

N60200.AR.004695  
NAS CECIL FIELD, FL  
5090.3a

LETTER OF TRANSMITTAL AND SITE REHABILITATION COMPLETION ORDER FOR OIL-  
WATER SEPARATOR 312-OW NAS CECIL FIELD FL  
1/4/2007  
FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION



Jeb Bush  
Governor

# Department of Environmental Protection

Twin Towers Building  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

Colleen M. Castille  
Secretary

January 4, 2007

BRAC PMO SE  
Attn: Mr. Mark Davidson  
4130 Faber Place Drive  
Suite 202  
North Charleston, SC 29405

RE: Site Rehabilitation Completion Letter Report, Oil-Water  
Separator 312-OWS, Naval Air Station Cecil Field,  
Jacksonville, