TECHNICAL REPORT

Cleaning and Abandonment of Cross Country Pipelines PRL 03-13
Pearl Harbor, Hawaii

Contract No.: FA8903-04-D-8676

Task Order No.: 0001

Revision 0

January 2005

Submitted to:

Air Force Center for Environmental Excellence 3300 Sidney Brooks Road Brooks City Base, Texas 78235-5112

Submitted by:



Table of Contents

List of	Appe	ndices	eviations	ii
Acron	yms a	nd Abbro	eviations	iii
	•			
1.0	Intro	duction.		1-1
2.0	Cros	s-Count	try Pipeline Fieldwork	2-1
	2.1	Pipelir	ne from Red Hill Complex to PCFA	2-1
		2.1.1		
		2.1.2	Cleaning and Abandonment of Pipeline	
		2.1.3	Abandonment of Valve Chambers	
	2.2	Pipelir	ne from the Former NASBP to PCFA	
		2.2.1	Pipeline Preparation	
		2.2.2	Cleaning and Abandonment of Pipeline	
			2.2.2.1 VC-8 (NASBP) to VC-5 (West Bank of West Loch)	
			2.2.2.2 VC-5 to VC-4 (East Bank of West Loch)	
			2.2.2.3 VC-4 to VC-5 (PCFA)	
		2.2.3	· · · ·	
3.0	Was	te Mana	ngement	
4.0			on	
5.0				

List of Appendices

Appendix A **As-Built Drawings** Appendix B Appendix C

Photograph Log
Waste Transportation and Disposal Documentation

January 2005 Technical Report, Revision 0

Acronyms and Abbreviations

AFCEE Air Force Center for Environmental Excellence

FISC Fleet Industrial Supply Center

LEL lower explosive limit

LF linear feet

NASBP Naval Air Station Barbers Point

PCFA Pearl City Fuel Annex

VC valve chamber

January 2005 Technical Report, Revision 0

1.0 Introduction

This Technical Report documents the work performed (herein referred to as work or project) at two out-of-service cross-country pipelines (34,000 linear feet [LF] of _____-inch diameter JP-5 pipeline running from the Red Hill Complex to the Pearl City Fuel Annex [PCFA] and approximately 36,200 LF of ___-inch diameter and two 2,400 LF segments of __-inch diameter JP-5 pipeline running from the PCFA to the former Naval Air Station Barbers Point [NASBP]) (herein referred to as the site or pipelines), at Pearl Harbor, Hawaii. Shaw Environmental, Inc. (herein referred to as the Contractor) has prepared this document for the Fleet Industrial Supply Center (FISC) under the Air Force Center for Environmental Excellence (AFCEE) Contract No. FA8903-04-D-8676, Task Order No. 0001 (Shaw Project No. 103187).

The work was performed in accordance with the following:

- Statement of Work entitled, "Pipeline Abandonment," dated March 22, 2004
- Proposal for Services submitted by the Contractor, dated April 14, 2004
- Final Work Plan (prepared by Shaw under AFCEE Contract No. F41624-01-D-8541, Task Order No. 0105), dated December 9, 2003

The objective of the work performed was to safely abandoned-in-place the two out-of-service cross-country pipelines by physically isolating them from in-service piping, cleaning and emptying to a gas-free condition, and filling with an inert gas or grouting selected portions. Project activities were performed from August 2004 through October 2004. The scope of work performed at the two pipelines consisted of the following:

- Cleaned and drained the pipelines
- Disconnected the pipelines from the in-service piping and rendered the pipelines inert with nitrogen
- Disconnected the two -inch segments of pipeline from the -inch pipeline
- Abandoned the valve chambers (VC) associated with the pipelines
- Identified, characterized, managed, and disposed of waste generated during project activities

This technical report is organized as follows:

- Section 1, "Introduction"—Briefly describes the project scope of work.
- Section 2, "Cross-Country Pipeline Field Work"—Describes the activities performed to safely abandoned-in-place the two out-of-service cross-country pipelines.
- Section 3, "Waste Management"—Describes the management and disposal of project wastes.
- Section 4, "Demobilization"—Describes the demobilization tasks.
- Section 5, "References"—Provides a list of documents referenced in this technical report.

This addendum also contains the following appendices:

- Appendix A, "As-Builts Drawings"—Presents the as-built drawings.
- Appendix B, "Photograph Log"—Presents representative photographs of project activities.
- Appendix C, "Waste Transportation and Disposal Documentation"—Presents copies of the transportation and disposal documentation for project wastes.

2.0 Cross-Country Pipeline Fieldwork

This section describes the activities performed to prepare the pipelines, remove the pipeline contents, and clean and abandon the pipelines.

2.1 Pipeline from Red Hill Complex to PCFA

This section describes the specific work activities performed on the pipeline extending from the Red Hill Complex to the PCFA.

2.1.1 Pipeline Preparation

Personnel and equipment were mobilized to the site. A nitrogen trailer was staged at the Red Hill Complex. The bulk storage tanks were staged at the PCFA. Secondary containment systems were constructed around the bulk storage tanks.

Prior to any line breaking or pigging activities, the pipeline was accessed at multiple VCs to drain the pipeline contents. Lower explosive limit (LEL) levels were continuously monitored during the line breaking and valve chamber activities. A vacuum truck was used to remove the residual liquids to the extent possible.

Eight VCs were accessed and evaluated to determine whether removal was required. All valves were determined to be full-port valves so removal was not necessary. One pancake blind was removed from the pig receiver at PCFA.

2.1.2 Cleaning and Abandonment of Pipeline

Approximately 34,000 LF of inch diameter JP-5 pipeline were cleaned using a pigging system. Pigs were driven through the pipeline using pressurized nitrogen. Pigs were launched from a inch diameter launcher at Red Hill Complex Adit 6 and received at a inch inch diameter receiver at PCFA. Three swab pigs and two disc pigs were used to clean pipeline and displace the contents. The pipeline contents were conveyed through the length of the pipeline and collected at PCFA. The pipeline was determined to be clean when no free liquid was observed at the receiver and the LEL was zero percent.

2.1.3 Abandonment of Valve Chambers

The spool at (b) (3) was removed and installed on each end of the pipeline. A new manhole cover for (b) (3) was fabricated and installed.

All other spools and valves in the VCs were left in place. The metal valve chamber covers were closed and locked. The VCs were not backfilled or covered with a concrete cap because the pipeline may be transferred from FISC to the Board of Water Supply.

2.2 Pipeline from the Former NASBP to PCFA

This section describes the specific work activities performed on the pipeline from the former NASBP to the PCFA.

2.2.1 Pipeline Preparation

Personnel and equipment were mobilized to the site. A nitrogen trailer was initially staged at valve chamber (b). The nitrogen trailer was transported to each subsequent valve chamber where pig launchers were installed. The bulk storage tanks were staged at the PCFA. Secondary containment systems were constructed around the bulk storage tanks.

Prior to any line breaking or pigging activities, the pipeline was accessed at multiple VCs to drain the pipeline contents. LEL levels were continuously monitored during the line breaking and valve chamber activities. A vacuum truck was used to remove the residual liquids to the extent possible.

Multiple valves were removed and replaced with spools to facilitate the pigging activities. Catch basins were placed beneath the valves to prevent any pipeline contents from contacting the surrounding work area. A vacuum truck removed any liquid collected in the catch basins. A total of nine valves were removed.

2.2.2 Cleaning and Abandonment of Pipeline

This section describes the cleaning and abandonment activities for the three segments of pipeline from the former NASBP to PCFA.

2.2.2.1 (b) (NASBP) to (b) (West Bank of West Loch)

Approximately 15,100 LF of _____inch diameter JP-5 pipeline were cleaned using a pigging system from valve chamber _______ at the former NASBP to valve chamber _______ at the west bank of West Loch. The pigs were driven through the pipeline using pressurized nitrogen. The pigs were launched from an ______inch diameter launcher at _______ and received at an _____inch diameter receiver at ________. Eight swab pigs were used to clean the pipeline and displace the contents. The pipeline contents were conveyed through the length of the pipeline and collected at PCFA. The pipeline was determined to be clean when no free liquid was observed at the receiver and the LEL was zero percent. The pipeline was rendered inert with nitrogen and ______inch blind flanges were installed on each end.

2.2.2.2 (b) (3) (A) (East Bank of West Loch)

The pipeline from valve chamber (b) to (c) at the east bank of West Loch consists of two 2,400 LF segments of -inch diameter JP-5 pipeline. The southernmost pipeline segment could not be pigged because a visible underwater leak was observed near (b). The leak repairs must be performed before this pipeline segment can be pigged.

The northernmost inch diameter JP-5 pipeline segment was cleaned using a pigging system. The pigs were driven through the pipeline using pressurized nitrogen. The pigs were launched from a inch diameter launcher at inch diameter launcher at inch diameter receiver at inch diameter diamete

Each inch diameter JP-5 pipeline was disconnected from the inch diameter pipelines at and below. Blind flanges were installed on all ends. The cleaned pipeline was not filled with grout because the pipeline may be transferred from FISC to the Board of Water Supply.

2.2.2.3 (b) (3) (A) (PCFA)

Approximately 21,100 LF of a linch diameter JP-5 pipeline from valve chambers at PCFA were cleaned using a pigging system. The pigs were driven through the pipeline using pressurized nitrogen. This segment of pipeline was pigged in two parts. The pigs were launched from an aliench diameter launcher at (b) (3) and received at aliench diameter receivers at (b) and (c) and (d) and received at aliench diameter receivers at (d) and (d) and received at aliench diameter receivers at (d) and (d) and received at aliench diameter receivers at (d) and (d) and received at aliench diameter receivers at (d) and (d) and received at liench diameter receivers at (d) and (d) and received at liench diameter receivers at (d) and (d) and (d) and (e) and

2.2.3 Abandonment of Valve Chambers

All spools in the valve chambers were left in place. The valves that were removed during the pipeline preparation process were left disconnected in the valve chambers. The metal VC covers were closed and locked. The valve chambers were not backfilled or covered with a concrete cap because the pipeline may be transferred from FISC to the Board of Water Supply.

3.0 Waste Management

This section describes the characterization, handling, transport, and disposal of wastes generated while performing work at the site.

The bulk storage tanks were staged at PCFA. All pipeline contents collected by a vacuum truck were discharged and stored in these tanks. During pigging activities, the pipelines were connected to the tanks and pipeline contents were directly discharged into the tanks. Approximately 72,500 gallons of waste were removed from the pipeline.

Pipeline contents were characterized and profiled according to applicable regulations and disposal facility requirements. The analytical results and the Generator Waste Profile form were reviewed by NCTAMSPAC, Code N465NT. After receipt of the signed Generator Waste Profile form from NCTAMSPAC, Code N465NT, the waste was transported as non-hazardous waste to Philip Services Hawaii, Ltd. for disposal. Copies of the analytical results, approved Generator Waste Profile form, and transportation manifests are provided in Appendix C, "Waste Transportation and Disposal Documentation."

