

N65928.AR.001390
NTC ORLANDO
5090.3a

SITE REHABILITATION COMPLETION REPORT FOR STUDY AREA 16 WITH TRANSMITTAL
LETTER NTC ORLANDO FL
6/27/2003
CH2M HILL



CH2M HILL
115 Perimeter Center Place, N.E.
Suite 700
Atlanta, GA
30346-1278
Tel 770.604.9095
Fax 770.604.9282

June 27, 2003

Ms. Barbara Nwokike
Southern Division, Naval Facilities Engineering Command
P.O. Box 190010
North Charleston, SC 29419-9010

Subject: Contract No. N62467-98-D-0995
Contract Task Order No. 0049
Naval Training Center (NTC) Orlando - Orlando, Florida
Site Rehabilitation Completion Report for Study Area 16

Dear Ms. Nwokike:

Enclosed please find two copies of the Site Rehabilitation Completion Report for Study Area 16, Naval Training Center, Orlando. Copies are also being distributed to members of the Orlando Partnering Team.

If you have any questions regarding this document, please call.

Sincerely,

CH2M HILL CONSTRUCTORS, Inc.

A handwritten signature in black ink that reads "Steven N. Tsangaris".

Steven N. Tsangaris, P.E.
Project Manager

cc: Gregory Fraley, USEPA Region IV (1 hard copy, 2 CD)
David Grabka, FDEP (1 hard copy, 2 CD)
Ben Bentkowski, Gannet Fleming (1 CD)
Steve McCoy, Tetra Tech NUS (1 CD)
Robert Custance, Jr. , CH2M HILL NTC Site Office (4 CD)
Mark Salvetti, Harding ESE (1 CD)
CCI Project File No. 161919

Site Rehabilitation Completion Report Study Area 16

**Naval Training Center
Orlando, Florida**

Revision No. 00

**Contract No. N62467-98-D-0995
Contract Task Order No. 0049**

Submitted to:

**U.S. Naval Facilities
Engineering Command
Southern Division**

Prepared by:



115 Perimeter Center Place, N.E.
Suite 700
Atlanta, GA 30346

June 2003

**Site Rehabilitation Completion Report
Study Area 16**

**Naval Training Center
Orlando, Florida**

Revision No. 00

**Contract No. N62467-98-D-0995
Contract Task Order No. 0049**

Submitted to:

**U.S. Naval Facilities
Engineering Command
Southern Division**

Prepared by:



June 2003

Prepared/Approved By:

Steve Tsangaris, Project Manager

Date

Approved By:

Scott Smith, Program Manager

Date

Client Acceptance:

U.S. Navy Responsible Authority

Date



Certificate of Completion

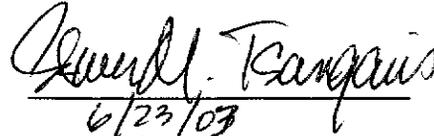
CH2M HILL Constructors, Inc., attests that, to the best of its knowledge and belief, the Site Rehabilitation Completion, delivered under Contract No. N62467-98-D-0995, Naval Training Center, Orlando, Florida, Contract Task Order (CTO) No. 0049, has been completed, inspected, and tested, and is in compliance with the contract.

Project QC Manager

Date

PROFESSIONAL ENGINEER CERTIFICATION

This Site Rehabilitation Completion Report for Study Area 16, Naval Training Center, Orlando, Florida was prepared under the direction of a State of Florida Professional Engineer.



6/23/03
Steven N. Tsangaris
PE 47091
CH2MHILL Constructors, Inc.
4350 W. Cypress Street, Suite 600
Tampa, Florida 33607

Contents

1.0	Introduction	1-1
1.1	Site Background.....	1-1
1.2	Project Objective.....	1-2
2.0	Removal Activities	2-1
2.1	Mobilization and Site Preparation.....	2-1
2.2	Soil Excavation and Disposal.....	2-1
2.3	Backfill and Site Restoration.....	2-2
3.0	Conclusions and Recommendations	3-1

Appendices

A	Project Photographs
B	Waste Disposal Documentation
C	Certificate of Disposal
D	Backfill Analytical Test Results

Figures

1-1	Area Location Map of Study Area 16, McCoy Annex.....	1-3
1-2	Soil Excavation Location Map, Study Area 16, McCoy Annex.....	1-4

Acronyms and Abbreviations

bls	below land surface
CCI	CH2M HILL Constructors, Inc.
CLEAN	Comprehensive Long-term Environmental Navy
CTO	Contract Task Order
DOT	Department of Transportation
EPA	Environmental Protection Agency
FDEP	Florida Department of Environmental Protection
NAVFAC	Naval Facilities Engineering Command
NTC	Naval Training Center
OPT	Orlando Partnering Team
PAH	polycyclic aromatic hydrocarbon
PCBs	polychlorinated biphenyls
RAC	Response Action Contract
SA	Study Area
SCTLs	soil cleanup target levels
SRCR	Site Rehabilitation Completion Report
TAL	target analyte list
TCL	target compound list

1.0 Introduction

CH2M HILL Constructors, Inc. (CCI), was contracted by the Department of the Navy, Southern Division Naval Facilities Engineering Command (NAVFAC), to prepare this Site Rehabilitation Completion Report (SRCR) for activities performed at Study Area 16 at the former Naval Training Center (NTC), Orlando, Florida. This work is being performed under Response Action Contract (RAC) N62467-98-D-0995, Contract Task Order (CTO) 0049. The work was conducted in accordance with *Work Plan Addendum No. 05 for PAH-Contaminated Soil Removal at Study Areas 16, 18, and 54* prepared by CCI in February 2002.

This SRCR is organized into the following sections:

- Section 1, Introduction, includes a summary of the scope of the project, site setting, and the remedial action objectives for the work.
- Section 2, Removal Activities, includes a discussion of the chronology of events and remediation activities performed.
- Section 3, Conclusions and Recommendations, provides information on conclusions drawn by CCI during the performance of the work at Study Area 16.

The appendices to this SRCR present the following supporting information:

- Appendix A Project Photographs
- Appendix B Waste Disposal Documentation
- Appendix C Certificate of Disposal
- Appendix D Backfill Analytical Test Results

1.1 Site Background

Study Area (SA) 16 is located in the central portion of McCoy Annex. An area location map showing SA 16 is shown on Figure 1-1. The site served as the former McCoy Annex motor pool area. SA 16 is relatively flat with surface drainage towards drainage ditches east and southeast of the site.

An area of the drainage ditch to the southeast of the former motor pool area was identified in previous investigations (conducted by Comprehensive Long-term Environmental Navy [CLEAN] contractors) as requiring excavation. Soil within this drainage ditch exceeded Florida Department of Environmental Protection (FDEP) soil cleanup target levels (SCTLs) for polycyclic aromatic hydrocarbon (PAH) constituents.

The horizontal extent of the PAH-contaminated soil excavation at SA 16 is shown on Figure 1-2. PAH-contaminated soil within the horizontal boundary would be excavated to a depth of 2 feet below land surface (bls). The limits of the excavation (estimated at 120 in-place cubic yards) were established from the previous and most recent soil assessment conducted by Tetra Tech NUS, Inc., (TtNUS) in August 2001, as were agreed upon by the Orlando Partnering Team (OPT).

1.2 Project Objective

The objective of the cleanup activities at SA 16 was to remove and dispose of contaminated soil at the site exceeding FDEP industrial SCTLs.

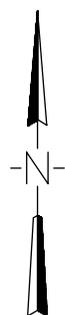
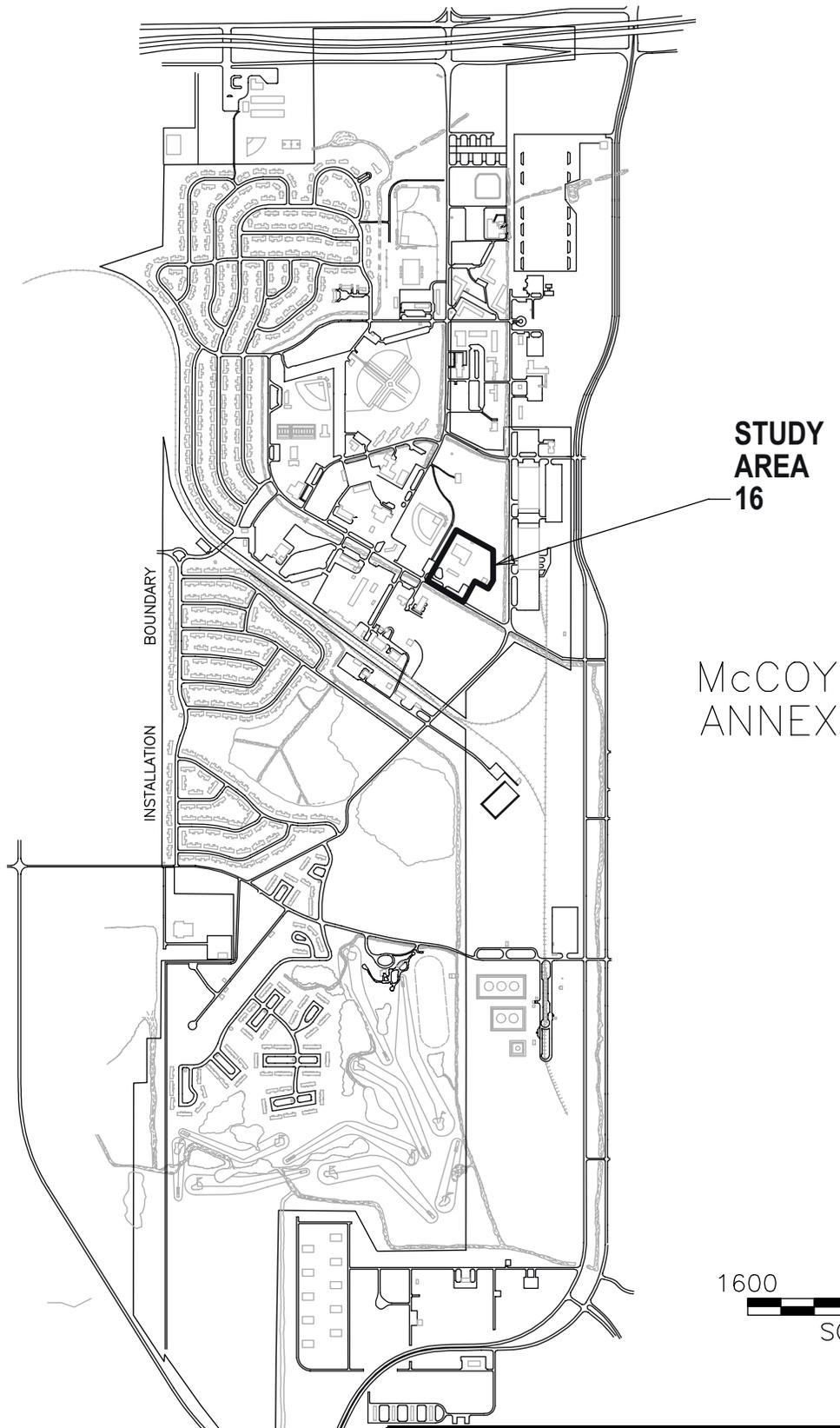


