62
FLUORANTHENE	n.d.	40
NAPHTHALENE	n.d.	18
PCBs	n.d.	1.1

TPH-o Total Petroleum Hydrocarbons as oil.
PCBs Polychlorinated Biphenyls
DOH EAL State of Hawaii Department of Health Environmental Action Levels for soil where drinking water sources are not threatened.
n.d. not detected

ESI	Summary of Analytical Results for Verification Samples	ESI Project No. 107062
	Oneawa Union 76 Service Station	Date: 10/11/2007
	153 Oneawa Street, Kailua, Hawaii	Figure 5

APPENDIX A

Photographic Documentation

Photo 1. M. Nakai personnel removing H1 from the ground.

Photo 2. H2 placed on 6-mil pastic sheeting.

Photo 3. The H1 excavation after the removal of the hoist. Note no staining was ovbserved.

Photo 4. M. Nakai personnel backfilling the H2 excavation. Note no staining was ovbserved.

ESI	Photographic Documentation	ESI Project No. 107062
	Oneawa 76 Hydraulic Hoist Closure Assessment	Date: 10/11/2007
	153 Oneawa Street, Kailua, Hawaii	Photos: 1 - 4

APPENDIX B

Laboratory Reports

ADVANCED ANALYTICAL LABORATORY INC

RECEIVED
AUG 14 2007

August 8, 2007

Environmental Science International
56 Oneawa St.
Kailua, HI
96734

Dear Robert Chong:

Please find enclosed the laboratory report for your project "Oneawa 76". If you have any questions regarding this project, please don't hesitate to contact AAL.

Thank you for your business and continuing support.

Sincerely,

Uwe Baumgartner, Ph.D
Owner

Elisa M. Young
Owner

544 OHOHIA STREET, #10 HONOLULU HAWAII 96819
TEL (808) 836-2252 FAX (808) 836-2250

ADVANCED ANALYTICAL LABORATORY INC

AAL Project #F168

Environmental Science International

Client Project #: 107062
Client Project Name: Oneawa 76
Method: 8015M
Matrix: Soil

CLIENT SAMPLE ID	TPH-OIL [mg/kg]	SURROGATE RECOVERY	FLAGS	DATE ANALYZED
Blank	nd	95%		8/6/2007
H3-7.0	nd	101%		8/6/2007
H2-7.0	nd	94%		8/6/2007
H1-7.0	150	98%		8/6/2007
PQL	100	Acceptable Range		
MDL	35	70%-130%		

QA/QC DATA

QC BATCH # 080607	TPH-OIL [mg/kg]	Acceptable Range
Lab Control Spike (LCS)	521	350-650
Matrix Spike (MS)	560	350-650
Matrix Spike Dup (MSD)	574	350-650
Recovery MS	112%	70%-130%
Recovery MSD	115%	70%-130%
RPD of MS/MSD	2.5%	20%

Analyst: U. Baumgartner, Ph.D.
Data review: E. Young

544 OHOHIA STREET #10 HONOLULU HAWAII 96819
TEL (808) 836-2252 FAX (808) 836-2250

ADVANCED ANALYTICAL LABORATORY INC

AAL Project #F168

Environmental Science International

Client Project #: 107062
Client Project Name: Oneawa 76

Method: 8100
Matrix: Soil

CLIENT SAMPLE ID	Naphthalene [mg/kg]	Acenaphthene [mg/kg]	Fluoranthene [mg/kg]	Benzo(a)pyrene [mg/kg]	SURROGATE RECOVERY	FLAGS	DATE ANALYZED
Blank	nd	nd	nd	nd	123%		8/7/2007
H3-7.0	nd	nd	nd	nd	124%		8/7/2007
H2-7.0	nd	nd	nd	nd	128%		8/7/2007
H1-7.0	nd	nd	nd	nd	126%		8/7/2007
PQL	0.20	0.20	0.20	0.20	Acceptable Range		
MDL	0.04	0.04	0.04	0.04	70%-130%		