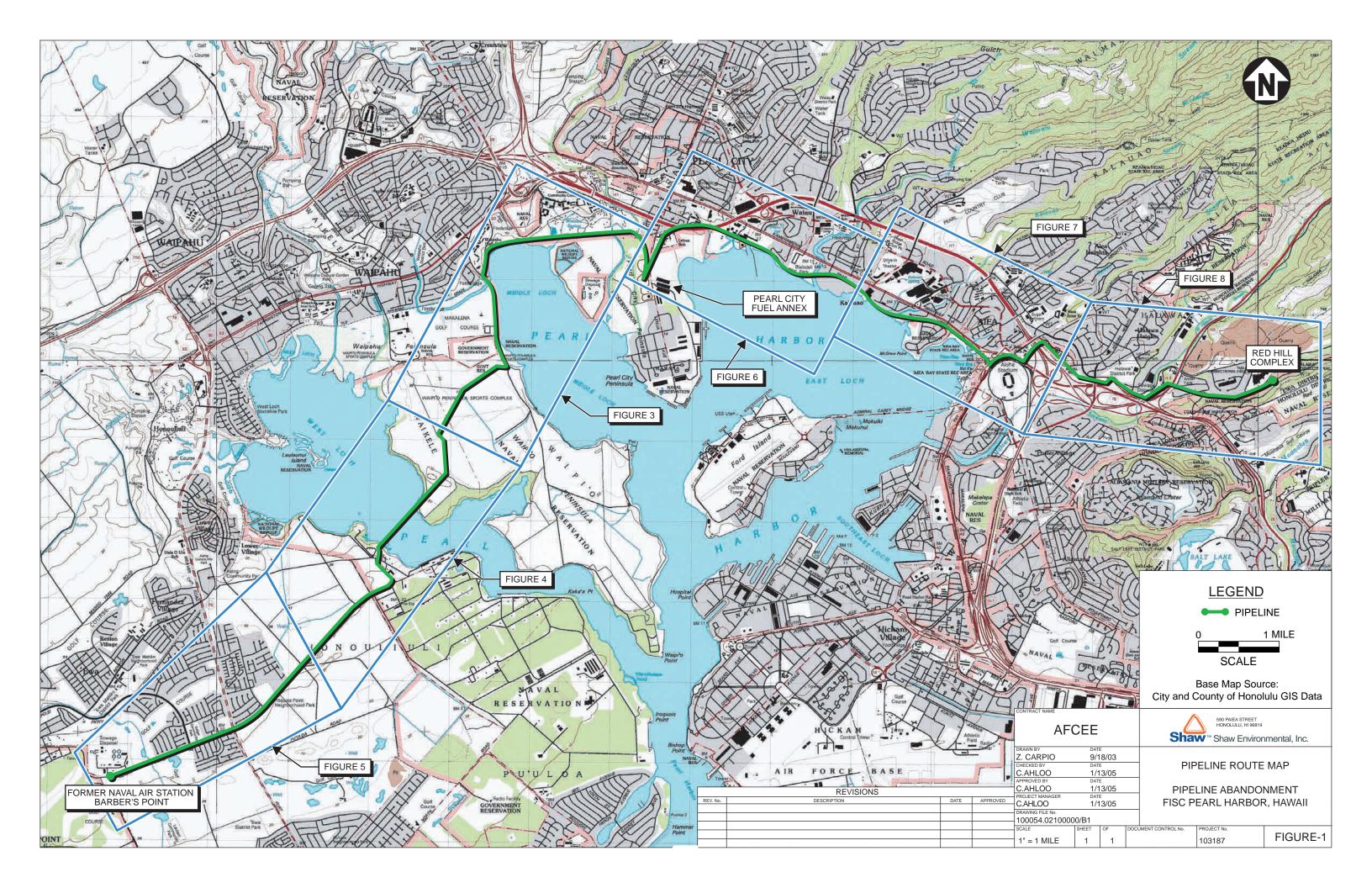
4.0 Demobilization

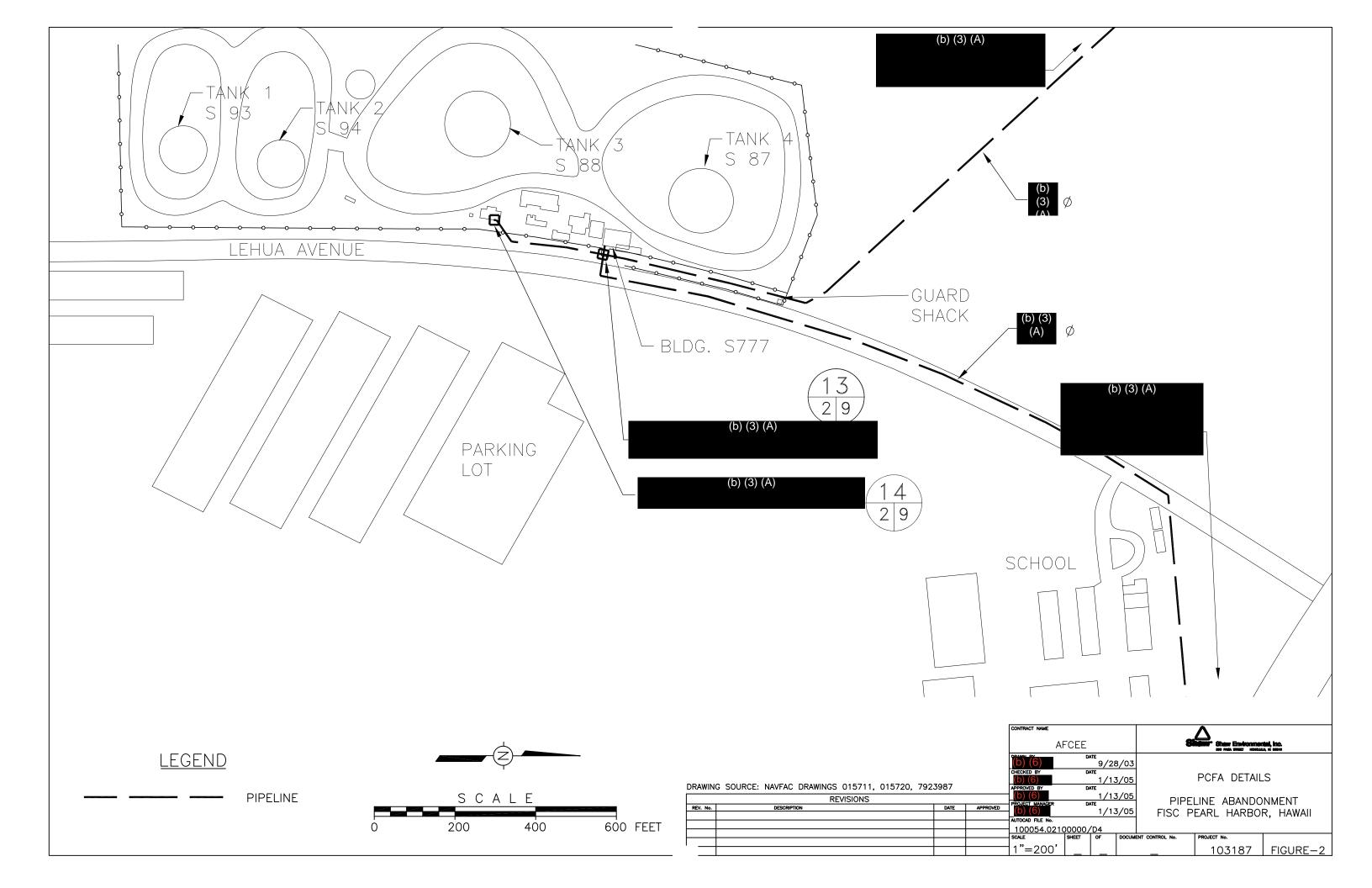
Following the transportation of wastes from the site, demobilization of personnel and equipment was completed. The facilities, staging area, and waste containment area were restored to the condition preceding construction activities.

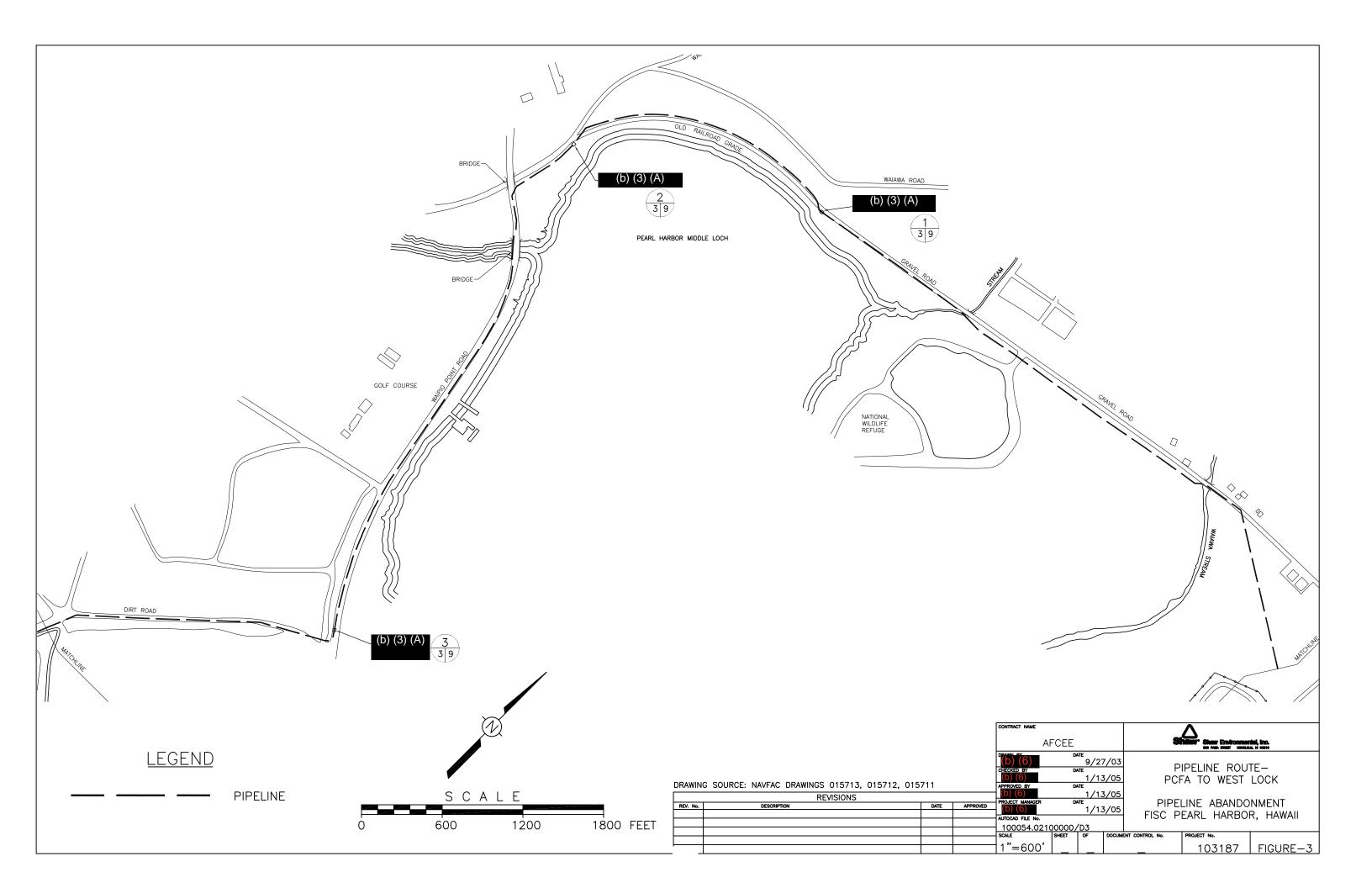
5.0 References

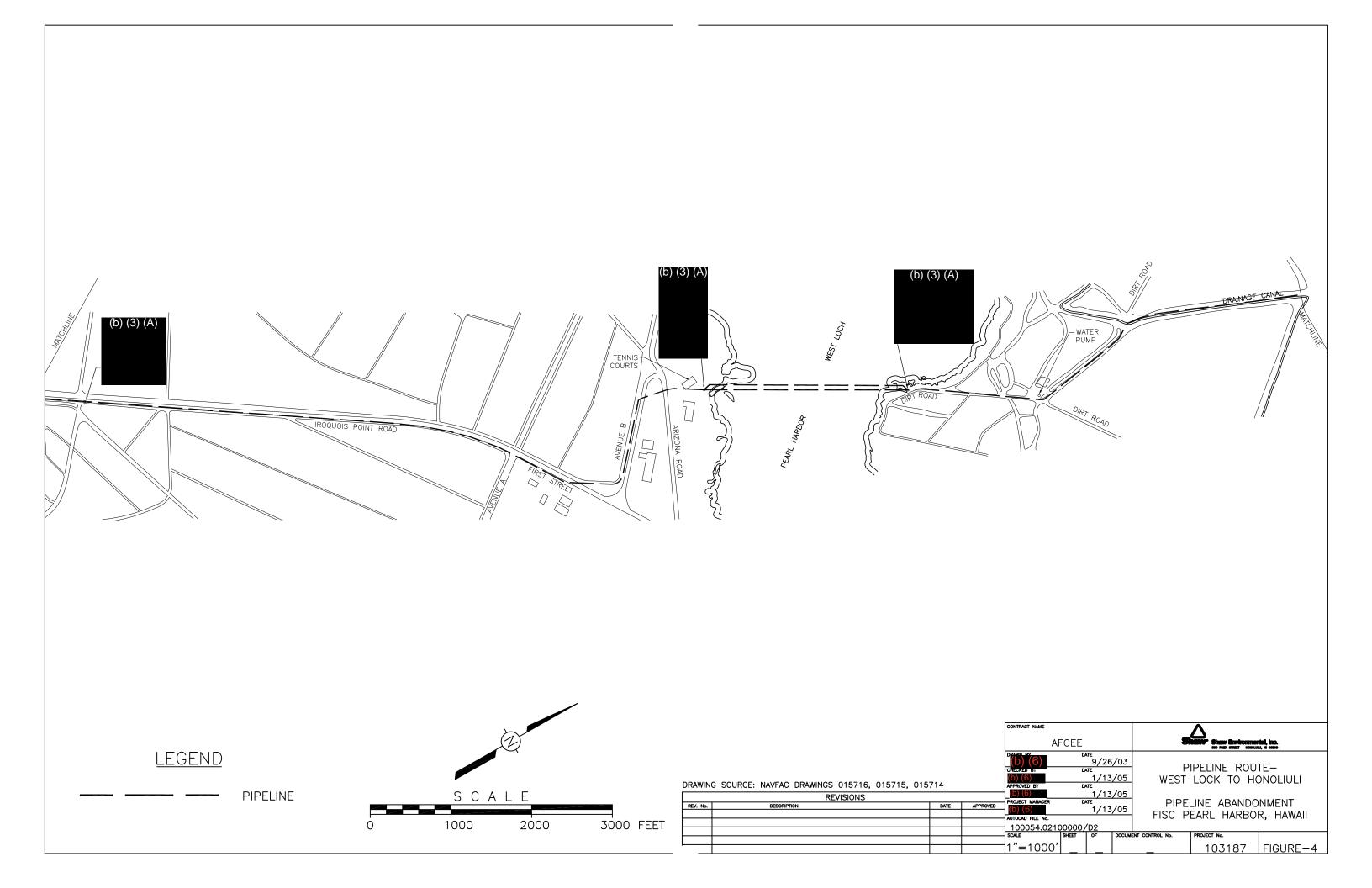
Shaw Environmental, Inc., 2003, Final Work Plan, Cleaning and Abandoning Cross Country Pipelines, Fleet Industrial Supply Center, Pearl Harbor, Hawaii, December.