FIGURE 1-1
 AREA LOCATION MAP OF
 STUDY AREA 16
 McCOY ANNEX
 NAVAL TRAINING CENTER
 ORLANDO, FLORIDA

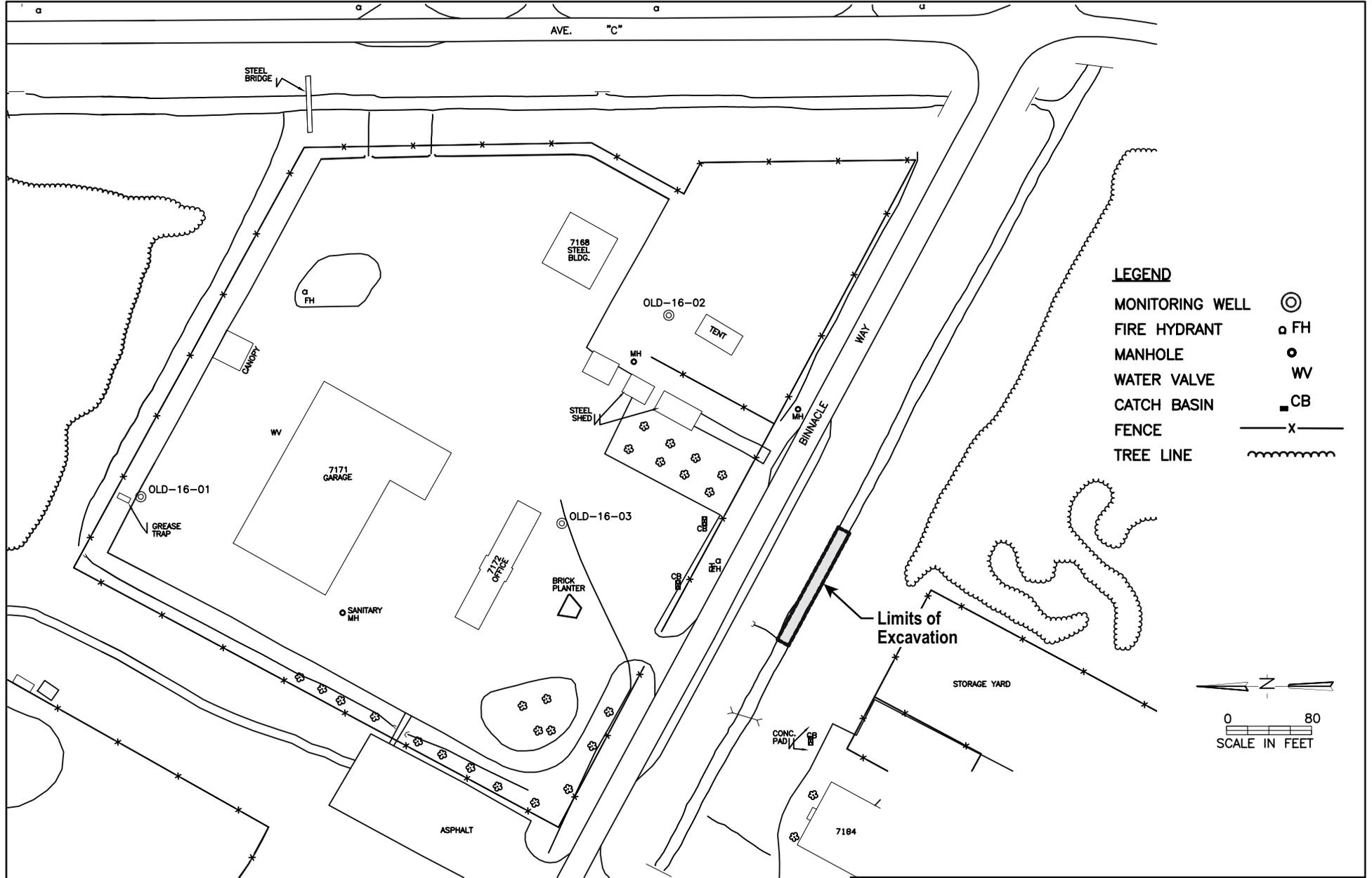


FIGURE 1-2
 SOIL EXCAVATION LOCATION MAP
 STUDY AREA 16 - McCOY ANNEX
 NAVAL TRAINING CENTER
 ORLANDO, FLORIDA

2.0 Removal Activities

The PAH-contaminated soil removal at SA 16 was performed during the period of April 15 to 19, 2002. The horizontal excavation limits were based on soil sample results obtained by TtNUS as described in Section 1.1 of this SRCR. Soil was excavated within the horizontal limits of the excavation to a depth of 2 feet bls. No additional soil excavation beyond the pre-established limits was conducted.

A description of the soil removal activities is presented in the following sections. A photograph log documenting various stages of the excavating and backfilling activities is included in Appendix A.

2.1 Mobilization and Site Preparation

On April 15, 2002, CCI mobilized with personnel, equipment, subcontractors, and materials to SA 16 to establish temporary site controls to conduct removal activities. In preparation for excavation, CCI completed an underground utility location survey at the site; no underground utilities were identified within the excavated area of SA 16.

Survey stakes located throughout the site marked exact excavation limits. String lines were extended across the excavation areas for use in measuring accurate excavation depth. Post-excavation soil laboratory confirmation sampling was not required.

2.2 Soil Excavation and Disposal

CCI's subcontractor, Environmental Field Services, along with J.N. Malcolm & Sons Excavating Company, removed 108.82 tons of PAH-contaminated soil as part of the soil removal activities at SA 16. The contaminated area was excavated to a depth of 2 feet bls using an excavator and skidsteer. The contaminated soil was direct loaded onto Department of Transportation (DOT)-approved trucks and transported to the Orange County Landfill for proper disposal.

Pre-excavation soil sampling for waste characterization was performed within the horizontal boundary on January 8, 2002. The samples were analyzed for the following constituents using U.S. Environmental Protection Agency (EPA) SW-846 procedures:

- Toxicity Characteristic Leaching Procedure (TCLP) volatile organic compounds (VOCs) (Method 1311/8260B)
- TCLP semi-volatile organic compounds (SVOCs) (Method 1311/8270C)
- TCLP Pesticides (Method 1311/8081A)
- TCLP Herbicides (Method 1311/8151A)
- TCLP Metals (Methods 1311/6010B, 7470A)

- Reactivity, Corrosivity, and Ignitability (Methods Chapter 7.3, 9045C, and 1030)

Based on the laboratory test results, the PAH-contaminated soil was characterized as non-hazardous. A transportation and disposal log, copies of the waste profile information, and copies of the disposal manifests are provided in Appendix B. The certificate of disposal is provided in Appendix C. (Note: the certificate of disposal accounts for soils in addition to those originating from SA 16.)

2.3 Backfill and Site Restoration

A representative sample of backfill material was collected from the offsite source and analyzed for the presence of the following constituents using EPA SW-846 procedures:

- Target compound list (TCL) volatile organic compounds (VOCs) (Methods 5035/8260B)
- TCL semi-volatile organic compounds (SVOCs) (Method 8270C)
- TCL pesticides (Method 8081A)
- Herbicides (Method 8151)
- Polychlorinated biphenyls (PCBs) (Method 8082)
- Target analyte list (TAL) metals (Methods 7471 and 6010B)
- pH

The backfill material placed in the excavations was certified clean and a copy of the analytical data is provided in Appendix D.

Two feet of clean backfill material was placed within the limits of the excavated area of SA 16, and machine-compacted to original grade for final restoration. Backfill was also placed in areas disturbed by excavation equipment and machine-compacted to original grade. Compaction testing was not required. Disturbed areas outside the limits of the excavation were restored with Bahia sod and watered to ensure proper growth.

3.0 Conclusions and Recommendations

The objective of the soil removal activities at SA 16 was to remove and dispose of PAH-contaminated soil at the site exceeding FDEP industrial SCTLs. CCI removed and disposed of 108.82 tons of PAH-contaminated soil from the site. The area was restored with clean backfill and Bahia sod.

As a result of the soil removal activities, CCI recommends that a Site Rehabilitation Completion Order be issued indicating that the site is suitable for non-residential land use.

Appendix A

Project Photographs



Photograph 1: Pre-excitation site conditions; limits staked (looking west – March 2002).



Photograph 2: Post-excitation site conditions (looking west – October 2002).



Photograph 3: Pre-excitation conditions (looking east – March 2003).



Photograph 4: Post-excitation conditions (looking east – October 2002).

Appendix B

Waste Disposal Documentation

STUDY AREA 16 TRANSPORTATION/DISPOSAL LOG

Site Description	Container Type	Container Desig.	Contractor	Transporter	Date Transported	Load ID	Disposal Facility	Disp Fac OP. ID	Media	Waste Type (Haz, Nonhaz, TSCA)	Disposal Date	Manifest Number	Disposal Treatment Method				
													Incineration	Recycle	Landfill	Other	Unit
SA-16	DT	200	EFS	J.N. Malcom	17-Apr-02	1	Orange County	SO480128169006	Soil	N/H	17-Apr-02	93144			22.79		tons
SA-16	DT	211	EFS	J.N. Malcom	17-Apr-02	2	Orange County	SO480128169006	Soil	N/H	17-Apr-02	93140			23.85		tons
SA-16	DT	211	EFS	J.N. Malcom	17-Apr-02	3	Orange County	SO480128169006	Soil	N/H	17-Apr-02	93143			19.32		tons
SA-16	DT	211	EFS	J.N. Malcom	17-Apr-02	4	Orange County	SO480128169006	Soil	N/H	17-Apr-02	93141			21.59		tons
SA-16	DT	211	EFS	J.N. Malcom	17-Apr-02	5	Orange County	SO480128169006	Soil	N/H	17-Apr-02	93142			21.27		tons

**UTILITIES DEPARTMENT . SOLID WASTE DIVISION**

5901 Young Pine Road • Orlando, Florida 32829
407-836-6601 • Fax 407-836-6658

February 7, 2002

Dave Demas
Environmental Field Services, Inc
40 West State Road 32
Westfield IN 46074
(317) 896 -1116

RE: Diesel Contaminated Soil Disposal

Dear Mr. Demas:

As per your Email of February 7, 2002 the 1,500 tons of non-hazardous diesel contaminated soil are approved for disposal since it passes TCLP test and is, therefore, not a hazardous waste for landfilling purposes. The waste will be accepted for disposal at the Class I lined landfill at . . . /ton. All documentation has been filed for future reference. Should you have any questions, please contact Oscar Ramos at 407-836-6636

Sincerely,

A handwritten signature in black ink, appearing to read "Dan Morrill", written over a horizontal line.

Dan Morrill, P.E., Chief Engineer
Orange County
Solid Waste Division

OR/or

cc: Mr. James W. Becker
Special Waste 02



115 Perimeter Center Place, Suite 700
Atlanta, GA 30346-1278
Tel No: (770) 604-9182
Fax No: (770) 604-9282

CHAIN-OF-CUSTODY RECORD

CONTAINER NUMBER:

2112-086 MB Waste Characterization - 0101

PROJECT NAME: NTC Orlando	PROJECT NUMBER: 152044-592201-01	LAB NAME AND CONTACT: PEL - Darcy	FAX AND MAIL REPORTS/EDD TO: RECIPIENT 1 (Name and Company): Christelle Newsome	FAX AND MAIL REPORTS/EDD TO: RECIPIENT 2 (Address, Tel No., and Fax No.): 115 Perimeter Center Pl. NE Suite 700 Atlanta, GA 30346 (Fax) 770-604-9282
PROJECT PHASE/SITE/TASK: SA 16/SA 18/SA 54	CTO OR DO NUMBER: 0017	LAB PO NUMBER: 2172	FAX AND MAIL REPORTS/EDD TO: RECIPIENT 2 (Name and Company):	FAX AND MAIL REPORTS/EDD TO: RECIPIENT 3 (Address, Tel No., and Fax No.):
PROJECT CONTACT: Steve Tsampanis	PROJECT TEL NO AND FAX NO: 813-874-6522	LAB TEL NO AND FAX NO: 813-247-2805	FAX AND MAIL REPORTS/EDD TO: RECIPIENT 3 (Name and Company):	FAX AND MAIL REPORTS/EDD TO: RECIPIENT 3 (Address, Tel No., and Fax No.):

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on SOP)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on SOP)	TAT (calendar days)	ANALYSES REQUIRED (Include Method Numbers)										SAMPLE TYPE (see codes on SOP)	COMMENTS/ SCREENING READINGS	LAB ID (for lab's use)						
								TCUP IAC	TCUP SWAC	TCUP NEST	TCUP HERB	TCUP METAL	PCB's	Reactivity	Corrosivity	Ignitability										
1	SA 54-SOIL 1	South Area Composite	S	1-2-02	1530	A	7	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	01
2	SA 54-SOIL 2	North Area Composite	S	"	1700	"	7	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	02
3	SA 18-SOIL	Composite	S	"	1600	"	7	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	03
4	SA 16-SOIL	Composite	S	"	1530	"	7	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	04
5																										
6																										
7																										
8																										
9																										
10																										

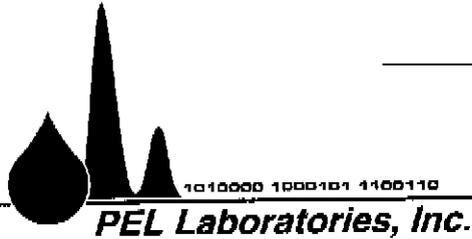
* Reactive CW sent to ESC
+ SWIF do
#1010102

SAMPLER(S) AND COMPANY: (please print) C. Naas - CH2M Hill	COURIER AND SHIPPING NUMBER: FED EX	SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT (for lab's use): Reactivity (CW/SWIF) sent to ESC Labs
--	---	---

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature: Craig Naas / Craig Naas	January 8, 2002		Printed Name and Signature: Keith W. Brown / Keith W. Brown	01-09-02	10:00
Printed Name and Signature:			Printed Name and Signature:		
Printed Name and Signature:			Printed Name and Signature:		

Temp up on next 4°C

- CERTIFICATE OF ANALYSIS -



FLDOH #E84207

Report Date:

01/18/2002

To: Steve Tsangaris
CH2M Hill
4350 W. Cypress St. Suite 600
Tampa, FL 33619

W (813)874-0777
F (813)874-3056

PROJECT ID: NTC Orlando
WORK ORDER: 2112086
DATE RECEIVED: Wednesday, January 09, 2002



Project Notes: **Performed by certification #E87487.

(†): Short Hold Time Analysis Date

PEL Contact: John Heyman / extension: 242

- CERTIFICATE OF ANALYSIS -



FLDOH #E84207

To: Steve Tsangaris
CH2M Hill

WORK ORDER: 2112086

PROJECT ID: NTC Orlando

PEL Lab# : 211208601

Collection Information:

Client ID : SA54-SOIL 1

Sample Date: 1/8/02 4:30:00 PM

Matrix : Soil

ND = Less than RL

Parameter	Method	Results	Units	RL	Dilution Factor
Corrosivity	9045	4.88	pH		1
Flash Point	EPA 1010	ND	Fahrenheit	27.0	1
INORGANICS	EPA 1311/6010				
Arsenic	EPA 1311/6010	ND	mg/L	0.0200	1
Barium	EPA 1311/6010	0.995	mg/L	0.0500	1
Cadmium	EPA 1311/6010	ND	mg/L	0.0100	1
Chromium	EPA 1311/6010	0.0273	mg/L	0.0200	1
Lead	EPA 1311/6010	ND	mg/L	0.0500	1
Selenium	EPA 1311/6010	ND	mg/L	0.0600	1
Silver	EPA 1311/6010	ND	mg/L	0.0200	1
INORGANICS	EPA 1311/7470				
Mercury	EPA 1311/7470	ND	mg/L	0.00200	1
Pesticides	EPA 1311/8081				
Chlordane	EPA 1311/8081	ND	mg/L	0.0011	1
Endrin	EPA 1311/8081	ND	mg/L	0.000055	1
gamma-BHC (Lindane)	EPA 1311/8081	ND	mg/L	0.000055	1
Heptachlor	EPA 1311/8081	ND	mg/L	0.000055	1
Heptachlor epoxide	EPA 1311/8081	ND	mg/L	0.000055	1
Methoxychlor	EPA 1311/8081	ND	mg/L	0.000055	1
Toxaphene	EPA 1311/8081	ND	mg/L	0.0022	1
2,4,5,6-tetrachloro-m-xylene	EPA 1311/8081	60.9	%	(45 - 125)	1
Decachlorobiphenyl	EPA 1311/8081	66.8	%	(34 - 133)	1
Chlorinated Herbicides	EPA 1311/8151				
2,4,5-TP (Silvex)	EPA 1311/8151	ND	mg/L	0.0029	5
2,4-D	EPA 1311/8151	ND	mg/L	0.0029	5
DCAA	EPA 1311/8151	81.7	%	(60 - 130)	5
Volatiles	EPA 1311/8260				
1,1-Dichloroethene	EPA 1311/8260	ND	mg/L	0.010	10
1,2-Dichloroethane	EPA 1311/8260	ND	mg/L	0.010	10
2-Butanone	EPA 1311/8260	ND	mg/L	0.050	10
Benzene	EPA 1311/8260	ND	mg/L	0.010	10
Carbon tetrachloride	EPA 1311/8260	ND	mg/L	0.010	10

- CERTIFICATE OF ANALYSIS -



FLDOH #E84207

To: Steve Tsangaris
CH2M Hill

WORK ORDER: 2112086

PROJECT ID: NTC Orlando

PEL Lab# : 211208601

Collection Information:

Client ID : SA54-SOIL 1

Sample Date: 1/8/02 4:30:00 PM

Matrix : Soil

ND = Less than RL

Parameter	Method	Results	Units	RL	Dilution Factor
Chlorobenzene	EPA 1311/8260	ND	mg/L	0.010	10
Chloroform	EPA 1311/8260	ND	mg/L	0.010	10
Tetrachloroethene	EPA 1311/8260	ND	mg/L	0.010	10
Trichloroethene	EPA 1311/8260	ND	mg/L	0.010	10
Vinyl chloride	EPA 1311/8260	ND	mg/L	0.010	10
Semivolatiles	EPA 1311/8270				
1,4-Dichlorobenzene	EPA 1311/8270	ND	mg/L	0.0057	1
2,4,5-Trichlorophenol	EPA 1311/8270	ND	mg/L	0.0057	1
2,4,6-Trichlorophenol	EPA 1311/8270	ND	mg/L	0.0057	1
2,4-Dinitrotoluene	EPA 1311/8270	ND	mg/L	0.0057	1
2-Methylphenol (o-Cresol)	EPA 1311/8270	ND	mg/L	0.0057	1
4-Methylphenol	EPA 1311/8270	ND	mg/L	0.0057	1
Hexachlorobenzene	EPA 1311/8270	ND	mg/L	0.0057	1
Hexachlorobutadiene	EPA 1311/8270	ND	mg/L	0.0057	1
Hexachloroethane	EPA 1311/8270	ND	mg/L	0.0057	1
Nitrobenzene	EPA 1311/8270	ND	mg/L	0.0057	1
Pentachlorophenol	EPA 1311/8270	ND	mg/L	0.0057	1
Pyridine	EPA 1311/8270	ND	mg/L	0.0057	1
2,4,6-Tribromophenol	EPA 1311/8270	85.8	%	(10 - 122)	1
2-Fluorobiphenyl	EPA 1311/8270	84.2	%	(43 - 116)	1
2-Fluorophenol	EPA 1311/8270	76.1	%	(21 - 120)	1
Nitrobenzene-d5	EPA 1311/8270	86.2	%	(35 - 114)	1
Phenol-d5	EPA 1311/8270	59	%	(10 - 94)	1
p-Terphenyl-d14	EPA 1311/8270	91.4	%	(33 - 141)	1
PCBs	SW-846 8082				
Aroclor-1016	SW-846 8082	ND	ug/Kg	32	1
Aroclor-1221	SW-846 8082	ND	ug/Kg	32	1
Aroclor-1232	SW-846 8082	ND	ug/Kg	32	1
Aroclor-1242	SW-846 8082	ND	ug/Kg	32	1
Aroclor-1248	SW-846 8082	ND	ug/Kg	32	1
Aroclor-1254	SW-846 8082	ND	ug/Kg	32	1
Aroclor-1260	SW-846 8082	ND	ug/Kg	32	1

- CERTIFICATE OF ANALYSIS -



FLDOH #E84207

To: Steve Tsangaris
CH2M Hill

WORK ORDER: 2112086

PROJECT ID: NTC Orlando

PEL Lab# : 211208601

Collection Information:

Client ID : SA54-SOIL 1

Sample Date: 1/8/02 4:30:00 PM

Matrix : Soil

ND = Less than RL

Parameter	Method	Results	Units	RL	Dilution Factor
Decachlorobiphenyl	SW-846 8082	96.3	%	(59 - 119)	1
**Reactive Cyanide	SW-846 Chapter 7	ND	mg/Kg	0.10	1
**Reactive Sulfide	SW-846 Chapter 7	ND	mg/Kg	25	1

- CERTIFICATE OF ANALYSIS -



FLDOH #E84207

To: Steve Tsangaris
CH2M Hill

WORK ORDER: 2112086

PROJECT ID: NTC Orlando

PEL Lab# : 211208602
Client ID : SA54-SOIL 2
Matrix : Soil

Collection Information:

Sample Date: 1/8/02 5:00:00 PM

ND = Less than RL

Parameter	Method	Results	Units	RL	Dilution Factor
Corrosivity	9045	4.90	pH		1
Flash Point	EPA 1010	ND	Fahrenheit	27.0	1
INORGANICS	EPA 1311/6010				
Arsenic	EPA 1311/6010	ND	mg/L	0.0200	1
Barium	EPA 1311/6010	0.956	mg/L	0.0500	1
Cadmium	EPA 1311/6010	ND	mg/L	0.0100	1
Chromium	EPA 1311/6010	ND	mg/L	0.0200	1
Lead	EPA 1311/6010	ND	mg/L	0.0500	1
Selenium	EPA 1311/6010	ND	mg/L	0.0600	1
Silver	EPA 1311/6010	ND	mg/L	0.0200	1
INORGANICS	EPA 1311/7470				
Mercury	EPA 1311/7470	ND	mg/L	0.00200	1
Pesticides	EPA 1311/8081				
Chlordanc	EPA 1311/8081	ND	mg/L	0.0011	1
Endrin	EPA 1311/8081	ND	mg/L	0.000056	1
gamma-BHC (Lindane)	EPA 1311/8081	ND	mg/L	0.000056	1
Heptachlor	EPA 1311/8081	ND	mg/L	0.000056	1
Heptachlor epoxide	EPA 1311/8081	ND	mg/L	0.000056	1
Methoxychlor	EPA 1311/8081	ND	mg/L	0.000056	1
Toxaphene	EPA 1311/8081	ND	mg/L	0.0022	1
2,4,5,6-tetrachloro-m-xylene	EPA 1311/8081	74.6	%	(45 - 125)	1
Dccachlorobiphenyl	EPA 1311/8081	91.9	%	(34 - 133)	1
Chlorinated Herbicides	EPA 1311/8151				
2,4,5-TP (Silvex)	EPA 1311/8151	ND	mg/L	0.0026	5
2,4'-D	EPA 1311/8151	ND	mg/L	0.0026	5
DCAA	EPA 1311/8151	80	%	(60 - 130)	5
Volatiles	EPA 1311/8260				
1,1-Dichloroethene	EPA 1311/8260	ND	mg/L	0.010	10
1,2-Dichloroethane	EPA 1311/8260	ND	mg/L	0.010	10
2-Butanone	EPA 1311/8260	ND	mg/L	0.050	10
Benzene	EPA 1311/8260	ND	mg/L	0.010	10
Carbon tetrachloride	EPA 1311/8260	ND	mg/L	0.010	10

- CERTIFICATE OF ANALYSIS -



FLDOH #E84207

To: Steve Tsangaris
CH2M Hill

WORK ORDER: 2112086

PROJECT ID: NTC Orlando

PEL Lab# : 211208602
Client ID : SA54-SOIL 2
Matrix : Soil

Collection Information:

Sample Date: 1/8/02 5:00:00 PM

ND = Less than RL

Parameter	Method	Results	Units	RL	Dilution Factor
Chlorobenzene	EPA 1311/8260	ND	mg/L	0.010	10
Chloroform	EPA 1311/8260	ND	mg/l.	0.010	10
Tetrachloroethene	EPA 1311/8260	ND	mg/L	0.010	10
Trichloroethene	EPA 1311/8260	ND	mg/L	0.010	10
Vinyl chloride	EPA 1311/8260	ND	mg/l.	0.010	10
Semivolatiles	EPA 1311/8270				
1,4-Dichlorobenzene	EPA 1311/8270	ND	mg/L	0.0057	1
2,4,5-Trichlorophenol	EPA 1311/8270	ND	mg/L	0.0057	1
2,4,6-Trichlorophenol	EPA 1311/8270	ND	mg/L	0.0057	1
2,4-Dinitrotoluene	EPA 1311/8270	ND	mg/L	0.0057	1
2-Methylphenol (o-Cresol)	EPA 1311/8270	ND	mg/L	0.0057	1
4-Methylphenol	EPA 1311/8270	ND	mg/L.	0.0057	1
Hexachlorobenzene	EPA 1311/8270	ND	mg/L	0.0057	1
Hexachlorobutadiene	EPA 1311/8270	ND	mg/L	0.0057	1
Hexachloroethane	EPA 1311/8270	ND	mg/L	0.0057	1
Nitrobenzene	EPA 1311/8270	ND	mg/L	0.0057	1
Pentachlorophenol	EPA 1311/8270	ND	mg/l.	0.0057	1
Pyridine	EPA 1311/8270	ND	mg/l.	0.0057	1
2,4,6-Tribromophenol	EPA 1311/8270	78.1	%	(10 - 122)	1
2-Fluorobiphenyl	EPA 1311/8270	75.7	%	(43 - 116)	1
2-Fluorophenol	EPA 1311/8270	53.7	%	(21 - 120)	1
Nitrobenzene-d5	EPA 1311/8270	78.4	%	(35 - 114)	1
Phenol-d5	EPA 1311/8270	38.3	%	(10 - 94)	1
p-Terphenyl-d14	EPA 1311/8270	82.8	%	(33 - 141)	1
PCBs	SW-846 8082				
Aroclor-1016	SW-846 8082	ND	ug/Kg	31	1
Aroclor-1221	SW-846 8082	ND	ug/Kg	31	1
Aroclor-1232	SW-846 8082	ND	ug/Kg	31	1
Aroclor-1242	SW-846 8082	ND	ug/Kg	31	1
Aroclor-1248	SW-846 8082	ND	ug/Kg	31	1
Aroclor-1254	SW-846 8082	ND	ug/Kg	31	1
Aroclor-1260	SW-846 8082	ND	ug/Kg	31	1

- CERTIFICATE OF ANALYSIS -



FLDOH #E84207

To: Steve Tsangaris
CH2M Hill

WORK ORDER: 2112086

PROJECT ID: NTC Orlando

PEL Lab# : 211208602
Client ID : SA54-SOIL 2
Matrix : Soil

Collection Information:

Sample Date: 1/8/02 5:00:00 PM

ND = Less than RL

Parameter	Method	Results	Units	RL	Dilution Factor
Dccachlorobiphenyl	SW-846 8082	95.7	%	(59 - 119)	1
**Reactive Cyanide	SW-846 Chapter 7	ND	mg/Kg	0.10	1
**Reactive Sulfide	SW-846 Chapter 7	ND	mg/Kg	25	1

- CERTIFICATE OF ANALYSIS -



FLDOH #E84207

To: Steve Tsangaris
CH2M Hill

WORK ORDER: 2112086

PROJECT ID: NTC Orlando

PEL Lab# : 211208603

Collection Information:

Client ID : SA18-SOIL

Sample Date: 1/8/02 4:00:00 PM

Matrix : Soil

ND = Less than RL

Parameter	Method	Results	Units	RL	Dilution Factor
Corrosivity	9045	5.44	pH		1
Flash Point	EPA 1010	ND	Fahrenheit	27.0	1
INORGANICS	EPA 1311/6010				
Arsenic	EPA 1311/6010	ND	mg/L	0.0200	1
Barium	EPA 1311/6010	0.834	mg/L	0.0500	1
Cadmium	EPA 1311/6010	ND	mg/L	0.0100	1
Chromium	EPA 1311/6010	ND	mg/L	0.0200	1
Lcad	EPA 1311/6010	ND	mg/L	0.0500	1
Selenium	EPA 1311/6010	ND	mg/L	0.0600	1
Silver	EPA 1311/6010	ND	mg/L	0.0200	1
INORGANICS	EPA 1311/7470				
Mercury	EPA 1311/7470	ND	mg/L	0.00200	1
Pesticides	EPA 1311/8081				
Chlordane	EPA 1311/8081	ND	mg/L	0.0011	1
Endrin	EPA 1311/8081	ND	mg/L	0.000054	1
gamma-BHC (Lindane)	EPA 1311/8081	ND	mg/L	0.000054	1
Heptachlor	EPA 1311/8081	ND	mg/L	0.000054	1
Heptachlor epoxide	EPA 1311/8081	ND	mg/L	0.000054	1
Methoxychlor	EPA 1311/8081	ND	mg/L	0.000054	1
Toxaphene	EPA 1311/8081	ND	mg/L	0.0022	1
2,4,5,6-tetrachloro-m-xylene	EPA 1311/8081	71.1	%	(45 - 125)	1
Decachlorobiphenyl	EPA 1311/8081	90.6	%	(34 - 133)	1
Chlorinated Herbicides	EPA 1311/8151				
2,4,5-TP (Silvex)	EPA 1311/8151	ND	mg/L	0.0028	5
2,4'-D	EPA 1311/8151	ND	mg/L	0.0028	5
DCAA	EPA 1311/8151	88.8	%	(60 - 130)	5
Volatiles	EPA 1311/8260				
1,1-Dichloroethene	EPA 1311/8260	ND	mg/L	0.010	10
1,2-Dichloroethane	EPA 1311/8260	ND	mg/L	0.010	10
2-Butanone	EPA 1311/8260	ND	mg/L	0.050	10
Benzene	EPA 1311/8260	ND	mg/L	0.010	10
Carbon tetrachloride	EPA 1311/8260	ND	mg/L	0.010	10

- CERTIFICATE OF ANALYSIS -



FLDOH #E84207

To: Steve Tsangaris
CH2M Hill

WORK ORDER: 2112086

PROJECT ID: NTC Orlando

PEL Lab# : 211208603

Collection Information:

Client ID : SA18-SOIL

Sample Date: 1/8/02 4:00:00 PM

Matrix : Soil

ND = Less than RL

Parameter	Method	Results	Units	RL	Dilution Factor
Chlorobenzene	EPA 1311/8260	ND	mg/L	0.010	10
Chloroform	EPA 1311/8260	ND	mg/L	0.010	10
Tetrachloroethene	EPA 1311/8260	ND	mg/L	0.010	10
Trichloroethene	EPA 1311/8260	ND	mg/L	0.010	10
Vinyl chloride	EPA 1311/8260	ND	mg/L	0.010	10
Semivolatiles	EPA 1311/8270				
1,4-Dichlorobenzene	EPA 1311/8270	ND	mg/L	0.0063	1
2,4,5-Trichlorophenol	EPA 1311/8270	ND	mg/L	0.0063	1
2,4,6-Trichlorophenol	EPA 1311/8270	ND	mg/L	0.0063	1
2,4-Dinitrotoluene	EPA 1311/8270	ND	mg/L	0.0063	1
2-Methylphenol (o-Cresol)	EPA 1311/8270	ND	mg/L	0.0063	1
4-Methylphenol	EPA 1311/8270	ND	mg/L	0.0063	1
Hexachlorobenzene	EPA 1311/8270	ND	mg/L	0.0063	1
Hexachlorobutadiene	EPA 1311/8270	ND	mg/L	0.0063	1
Hexachloroethane	EPA 1311/8270	ND	mg/L	0.0063	1
Nitrobenzene	EPA 1311/8270	ND	mg/L	0.0063	1
Pentachlorophenol	EPA 1311/8270	ND	mg/L	0.0063	1
Pyridine	EPA 1311/8270	ND	mg/L	0.0063	1
2,4,6-Tribromophenol	EPA 1311/8270	78.2	%	(10 - 122)	1
2-Fluorobiphenyl	EPA 1311/8270	76.3	%	(43 - 116)	1
2-Fluorophenol	EPA 1311/8270	58.9	%	(21 - 120)	1
Nitrobenzene-d5	EPA 1311/8270	77.4	%	(35 - 114)	1
Phenol-d5	EPA 1311/8270	40.1	%	(10 - 94)	1
p-Terphenyl-d14	EPA 1311/8270	81.8	%	(33 - 141)	1
PCBs	SW-846 8082				
Aroclor-1016	SW-846 8082	ND	ug/Kg	33	1
Aroclor-1221	SW-846 8082	ND	ug/Kg	33	1
Aroclor-1232	SW-846 8082	ND	ug/Kg	33	1
Aroclor-1242	SW-846 8082	ND	ug/Kg	33	1
Aroclor-1248	SW-846 8082	ND	ug/Kg	33	1
Aroclor-1254	SW-846 8082	ND	ug/Kg	33	1
Aroclor-1260	SW-846 8082	ND	ug/Kg	33	1

- CERTIFICATE OF ANALYSIS -



FLDOH #E84207

To: Steve Tsangaris
CH2M Hill

WORK ORDER: 2112086

PROJECT ID: NTC Orlando

PEL Lab# : 211208603

Collection Information:

Client ID : SA18-SOIL

Sample Date: 1/8/02 4:00:00 PM

Matrix : Soil

ND = Less than RL

Parameter	Method	Results	Units	RL	Dilution Factor
Decachlorobiphenyl	SW-846 8082	103	%	(59 - 119)	1
**Reactive Cyanide	SW-846 Chapter 7	ND	mg/Kg	0.10	1
**Reactive Sulfide	SW-846 Chapter 7	ND	mg/Kg	25	1

- CERTIFICATE OF ANALYSIS -



FLDOH #E84207

To: Steve Tsangaris
CHI2M Hill

WORK ORDER: 2112086

PROJECT ID: NFC Orlando

PEL Lab# : 211208604

Collection Information:

Client ID : SA16-SOIL

Sample Date: 1/8/02 3:30:00 PM

Matrix : Soil

ND = Less than RL

Parameter	Method	Results	Units	RL	Dilution Factor
Corrosivity	9045	4.95	pH		1
Flash Point	EPA 1010	ND	Fahrenheit	27.0	1
INORGANICS	EPA 1311/6010				
Arsenic	EPA 1311/6010	ND	mg/L	0.0200	1
Barium	EPA 1311/6010	0.813	mg/L	0.0500	1
Cadmium	EPA 1311/6010	ND	mg/L	0.0100	1
Chromium	EPA 1311/6010	ND	mg/L	0.0200	1
Lead	EPA 1311/6010	ND	mg/L	0.0500	1
Selenium	EPA 1311/6010	ND	mg/L	0.0600	1
Silver	EPA 1311/6010	ND	mg/L	0.0200	1
INORGANICS	EPA 1311/7470				
Mercury	EPA 1311/7470	ND	mg/L	0.00200	1
Pesticides	EPA 1311/8081				
Chlordanc	EPA 1311/8081	ND	mg/L	0.0011	1
Endrin	EPA 1311/8081	ND	mg/L	0.000056	1
gamma-BHC (Lindane)	EPA 1311/8081	ND	mg/L	0.000056	1
Heptachlor	EPA 1311/8081	ND	mg/L	0.000056	1
Heptachlor epoxide	EPA 1311/8081	ND	mg/L	0.000056	1
Methoxychlor	EPA 1311/8081	ND	mg/L	0.000056	1
Toxaphene	EPA 1311/8081	ND	mg/L	0.0022	1
2,4,5,6-tetrachloro-m-xylene	EPA 1311/8081	66.2	%	(45 - 125)	1
Dccachlorobiphenyl	EPA 1311/8081	66.6	%	(34 - 133)	1
Chlorinated Herbicides	EPA 1311/8151				
2,4,5-TP (Silvex)	EPA 1311/8151	ND	mg/L	0.0029	5
2,4'-D	EPA 1311/8151	ND	mg/L	0.0029	5
DCAA	EPA 1311/8151	74.8	%	(60 - 130)	5
Volatiles	EPA 1311/8260				
1,1-Dichloroethene	EPA 1311/8260	ND	mg/L	0.010	10
1,2-Dichloroethane	EPA 1311/8260	ND	mg/L	0.010	10
2-Butanone	EPA 1311/8260	ND	mg/L	0.050	10
Benzene	EPA 1311/8260	ND	mg/L	0.010	10
Carbon tetrachloride	EPA 1311/8260	ND	mg/L	0.010	10

- CERTIFICATE OF ANALYSIS -



FLDOH #E84207

To: Steve Tsangaris
CH2M Hill

WORK ORDER: 2112086

PROJECT ID: NTC Orlando

PEL Lab# : 211208604

Collection Information:

Client ID : SA16-SOIL

Sample Date: 1/8/02 3:30:00 PM

Matrix : Soil

ND = Less than RL

Parameter	Method	Results	Units	RL	Dilution Factor
Chlorobenzene	EPA 1311/8260	ND	mg/l.	0.010	10
Chloroform	EPA 1311/8260	ND	mg/L	0.010	10
Tetrachloroethene	EPA 1311/8260	ND	mg/L	0.010	10
Trichloroethene	EPA 1311/8260	ND	mg/L	0.010	10
Vinyl chloride	EPA 1311/8260	ND	mg/l.	0.010	10
Semivolatiles	EPA 1311/8270				
1,4-Dichlorobenzene	EPA 1311/8270	ND	mg/L	0.0060	1
2,4,5-Trichlorophenol	EPA 1311/8270	ND	mg/L	0.0060	1
2,4,6-Trichlorophenol	EPA 1311/8270	ND	mg/L	0.0060	1
2,4-Dinitrotoluene	EPA 1311/8270	ND	mg/L	0.0060	1
2-Methylphenol (o-Cresol)	EPA 1311/8270	ND	mg/l.	0.0060	1
4-Methylphenol	EPA 1311/8270	ND	mg/L	0.0060	1
Hexachlorobenzene	EPA 1311/8270	ND	mg/L	0.0060	1
Hexachlorobutadiene	EPA 1311/8270	ND	mg/l.	0.0060	1
Hexachloroethane	EPA 1311/8270	ND	mg/L	0.0060	1
Nitrobenzene	EPA 1311/8270	ND	mg/L	0.0060	1
Pentachlorophenol	EPA 1311/8270	ND	mg/l.	0.0060	1
Pyridine	EPA 1311/8270	ND	mg/L	0.0060	1
2,4,6-Tribromophenol	EPA 1311/8270	82.5	%	(10 - 122)	1
2-Fluorobiphenyl	EPA 1311/8270	82.9	%	(43 - 116)	1
2-Fluorophenol	EPA 1311/8270	61.5	%	(21 - 120)	1
Nitrobenzene-d5	EPA 1311/8270	86.5	%	(35 - 114)	1
Phenol-d5	EPA 1311/8270	41	%	(10 - 94)	1
p-Terphenyl-d14	EPA 1311/8270	89.4	%	(33 - 141)	1
PCBs	SW-846 8082				
Aroclor-1016	SW-846 8082	ND	ug/Kg	43	1
Aroclor-1221	SW-846 8082	ND	ug/Kg	43	1
Aroclor-1232	SW-846 8082	ND	ug/Kg	43	1
Aroclor-1242	SW-846 8082	ND	ug/Kg	43	1
Aroclor-1248	SW-846 8082	ND	ug/Kg	43	1
Aroclor-1254	SW-846 8082	ND	ug/Kg	43	1
Aroclor-1260	SW-846 8082	ND	ug/Kg	43	1

- CERTIFICATE OF ANALYSIS -



FLDOH #E84207

To: Steve Tsangaris
CH2M Hill

WORK ORDER: 2112086

PROJECT ID: NTC Orlando

PEL Lab# : 211208604

Collection Information:

Client ID : SA16-SOIL

Sample Date: 1/8/02 3:30:00 PM

Matrix : Soil

ND = Less than RL

Parameter	Method	Results	Units	RL	Dilution Factor
Decachlorobiphenyl	SW-846 8082	98.1	%	(59 - 119)	1
**Reactive Cyanide	SW-846 Chapter 7	ND	mg/Kg	0.10	1
**Reactive Sulfide	SW-846 Chapter 7	ND	mg/Kg	25	1

- CERTIFICATE OF ANALYSIS -



FLDOH #E84207

To: Steve Tsangaris
CH2M Hill

WORK ORDER: 2112086
PROJECT ID: NTC Orlando

Brian C. Spaffn Laboratory Manager
Jodi Hutchins Quality Assurance
Lara Keene Semi-Volatiles Team Leader
Lisa Pelo Volatiles Team Leader

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

SLG000062598

Manifest Doc. No.

93.140

2. Page 1 of

3. Generator's Name and Mailing Address

US Navy - Southern Division
~~1060 Warehouse Rd 2850 Seabee Street~~
Orlando, Florida 32803

4. Generator's Phone ()

(407) 895-9103

5. Transporter 1 Company Name

J.N. Malcolm & Sons Excavating, Inc.

6. US EPA ID Number

A. Transporter's Phone

(407) 293-8794

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

Orange County Solid Waste Management Facility
5901 Young Pine Road
Orlando, Florida 32829

10. US EPA ID Number

OP
SO480128164006

C. Facility's Phone

(407) 836-6636

11. Waste Shipping Name and Description

12. Containers
No. Type

13. Total Quantity

14. Unit Wt/Vol

a. Petroleum contaminated soil

01 DT

23.85
Tons Yd

D. Additional Descriptions for Materials Listed Above

Authorization Number 98161

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

Tr 203 SA-16

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

Barbara Nwokike

Signature

Barbara Nwokike

Month Day Year
10 4 11 7 10 2

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Charles Smith

Signature

[Signature]

Month Day Year
10 4 11 7 10 2

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

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.