QA/QC DATA

QC BATCH # 080607	Naphthalene [mg/kg]	Acenaphthene [mg/kg]	Fluoranthene [mg/kg]	Benzo(a)pyrene [mg/kg]	Acceptable Range
Lab Control Spike (LCS)	4.83	5.02	5.31	5.28	3.50-6.50
Matrix Spike (MS)	4.76	4.85	4.78	4.91	3.50-6.50
Matrix Spike Dup (MSD)	4.84	5.11	5.31	5.33	3.50-6.50
Recovery MS	95%	97%	96%	98%	70%-130%
Recovery MSD	97%	102%	106%	107%	70%-130%
RPD of MS/MSD	1.6%	5.2%	10.5%	8.1%	20%

Analyst: E. Young
Data review: U. Baumgartner, Ph.D.

544 OHOHIA STREET #10 HONOLULU HAWAII 96819
TEL (808) 836-2252 FAX (808) 836-2250

Advanced Analytical Laboratory
(425) 497-0110, fax (425) 497-8089

AAL Job Number: A70803-2
Client: Advanced Analytical Lab
Project Manager: Elisa Young
Client Project Name: Oneawa 76
Client Project Number: F168
Date received: 08/03/07

Analytical Results

8082(PCBs), mg/kg		MTH BLK	LCS	H1-7.0	H2-7.0	H3-7.0	Dupl H3-7.0
Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Date extracted	Reporting	08/06/07	08/06/07	08/06/07	08/06/07	08/06/07	08/06/07
Date analyzed	Limits	08/06/07	08/06/07	08/06/07	08/06/07	08/06/07	08/06/07
A1221	0.20	nd		nd	nd	nd	nd
A1232	0.20	nd		nd	nd	nd	nd
A1242 (A1016)	0.20	nd		nd	nd	nd	nd
A1248	0.20	nd		nd	nd	nd	nd
A1254	0.20	nd	93%	nd	nd	nd	nd
A1260	0.20	nd		nd	nd	nd	nd
Surrogate recoveries:							
Tetrachloro-m-xylene		92%	101%	89%	94%	94%	96%
Decachlorobiphenyl		95%	99%	97%	93%	116%	90%

Data Qualifiers and Analytical Comments
nd - not detected at listed reporting limits
na - not analyzed
C - coelution with sample peaks
M - matrix interference
J - estimated value
Results reported on dry-weight basis
Acceptable Recovery limits: 70% TO 130%
Acceptable RPD limit: 30%

544 Ohohia Street
Honolulu, Hawaii 96819
Phone: (808) 836-2252
Fax: (808) 836-2250

CHAIN OF CUSTODY RECORD

ADVANCED ANALYTICAL LABORATORY, LLC

Standard — TURNAROUND TIME

F168 — AAL PROJECT #

CLIENT: ESI
ADDRESS: 56 Oneawa St. Suite 103, Kailua, HI 96734
PHONE: 261-0740
CLIENT PROJECT #: 107062

LOCATION: Oneawa 76
COLLECTOR: TPH
DATE OF COLLECTION: 8/1/07
PROJECT MANAGER: Robert Chong

Sample ID	Depth	Time	Sample Type	Container Type	Method 5035	8015B TPH Fuel Scan	8015B TPH Gasoline	8015B TPH Diesel	8015B TPH Oil	8015B Transformer Oil	8021B BTEX	8021B MtBE	8100 PAH DOH 4	8082 PCB	Total Lead	Total Cadmium	Total Chromium	Total RCRA 8 Metals	8260B Volatiles	8270 Semi Volatiles	Field Notes	Total Number of Containers	Total Number Received
H3-7.0	7'	1045	Soil	Sleeves				X					X	X								3	3
H2-7.0	7'	1122	Soil	Sleeves				X					X	X								3	3
H1-7.0	7'	1303	Soil	Sleeves				X					X	X								3	3

RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)	DATE/TIME
[signature]	8/1/07 1400	[signature]	8/1/07 14:00
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)	DATE/TIME

SAMPLE RECEIPT

TOTAL NUMBER OF CONTAINERS	9
RECEIVED IN GOOD CONDITION	9
TEMPERATURE	1.9°C

PAGE 1 OF 1

LABORATORY NOTES:

Rev. (10/03)

APPENDIX C

Waste Disposal Manifests

M. NAKAI REPAIR SERVICE LTD.

PEI PETROLEUM EQUIPMENT INSTITUTE

288 Mokauea St. Honolulu, HI 96819 • (808) 841-7581 • FAX (808) 842-7012

RECEIVED
SEP 0 4 2007

LETTER OF TRANSMITTAL

DATE: **August 30, 2007**

TO: **Environmental Science International**
56 Oneawa Street, Suite 103
Kailua, Hawaii 96734

PROJECT: **KAILUA 76 - ONEAWA STREET**
Clean & Dispose of (1) one Used Oil Tank and (3) Single Post Hoists

WE ARE TRANSMITTING:

[X] **HEREWITH** [ ] DELIVERED BY HAND [ ] UNDER SEPARATE COVER

THE FOLLOWING ITEMS:

[ ] SUBMITTALS [ ] SHOP DRAWINGS [X] **OTHER**

COPIES	DATE	DESCRIPTION
1	8/2/07	Non-Hazardous Waste Manifest
1	8/3/07	Certificate of Disposal (Hoists & Used Oil Tank)

[X] **FOR YOUR FILES** [ ] AS REQUESTED [ ] SIGN & RETURN

[ ] FOR YOUR APPROVAL [ ] RETURNING [ ] PLEASE RETURN ONE COPY

[ ] REVIEW & COMMENT [ ] RESUBMITTING [ ] REVIEW & FORWARD

Remarks:

SUBMITTED BY: **Stephen Taguchi**

Please print or type
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of
EXEMPT		UO-070 264

GENERATOR

3. Generator's Name and Mailing Address
153 oneawa ST 76
Kailua HI 96740

4. Generator's Phone ( )

5. Transporter 1 Company Name	6. US EPA ID Number	A. Transporter's Phone
PHILIP SERVICES HAWAII	HID982041402	682-3696
7. Transporter 2 Company Name	8. US EPA ID Number	B. Transporter's Phone

9. Designated Facility Name and Site Address	10. US EPA ID Number	C. Facility's Phone
PHILIP SERVICES HAWAII 91-410 KOMOHANA ST KAPOLEI,HI 96707	HID982041402	682-7087

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. NON REGULATED OIL FROM HOIST	X2	DM	~~210~~ 110	GAL
b. NON Regulated used oil	2	DM	100	Gal
c.				
d.				

D. Additional Descriptions for Materials Listed Above	E. Handling Codes for Wastes Listed Above
GR D TEST 300 ppm	

15. Special Handling Instructions and Additional Information

24 HOUR EMERGENCY CONTACT NUMBER (800) 567-7455
LEVEL D PPE

CUSTOMER:
nakai repairs

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
Jr. Lui	Jr. Lui	08	02	07

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
TODD AKIONA		08	02	07

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.
PHILIP SERVICES WASTE WATER TREATMENT FACILITY

Printed/Typed Name	Signature	Month	Day	Year
ASOTAU ULUFALE		08	02	07

Printed by J. J. KELLER & ASSOCIATES, INC.
Neenah, WI 54957-0368

ORIGINAL - RETURN TO GENERATOR

PHILIP SERVICES CORP

Industrial Services Group
License # C-20637
Western Region

CERTIFICATE OF DISPOSAL

JOB# 183-0707-0091

As an authorized agent of PHILIP SERVICES HAWAII, LTD., I hereby certify that the Hoist & USED OIL TANK removed from Onearra 76 has been properly cleaned, triple-rinsed, rendered unusable and delivered to

_____

for disposal in compliance with applicable Federal and State laws, rules and regulations.

By: _____ Title: OPER Date: 8/3/07

I hereby certify as a corporate officer, owner, partner or general manager of SSHIC _____, that the above described Hoist & used oil tank has been properly demolished and disposed of in compliance with applicable Federal and State laws, rules and regulations.

By: _____ Title: Weighmaster Date: 08-03-07