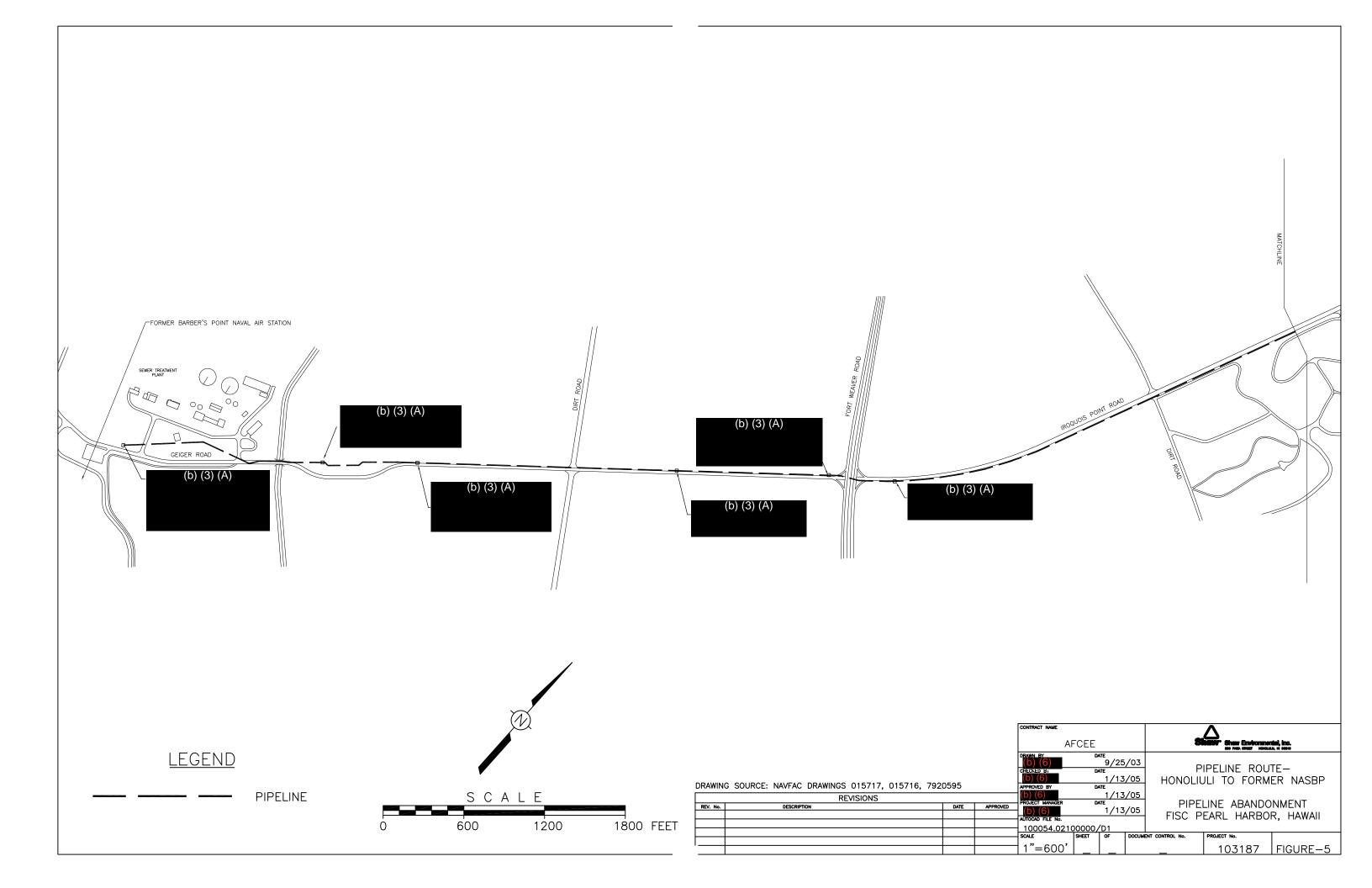
APPENDIX A AS-BUILT DRAWINGS







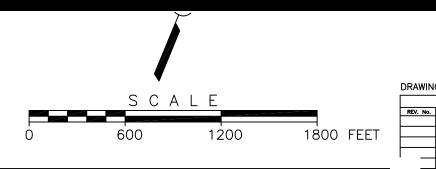




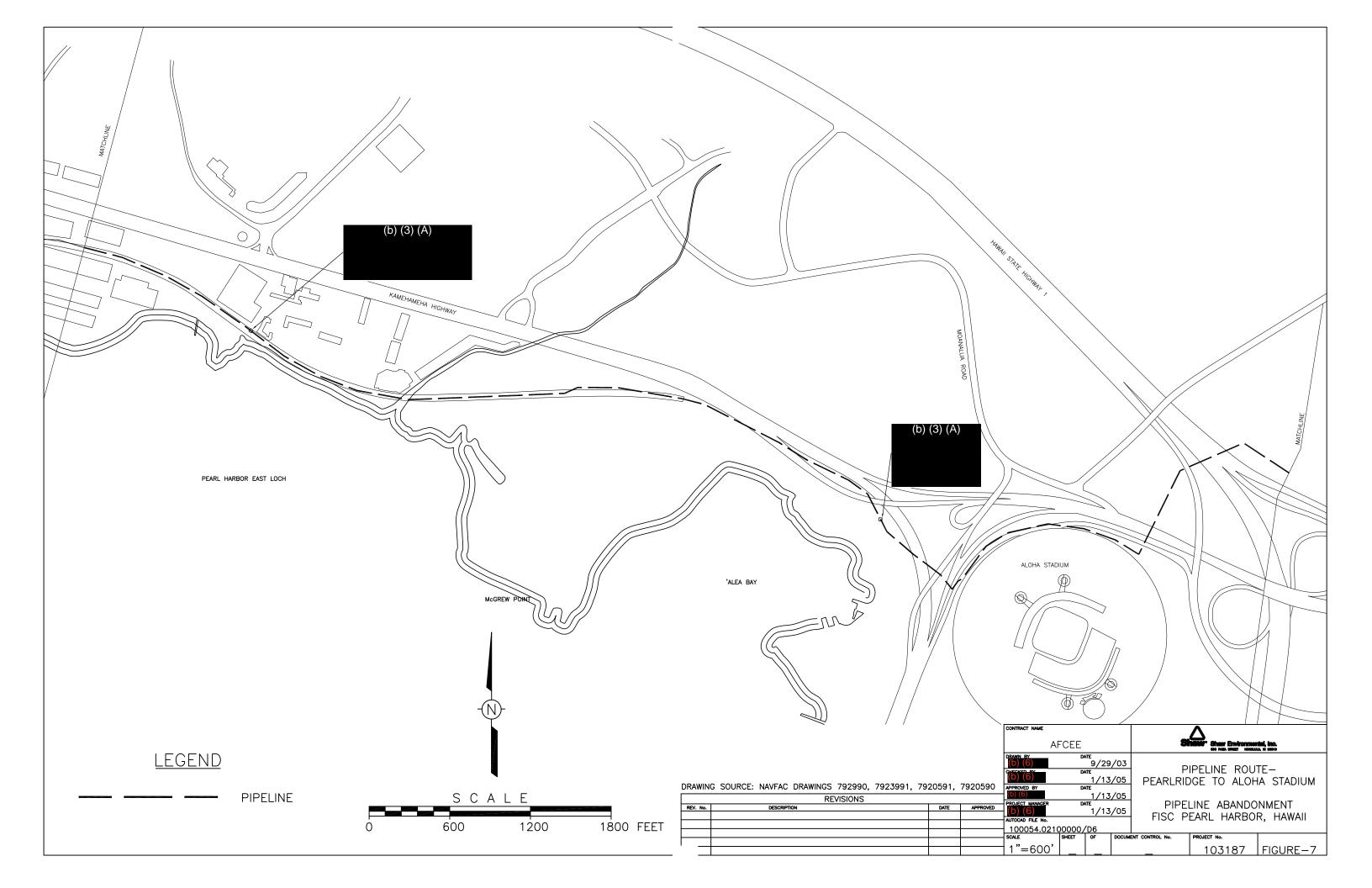


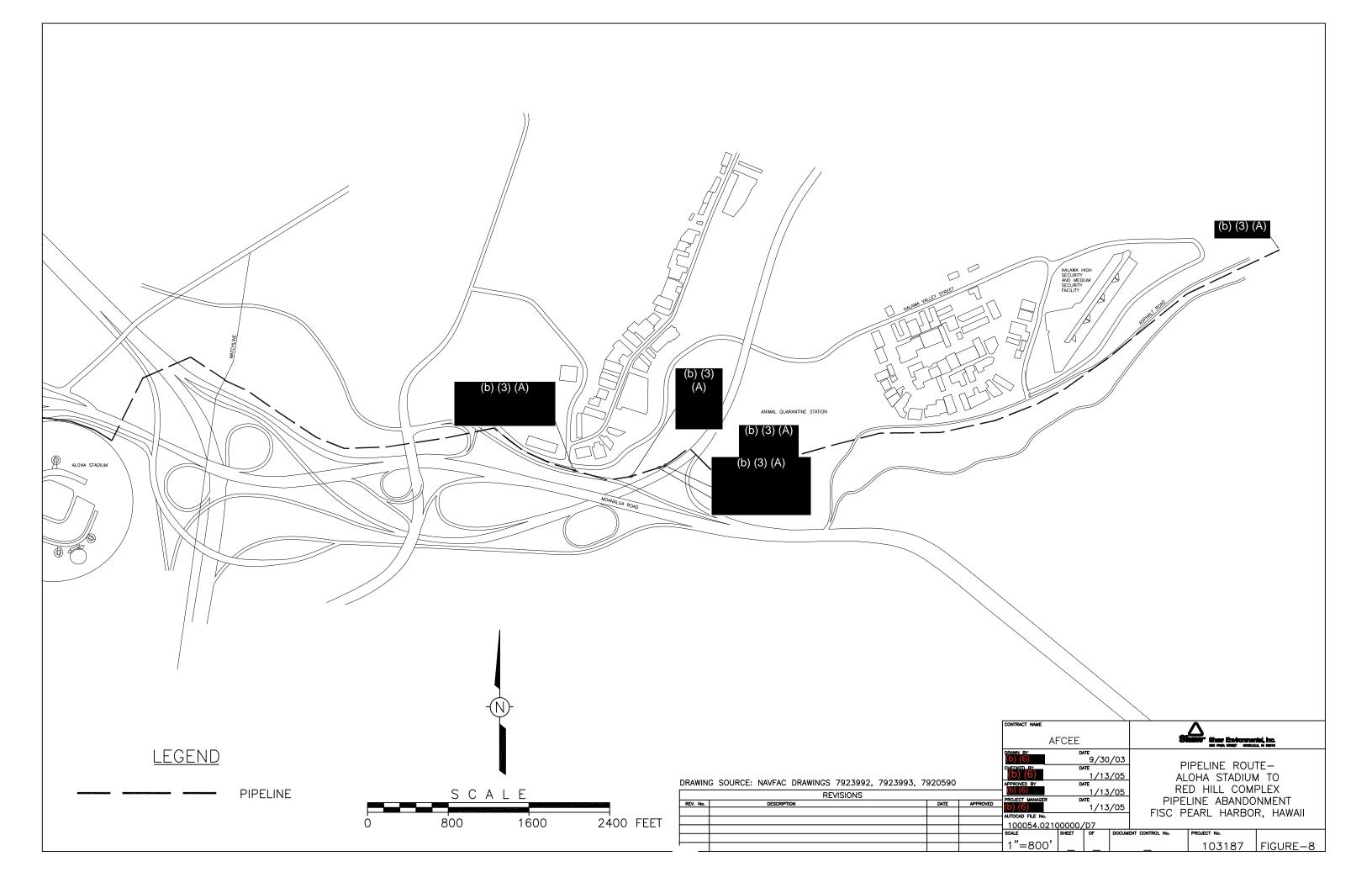
<u>LEGEND</u>

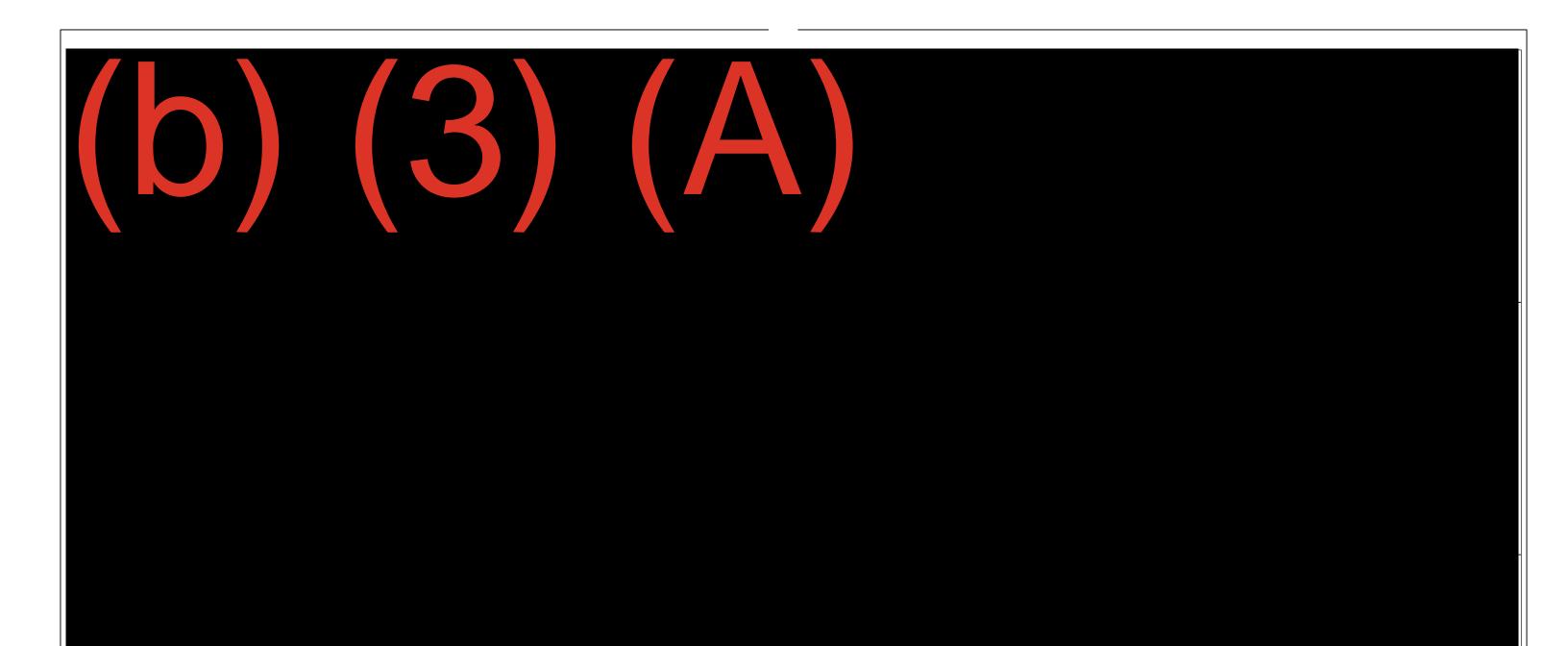
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			1"=600	_	_		_	103187	FIGURE-6	









APPENDIX B PHOTOGRAPH LOG

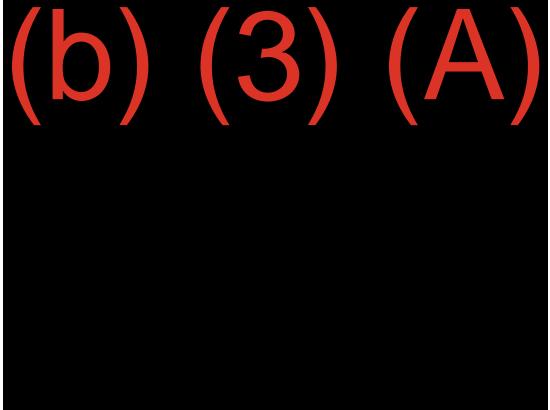


Photo 1: -inch bare pig in launcher at Red Hill Complex

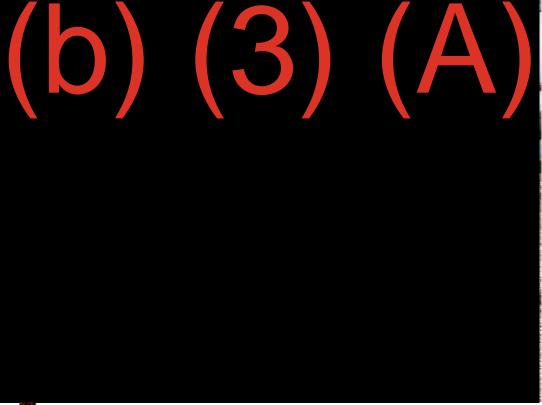


Photo 2: einch bare pig in receiver at PCFA

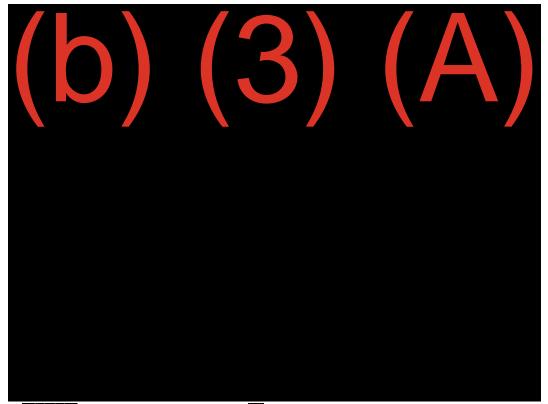


Photo 3: (b) (3) – spool was removed and in-inch blind flanges were installed. No other valve chambers on the inch pipeline were modified.

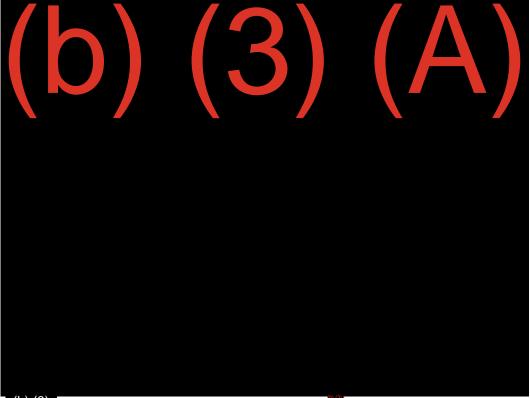


Photo 4: (b) (3) — typical valve and valve chamber on the removed on the removed

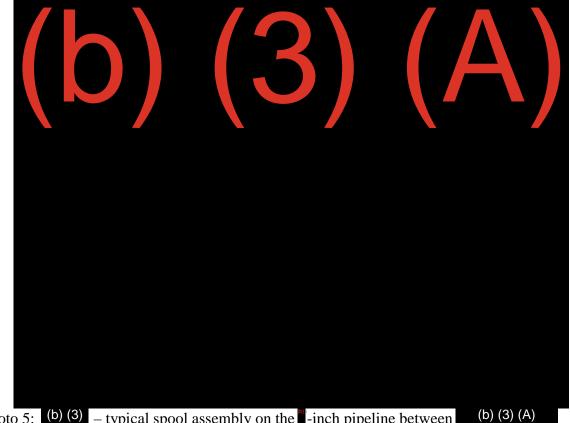


Photo 5: (b) (3) – typical spool assembly on the -inch pipeline between (b) (3) (A)

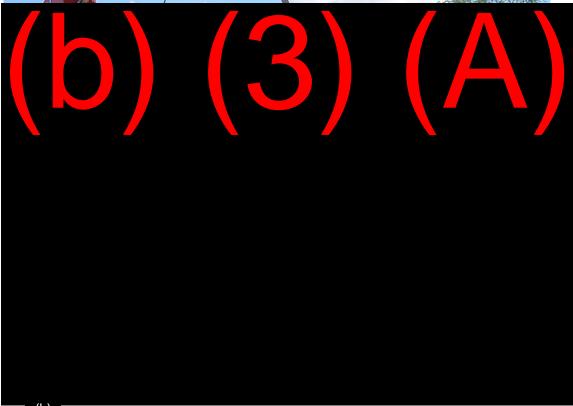


Photo 6: (b) – removal of spool prior to pigging activities

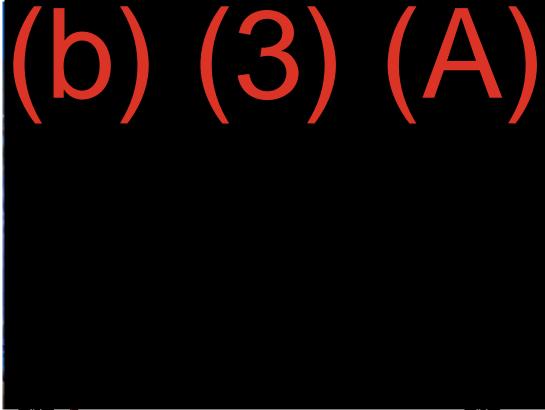


Photo 7: (b) — inch bare pig arrives in receiver after being launched from (b)

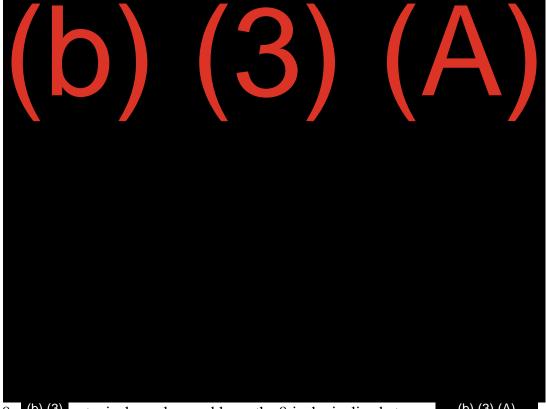


Photo 8: (b) (3) – typical spool assembly on the 8-inch pipeline between (PCFA). Removed valves and hardware were left in the valve chambers.

(b) (3) (A)

APPENDIX C WASTE TRANSPORTATION AND DISPOSAL DOCUMENTATION

Hamaii Marine

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•	91-127 M=100	olo Street, Kapolci, H	HAWAII, LTI).	GE	NERATOR	WAS	TE PRO	OFILE	
	Tel (502) 68	2-3033, Fax (80%) 6	87-8026				Profi	ik Sheet No.	BW-01/25/01	
a. Gener	ATOR INFOR	MATTON								
Name:	NCTAMS	PAC		Consul	paire:	(b) (6)		Code 1	74(P2-1/1)	
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B, TRANSI	ORTER INFO	RMATION								
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				-37.	7 .7		Com	vity;	_	
Color Vari	005	Odor: Petro % Water:	99%	gh: 7,24 % Oil: 1%						
% Solid:-	CAL COMPO		7970	1 200		مار				
I. COMPO		RANGE (%)	2. TCLP ORGANI	ICS AND I	META	I S (onm / mgl.)				
Water	14231	99%	Benzone: <0.05		_	mic(A5); <0.50		Backen (B	n); < 100.0	
Oil		1%	Cudraium (Cd): <().69	Chromium (Cr): < 0.13			Lead (Pb):	<u>, </u>	
Sludge		82				River (So); <2.0		Silver (Ag): <0.43		
014-310		<u> </u>	3, STEX and TOT							
			Benzamu: ≤ 0.0	_		ese:≤0,/42		Ethyl benz	ess;≤ D.0342	
	· · · · · · · · · · · · · · · · · · ·	 	Total Xylene: 0			d Halogen XX		TPH-Oil;	X	
Additional	Information Att	actual; See B	American Analysi			DISDS	XX	er (General	or Knowledge)	
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Status:		Accepted	Rejected	Reserve	s' (tu l	Rejections		·		
Accepted/I	Rejected By;			Signati	дe;		Da	te:		



99-193 Alea Heghto Drive. 5 site 121 Aica, Human 96701-3900 Talephona (808)486-LABS (5227) Fac (808)486-2456 L-redi. Info@occaric-into.com

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LABORATORY USE ONLY	0
LAB JOB NO. COLOROGIL	0
LOCATION	1 1
CONTAINERS	4

Chain of Custody / Analysis Request Form 980:E0 Project Identification Indicate Analysis Requested Dale Resuts Kaesed Ma irix Sampling 7 0 7 GRAB Client Sample LD Time Qate Laboratory No. 8/23 0330 11 11 016 016 12 5 6 8 ÇÜ ÇÜ Released by Date / Time Received by Company / Agency Date / Time **Delivery Method** (Print/Stanature) Released Condition Noted **Affiliation** Received COL 23 Cintact Comments: Please Check Box Dispose by Lab Dispose by Lab Dispose by Lab Dispose by Lab Dispose by Lab

Date: Sep 01, 2004

Work Order Sample Summary

Client:	Hawaii Marine Cleaning								
Project:	Red Hill Cross Country Pipe								
Work Order:	0408094								
Date Received:	8/23/2004								
	Analytical	Report for Samples							
Lab Sample ID	Client Sample ID	Collection Date	Sample On Hold						
0408094-01A	016	08/23/2004 08:30							
0408094-01B	016	08/23/2004 08:30							
0408094-01C	016	08/23/2004 08:30							
0408094-01D	016	08/23/2004 08:30							
D408094-02A	Trip Blank	08/18/2004 00:00	ī						

Date: Sep 01, 2004

Case Narrative

Cilent:

Hawaii Marine Cleaning

Project:

Red Hill Cross Country Pipe

Work Order:

0408094

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition.

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives.

G08: The fuel pattern in the gasoline range does not resemble the fuel standard used for quantitation.

D06: The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

TOX analysis was performed by North Creek Analytical, Bothell.

Q02: The spike recovery/RPD for this QC sample is outside of established control limits due to sample matrix interference.

Date: Sep 01. 2004

Result Summary

Client: Work Order: Hawaii Marine Cleaning

0408094

Red Hill Cross Country Pipe

Project: Lab ID:

0408094-01A

Client Sample ID: 016

Tag Number:

Collection Date: 08/23/2004 8:30

Matrix: AQUEOUS

	Reporting			Dilutio	n Dutr	Date	Butch	
Analyses	Result	Limit	Units	Pactor	Prepared	Analyze	TD	Qual Notes
BASOLINE RANGE ORGANICS (GRO	DYBTEX	······································			SW	/8015B/8021B		
<u>Benzenu</u>	45.6	1.00	րջ/Լ	1		8/25/2004 2:53:00 PM	R26755	
Elnyibenzene	34.2	1.00	µg/L	1				
<u>GRO</u>	867	100	µg/L	1				GOS
<u>m.o-Xylena</u>	120	2.00	μg/L	1				-
o-Xylane	<u>73.</u> 4	1.00	μg/L	1				
<u>Toluone</u>	142	1.00	μg/L	1				
Surr: Chlorobanzene	92.2	65-125	%RFC	1				

Qualifiers

ND . Not Detected at the Reporting Limit

I - Analyte detected below quantitation limits

B - Analyte detected in the associated Mothod Blank

* - Vaine exceeds Maximum Contaminant Level

S . Spike Recovery auxide accepted recovery limits

R - RPD outside accepted recovery limits

E - Value ahove quantitation range

Date: Sep 01, 2004

Result Summary

Client:

Hawaii Marine Cleaning

Work Order:

0408094

0408094-01B

Client Sample ID: 016

Tag Number:

Project: Lab ID: Red Hill Cross Country Pipe

Collection Date: 08/23/2004 8:30

Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Unlis	Dilution Factor	Date Prepared	Date Apalyze	Ontch ID	Qual Notes
ICP METALS, TCLP LEACHED				SW:	3015 8W	1311/6010B		
Arsenic	NO	0.500	mg/L	1	8/26/04	8/26/2004 2:09:00 PM	10266	
Barium	ND	1.00	mg/L	1				
Cadmium	ND	0.0500	mg/L	1				
Chramium	ND	8.100	mg/L	1				
Lead	ND	0.200	mg/L	1				
Solonium	ND	0.500	mg/L	1				
Silver	ND	0.200	mg/L	1				
MERCURY, TCLP LEACHED	•••••			SW	7470 SW	1311/7470		
Mercury	ND	0.00250	mg/L	1		8/24/2004 3:01:00 PM	10255	
PH	*****			- * 1 • • • •	E15	50.1		,
oН	7.24	1.00	pH units	1	8/23/04	8/23/2004 4:17:00 PM	R28728	

I - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

^{- -} Value exceeds Maximum Contaminant Level

S - Spike Recovery nutside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

FINK (200) MR-2016 To: Date to the Date: SAUDI 2: 12:20 PM

Oceanic Analytical Laboratory, Inc.