Printed/Typed Name

Shawn Bond

Signature

Shawn Bond

Month Day Year
14 11 2002

SA-110 MAR 93140
TK 203

L 1105552

ORANGE COUNTY LANDFILL INBOUND TRANSACTION: 11053536-0 SITE: 01

Solid Waste Department
P.O. Box 915267
Orlando, FL 32891-5267

TICKET NO: 11112849
SCALE IN/OUT: 0/0
OPER. IN/OUT: SHAWNA / DOT
DATE/TIME IN: 04/17/2002 12:09
DATE/TIME OUT: 04/17/2002 12:31

CUSTOMER: 609 Environmental Field Services, Inc.
HAULER: 609 Environmental Field Services, Inc.
VEHICLE: demo T DRIVER :
CONTAINER:

			RATE/ITEM	RATE/TON	RATE/EVT
MATERIAL:	54	Commercial Rubbish (CRUB)	\$0.00	\$32.95	\$0.00
ORIGIN:	COM	(COMM)	N/A	\$0.00	\$0.00
DESTINATION:			N/A	N/A	N/A

TAX EXEMPT #:	CoveredLoad: Yes	GROSS :	37.00 tons	74000 Lbs.
CHECK #:	Quantity: 0.00	TARE :	13.15 tons	26300 Lbs.
		NET :	23.85 tons	47700 Lbs.

MATERIAL CHARGES:	\$785.86	SUB TOTAL DUE:	\$785.86
ORIGIN CHARGES:	\$0.00	TAX DUE:	\$0.00
DESTINATION CHARGES:	\$0.00	TOTAL DUE:	\$785.86

MAT. DEPOSIT:	\$0.00
AMT TENDERED:	\$0.00
AMT RETURNED:	\$0.00

INSTRUCTIONS: tr 203 malcom and son
SPECIAL INSTRUCTIONS:

DRIVER SIGNATURE: _____

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.
SLG000062598

Manifest Doc. No.
73191

2. Page 1 of

3. Generator's Name and Mailing Address

US Navy - Southern Division
~~1060 Warehouse Rd - 2650 Seabee Street~~
Orlando, Florida 32803

4. Generator's Phone ()

(407) 895-9103

5. Transporter 1 Company Name

J.N. Malcolm & Sons Excavating, Inc.

6. US EPA ID Number

A. Transporter's Phone

(407) 293-8794

7. Transporter 2 Company Name

JUAN MARTINEZ

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

Orange County Solid Waste Management Facility
5901 Young Pine Road
Orlando, Florida 32829

10. US EPA ID Number

OP
S0480128/19/16

C. Facility's Phone

(407) 836-6636

11. Waste Shipping Name and Description

Petroleum contaminated soil

12. Containers

No. Type

13. Total Quantity

14. Unit WWVol

01

DT

18

Yd

D. Additional Descriptions for Materials Listed Above

Authorization Number 98161

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

IP-206 SA-16 43180

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

Barbara Nwokike

Signature

Barbara Nwokike

Month Day Year

10/11/02

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

JUAN MARTINEZ

Signature

JM

Month Day Year

4/17/02

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

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.

Printed/Typed Name

OC SW
DOT RANS

Signature

DOT RANS

Month Day Year

04/18/02

GENERATOR

TRANSPORTER

FACILITY

SA-16

PO# 93141
TK 206

L 1105532

ORANGE COUNTY LANDFILL INBOUND

TRANSACTION: 11053492-0 SITE: 01

Solid Waste Department
P.O. Box 915267
Orlando, FL 32891-5267

TICKET NO: 11112805
SCALE IN/OUT: 0/0
OPER. IN/OUT: DOT / SHAWNA
DATE/TIME IN: 04/17/2002 11:17
DATE/TIME OUT: 04/17/2002 11:42

CUSTOMER: 609 Environmental Field Services, Inc.
HAULER: 609 Environmental Field Services, Inc.
VEHICLE: DEMO T DRIVER :
CONTAINER:

MATERIAL:	54	Commercial Rubbish (CRUB)	RATE/ITEM	RATE/TON	RATE/EVT
ORIGIN:	COM	(COMM)	\$0.00	\$32.95	\$0.00
DESTINATION:			N/A	\$0.00	\$0.00
			N/A	N/A	N/A

TAX EXEMPT #:	CoveredLoad: Yes	GROSS :	34.85 tons	69700 Lbs.
CHECK #:	Quantity: 0.00	TARE :	13.26 tons	26520 Lbs.
		NET :	21.59 tons	43180 Lbs.

MATERIAL CHARGES:	\$711.39	SUB TOTAL DUE:	\$711.39
ORIGIN CHARGES:	\$0.00	TAX DUE:	\$0.00
DESTINATION CHARGES:	\$0.00	TOTAL DUE:	\$711.39

MAT. DEPOSIT:	\$0.00
AMT TENDERED:	\$0.00
AMT RETURNED:	\$0.00

INSTRUCTIONS: MALCOLM & SONS TRUCK 206
SPECIAL INSTRUCTIONS:

DRIVER SIGNATURE: _____

**NON-HAZARDOUS
WASTE MANIFEST**

1. Generator's US EPA ID No.

SLG000062598

Manifest Doc. No.

9.3142

2. Page 1

of

3. Generator's Name and Mailing Address

US Navy - Southern Division
~~2850 Seabee Street~~
1060 Warehouse Rd
Orlando, Florida 32803

4. Generator's Phone ()

(407) 895-9103

5. Transporter 1 Company Name

J.N. Malcolm & Sons Excavating, Inc.

6. US EPA ID Number

A. Transporter's Phone

(407) 293-8794

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

Orange County Solid Waste Management Facility
5901 Young Pine Road
Orlando, Florida 32829

10. US EPA ID Number

EP
SO480128169046

C. Facility's Phone

(407) 836-6636

11. Waste Shipping Name and Description

12. Containers

No.

Type

13. Total Quantity

14. Unit Wt/Vol

a. Petroleum contaminated soil

01

DT

21.27
Tons

Yd

b.
c.
d.

D. Additional Descriptions for Materials Listed Above

Authorization Number 98161

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

SA-16
TK 208

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

Barbara Nwokike

Signature

Barbara Nwokike

Month Day Year

10.41.7107

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

FELIX A BRACERO

Signature

Felixer

Month Day Year

04/17/02

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

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.

Printed/Typed Name

Dot RAB

Signature

Dot RAB

Month Day Year

04/17/02

GENERATOR

TRANSPORTER

FACILITY

SA-16 Man 93142
TK 208

L 1105542

ORANGE COUNTY LANDFILL INBOUND TRANSACTION: 11053516-0 SITE: 01

Solid Waste Department
P.O. Box 915267
Orlando, FL 32891-5267

TICKET NO: 11112829
SCALE IN/OUT: 0/0
OPER. IN/OUT: DOT / DOT
DATE/TIME IN: 04/17/2002 11:45
DATE/TIME OUT: 04/17/2002 12:11

CUSTOMER: 609 Environmental Field Services, Inc.
HAULER: 609 Environmental Field Services, Inc.
VEHICLE: DEMO T DRIVER :
CONTAINER:

			RATE/ITEM	RATE/TON	RATE/EVT
MATERIAL:	54	Commercial Rubbish (CRUB)	\$0.00	\$32.95	\$0.00
ORIGIN:	COM	(COMM)	N/A	\$0.00	\$0.00
DESTINATION:			N/A	N/A	N/A

TAX EXEMPT #:	Covered Load: Yes	GROSS :	34.95 tons	69900 Lbs.
CHECK #:	Quantity: 0.00	TARE :	13.68 tons	27360 Lbs.
		NET :	21.27 tons	42540 Lbs.

MATERIAL CHARGES:	\$700.85	SUB TOTAL DUE:	\$700.85
ORIGIN CHARGES:	\$0.00	TAX DUE:	\$0.00
DESTINATION CHARGES:	\$0.00	TOTAL DUE:	\$700.85

MAT. DEPOSIT:	\$0.00
AMT TENDERED:	\$0.00
AMT RETURNED:	\$0.00

INSTRUCTIONS: MALCOLM & SONS TR 208
SPECIAL INSTRUCTIONS:

DRIVER SIGNATURE: _____

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. SLG000062598	Manifest Doc. No. 93143	2. Page 1 of
3. Generator's Name and Mailing Address <i>1060 Warehouse Rd</i> US Navy - Southern Division 2550 Seabee Street Orlando, Florida 32803				
4. Generator's Phone () (407) 895-9103				
5. Transporter 1 Company Name J.N. Malcolm & Sons Excavating, Inc.	6. US EPA ID Number	A. Transporter's Phone (407) 293-8794		
7. Transporter 2 Company Name	8. US EPA ID Number	B. Transporter's Phone		
9. Designated Facility Name and Site Address Orange County Solid Waste Management Facility 5901 Young Pine Road Orlando, Florida 32829	10. US EPA ID Number <i>CP</i> SOY80108169006	C. Facility's Phone (407) 836-6636		
11. Waste Shipping Name and Description		12. Containers No.	13. Total Quantity	14. Unit Wt/Vol
a. Petroleum contaminated soil		01	19.32 Tons	Yd
b.				
c.				
d.				
D. Additional Descriptions for Materials Listed Above Authorization Number 98161		E. Handling Codes for Wastes Listed Above		
15. Special Handling Instructions and Additional Information SA-16 TK 203				
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 Barbara Nwokike		Signature <i>Barbara Nwokike</i>		Month Day Year 10.41.702
17. Transporter 1 Acknowledgement of Receipt of Materials				
Printed/Typed Name Charles Smith		Signature <i>Charles Smith</i>		Month Day Year 10.41.702
18. Transporter 2 Acknowledgement of Receipt of Materials				
Printed/Typed Name		Signature		Month Day Year
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.				
Printed/Typed Name <i>OCSW</i> Shawna Bond		Signature <i>Shawna Bond</i>		Month Day Year 11.4.02

GENERATOR

TRANSPORTER

FACILITY

SA 16 Man 93143
TK 203

L 1105447

ORANGE COUNTY LANDFILL INBOUND

TRANSACTION: 11053411-0 SITE: 01

Solid Waste Department
P.O. Box 915267
Orlando, FL 32891-5267

TICKET NO: 11112724
SCALE IN/OUT: 0/0
OPER. IN/OUT: SHAWNA / DOT
DATE/TIME IN: 04/17/2002 09:42
DATE/TIME OUT: 04/17/2002 10:04

CUSTOMER: 609 Environmental Field Services, Inc.
HAULER: 609 Environmental Field Services, Inc.
VEHICLE: DEMO T DRIVER :
CONTAINER:

			RATE/ITEM	RATE/TON	RATE/EVT
MATERIAL:	54	Commercial Rubbish (CRUB)	\$0.00	\$32.95	\$0.00
ORIGIN:	COM	(COMM)	N/A	\$0.00	\$0.00
DESTINATION:			N/A	N/A	N/A

TAX EXEMPT #:	CoveredLoad: Yes	GROSS :	32.46 tons	64920 Lbs.
CHECK #:	Quantity: 0.00	TARE :	13.14 tons	26280 Lbs.
		NET :	19.32 tons	38640 Lbs.

MATERIAL CHARGES:	\$636.59	SUB TOTAL DUE:	\$636.59
ORIGIN CHARGES:	\$0.00	TAX DUE:	\$0.00
DESTINATION CHARGES:	\$0.00	TOTAL DUE:	\$636.59

MAT. DEPOSIT:	\$0.00
AMT TENDERED:	\$0.00
AMT RETURNED:	\$0.00

INSTRUCTIONS: TR 203 MALCOM AND SONS
SPECIAL INSTRUCTIONS:

DRIVER SIGNATURE: _____

Please print or
(Font size 12)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.
SLG-000-062598

Manifest Doc. No.
93144

2. Page 1
of

3. Generator's Name and Mailing Address
US Navy - Southern Division
1660 Westwood Rd - 3850 Seabee Street
Orlando, Florida 32803

4. Generator's Phone ()
(407) 895-9103

5. Transporter 1 Company Name
J.N. Malcolm & Sons Excavating, Inc.

6. US EPA ID Number

A. Transporter's Phone
(407) 293-8794

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address
Orange County Solid Waste Management Facility
5901 Young Pine Road
Orlando, Florida 32829

10. ~~US EPA ID Number~~
CP
50480128169706

C. Facility's Phone
(407) 836-6636

11. Waste Shipping Name and Description

12. Containers
No. Type

13. Total
Quantity

14. Unit
Wt/Vol

a. Petroleum contaminated soil

01 DT

22.79
Tons

Yd

b.

c.

d.

D. Additional Descriptions for Materials Listed Above

Authorization Number 98161

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

#200

SA-16

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

Barbara Nwokike

Signature

Barbara Nwokike

Month Day Year

10/4/17/02

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Ron Elliott

Signature

Ron Elliott

Month Day Year

10/4/17/02

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

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.

Printed/Typed Name

OCSW
Dor RAB

Signature

Dor RAB

Month Day Year

10/4/17/02

SA-16 Malcom 93144
TK 200

L 1105461

ORANGE COUNTY LANDFILL INBOUND TRANSACTION: 11053425-0 SITE: 01

Solid Waste Department
P.O. Box 915267
Orlando, FL 32891-5267

TICKET NO: 11112738
SCALE IN/OUT: 0/0
OPER. IN/OUT: KAREN / DOT
DATE/TIME IN: 04/17/2002 10:03
DATE/TIME OUT: 04/17/2002 10:22

CUSTOMER: 609 Environmental Field Services, Inc.
HAULER: 609 Environmental Field Services, Inc.
VEHICLE: demo T DRIVER :
CONTAINER:

		RATE/ITEM	RATE/TON	RATE/EVT
MATERIAL:	54 Commercial Rubbish (CRUB)	\$0.00	\$32.95	\$0.00
ORIGIN:	COM (COMM)	N/A	\$0.00	\$0.00
DESTINATION:		N/A	N/A	N/A

TAX EXEMPT #:	CoveredLoad: Yes	GROSS :	36.85 tons	73700 Lbs.
CHECK #:	Quantity: 0.00	TARE :	14.06 tons	28120 Lbs.
		NET :	22.79 tons	45580 Lbs.