Date: Sep 01. 2004

Result Summary

Client:

Hawaii Marine Cleaming

Client Sample ID: 016

Work Order:

0408094

Tag Number:

Project:

Red Hill Cross Country Pipe

Collection Date: 08/23/2004 8:30

Lab ID:

0408094-01C

Matrix: AQUEOUS

		Reporting		Dilution Date		Date	Batch	,	
Analyses	Result	Limit	Units	Pactor	r Prepared	Analyze	ID	Qual Notes	
TPH (DIESEL AND OIL)				SW3	510B SW	/8015M			
TPH (Diasal)	2460	556	μg/L	2		8/27/2004 10:58:00 A	10260	D06	
TPH (Mater Oil)	ND	1110	μg/L	2					
Surr. Q-Terphonyl	92.9	13-113.4	%REC	2					

B - Analyse detected in the associated Method Blank

^{* -} Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Date: Sep 01, 2004

Result Summary

Client:

Hawan Marine Cleaning

Client Sample ID: 016

Work Order;

0408094

Tag Number:

Project:

Red Hill Cross Country Pipe

Collection Date: 08/23/2004 8:30

Lab XD:

0408094-01D

Matrix: AQUEOUS

Analyses		Reporting		Diletio		Date	Butch	
	Kessit	Linit	Units	Factor	Prepared	Analyze	110	Qual Notes
TOTAL ORGANIC HALOGENS		,			SY	V9020		
Total Organic Halides (TOX)	ND	0.0200	mg/L	1	8/31/04	8/31/2004	4H31051	

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

7 - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD ausside accepted recovery limits

E - Value above quantitation range

808 455-9230

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A GENER	ATOR ENFORM	ATION			(b)	(6)	1	J465-NT
Name:	NOTAM	SPAC		Consulta		(6)	-	
Site Address:	Waniaw	i st. 90180	0-3050	EPA (D		100004		
Bus. Address:	Same			Pho		3 0575 300 300 300 300 300 300 300 300 300 300	-12	50
Coninct				F/	x Bue	, 623		
B. TRANS	COTAL RETAIOS	RMATION						
		ine Cleanin	a	EPAT	Dily: 14	IR OOD	355	82
A delegate	Charles W	Sinona St. E	玉 Rearl City	Det	ия. (b)	(6)		
	STREAM INF					•		
			sa Generating Was	m: Draw	in fru	el lin	e	
Estimated	ic Oil Bu		od of Shipment			: Donc time		ly Decembly Decembelly
D. HAZAI US EPA	RDOUS PROPE L Bezardous Was EAL CHARAC	enties to Code. Cyr	mides, Sulfides, Ar	niges, PCBs	mider Phe	nolius presen	<u> </u>	Yes 🗓 no
		Odor: Petro		pH:	7.24	*********	Gravit	y:
Color: Va	Notes	% Water:	47%		50	%		
% Solid>	170		7770					
<u> </u>	ICAL COMPO	RANGE (%)	2. TCLF ORGA	NICE AND	METALS (mgL)		
I. COMP	DMENT	<u> </u>	Butters <0.05		Arsenic (В	erium (Ba): < 100.0
Water		49%	Carlmitan (Ca)	CD 69		(Cr): < 0.13	ī	end (Pb): <0.60
Oil		50%	Mercacy (Hg): <			(34): <2.0		ilver (Ag): <0.43
Studge		1/2	3. BTEX and TO				ليبيي	
			Benzon: < 0				E	thyl benzenc:< 0.0342
			Total Xylena (ogeo 💢		PH-Oil: 🐒
2 2 20,0		1 500 1	Aremai Lab Anai		CASI		X Duher	(Generator Knowledge)
G. GEN 1 hereby on cartify that Stories; to	the sublest treets of N	DETCATION SON E IS COMMENTED AND INCOME. SON	octions and property and a defined by foders and a defined appropriately	(the subject we date regulation	Tandandurd			ore beam districted. I further more citil be seccepted at the Pullips on Spec Dance: 9/10/04
H. ACC	eptance sta	T03			· · · · · · · · · · · · · · · · · · ·	<u> </u>		, , , , , , , , , , , , , , , , , , ,
Statue.	Ö	Accepted	1 Rejected	Resso	ar for Keje	ALCON:	Im.	
Atcepte	d/Rejected By:			Sign	Mer.		Deb	:



99-193 Aira Hoghto Drve, Suite 121 Alea, Hawaii 96701-3900 Telephore: (808)486-LABS (5227) Fac: (808)486-2456 E-mail: Info@oceanic-info.com

LABORATORY USE ONLY								
LAB JOB NO	0402667							
LOCATION								
CONTAINERS								

			C	Ch:	air	ı a	f C	u	st	a	dv I	Analy	sis R	eau	est	For	m		COL	ITAIN	ERS_				
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Hern No.	Client Sample I.		COMP	- I		ž	Gludge Is	iń»	Dito.	5 6	Praservation	8/	2-4	Number of Containers							/				
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====	Released by (PnavSignature)	Date / Time Released		liver		elfox	3		<i>†</i>	<u></u>		rceived by				Сопра А	filiati	Ey	00		Time ceived	1025	77	Condition Noted	67
	6	1											6					 			1			col	
Cor	mmenis																					<u>.</u>	Plea D D U R D A	se Check Box ispose by Lab eturn to Client rchive	

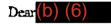
August 24, 2004

Hawaii Marine Cleaning 96-1382 Waihona Street, B5 Pearl City, HI 96782

TEL: (808) 455-8226 FAX: (808) 455-8230

RE: Red Hill Cross Country, #598

Work Order No.: 0408087



Occanic Analytical Laboratory, Inc. received/relegged 1 sample on 8/18/2004 10:25 AM for the analyses presented in the following report.

The total number of pages in the report including this Coverletter, Sample Summary, Case Narrative, Result Summary, QC Summary, Chain of Custody form(s); Relog Request Form and/or any attachment(s) is

All data presented in the following report are relevant only to the samples as received and to the items tested by the laboratory. All data are calculated based on well weight except where noted in the reporting unit. The report meets all applicable NELAC standards and shall not be reproduced except in full, without the written approval of the laboratory.

There were no problems with the analyses and all data for associated OC met laboratory specifications except where noted in the Case Narrative

Applicable samples will be stored at no extra charge for a period of 30 days following the final report. Samples will be properly disposed of after 30 days, unless notified otherwise in writing.

If you have any questions regarding these tests results, please feel free to call.

Very truly yours, OCEANIC ANALYTICAL LABORATORY, INC.



Laboratory Manager

Date: Aug 24, 2004

Work Order Sample Summary

Client:

Hawaii Marine Cleaning

Project:

Red Hill Cross Country, #598

Work Order:

04080B7

Date Received: 8/18/2004

Analytical Report for Samples

Lab Sample ID

Client Sample ID

Collection Date

Sample On Hold

Date: Aug 24, 2004

Case Narrative

Client:

Hawait Marine Cleaning

Project:

Red Hill Cross Country, #598

Work Order:

0408087

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition.

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives.

C01: To reduce matrix interference, the sample extract has undergone sulfturic acid cleanup, SW3665A, which is specific to hydrocarbon interference.

C02: To reduce matrix interference, the sample extract has undergone tetrabutylammonium (TBA) sulfite cleanup, SW3660B, which is specific to sulfur interference.

AN DER BOADE SEITE PAR

p.5

Oceanic Analytical Laboratory, Inc.

Date: Aug 24, 2004

Result Summary

Client:

Hawan Manne Cleaning

Client Sample ID: 08

Work Order:

0408087

Tag Number:

Project:

Red Hill Cross Country, #598

Callection Date: 08/18/2004 0:00

Lab ID:

0408087-01A

Matrix: OIL

	1	Reporting		Dilution	Dute	Ďzte	Batch	
Abalyses	Result	Limit	Units	Factor	Prepare	d Analyze	ID	Qual Notes
IONITABILITY			41141441		81	W1010		
Ignitability	<u><200</u>	77 O	" F	1	8/24/04	8/24/2004 12:00:00 PM	R26736	
PCBS IN GIL OR SOLID WASTE			• • • • •	EWZ	SEOA S	W8082		C01/C02
Areclor 1016	ND	1.00	mg/Kg	1	8/18/04	8/18/2004 4:27:00 PM	10225	
Aroclor 1221	ND	1.00	mg/Kg	1				
Arocior 1232	ND	1.00	mg/Kg	1				
Arocior 1242	ND	1.00	mg/Kg	1				
Aroclor 1248	ND	1.00	mg/Kg	1				
Araclar 1254	ND	1 00	mg/Kg	1				
Araclar 1260	ND	1.00	mg/Kĝ	1				
Surr: Decechloroblphenyl	112	50-150	%REC	1	ē			
SPEC FUEL METALS				sw	3051 8	W6010B		
Argenic	ND	5.00	mg/Kg	1	8/23/04	8/24/2004 12:46:00 PM	10242	
Beryllium	ND	0.120	mg/Kg	1				
Cedmium	ND	2.00	ოე/Қე	1				
Chromium	ND	5.00	mg/Kg	1				
Ļead	ND	5.00	тд/Кд	1				
Sulfur (ecroen)	ND	0.0200	mg/Kg	1				
TOTAL HALOGEN SCREEN	<i></i> .				S	W9077		
Total Halogen Screen	<1000	1000	mg/L	1	8/24/04	8/24/2004 4:00:00 PM	R26734	

Qualifiers

ND - Not Detected at the Reporting Limit

I - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Ple (Fo	ase print of type midesigned for use on elite (12-pilch) typewriter) Fige L	w				
	NON-HAZARDOUS 1. Generator's US EPA ID No. WASTE MANIFEST #1 P.D.O. O.D. 4.8.8	Manifest Doc. No. 2. Pag	e 1			
A			2013/3	71		*
	500 Center St. WAhiawas Hi, 9	6786-3050	5151	ว์		
	5. Transporter 1 Company Name 6 US	EPA ID Number A Tree	nsporter's P	hone		
	THAWAI MArine Cleaning HIROL 7. Transporter 2 Company Name 8. US	00135582(80	8 45	5-	822 6	,
		EPA ID Number B. Ifal	nsporter's F	'none		
	9. Designated Facility Name and Site Address Philips Services HAVAIITD 91-127 MAIA Kole 37.	EPA ID Number C. Fac	ility's Phone	ı		
	KAPOlei, Hi. 96707 HIROU	0000927 (90	8)6	82	-3033	;
	11. Waste Shipping Name and Description		12. Cont		13. Total Quantity	14. Unit Wt/Vol
	a. NOT Regulated by Do.	7		.,,,,,		
	Oily WATER		0.0.[77	\$5000	9
GEZE	b.			•		
E R A	c.			-		
T O R						
	d.		· · ·	-		
	# Clas 200 0.0					
	D. Additional Descriptions for Materials Listed Above	E. Han	dling Codes	for Was	ites Listed Abov	е
	D. Additional Descriptions for Materials Listed Above H. Clor 200 pp 34 HM. SP, // Response Pe walls from hell Hill 545-5					
	15. Special Handling Instructions and Additional Information			•		
	99% WAter, 1% 0/15					
	16 GENERATOR'S CERTIFICATION: Location to a selected described and the selected described described and the selected described and the selected described described and the selected described and the selected described described and the selected described and the selected described described and the selected described described and the selected					
	16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest Printed/Typed Nan (b) (6) Signature		eporting prop	er dispos		ay Year
Į,	17. Transporter 1 Acknowledgement of Receipt of Materials				7 /	5 0.9
-RAZSPOR-ER	(b) (6)	(6)			Month D.	y Year
P O R	18. Transporter 2 Acknowledgement of Receipt of Materials) (0)				
Ė	Printed/Typed Name Signature				Month D.	ay Year
F	19. Discrepancy Indication Space					
F A C I						
LLT	20. Facility Owner or Operator: Certification of receipt of waste materials covered by this materials covered by the cover	anifest except as noted in Item 19.				
Ÿ	Printed/Typed Name Signature				Month Da	ay Year
L	(D) (6) (d) (ed by J.: J. KELLER & ASSOCIATES, INC.	(b)		(Carty Na	OY 19	7 104

Ple (Fc	ase print or type m. designed for use on ellle (12-pilch) typewriter.)	enerator's US EPA ID No. Manifest D					
	NON-HAZARDOUS 1. G WASTE MANIFEST 計(enerator's US EPA ID No. Manifest D. R. O. O. O. O. 4. 9. 8. 9. 12 0. 0. 1.	00c. No. 2. Pag	re 1			a ann an An
A	WASTE MANIFEST 3. Generator's Name and Mailing Address NCTAMS PAC 500 centur St. Wahiawa I	(b) (6) Code N4651	17)	w1	331	Î	
Section 2	goo centur St. Wahiawa 1	ti. 94786-3050		51	51	5	
	4. Generator's Phone (00%) 653 4650 5. Transporter 1 Company Name	6. US EPA ID Number	A. Tra	nsporter's Ph	оле	-	
	Hawaii Marine Cleaning Ll 7. Transporter 2 Company Name	LC H. 1. R. O. O. O. 1. 3. 5. 5. 5. 8. US EPA ID Number		nsporter's P		-8226)
	Designated Facility Name and Site Address	<u> </u>		-			
	Philip Services at -127 Mala Role 4.	10. US EPA ID Number	O. Fac	ility's Phone			
	Kapolei Hi. 96707	[H. 1. R. O.O. O. D. O. 9.	27 (8	XXX) 68	2-3	033	
	11. Waste Shipping Name and Description			12. Conta	iners Type	13. Total Quantity	14. Unit Wt/Vol
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WEST AND	a. NOT Regulated	WATER		0.0.1	17	.5.000	6
G E N	b. /					•	
ERA	c.		····		-		
TOR							
	d.						
	D. Additional Descriptions for Materials Listed Above	· clor 200 ppm	E. Han	dling Codes	for Was	tes Listed Above	
	D. Additional Descriptions for Materials Listed Above to a company of the second state	1% Oils					
25000000	15. Special Handling Instructions and Additional Information	1			·		
	24 hr. Spill Response	(Xench)	_				
	,	908 545-5195					
Natural Section Sectio							
	16. GENERATOR'S CERTIFICATION: I certify the materials	described above on this manifest are not subject to federa	if regulations for r	eporting prope	er disposi	al of Hazardous Was	ite.
V	16. GENERATOR'S CERTIFICATION: I certify the materials Printed/Typed Name (b) (6) ON BEHRUF OF GENERA	SHAW) Signature	3)		•	Month Day	Year O /
T R	17. Transporter 1 Acknowledgement of Receipt of Materials			###W.	I	<u>حب ا</u> ۲۰ ا	P ./
-RAZ&POR-ER	(b) (6)	(b) (6)				Month Day	Year
OR T	18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name	Signature				Month Day	/ Year
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R							
F	19. Discrepancy Indication Space						, Oxford Control
FACI	19. Discrepancy Indication Space						
FACILIT	19. Discrepancy Indication Space 20. Facility Owner or Operator: Certification of receipt of was PSC WWTP	ste materials covered by this manifest except as not	ed in Item 19.				COMPANY OF THE PROPERTY OF THE
FACILI	19. Discrepancy Indication Space	ste materials covered by this manifest except as not	ed in Item 19.			Month Day	Year

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	ase print or type rm designed for use on elite (12-pitch) typewriter.)	Pipulin							
<u> </u>	NON-HAZARDOUS	1. Generator's US EP/		Manifest Doc. No.	2. Page	1			
	WASTE MANIFEST	H.1 R.0.0.0.			of	'			
A	3. Generator's Name and Mailing Ad	code N4		00705					
1 T			•						
	500 center et. Wahiawa		3020						
	4. Generator's Phone (808) 653-9	<i>O</i> v8							
	5. Transporter 1 Company Name	6.	US EPA ID N	umber	A. Trans	sporter's Pl	none		
88	Haway marine cu	EARING LLC H	1.2.000.1.	3.5.5.8.2		8) 4		8276	
Harry I	7. Transporter 2 Company Name	8.	US EPA ID N		_	sporter's P		<u> </u>	
	Designated Facility Name and Site Address	10.	US EPA ID N	umber	C. Facil	ity's Phone			
	Philip Services Hawai	(, LTO							
2	91-127 malakole ST	1.1							
	Kapole1 HI 96707	[4.	1.2.0.0.0.0.	F5.9.00	(80	9/68	2-3	033	
	11. Waste Shipping Name and Description				-	12. Conta	ainers	13. Total	14. Unit
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R	c.		***		L				
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NAME OF THE PARTY	d.	***************************************	·						
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in was	D. Additional Descriptions for Materials Listed Ab		6) = 1	****	E. Hand	ling Codes	for Was	tes Listed Above	
	99% WAte	c 1%	0.15						
AND THE PERSON NAMED IN COLUMN 1									
	15. Special Handling Instructions and Additional In	formation (m-0)							
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	16. GENERATOR'S CE(b) (6)		this manifest are not sub		- Volta	porting prop	er dispos	al of Hazardous Was	ite.
	16. GENERATOR'S CE Printed/Typed Name				- Volta	porting prop	er dispos	Month Day	Year
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Printed by J. J. KELLER & ASSOCIATES, INC. Neenah, WI 54957-0368

12-BLS-C5 Rev. 12/98

Pie (Fo	ease print or type om designed for use on elife (12-pitch) typewriter.)		7			
Γ	NON-HAZARDOUS WASTE MANIFEST 1. Generator's US EPA ID No. H. I. R. O. O. O. D. H. B. B. Q. 2 O. O. I. O.	No. 2. Pag	e 1			
A	3. Generator's Name and Mailing Address (Attn: (b) (6) Code N465NT) 500 Center St. Wahiawa Hi. 96786 -3058	7)	190 515	355 22.	-	_
	4. Generator's Phone (808) (653-9858		- •			
	5. Transporter 1 Company Name Cleaning VIC 6. US EPA ID Number Hawain Marine Cleaning VIC HIR 0.00.1.3.5.5.8		rsporter's P 多) 45		3226	
	7. Transporter 2 Company Name 8. US EPA ID Number	B. Trai	nsporter's F	hone		
	9. Designated Facility Name and Site Address 10. US EPA ID Number Phillip Services Hawaii, LTD. 10. US EPA ID Number 91-127 Malakole Street.		ility's Phone		2027	
	Kapolei, Hi. 910707 H.I.D.9.8.2.0.4.1.4.0	2 (8)	W CO	さレイ	3033	
	11. Waste Shipping Name and Description		12. Cont	ainers Type	13. Total Quantity	14. Unit Wt/Vol
	" Waste Fuel, Aviation TURBINE E.	NGINE		1,750	2500	11070
	4N 1863 Flammable	TIME	0.01	T.T	50.00	4
GEN	b.					
E R				<u> </u>		
A T Q						
R	d.		- ,	<u> </u>		
	D. Additional Descriptions for Materials Listed Above HYDLAR 200 ppm	E. Han	l dling Codes	for Wa	stes Listed Above	<u> </u>
	D. Additional Descriptions for Materials Listed Above 75% waste water Hypology 200 ppm 25% Fuel Aviation Thering Engine					
	25% Fuel Aviation Turbine Engine 15. Special Handling Instructions and Additional Information					
	14 hr Cvill Decorace (Penco)					
	808 545-5195					
	SEE ATTACHED Profile AND ANALY	TIC	AL			
	16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal re	gulations for r	eporting prop	er dispo:	sal of Hazardous Wa	ste.
V	Printed/Typed Name ON BEHOUF DI- GUNGRATOR Signature				Month Day	Year
T R A	17. Transporter 1 Acknowledgement of Receipt of Materials		***		Month Day	Year
ANSPORTER	18. Transporter 2 Acknowledgement of Receipt of Materials				1 9 1/6	104
RTER	Printed/Typed Name Signature				Month Day	Year
	19. Discrepancy Indication Space				<u> </u>	<u> </u>
F A C I	1067 gal. pertoteum 1433 gal. wales					
LIT	20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in PSC WWTP	n Item 19.				
Ý	Printed/Typed Nome (6)				Month Day	Year
	oted by JNLKE U.ER & ASSOCIATES JNC			ar and		

Ple (Fo	ise print or type. m designed for use on elite (12-pitch) typewriter.) Pipeline				
	NON-HAZARDOUS 1. Generator's US EPA ID No. WASTE MANIFEST 1. R. D D.O. D 4. B. 8.9.1 0.0. 1.0 5	2. Page 1 of			
A	3. Generator's Name and Mailing Address Attn: (b) (6) (code N4 (ENT) IDD Center St. Waihiawa Hi, 90186-3050		5153	•	
	500 Center St. Walhiawa Hi, 96186-3050 4. Generator's Phone (808) 653-9858	U	s 1360	7	
	5. Transporter 1 Company Name Hawaii Harine Cleaning LLC Al. R.O. 6.1. 3.55.82	A. Transporte	er's Phone	-8226	
	7. Transporter 2 Company Name 8. US EPA ID Number	B. Transporte			
	9. Designated Facility Name and Site Address 10. US EPA ID Number	C. Facility's P	hone		
	Philip Services LID al-127 Malakole St. Kapolei, Hi. 94707 H.I.R. 00.0.0.00927	(808)	(a) -	ースハスプ	
	Kapolei, Hi. 90707 H.I.R. 00.0.0.0097.1		Containers	13. Total	14. Unit
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T O R					
	d.				
	D. Additional Descriptions for Materials Listed Above	F. Handling C		stes Listed Above	
	·	c. Handing o	oues for we	ales Listed Above	
	190 Diesel aggo Water				
	15. Special Handling Instructions and Additional Information 24 hrs Spill response (Penco)				
	29 hrs. Spill response (10100) 808 545-51	95			
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	15 CENEDATORIO CENTICIA TON	~			
	16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulation. Printed/Typed Name (5) (6) Signature (Control of the Control of the Contr	ions for reporting	proper dispo	Month Day	y Year
T R.	TOR GUNGARY TOR 17. Transporter 1 Acknowledgement of Receipt of Materials			0.9 2.	(10.7
Α	(b) (6) (6)			Month Day	7 O.4
ZWT-MC TWZ	18. Transporter Acknowledgement of Receipt of Materials Printed/Typed Name Signature			Month Day	y Year
Ŕ	19. Discrepancy Indication Space			<u> </u>	
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FACILI	20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Ite	m 10			
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againe.	Print (b) (6) (b) (6)			Month Day	
	ad by J. J. KELLER & ASSOCIATES, INC. ah, Wi 54957-0368		12-	BLS-C5 Rev	

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	NON-HAZARDOUS 1. Generator's		2. Page 1 of			
A	3. Generator's Name and Mailing Address NCTAMS PAC (Attn: 6) (6) 500 Center St. Walliawa Hi. 6 4. Generator's Phone (908) u53-9858	(ade. N4105NT)				
and an area	5. Transporter 1 Company Name Havail Harine Cleaning	6. US EPA ID Number H.1 Q.0.0.0.1.3.5.5.8.2	A. Transporter	's Phone	-8226	
	7. Transporter 2 Company Name	8. US EPA ID Number	B. Transporter	's Phone		
	9. Designated Facility Name and Site Address Philo Servi are LTV	10. US EPA ID Number	C. Facility's Ph	ione		
	al-171 MALAKOLE ST. KADOTEI . HI 96707	H. 1.RO.O. 0.0. 0.09.27	(808)	<u>6</u> 2	-3033	
	11. Waste Shipping Name and Description			Containers	13. Total	14. Unit Wt/Vol
Note the second	" NOT REgulated by DOT		110	,,,,,	- Gaariniy	as
 	DILY WATER		0.0	. 1 T. T	4.5.0.0	G
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STATE	D. Additional Descriptions for Materials Listed Above		E. Handling Co	des for Wa	astes Listed Abov	e
	1% Diesel 99% WATER 15. Special Handling Instructions and Additional Information				****	
	24 hrs . Spill Response	e (Penco) 808 545-5195				
	16. GENERATOR'S CERTIFICATION: Logarity the materials described	above on this manifest are set subject to federal	tions for reporting	proper dispo	osal of Hazardous V	Waste /
V	Printed/Typed Nam (b) (6) CHR & TOR		3		Month D	all Year 1104
TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials 18. Transporter 2 Acknowledgement of Receipt of Materials	(b)(6)			Month D	Pay Year
R T E R	Printed/Typed Name	Signature			Month D	ay Year
FAC	19. Discrepancy Indication Space					<u> </u>
AC-L-F	20. Facility Owner or Operator, Contification of receipt of waste materi	ials covered by this manifest except as noted in It	em 19.			
Y	Printed/Typed Na	Signature (b) (6)	Promote to the State	Davids (00-00-00-00-00-00-00-00-00-00-00-00-00-	09 2	4 4
	ed by J. J. KELLER & ASSOCIATES, INC. hah, WI 54957-0388 ORIGINA	L – RE1 July TO GENERATOR		12:	BLS-C5 Re	v. 12/98

Plea (Foi	se print or type in designed for use on eille (12-pitch) typewriter.)	Pipeline					
	NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No. Manifest Doc. No. H. I R. O. O. O. J. 2. 89. 200 000	s of ັ	1			
A	3. Generator's Name and Mailing Address NCTAMS PAC (ATTN	0) (6) , code N405NT) AWA H1 96786-3050		1			
	500 CENTER, ST WAHLE 4. Generator's Phone (808) 653 9	AWA H1 46786-2000					
	Transporter 1 Company Name	6. US EPA ID Number		sporter's P		6 /	
	HAWATI MARINO CICA. 7. Transporter 2 Company Name	() () () () () () () () () () () () () (<mark>8)作り</mark> isporter's F		8726	_
	Designated Facility Name and Site Address		C. Faci	lity's Phone			
	9. Designated Facility Name and Site Address PHILIP SERVICE LTD 9127 MALAKOLE ST. KAPOLEL HI 96707 11. Waste Shipping Name and Description						
	KAPOLEI, HI 96707	[H. I.R. D.O. O.O. O. O. 9.2.	7 (80	12. Cont		30 33	14.
	· ·	- Marches and		No.	Туре	Total Quantity	Unit Wt/Vol
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G	DILY WATER			001	7.7	-2000	5
GENER							
A	C.						
O R I					-	. , , .	
	d.						
	D. Additional Descriptions for Materials Listed Abov	е	E. Hand	dling Codes	for Wa	stes Listed Above	
	10/6 Diesel 990/0						
	15. Special Handling Instructions and Additional Info						
	24 hrs spill Respo	onse (renco)					
		808 545-5195					
	16. GENERATOR'S CERTIFICATION: Locality the m	naterials described above on this manifest are not subject to federal regu	lations for re	enodina erer	ner dieno	sal of Hazardous Was	ste
	Printed/Typed Nam (b) (6) ON BUHALF OF GENERA	(SHAW) (6)	SIGNOTIS TOT TO	sporting prop	per dispo-		Wyear LV L
T B	17. Transporter 1 Acknowledgement of Receipt of M					<u> </u>	1/2
TRANSPORTER	(b) (6)	(b) (6)				Month Day	Year OU
O R T	Printed/Typed Name					Month Day	Year
R	19. Discrepancy Indication Space			·			-
F							
AC-L	20 Spailite Oursey of Ocadion Continued in		January 400				
LITY	TSE MOST	ot of waste materials covered by this manifest except as noted in	item 19.				7. 7
	Printed/Typed Nan	Signatur (D) (6)				109 24	n sep