MATERIAL CHARGES:	\$750.93	SUB TOTAL DUE:	\$750.93
ORIGIN CHARGES:	\$0.00	TAX DUE:	\$0.00
DESTINATION CHARGES:	\$0.00	TOTAL DUE:	\$750.93

MAT. DEPOSIT:	\$0.00
AMT TENDERED:	\$0.00
AMT RETURNED:	\$0.00

INSTRUCTIONS: truck 200 malcom & sons
SPECIAL INSTRUCTIONS:

DRIVER SIGNATURE: _____

Appendix C

Certificate of Disposal



UTILITIES DEPARTMENT • SOLID WASTE DIVISION

5001 Young Pine Road • Orlando, Florida 32829
(407) 836-6601 • Fax (407) 836-6658

August 5, 2002

Attention: David Demas, CHMM
Senior Project Manager
Environmental Field Services, Inc.
40 West State Road 32
Westfield, Indiana 46074

Subject: Certificate of Waste Disposal

In response to your email request, this letter is to certify that Environmental Field Services, Inc. has properly disposed of 1,894.26 tons of non regulated PAH impacted soil generated from the Orlando Navy Training Center, McCoy Annex. The material was disposed of at our Class 1 (lined cell) landfill between March 3 and April 17, 2002.

Sincerely,

A handwritten signature in cursive script that reads "Dan R. Morrical".

Dan Morrical, P.E., Chief Engineer
Orange County Solid Waste Division

cc: Special Waste 2002

Appendix D

Backfill Analytical Test Results

Sample Summary

Accutest Labs S. E.

Job No: F12439R

CHMHFLT: NTC-Orlando (Quarterly/Semi-Annual)(CTO 17)
Project No: 152044

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
F12439-1R	02/25/02	16:30 CW	02/26/02	SO	Soil	FILL
F12439-2R	02/25/02	16:40 CW	02/26/02	SO	Soil	TOP

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Report of Analysis

Client Sample ID:	FILL		Date Sampled:	02/25/02	
Lab Sample ID:	F12439-1R		Date Received:	02/26/02	
Matrix:	SO - Soil		Percent Solids:	86.2	
Method:	SW846 8270C SW846 3550B				
Project:	CHMHFLT: NTC-Orlando (Quarterly/Semi-Annual)(CTO 17)				

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H02238.D	1	03/06/02	SC	03/05/02	OP819	EH152
Run #2							

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
65-85-0	Benzoic acid	ND	910	ug/kg	
95-57-8	2-Chlorophenol	ND	180	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	180	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	180	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	180	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	910	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	360	ug/kg	
95-48-7	2-Methylphenol	ND	180	ug/kg	
	3&4-Methylphenol	ND	180	ug/kg	
88-75-5	2-Nitrophenol	ND	180	ug/kg	
100-02-7	4-Nitrophenol	ND	910	ug/kg	
87-86-5	Pentachlorophenol	ND	910	ug/kg	
108-95-2	Phenol	ND	180	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	180	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	180	ug/kg	
83-32-9	Acenaphthene	ND	180	ug/kg	
208-96-8	Acenaphthylene	ND	180	ug/kg	
120-12-7	Anthracene	ND	180	ug/kg	
56-55-3	Benzo(a)anthracene	ND	180	ug/kg	
50-32-8	Benzo(a)pyrene	ND	180	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	180	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	180	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	180	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	180	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	180	ug/kg	
100-51-6	Benzyl Alcohol	ND	180	ug/kg	
91-58-7	2-Chloronaphthalene	ND	180	ug/kg	
106-47-8	4-Chloroaniline	ND	180	ug/kg	
86-74-8	Carbazole	ND	180	ug/kg	
218-01-9	Chrysene	ND	180	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	180	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	180	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	180	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	180	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	180	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	180	ug/kg	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

000009

Report of Analysis

Client Sample ID:	FILL	Date Sampled:	02/25/02
Lab Sample ID:	F12439-1R	Date Received:	02/26/02
Matrix:	SO - Soil	Percent Solids:	86.2
Method:	SW846 8270C SW846 3550B	Project: CIIMHFLT: NTC-Orlando (Quarterly/Semi-Annual)(CTO 17)	

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	180	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	180	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	180	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	360	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	180	ug/kg	
132-64-9	Dibenzofuran	ND	180	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	180	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	180	ug/kg	
84-66-2	Diethyl phthalate	ND	180	ug/kg	
131-11-3	Dimethyl phthalate	ND	180	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	180	ug/kg	
206-44-0	Fluoranthene	ND	180	ug/kg	
86-73-7	Fluorene	ND	180	ug/kg	
118-74-1	Hexachlorobenzene	ND	180	ug/kg	
87-68-3	Hexachlorobutadiene	ND	180	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	180	ug/kg	
67-72-1	Hexachloroethane	ND	180	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	180	ug/kg	
78-59-1	Isophorone	ND	180	ug/kg	
91-57-6	2-Methylnaphthalene	ND	180	ug/kg	
88-74-4	2-Nitroaniline	ND	910	ug/kg	
99-09-2	3-Nitroaniline	ND	910	ug/kg	
100-01-6	4-Nitroaniline	ND	910	ug/kg	
91-20-3	Naphthalene	ND	180	ug/kg	
98-95-3	Nitrobenzene	ND	180	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	180	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	180	ug/kg	
85-01-8	Phenanthrene	ND	180	ug/kg	
129-00-0	Pyrene	ND	180	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	180	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	75%		36-129%
4165-62-2	Phenol-d5	84%		38-135%
118-79-6	2,4,6-Tribromophenol	92%		37-144%
4165-60-0	Nitrobenzene-d5	77%		36-135%
321-60-8	2-Fluorobiphenyl	79%		44-135%
1718-51-0	Terphenyl-d14	75%		42-149%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

000010

Report of Analysis

Client Sample ID:	TOP	Date Sampled:	02/25/02
Lab Sample ID:	F12439-2R	Date Received:	02/26/02
Matrix:	SO - Soil	Percent Solids:	91.9
Method:	SW846 8270C SW846 3550B		
Project:	CHMHFLT: NTC-Orlando (Quarterly/Semi-Annual)(CTO 17)		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H02239.D	1	03/06/02	SC	03/05/02	OP819	EH152
Run #2							

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
65-85-0	Benzoic acid	ND	840	ug/kg	
95-57-8	2-Chlorophenol	ND	170	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	840	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	340	ug/kg	
95-48-7	2-Methylphenol	ND	170	ug/kg	
	3&4-Methylphenol	ND	170	ug/kg	
88-75-5	2-Nitrophenol	ND	170	ug/kg	
100-02-7	4-Nitrophenol	ND	840	ug/kg	
87-86-5	Pentachlorophenol	ND	840	ug/kg	
108-95-2	Phenol	ND	170	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	ug/kg	
83-32-9	Acenaphthene	ND	170	ug/kg	
208-96-8	Acenaphthylene	ND	170	ug/kg	
120-12-7	Anthracene	ND	170	ug/kg	
56-55-3	Benzo(a)anthracene	ND	170	ug/kg	
50-32-8	Benzo(a)pyrene	ND	170	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	170	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	170	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	170	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	170	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	170	ug/kg	
100-51-6	Benzyl Alcohol	ND	170	ug/kg	
91-58-7	2-Chloronaphthalene	ND	170	ug/kg	
106-47-8	4-Chloroaniline	ND	170	ug/kg	
86-74-8	Carbazole	ND	170	ug/kg	
218-01-9	Chrysene	ND	170	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	170	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	170	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	170	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	170	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	170	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	170	ug/kg	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

000001

Report of Analysis

Client Sample ID: TOP		Date Sampled: 02/25/02
Lab Sample ID: F12439-2R		Date Received: 02/26/02
Matrix: SO - Soil		Percent Solids: 91.9
Method: SW846 8270C SW846 3550B		
Project: CHMHFLT: NTC-Orlando (Quarterly/Semi-Annual)(CTO 17)		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	170	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	170	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	170	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	340	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	170	ug/kg	
132-64-9	Dibenzofuran	ND	170	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	170	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	170	ug/kg	
84-66-2	Diethyl phthalate	ND	170	ug/kg	
131-11-3	Dimethyl phthalate	ND	170	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	170	ug/kg	
206-44-0	Fluoranthene	ND	170	ug/kg	
86-73-7	Fluorene	ND	170	ug/kg	
118-74-1	Hexachlorobenzene	ND	170	ug/kg	
87-68-3	Hexachlorobutadiene	ND	170	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	170	ug/kg	
67-72-1	Hexachloroethane	ND	170	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	170	ug/kg	
78-59-1	Isophorone	ND	170	ug/kg	
91-57-6	2-Methylnaphthalene	ND	170	ug/kg	
88-74-4	2-Nitroaniline	ND	840	ug/kg	
99-09-2	3-Nitroaniline	ND	840	ug/kg	
100-01-6	4-Nitroaniline	ND	840	ug/kg	
91-20-3	Naphthalene	ND	170	ug/kg	
98-95-3	Nitrobenzene	ND	170	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	170	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	ug/kg	
85-01-8	Phenanthrene	ND	170	ug/kg	
129-00-0	Pyrene	ND	170	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	170	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	75%		36-129%
4165-62-2	Phenol-d5	87%		38-135%
118-79-6	2,4,6-Tribromophenol	90%		37-144%
4165-60-0	Nitrobenzene-d5	69%		36-135%
321-60-8	2-Fluorobiphenyl	79%		44-135%
1718-51-0	Terphenyl-d14	79%		42-149%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

660026

Sample Summary

Environmental Field Services

Job No: F12439

NTC-Orlando (CH2M Hill)

Project No: 152044

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
F12439-1	02/25/02	16:30 CW	02/26/02	SO	Soil	FILL
F12439-2	02/25/02	16:40 CW	02/26/02	SO	Soil	TOP
F12439-1A	02/25/02	16:30 CW	02/26/02	SO	Soil	FILL
F12439-2A	02/25/02	16:40 CW	02/26/02	SO	Soil	TOP

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

000012

Report of Analysis

Client Sample ID: FILL	
Lab Sample ID: F12439-1	Date Sampled: 02/25/02
Matrix: SO - Soil	Date Received: 02/26/02
Method: SW846 8260B	Percent Solids: 91.7
Project: NTC-Orlando (CH2M Hill)	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #2	K007998.D	1	03/01/02	NAF	n/a	n/a	VK285

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	69	ug/kg	
71-43-2	Benzene	ND	6.9	ug/kg	
75-27-4	Bromodichloromethane	ND	6.9	ug/kg	
75-25-2	Bromoform	ND	6.9	ug/kg	
108-90-7	Chlorobenzene	ND	6.9	ug/kg	
75-00-3	Chloroethane	ND	6.9	ug/kg	
67-66-3	Chloroform	ND	6.9	ug/kg	
75-15-0	Carbon disulfide	ND	14	ug/kg	
56-23-5	Carbon tetrachloride	ND	6.9	ug/kg	
75-34-3	1,1-Dichloroethane	ND	6.9	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	6.9	ug/kg	
107-06-2	1,2-Dichloroethane	ND	6.9	ug/kg	
78-87-5	1,2-Dichloropropane	ND	6.9	ug/kg	
124-48-1	Dibromochloromethane	ND	6.9	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	6.9	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	6.9	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	6.9	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	6.9	ug/kg	
100-41-4	Ethylbenzene	ND	6.9	ug/kg	
591-78-6	2-Hexanone	ND	14	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	14	ug/kg	
74-83-9	Methyl bromide	ND	6.9	ug/kg	
74-87-3	Methyl chloride	ND	6.9	ug/kg	
75-09-2	Methylene chloride	ND	14	ug/kg	
78-93-3	Methyl ethyl ketone	ND	14	ug/kg	
100-42-5	Styrene	ND	6.9	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	6.9	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	6.9	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	6.9	ug/kg	
127-18-4	Tetrachloroethylene	ND	6.9	ug/kg	
108-88-3	Toluene	ND	6.9	ug/kg	
79-01-6	Trichloroethylene	ND	6.9	ug/kg	
75-01-4	Vinyl chloride	ND	6.9	ug/kg	
1330-20-7	Xylene (total)	ND	21	ug/kg	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

000013

Report of Analysis

Client Sample ID: FILL	Date Sampled: 02/25/02
Lab Sample ID: F12439-1	Date Received: 02/26/02
Matrix: SO - Soil	Percent Solids: 91.7
Method: SW846 8260B	
Project: NTC-Orlando (CH2M Hill)	

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		75-125%
2037-26-5	Toluene-D8	101%		75-125%
460-00-4	4-Bromofluorobenzene	102%		72-137%
17060-07-0	1,2-Dichloroethane-D4	101%		68-125%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

000014

Report of Analysis

Client Sample ID: FILL		
Lab Sample ID: F12439-1		Date Sampled: 02/25/02
Matrix: SO - Soil		Date Received: 02/26/02
Method: SW846 8270C SW846 3510C		Percent Solids: 91.7
Project: NTC-Orlando (CH2M Hill)		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H02216.D	1	03/01/02	ATX	02/28/02	T:OP805	T:EH150
Run #2							

ABN TCLP Leachate

CAS No.	Compound	Result	HW#	MCL	RL	Units	Q
95-48-7	2-Methylphenol	ND	D023	200	0.050	mg/l	
	3&4-Methylphenol	ND	D024	200	0.050	mg/l	
87-86-5	Pentachlorophenol	ND	D037	100	0.25	mg/l	
95-95-4	2,4,5-Trichlorophenol	ND	D041	400	0.050	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	D042	2.0	0.050	mg/l	
106-46-7	1,4-Dichlorobenzene	ND	D027	7.5	0.050	mg/l	
121-14-2	2,4-Dinitrotoluene	ND	D030	0.13	0.050	mg/l	
118-74-1	Hexachlorobenzene	ND	D032	0.13	0.050	mg/l	
87-68-3	Hexachlorobutadiene	ND	D033	0.50	0.050	mg/l	
67-72-1	Hexachloroethane	ND	D034	3.0	0.050	mg/l	
98-95-3	Nitrobenzene	ND	D036	2.0	0.050	mg/l	
110-86-1	Pyridine	ND	D038	5.0	0.050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	23%		21-100%
4165-62-2	Phenol-d5	15%		10-94%
118-79-6	2,4,6-Tribromophenol	76%		10-123%
4165-60-0	Nitrobenzene-d5	72%		35-114%
321-60-8	2-Fluorobiphenyl	69%		43-116%
1718-51-0	Terphenyl-d14	70%		33-141%

ND = Not detected

MCL = Maximum Contamination Level (40 CFR 261 6/96)

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

000015

Report of Analysis

Client Sample ID: FILL	
Lab Sample ID: F12439-1	Date Sampled: 02/25/02
Matrix: SO - Soil	Date Received: 02/26/02
Method: FLORIDA-PRO SW846 3550B	Percent Solids: 91.7
Project: NTC-Orlando (CH2M Hill)	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP20050.D	1	03/04/02	SKW	03/01/02	OP4731	GOP743
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	8.35	9.4	mg/kg	J
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
84-15-1	o-Terphenyl	84%		66-130%	

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

000016

Report of Analysis

Client Sample ID: FILL	
Lab Sample ID: F12439-1	Date Sampled: 02/25/02
Matrix: SO - Soil	Date Received: 02/26/02
Method: SW846 8081A SW846 3550B	Percent Solids: 91.7
Project: NTC-Orlando (CH2M Hill)	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ST13342.D	1	03/06/02	SKW	02/27/02	OP4714	GST492
Run #2 ^a	ST13315.D	10	03/05/02	SKW	02/27/02	OP4714	GST491

Pesticide TCL List

CAS No.	Compound	Result	RL	Units	Q
309-00-2	Aldrin	ND	1.8	ug/kg	
319-84-6	alpha-BHC	ND	1.8	ug/kg	
319-85-7	beta-BHC	ND	1.8	ug/kg	
319-86-8	delta-BHC	ND	1.8	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	1.8	ug/kg	
5103-71-9	alpha-Chlordane	ND	3.6	ug/kg	
5103-74-2	gamma-Chlordane	ND	3.6	ug/kg	
60-57-1	Dieldrin	ND	1.8	ug/kg	
72-54-8	4,4'-DDD	ND	3.6	ug/kg	
72-55-9	4,4'-DDE	ND	3.6	ug/kg	
50-29-3	4,4'-DDT	ND ^b	36	ug/kg	
72-20-8	Endrin	ND	3.6	ug/kg	
1031-07-8	Endosulfan sulfate	ND	3.6	ug/kg	
7421-93-4	Endrin aldehyde	ND	3.6	ug/kg	
53494-70-5	Endrin ketone	ND	3.6	ug/kg	
959-98-8	Endosulfan-I	ND	1.8	ug/kg	
33213-65-9	Endosulfan-II	ND	3.6	ug/kg	
76-44-8	Heptachlor	ND	1.8	ug/kg	
1024-57-3	Heptachlor epoxide	ND	1.8	ug/kg	
72-43-5	Methoxychlor	ND ^b	72	ug/kg	
8001-35-2	Toxaphene	ND	180	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	94%	84%	42-144%
2051-24-3	Decachlorobiphenyl	112%	123%	48-159%

(a) Dilution required due to matrix interference.

(b) Result is from Run# 2

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

000017

Report of Analysis

Client Sample ID: FILL	
Lab Sample ID: F12439-1	Date Sampled: 02/25/02
Matrix: SO - Soil	Date Received: 02/26/02
Method: SW846 8082 SW846 3550B	Percent Solids: 91.7
Project: NTC-Orlando (CH2M Hill)	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AB21192.D	1	02/28/02	NJ	02/27/02	OP4715	GAB771
Run #2							

PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	36	ug/kg	
11104-28-2	Aroclor 1221	ND	36	ug/kg	
11141-16-5	Aroclor 1232	ND	36	ug/kg	
53469-21-9	Aroclor 1242	ND	36	ug/kg	
12672-29-6	Aroclor 1248	ND	36	ug/kg	
11097-69-1	Aroclor 1254	ND	36	ug/kg	
11096-82-5	Aroclor 1260	ND	36	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	85%		44-131%
2051-24-3	Decachlorobiphenyl	85%		45-140%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

000018

Report of Analysis

Client Sample ID: FILL		Date Sampled: 02/25/02
Lab Sample ID: F12439-1		Date Received: 02/26/02
Matrix: SO - Soil		Percent Solids: 91.7
Method: SW846 8151 SW846 3510C		
Project: NTC-Orlando (CH2M Hill)		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GG03486.D	1	03/04/02	ATX	02/28/02	T:OP804	T:GGG129
Run #2							

Herbicide TCLP Leachate

CAS No.	Compound	Result	HW#	MCL	RL	Units	Q
94-75-7	2,4-D	ND	D016	10	0.010	mg/l	
93-72-1	2,4,5-TP (Silvex)	ND	D017	1.0	0.0020	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	40%		10-150%

ND = Not detected

MCL = Maximum Contamination Level (40 CFR 261 6/96)

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

000019

Report of Analysis

Client Sample ID: FILL	Date Sampled: 02/25/02
Lab Sample ID: F12439-1	Date Received: 02/26/02
Matrix: SO - Soil	Percent Solids: 91.7
Project: NTC-Orlando (CH2M Hill)	

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	3660	11	mg/kg	1	02/27/02	02/28/02	ATX SW846 6010B	SW846 3050B
Antimony	1.8	0.57	mg/kg	1	02/27/02	02/28/02	ATX SW846 6010B	SW846 3050B
Arsenic	<1.1	1.1	mg/kg	1	02/27/02	02/28/02	ATX SW846 6010B	SW846 3050B
Barium	2.7	0.57	mg/kg	1	02/27/02	02/28/02	ATX SW846 6010B	SW846 3050B
Beryllium	<0.57	0.57	mg/kg	1	02/27/02	02/28/02	ATX SW846 6010B	SW846 3050B
Cadmium	<0.57	0.57	mg/kg	1	02/27/02	02/28/02	ATX SW846 6010B	SW846 3050B
Calcium	<57	57	mg/kg	1	02/27/02	02/28/02	ATX SW846 6010B	SW846 3050B
Chromium	3.6	1.7	mg/kg	1	02/27/02	02/28/02	ATX SW846 6010B	SW846 3050B
Cobalt	<0.57	0.57	mg/kg	1	02/27/02	02/28/02	ATX SW846 6010B	SW846 3050B
Copper	<1.1	1.1	mg/kg	1	02/27/02	02/28/02	ATX SW846 6010B	SW846 3050B
Iron	355	17	mg/kg	1	02/27/02	02/28/02	ATX SW846 6010B	SW846 3050B
Lead	2.4	0.57	mg/kg	1	02/27/02	02/28/02	ATX SW846 6010B	SW846 3050B
Magnesium	<57	57	mg/kg	1	02/27/02	02/28/02	ATX SW846 6010B	SW846 3050B
Manganese	<1.7	1.7	mg/kg	1	02/27/02	02/28/02	ATX SW846 6010B	SW846 3050B
Mercury	<0.076	0.076	mg/kg	1	02/27/02	02/28/02	ATX SW846 7471A	SW846 7471A
Nickel	<2.3	2.3	mg/kg	1	02/27/02	02/28/02	ATX SW846 6010B	SW846 3050B
Potassium	<57	57	mg/kg	1	02/27/02	02/28/02	ATX SW846 6010B	SW846 3050B
Selenium	<0.57	0.57	mg/kg	1	02/27/02	02/28/02	ATX SW846 6010B	SW846 3050B
Silver	<1.1	1.1	mg/kg	1	02/27/02	02/28/02	ATX SW846 6010B	SW846 3050B
Sodium	<57	57	mg/kg	1	02/27/02	02/28/02	ATX SW846 6010B	SW846 3050B
Thallium	<0.57	0.57	mg/kg	1	02/27/02	02/28/02	ATX SW846 6010B	SW846 3050B
Vanadium	3.4	0.57	mg/kg	1	02/27/02	02/28/02	ATX SW846 6010B	SW846 3050B
Zinc	<1.1	1.1	mg/kg	1	02/27/02	02/28/02	ATX SW846 6010B	SW846 3050B

RL = Reporting Limit

000020

Report of Analysis

Client Sample ID: FILL Lab Sample ID: F12439-1 Matrix: SO - Soil Project: NTC-Orlando (CH2M Hill)	Date Sampled: 02/25/02 Date Received: 02/26/02 Percent Solids: 91.7
--	--

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By	Method
Solids, Percent	91.7		%	1	02/27/02 YA	EPA 160.3 M
pH	4.7		su	1	02/28/02 ATX	SW846 9045C

RL = Reporting Limit

Report of Analysis

Client Sample ID: TOP	
Lab Sample ID: F12439-2	Date Sampled: 02/25/02
Matrix: SO - Soil	Date Received: 02/26/02
Method: SW846 8260B	Percent Solids: 92.8
Project: NTC-Orlando (CH2M Hill)	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	K008022.D	1	03/04/02	NAF	n/a	n/a	VK286
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	75	ug/kg	
71-43-2	Benzene	ND	7.5	ug/kg	
75-27-4	Bromodichloromethane	ND	7.5	ug/kg	
75-25-2	Bromoform	ND	7.5	ug/kg	
108-90-7	Chlorobenzene	ND	7.5	ug/kg	
75-00-3	Chloroethane	ND	7.5	ug/kg	
67-66-3	Chloroform	ND	7.5	ug/kg	
75-15-0	Carbon disulfide	ND	15	ug/kg	
56-23-5	Carbon tetrachloride	ND	7.5	ug/kg	
75-34-3	1,1-Dichloroethane	ND	7.5	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	7.5	ug/kg	
107-06-2	1,2-Dichloroethane	ND	7.5	ug/kg	
78-87-5	1,2-Dichloropropane	ND	7.5	ug/kg	
124-48-1	Dibromochloromethane	ND	7.5	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	7.5	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	7.5	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	7.5	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	7.5	ug/kg	
100-41-4	Ethylbenzene	ND	7.5	ug/kg	
591-78-6	2-Hexanone	ND	15	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	15	ug/kg	
74-83-9	Methyl bromide	ND	7.5	ug/kg	
74-87-3	Methyl chloride	ND	7.5	ug/kg	
75-09-2	Methylene chloride	ND	15	ug/kg	
78-93-3	Methyl ethyl ketone	ND	15	ug/kg	
100-42-5	Styrene	ND	7.5	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	7.5	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	7.5	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	7.5	ug/kg	
127-18-4	Tetrachloroethylene	ND	7.5	ug/kg	
108-88-3	Toluene	ND	7.5	ug/kg	
79-01-6	Trichloroethylene	ND	7.5	ug/kg	
75-01-4	Vinyl chloride	ND	7.5	ug/kg	
1330-20-7	Xylene (total)	ND	23	ug/kg	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

000022

Report of Analysis

Client Sample ID: TOP	
Lab Sample ID: F12439-2	Date Sampled: 02/25/02
Matrix: SO - Soil	Date Received: 02/26/02
Method: SW846 8260B	Percent Solids: 92.8
Project: NTC-Orlando (CH2M Hill)	

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		75-125%
2037-26-5	Toluene-D8	112%		75-125%
460-00-4	4-Bromofluorobenzene	127%		72-137%
17060-07-0	1,2-Dichloroethane-D4	101%		68-125%

(a) En Core sampler was not properly capped; results are considered minimum values.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TOP							
Lab Sample ID: F12439-2					Date Sampled: 02/25/02		
Matrix: SO - Soil					Date Received: 02/26/02		
Method: SW846 8270C SW846 3510C					Percent Solids: 92.8		
Project: NTC-Orlando (CH2M Hill)							

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H02217.D	1	03/01/02	ATX	02/28/02	T:OP805	T:EH150
Run #2							