Ple (Fo	ase print of type m designed for use on elite (12-pitch) typewriter,)	Pipeline					
	WASTE MANIFEST H. I. R.O.	0.004.289.210.01	Doc. No. 2. Pag . 6 of	je 1			
A	3. Generator's Name and Mailing Address NCTAMS PAC CATTN. (b) (6 500 CENTER) S7 WAHIAWA, 4. Generator's Phone (808) 6539858 5. Transporter 1 Company Name	D HI 96786-3050		·			
	5. Transporter 1 Company Name HAWATI MARINO CLEANING 7. Transporter 2 Company Name	6. US EPA ID Number [H. 1 . R. 0.0 . 0 . 3 . 5 . 5 . 8 8. US EPA ID Number	3.2 (8	nsporter's Pr 08) 4 nsporter's P	55	8726	
	Designated Facility Name and Site Address	10. US EPA ID Number	<u> </u>	cility's Phone			
	Philip Services LTD. 91-127 MAKA KOLE ST. KAPOLEI HI 96707	[H.1.R.0.0.0.0.0.0.9	.2.7 (8	308) (82-	3033	
	11. Waste Shipping Name and Description			12. Conta		13. Total Quantity	14. Unit Wt/Vol
	" NOT REGULATED BY DOT OILY WATER			0.0.1	7.7	4600	6
GEZE	b.						
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	D. Additional Descriptions for Materials Listed Above		E. Har	ndling Codes	for Wast	es Listed Abov	e
	Hydrocior Q < 1000 ppm						
	170 DIESCI 99 % WAT						
	14 hrs. spill Respons	e (Penco)					
		808 545-5195					
	16. GENERATOR'S CERTIFICATION: Locality the materials described Printed/Typed Name	d above on this manifest are not subject to fed	eral regulations for	reporting prope	er disposa		Wasle. ay Year
¥	ON BAHALF OF GENERATOR 17. Transporter 1 Acknowledgement of Receipt of Materials	(D) (o)	·		P9 12	3 04
TRANSPORTER	(b) (6)	(b) (6)				Month D. 2	ay Year
ORT	18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name	Signature				Month D	ay Year
Ā	19. Discrepancy Indication Space	1411					· ·
F A C I							
L 1 T	20. Facility Owner or Operator: Certification of receipt of waste mater	rials covered by this manifest except as n	oted in Item 19.				
ľ	^{Pr} (b) (6)	Signa (D)	6)		w ₂₀ t.30.***	Month D 0 ℃ ス	ay Year ろし4
	ted by J. J. KELLER & ASSOCIATES, INC. nah, WI 54957-0368 ORIGINA	AL – RE' I TO GENERAT	OR		12-E	LS-C5 Re	v. 12/98

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	NON-HAZARDOUS 1. Generator's UNASTE MANIFEST	JS EPA ID No. 3488.92	Manifest Doc. No.	2. Page of	1	enica y Control Control	•	AND A STATE OF THE
A	3. Generator's Name and Mailing Address NCTAMS PAC EATHN (b) (6) Soc. ENTER St. WAHIAWA HI 9 4. Generator's Phone (\$05) 653-955	LODE NUL				515 W (3	•	
	5., Transporter 1 Company Name	6. US EPA ID Nu	mber	A. Tran	sporter's P	hone	-8276	
	HAWAII MARINE CLEANING LU 7. Transporter 2 Company Name	8. US EPA ID Nu			sporter's F		- 8 6 1/0	
	Designated Facility Name and Site Address	10. US EPA ID Nu	mber	C. Facil	ity's Phone	!	· · ·	
	Philip SERVICES LTD 91-127 MALAKOLE St FAPULEL HI 96707	Hiro 0000	0927	(80			2-303.	
	11. Waste Shipping Name and Description				12. Cont No.	ainers Type	13. Total Quantity	14. Unit Wt/Vol
	· NOT REGULATED BY DOT				6.01	TT	4500) G
- GENE	ь.							
E R A T	С.	·				•		
T O R						 ·		
	d.							
	D. Additional Descriptions for Materials Listed Above			E. Hand	· ·	for Was	tes Listed Above	
	1% DIESEL 99% WA	itex						
	15. Special Handling Instructions and Additional Information							
	24 hrs SPILL RESPONCE	(PENCU)						
	lf Clor Liopo	808 5	45-51	95				
		bove on this manifest are not subj	ect to federal regula	tions for re	porling prop	er dispos	al of Hazardous W	aste.
¥	Printed/Typed Nam (SHC) FOR GENERY TOR	Signature) (6)				Month Da	Y Year
TRANSP.	17. Transporter 1 Acknowledgement of Receipt of Materials	si(b)	(6)				Month Pa	Year
ORTER	18. Transporter 2 Acknowledgement of Receipt of Materials	Signa (b)	$\overline{(6)}$				Month Da	, 7 84
F A C	19.							
I L I T Y	20. Facility Owner or Operator: Certification of receipt of waste material	als covered by this manifest ex	cept as noted in Ite	em 19.				
Ľ	Printed/1 (b) (6)	Signature (b) (6	6)				Month Da	y Year 7 0 4
	ed by J. J. KELLER & ASSOCIATES, INC. hah, WI:54957-0368					12-E	3LS-C5 Rev	. 12/98

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Plea (Foi	use Mili	print or type designed for use on elite (12-pilch) typewriter.)	Pipe	LIne									
	- Media	NON-HAZARDOUS WASTE MANIFEST	1. Generator's US H I 0 0 0 0 4	S EPA ID No.	Manifest Doc. No.	2. Page	1	- en eller en tolden den geg	and the second s	esspecialist St	- CONTRACTOR OF THE PARTY OF TH		
A		Generator's Name and Mailing Address NCTAMSPAC(ATTN: (b) (6) 500 Center ST. Wahiawa	, Co	de N465NT)	1 .001.10		519 U13	738 367					
		. Generator's Phone (808) 653 – 9850 . Transporter 1 Company Name	8	6. US EPA ID N	lumher	A. Transporter's Phone							
		Hawaii Marine Cleanine	g LLC	HIR0013558	2	*808 455 8226							
	7	. Transporter 2 Company Name		8. US EPA ID N		B. Transporter's Phone							
	9	Designated Facility Name and Site Address Philip Services, LTD 91-127 Malakole St.		10. US EPA ID N	lumber	C. Facility's Phone							
	_	Kapolei, HI. 96707	***************************************	HIR00000092	927 682–3033								
	_	Waste Shipping Name and Description					No.	Type	13. Total Quantity		14. Unit Wt/Vol		
	а	NOT REGULATED BY DOT	(OILY WATER			0 :01:	tt	450	7	G		
GEN	b	•											
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A T O R	C			5							I		
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	٥	Additional Descriptions for Materials Listed Above				Е. Нап	dling Codes	for Wa	stes Listed Ab	ove			
		99% Water, 1% Diesel											
	1	5. Special Handling Instructions and Additional Infor	mation										
No.		24hr spill response (1	PENCO) 5	45-5195									
	L												
	1	6. GENERATOR'S CERTIFICATION: Logrify the ma	aterials described ab	1.5	biect to federal regula	tions for r	eporling prop	er dispo	sal of Hazardou Month	s Wasi	le. <i>Year</i>		
Ţ.	L	FOR GUNTRATOR) (0)				0.9	28	104		
TRA		7 Transporter 1 Acknowledgement of Receipt of Ma	terials	(h)	(6)				Month	Day	Year		
S P O	-	8. Transporter 2 Acknowledgement of Receipt of Ma	lerials		(0)				0.9	28	04		
TRANSPORTER	Ė	Printed/Typed Name	itoriuis	Signature					Month .	Day	Year		
	1	9. Discrepancy Indication Space							•				
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÷	2	0. Facility Owner or Operator: Certification of receipt	t of waste materials	s covered by this manifest of	except as noted in It	em 19.				_			
Y		Printed (b) (6)		Sigr (b)	(6)				Month 6.4	Day 79	Year Off		
		by J. J. Ketter & Associates, INC.			,			12-	BLS-C5 F	lev.	 12/98		

Ple (Fo	186 186	e print or type designed for use on elite (12-pitch) typewriter.)		PIPELI	NE									
	Ī	NON-HAZARDOUS WASTE MANIFEST	1. Generator's U		~	Manifest Doc. No.	2. Page	1	Total Control	t for the first section of	#17 SERVICE CONT. SOCIETY CO.			
A		NCTAMSPAC(ATTN: (b) (6) NCTAMSPAC(ATTN: Wahiawa Generator's Phone (808) 653-98	HI., 967	≥ N465N'	Г)	00111		5	1549	5/w(36°	1			
	` —	5. Transporter 1 Company Name Hawaii Marine Cleaning		-	S EPA ID N	· · · · · · · · · · · · · · · · · · ·		sporter's P						
200	7	7. Transporter 2 Company Name	ппс	B. U	IS EPA ID N			sporter's F	-					
	9	D. Designated Facility Name and Site Address Philip Services, LTD 91-127 Malakole St.			S EPA ID N		C. Facility's Phone							
(Cessioner)		Kapolei, Hi. 96707		Hirooo	00092	<u> </u>	682	-3033	3					
No. Control of the Co	1	11. Waste Shipping Name and Description						12. Cont No.	ainers Type	13. Total Quantity	14. Unit Wt/Vol			
	é	not Regulated by DC Oily Water	T					001	TT	4500	G			
GENER).						li.						
RATO	-	<u> </u>												
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	1	D. Additional Descriptions for Materials Listed Above					E. Hand	dling Codes	for Was	stes Listed Above				
		99% Water 1% Diesel	ity classic	lockio	100 pp	М								
and a record	7	15. Special Handling Instructions and Additional Information	nation				J							
		24hr spill response (PENCO) 5	545-5195	5									
		16. GENERATOR'S CE				bject to federal regula	tions for re	eporting prop	er dispo	sal of Hazardous W	astes			
ļ	_	Printed/Typed Name FOR GENERATOR	SHR	Signat	ture (D) (6)				Month Day	5 of			
-FAZOP CRTER		17. Transporter 1 Acknowledgement of Receipt of Ma (6) 18. Transporter 2 Acknowledgement of Receipt of Ma		(b) (6	3)				Month Day	9 Year 8 0.7			
FTEG	-	Printed/Typed Name	teriais	Signa	ture	<u> </u>				Month Day	/ Year			
FACI	-	19. Discrepancy Indication Space				And the second				† I				
LITY	۱	20. Facility 0	of waste materials	s covered by this	s manifest e	xcept as noted in It	em 19.							
L		Printed/T		b) (6				2007	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Month Day	Year VY			
		d by J. J. KELLER & ASSOCIATES, INC. th, WI 54957-0368			,				12-	BLS-C5 Rev	. 12/98			

Plei (Fo	ise print or type m designed for use on elite (12-pitch) typewriter.)	P	PIPELINE								
	NON-HAZARDOUS WASTE MANIFEST	1. Generator's US HIRO00.04		Manifest Doc. No. . 0.0112	2. Page of	1	a professional de participation and the definition	to the second control of the second field and the s	Cook (Cooking)		
	3. Generator's Name and Mailing Addr (b) (6) NCTAMSPAC (ATTN: (b) (6) 500 Center St. Wahiawa 4. Generator's Phone (808)653-9858	, Cod a HI. 967	e n \$65 nT)	. 0.0 (12		ોક્યક	1001	367			
	5. Transporter 1 Company Name Hawaii Marine Cleanine		6. US EPA ID N HIROOO13558	umber R 2	A. Transporter's Phone 455-8226						
	7. Transporter 2 Company Name		8. US EPA ID N			sporter's P					
	9. Designated Facility Name and Site Address Philip Services, LTD 91-Malakole St.		10. US EPA ID N		C. Facility's Phone						
	Kapolei HI. 96707		HIR000000927	7	682-						
	11. Waste Shipping Name and Description					12. Conta	ainers Type	13. Total Quantity	14. Unit Wt/Vol		
	a. NOt Regulated by DO	Г						1 -			
[Oily Water					001	T.£	4.5.0.0	G		
G E N E	b .										
RATO	c.										
O R I											
	d.										
	D. Additional Descriptions for Materials Listed Above	* <1000			E. Hand	· · · ling Codes	for Was	tes Listed Above	<u>l</u>		
	99% Water, 1% diesel										
	15. Special Handling Instructions and Additional Info	rmation			ļ						
	24hr spill respons	e (PENCO)	545-5195								
	16. GENERATOR'S CERTIFICATION: Leading the m	described abo	ove on this manifest are not sul	bject to federal regula	itions for re	porting prop	er dispos				
V	DR GUNRATOR		(ル) Signature	0) (6)				Month Day 0,9 2,9	9 0.4		
TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of M (b) (6) 18. Transporter 2 Acknowledgement of Receipt of M		(b)	(6)				Month Day,	Year		
RTED	Printed/Typed Name		Signature					Month Day	Year		
FACT	19. Discrepancy Indication Space	,									
LIT	20. Facility Owner or Operator: Certification of receip	ot of waste materials	covered by this manifest e	xcept as noted in It	em 19.						
Y	Printed/Typed Name		Signature (b) (6)					Month Day	7 04		
	ted by J. J. KELLEN & ASSOCIATES, INC. mah, WI 54957-0368		.)				12-	BLS-C5 Rev.	12/98		

Ple	880	se print or type n designed for use on elite (12-pitch) typewriter.)	Pine	eline									
	32.2		1. Generator's U	S EPA ID No.	Manifest Doc. No.	2. Page	:1						
A GENERATOR — GENE		3. Generator's Name and Mailing Address NCTAMSPAC(ATTN: (b) (6) 500 Center St. Wahawa 4. Generator's Phone (808) 653-985	,Code	N465NT)	1 000 1.3	515,48/21367							
		5. Transporter 1 Company Name Hawaii Marine Cleanin		6. US EPA II HIRO00135		A. Tran 455	sporter's F -8226	Phone					
	7	7. Transporter 2 Company Name		8. US EPA II	Number	B. Tran	sporter's	Phone					
	9	9. Designated Facility Name and Site Address Philip Services, LTD 91-127 Malakole St. Kapolei, HI 96707		10. US EPA III			ity's Phon 303						
	1	11. Waste Shipping Name and Description	·	1			12. Con		13. Total	14. Unit			
	a	a. Not regulated by dOT					No.	Туре	Quantity	Wt/Vol			
	L	Oily Water					001	TТ	450	OG			
GENER		b.											
A T O R	. 6	с.											
	d.												
	[D. Additional Descriptions for Materials Listed Above	14. /	Pa 2000	4 4.4	E. Hand	lling Code	· s for Was	stes Listed Above	 e			
		99% Water, 1% Diesel	(1) C	lor 200p	p m		-						
→ TRANSPORTER FACILITY	-	15. Special Handling Instructions and Additional Inform	nation										
	1	Printed/Typed Nam (b) (6)	described ab	ove on this manifest are not	subject to federal regula	tions for re	porting pro	per dispos	Month Di	ay Year			
¥		17 Transporter 1 Acknowledgement of Receipt of Met	oriale		(0)				P9 13	0 0.4			
RANSPORTER		(b) (6)	enais	Sig (D)	(6)				Month B				
R T E R		Printed/Typed Name		Signature					Month D	ay Year			
FAC		19. Discrepancy Indication Space											
L	20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 1												
Y		Printed/Typed Name (b) (6)		Signature (b)	(6)				Month D.	ay Year			
		ed by J. J. KELLER & ASSOCIATES, INC. ah, WI 54957-0368						12-	BLS-C5 Re	v. 12/98			

Ple (FC	ase im:	print of type designed for use on elite (12-pltch) hypewriter;) NON-HAZARDOUS WASTE MANIFEST	PIPEL 1. Generator's US EPA	A ID No.	Manifest Doc. No.	2. Pag	e 1						
(E) GENERATOR	4.	NCTAMSPAC(ATTN: (b) (6) 500 Center st. Wahiawa Generator's Phone (808)653-985	Code N HI. 96786	1465NT)	1 00114				1				
		Transporter 1 Company Name Hawaii Marine Cleanine Transporter 2 Company Name	6. g LLC . 8.	US EPAID N .HIRO 0.013 US EPAID N	55.82	455	nsporter's F 5 – 8 2 2	6					
			o. 		· · · · ·		nsporter's I						
	9.	Designated Facility Name and Site Address Philip Services, LTD 91-127 Malokole St.	10.	US EPA ID N			ility's Phon						
NACONAL N	-	Kapolei, HI. 96707 1. Waste Shipping Name and Description		HIR00000	09.27	682	2-303		13.	14,			
PAT-1225V	Ľ	1. Waste Shipping Pante and Description	***************************************				No.	Type	Total Quantity	Unit Wt/Vol			
	a	Not regulated by DOT	Oily	Water			001	TT	4500	G			
GENERATOR	b												
ATOR	C.												
	d.									Control of the contro			
	D	Additional Descriptions for Materials Listed Above	,			E. Han	dling Codes	s for Wa	stes Listed Above	1			
		99% Water, 1% Diesel											
→ TRANSPORTER FACILITY	1!	5. Special Handling Instructions and Additional Infor	·	195					- 10 ₀ - 10 ₀ - 1	TAMES AND			
V	1	6. GENERATOR'S CERTIFICATION: Locatify the more printed/Typed Name (b) (6)	eterials described above on	Signature	bject to federal regular	tions for r	eporting pro	per dispo	sal of Hazardous Wa	Year			
TRANSPORTER	1	7. Transporter 1 Acknowledgement of Receipt of Ma	terials	$\Box^{\mathfrak{s}}(b)$	(6)				Month Day) j ³ .4			
RTWR		Printed/Typed Name		Signature			-		Month Day	Year			
FAC-L		9. Discrepancy Indication Space		and brights are 18 c.						NAME OF THE PROPERTY OF THE PR			
L-T-Y	21	0. Facility Owner of Operator: Certification of receip Printed/Typed Na	t of waste materials cove	ered by this manifest e	except as noted in Iti	em 19.			Marcol D (2017	Vaer			
ـــا		by J. J. KELLER & ASSOCIATES, INC.				[V.] Web			107 13%	704			
		by 0. Ketten a Associates, INC. h, WI 54957-0368	ORIGINAL – R	F1 JTOGE	NERATOR	PARAGE Local Sea		12-	BLS-C5 Rev.	12/98			

ORIGINAL - REI I TO GENERATOR

Ple (Fo	ease print or type omr designed for use on eithe (12-pitch) typewriter.)	PIPELINE									
	NON-HAZARDOUS 1. Genera	tor's US EPA ID No.	Manifest Doc. No.			and the second of the second o					
H	WASTE MANIFEST .HIR4 3. Generator's Name and Mailing Address	000048892	.00115	of of	, s ens						
1		Code N465NT)		w13							
	500 Center St. Wahiawa HI.	96786-3050		521	12						
	4. Generator's Phone (808) 653–9858					••••					
	5. Transporter 1 Company Name Hawaii Marine Cleaning LLC	6. US EPA ID HIRO001.355		A. Transporter's 455-822							
	7. Transporter 2 Company Name	8. US EPA ID		B. Transporter's Phone							
	Designated Facility Name and Site Address	10. US EPA ID	Number	C. Facility's Phone							
	Phile Services, LTD 91-127 Malokole St.										
	Kapolei, HI.96707	HIR0000009	927	682-330)3						
	11. Waste Shipping Name and Description				ntainers	13.	14.				
		- WAshington		No.	Туре	Total Quantity	Unit Wt/Vol				
	Not regulated by DOT					11-					
		Oily Water		001	արա	4500	G				
G	b.				111						
GENER											
R	A c.				-	, .					
A T O											
Ř					<u> </u>						
	d.										
	D. Additional Descriptions for Materials Listed Above	F		E. Handling Code	s for Was	stes Listed Above	1				
	99% water, 1% diesel										
	15. Special Handling Instructions and Additional Information										
NAME OF TAXABLE PARTY.	241	\									
	24hr spill response (PENCO)) 545-5195									
1											
	16. GENERATOR'S C	sibed above on this manifest are not Signature	subject to federal regula	ations for reporting pro-	oper dispos	sal of Hazardous Wa	ste.				
	Printed/Typed Nar	Signature	(h) (6			Month Day	Year				
Ţ	17. Transporter 1 Acknowledgement of Receipt of Materials					1.0 0.2	1 7				
Ř	The important of the capt of materials	Sign	(6)			Month Day	Year				
SP	[(D) (D)						204				
P	18. Transporter 2 Acknowledgement of Heceipt of Materials	0:									
FRAZSPORFER	Printed/Typed Name	Signature				Month Day	Year				
Г	19. Discrepancy Indication Space	. I	· · · · · · · · · · · · · · · · · · ·			11					
F	=										
FACIL											
L	20. I dolling officer of operator, octanication of receipt of waste in	naterials covered by this manifest	except as noted in It	em 19.							
Ť	S SC WWYP										
	Printed/(b) (6)	Signature	6)			Month Day	Year				
L	interest by the LEEP & ASSOCIATES, INC.		O)			10 27	104				

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1	NON-HAZARDOUS	1. Generator's U	PIPELIN	Manifest	Doc No	2. Page	a 1						
	WASTE MANIFEST					of	'						
-	Generator's Name and Mailing Address	HT-KOOOO	·48892· · ·	. 00	1.16			, ,,,,,					
∄♠	NCTAMSPAC (ATTN: (b) (6)	rode M	(465NT)			U	0130		+				
	500 Center St. Wahiawa						ダス	117					
	4. Generator's Phone (808) 653-985	111. 507	00-3030					,					
		8											
	5. Transporter 1 Company Name			PA ID Number		1	sporter's P						
	Hawaii Marine Cleaning		HIR00013		, .	45	<u>5-822</u>	6					
	7. Transporter 2 Company Name		8. US EF	PA ID Number		B. Tran	sporter's F	hone					
		~				**							
	Designated Facility Name and Site Address		10. US EF	PA ID Number		C. Faci	lity's Phone	;					
	Philip Services LTD												
	91-127 Malokole St.												
	Kapolei, HI 0 6707		HIR00000	0927		68	2-303	3					
	11. Waste Shipping Name and Description						12. Cont	ainers	13. Total	14.			
							No.	Туре	Quantity	Unit Wt/Vol			
	a.	****							**-				
	NOt regulated by DOT								ند في				
	Oily Water						001	TT	4500) G			
G	b.		***************************************	***************************************					-				
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	D. Additional Descriptions for Materials Listed Above			30		E. Hand	llina Codes	for Was	tes Listed Above				
	000												
	99% water, 1% diesel												
	15. Special Handling Instructions and Additional Infor	mation							244				
	· •												
	24hr spill resopnse (P	ENCO) 54	5_5195										
	Dim opili icoopiise (i	LI(CO) 34	3-3175										
	16. GENERATOR'S CERTIFICATION		and the second							:			
	Printed/Typed Nam(b) (6)		ove on this manifest ar			DL 16	eporing prop	er dispos	al of Hazardous W	2			
		KATOL	Signature						Month Day	Year			
Y			<u> </u>			_			10 22	07			
Ŗ	17. Transporter 1 Acknowledgement of Receipt of Ma	teriais		\ (0)						•			
Ñ	(h) (6)								Month Day	1 /			
P	(D)			, (0)					120 2	2/00(
Ř	Deleted Warred Name		1										
TRAZSPORTER	Printed/Typed Name		Signature						Month Day	/ Year			
1	19. Discrepancy Indication Space		1						1 1				
	19. Discrepancy indication Space												
F													
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L	20. Facility Owner or Operator: Certification of receipt	of wasto motorial	e anyored by this	nifact avanct	ntod in It-	m 10		•					
LIT	20. Pacinity Course of Operator: Certification of receipt	or waste material	s covered by this mai	imesi except as n	otea in ite	an 19.							
Ÿ	Printed/T		Signat.						4 4 4 b				
1	(b) (6)		Signatu	h) (6					Month Day	1			
L				$\mathcal{O}_{\mathcal{I}}$		55/455-		0.30.475.19#	10 2	2 <i>(CL)</i>			
	ed by J. J. KELLER & ASSOCIATES, INC. nah, WI 54957-0368							19:1	3LS-C5 Rev	12/02			

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<u> (Cr</u>	NON-HAZARDOUS	1. Generator's US	PELINE S EPA ID No.	Manifest Doc. No.	2. Page	e 1					
	WASTE MANIFEST		1889.2		of	-					
A	3. Generator's Name and Mailing Address NCTAMSPAC(Attn: (b) (6) 500 Center St.Wahiawa H 4. Generator's Phone (808) 653-985	,Code	N465NT)	, , , , , , , , , , , , , , , , , , , ,		·					
	5. Transporter 1 Company Name Hawaii Marine Cleaning		6. USEPA	ID Number	1	sporter's P					
	7. Transporter 2 Company Name	пъс	8. US EPA	ID Number	B. Transporter's Phone						
	9. Designated Facility Name and Site Address Philip Services, LTD 91-127 Malokole St.		10. US EPA	ID Number	C. Faci	lity's Phone					
No. soon less	Kapolei, Hi 96707 11. Waste Shipping Name and Description		HIROUUU	0.927	<u></u>	12. Cont	ainers	13. Total	14. Unit		
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	Not regulated by BOT	Oily	Water			001	TŦ	3000	· G		
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	99% water, 1% diesel										
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	24hr spill response (PF	ENCO)545-	5195								
A STATE OF THE STA	16. GENERATOR'S CER										
V	Printed/Typed Name ON BEHALF OF SENER	GHAN GTOR	Signate	oot subject to federal regular	ulons for re	eporting prop	per dispos		ay Year		
TRANSP	(b) (6)		Sig (D)	(6)				Month E	s jour		
AZOPORTER	18. Transporter 2 Acknowledgement of Receipt of Ma Printed/Typed Name	aterials	Signature	•				Month C	ay Year		
FACI	19. Discrepancy Indication Space		·	, , , , , , , , , , , , , , , , , , ,							
L T	20. Facility Owner or Operator: Certification of receip	t of waste materials	covered by this manif	est except as noted in It	em 19.						
Y	(b) (6)		Signature (b) (6)				Month D	ay Year 27 04		
	ted by J. J. KELLER & ASSOCIATES, INC. nah, WI 54957-0368	ORIGINAL -	- RE11 TO	GENERATOR			12-	BLS-C5 Re	v. 12/98		