ABN TCLP Leachate

CAS No.	Compound	Result	HW#	MCL	RL	Units	Q
95-48-7	2-Methylphenol	ND	D023	200	0.050	mg/l	
	3&4-Methylphenol	ND	D024	200	0.050	mg/l	
87-86-5	Pentachlorophenol	ND	D037	100	0.25	mg/l	
95-95-4	2,4,5-Trichlorophenol	ND	D041	400	0.050	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	D042	2.0	0.050	mg/l	
106-46-7	1,4-Dichlorobenzene	ND	D027	7.5	0.050	mg/l	
121-14-2	2,4-Dinitrotoluene	ND	D030	0.13	0.050	mg/l	
118-74-1	Hexachlorobenzene	ND	D032	0.13	0.050	mg/l	
87-68-3	Hexachlorobutadiene	ND	D033	0.50	0.050	mg/l	
67-72-1	Hexachloroethane	ND	D034	3.0	0.050	mg/l	
98-95-3	Nitrobenzene	ND	D036	2.0	0.050	mg/l	
110-86-1	Pyridine	ND	D038	5.0	0.050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	34%		21-100%
4165-62-2	Phcnol-d5	22%		10-94%
118-79-6	2,4,6-Tribromophenol	66%		10-123%
4165-60-0	Nitrobenzene-d5	64%		35-114%
321-60-8	2-Fluorobiphenyl	63%		43-116%
1718-51-0	Terphenyl-d14	58%		33-141%

ND = Not detected

MCL = Maximum Contamination Level (40 CFR 261 6/96)

E = Indicates value exceeds calibration range

J = Indicates an estimated value 000024

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TOP	
Lab Sample ID: F12439-2	Date Sampled: 02/25/02
Matrix: SO - Soil	Date Received: 02/26/02
Method: FLORIDA-PRO SW846 3550B	Percent Solids: 92.8
Project: NTC-Orlando (CH2M Hill)	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP20101.D	1	03/06/02	SKW	03/05/02	OP4731	GOP745
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	99.3	8.8	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	99%		66-130%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

000025

Report of Analysis

Client Sample ID: TOP			
Lab Sample ID:	F12439-2	Date Sampled:	02/25/02
Matrix:	SO - Soil	Date Received:	02/26/02
Method:	SW846 8081A SW846 3550B	Percent Solids:	92.8
Project:	NTC-Orlando (CH2M Hill)		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ST13343.D	1	03/06/02	SKW	02/27/02	OP4714	GST492
Run #2 ^a	ST13316.D	10	03/05/02	SKW	02/27/02	OP4714	GST491

Pesticide TCL List

CAS No.	Compound	Result	RL	Units	Q
309-00-2	Aldrin	ND	1.8	ug/kg	
319-84-6	alpha-BHC	ND	1.8	ug/kg	
319-85-7	beta-BHC	ND	1.8	ug/kg	
319-86-8	delta-BHC	ND	1.8	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	1.8	ug/kg	
5103-71-9	alpha-Chlordane	ND	3.5	ug/kg	
5103-74-2	gamma-Chlordane	ND	3.5	ug/kg	
60-57-1	Dieldrin	ND	1.8	ug/kg	
72-54-8	4,4'-DDD	ND	3.5	ug/kg	
72-55-9	4,4'-DDE	ND	3.5	ug/kg	
50-29-3	4,4'-DDT	ND ^b	35	ug/kg	
72-20-8	Endrin	ND	3.5	ug/kg	
1031-07-8	Endosulfan sulfate	ND	3.5	ug/kg	
7421-93-4	Endrin aldehyde	ND	3.5	ug/kg	
53494-70-5	Endrin ketone	ND	3.5	ug/kg	
959-98-8	Endosulfan-I	ND	1.8	ug/kg	
33213-65-9	Endosulfan-II	ND	3.5	ug/kg	
76-44-8	Heptachlor	ND	1.8	ug/kg	
1024-57-3	Heptachlor epoxide	ND	1.8	ug/kg	
72-43-5	Methoxychlor	ND ^b	70	ug/kg	
8001-35-2	Toxaphene	ND	180	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	118%	111%	42-144%
2051-24-3	Decachlorobiphenyl	129%	141%	48-159%

(a) Dilution required due to matrix interference.

(b) Result is from Run# 2

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TOP	
Lab Sample ID: F12439-2	Date Sampled: 02/25/02
Matrix: SO - Soil	Date Received: 02/26/02
Method: SW846 8082 SW846 3550B	Percent Solids: 92.8
Project: NTC-Orlando (CH2M Hill)	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AB21193.D	1	02/28/02	NJ	02/27/02	OP4715	GAB771
Run #2							

PCB List

CAS No.	Compound	Result	RL	Units Q
12674-11-2	Aroclor 1016	ND	35	ug/kg
11104-28-2	Aroclor 1221	ND	35	ug/kg
11141-16-5	Aroclor 1232	ND	35	ug/kg
53469-21-9	Aroclor 1242	ND	35	ug/kg
12672-29-6	Aroclor 1248	ND	35	ug/kg
11097-69-1	Aroclor 1254	ND	35	ug/kg
11096-82-5	Aroclor 1260	ND	35	ug/kg

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	101%		44-131%
2051-24-3	Decachlorobiphenyl	80%		45-140%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

000027

Report of Analysis

Client Sample ID: TOP	
Lab Sample ID: F12439-2	Date Sampled: 02/25/02
Matrix: SO - Soil	Date Received: 02/26/02
Method: SW846 8151 SW846 3510C	Percent Solids: 92.8
Project: NTC-Orlando (CH2M Hill)	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GG03487.D	1	03/04/02	ATX	02/28/02	T:OP804	T:GGG129
Run #2							

Herbicide TCLP Leachate

CAS No.	Compound	Result	HW#	MCL	RL	Units	Q
94-75-7	2,4-D	ND	D016	10	0.010	mg/l	
93-72-1	2,4,5-TP (Silvex)	ND	D017	1.0	0.0020	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	41%		10-150%

ND = Not detected

MCL = Maximum Contamination Level (40 CFR 261 6/96)

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

000028

Report of Analysis

Client Sample ID: TOP	Date Sampled: 02/25/02
Lab Sample ID: F12439-2	Date Received: 02/26/02
Matrix: SO - Soil	Percent Solids: 92.8
Project: NTC-Orlando (CH2M Hill)	

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	1910	11	mg/kg	1	02/27/02	02/28/02	ATX SW846 6010B	SW846 3050B
Antimony	0.94	0.54	mg/kg	1	02/27/02	02/28/02	ATX SW846 6010B	SW846 3050B
Arsenic	<1.1	1.1	mg/kg	1	02/27/02	02/28/02	ATX SW846 6010B	SW846 3050B
Barium	5.7	0.54	mg/kg	1	02/27/02	02/28/02	ATX SW846 6010B	SW846 3050B
Beryllium	<0.54	0.54	mg/kg	1	02/27/02	02/28/02	ATX SW846 6010B	SW846 3050B
Cadmium	<0.54	0.54	mg/kg	1	02/27/02	02/28/02	ATX SW846 6010B	SW846 3050B
Calcium	630	54	mg/kg	1	02/27/02	02/28/02	ATX SW846 6010B	SW846 3050B
Chromium	2.3	1.6	mg/kg	1	02/27/02	02/28/02	ATX SW846 6010B	SW846 3050B
Cobalt	<0.54	0.54	mg/kg	1	02/27/02	02/28/02	ATX SW846 6010B	SW846 3050B
Copper	<1.1	1.1	mg/kg	1	02/27/02	02/28/02	ATX SW846 6010B	SW846 3050B
Iron	216	16	mg/kg	1	02/27/02	02/28/02	ATX SW846 6010B	SW846 3050B
Lead	3.3	0.54	mg/kg	1	02/27/02	02/28/02	ATX SW846 6010B	SW846 3050B
Magnesium	54.4	54	mg/kg	1	02/27/02	02/28/02	ATX SW846 6010B	SW846 3050B
Manganese	<1.6	1.6	mg/kg	1	02/27/02	02/28/02	ATX SW846 6010B	SW846 3050B
Mercury	<0.073	0.073	mg/kg	1	02/27/02	02/28/02	ATX SW846 7471A	SW846 7471A
Nickel	<2.2	2.2	mg/kg	1	02/27/02	02/28/02	ATX SW846 6010B	SW846 3050B
Potassium	<54	54	mg/kg	1	02/27/02	02/28/02	ATX SW846 6010B	SW846 3050B
Selenium	<0.54	0.54	mg/kg	1	02/27/02	02/28/02	ATX SW846 6010B	SW846 3050B
Silver	<1.1	1.1	mg/kg	1	02/27/02	02/28/02	ATX SW846 6010B	SW846 3050B
Sodium	<54	54	mg/kg	1	02/27/02	02/28/02	ATX SW846 6010B	SW846 3050B
Thallium	<0.54	0.54	mg/kg	1	02/27/02	02/28/02	ATX SW846 6010B	SW846 3050B
Vanadium	2.0	0.54	mg/kg	1	02/27/02	02/28/02	ATX SW846 6010B	SW846 3050B
Zinc	1.2	1.1	mg/kg	1	02/27/02	02/28/02	ATX SW846 6010B	SW846 3050B

RL = Reporting Limit

000029

Report of Analysis

Client Sample ID: TOP		Date Sampled: 02/25/02
Lab Sample ID: F12439-2		Date Received: 02/26/02
Matrix: SO - Soil		Percent Solids: 92.8
Project: NTC-Orlando (CH2M Hill)		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By	Method
Solids, Percent	92.8		%	1	02/27/02 YA	EPA 160.3 M
pH	5.2		su	1	02/28/02 ATX	SW846 9045C

RL = Reporting Limit

Report of Analysis

Client Sample ID: FILL Lab Sample ID: F12439-1A Matrix: SO - Soil Method: SW846 8151 SW846 3550B Project: NTC-Orlando (CH2M Hill)	Date Sampled: 02/25/02 Date Received: 02/26/02 Percent Solids: 91.7
--	--

Run #1 ^a	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #2	GG03509.D	10	03/04/02	ATX	02/28/02	T:OP801	T:GGG129

Herbicide List

CAS No.	Compound	Result	RL	Units	Q
94-75-7	2,4-D	ND	380	ug/kg	
93-72-1	2,4,5-TP (Silvex)	ND	76	ug/kg	
93-76-5	2,4,5-T	ND	76	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	61%		10-150%

(a) Elevated reporting limits due to matrix interference, extract was viscous.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

000001

Report of Analysis

Client Sample ID: FILL	Date Sampled: 02/25/02
Lab Sample ID: F12439-1A	Date Received: 02/26/02
Matrix: SO - Soil	Percent Solids: 91.7
Project: NTC-Orlando (CH2M Hill)	

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	<1.2	1.2	mg/kg	1	02/27/02	02/28/02 ATX	SW846 6010B	SW846 3050B
Barium	2.6	0.58	mg/kg	1	02/27/02	02/28/02 ATX	SW846 6010B	SW846 3050B
Cadmium	<0.58	0.58	mg/kg	1	02/27/02	02/28/02 ATX	SW846 6010B	SW846 3050B
Chromium	3.7	1.7	mg/kg	1	02/27/02	02/28/02 ATX	SW846 6010B	SW846 3050B
Lead	2.3	0.58	mg/kg	1	02/27/02	02/28/02 ATX	SW846 6010B	SW846 3050B
Mercury	<0.076	0.076	mg/kg	1	02/27/02	02/28/02 ATX	SW846 7471A	SW846 7471A
Selenium	<0.58	0.58	mg/kg	1	02/27/02	02/28/02 ATX	SW846 6010B	SW846 3050B
Silver	<1.2	1.2	mg/kg	1	02/27/02	02/28/02 ATX	SW846 6010B	SW846 3050B

 RL = Reporting Limit

000032

Report of Analysis

Client Sample ID: TOP Lab Sample ID: F12439-2A Matrix: SO - Soil Method: SW846 8151 SW846 3550B Project: NTC-Orlando (CH2M Hill)	Date Sampled: 02/25/02 Date Received: 02/26/02 Percent Solids: 92.8
---	--

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	GG03510.D	10	03/04/02	ATX	02/28/02	T:OP801	T:GGG129
Run #2							

Herbicide List

CAS No.	Compound	Result	RL	Units	Q
94-75-7	2,4-D	ND	360	ug/kg	
93-72-1	2,4,5-TP (Silvex)	ND	72	ug/kg	
93-76-5	2,4,5-T	ND	72	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	45%		10-150%

(a) Elevated reporting limits due to matrix interference, extract was viscous.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

000033

Report of Analysis

Client Sample ID: TOP	
Lab Sample ID: F12439-2A	Date Sampled: 02/25/02
Matrix: SO - Soil	Date Received: 02/26/02
	Percent Solids: 92.8
Project: NTC-Orlando (CHI2M Hill)	

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	<1.1	1.1	mg/kg	1	02/27/02	02/28/02 ATX	SW846 6010B	SW846 3050B
Barium	5.7	0.54	mg/kg	1	02/27/02	02/28/02 ATX	SW846 6010B	SW846 3050B
Cadmium	<0.54	0.54	mg/kg	1	02/27/02	02/28/02 ATX	SW846 6010B	SW846 3050B
Chromium	2.2	1.6	mg/kg	1	02/27/02	02/28/02 ATX	SW846 6010B	SW846 3050B
Lead	3.4	0.54	mg/kg	1	02/27/02	02/28/02 ATX	SW846 6010B	SW846 3050B
Mercury	<0.071	0.071	mg/kg	1	02/27/02	02/28/02 ATX	SW846 7471A	SW846 7471A
Selenium	<0.54	0.54	mg/kg	1	02/27/02	02/28/02 ATX	SW846 6010B	SW846 3050B
Silver	<1.1	1.1	mg/kg	1	02/27/02	02/28/02 ATX	SW846 6010B	SW846 3050B

 RL = Reporting Limit

000034

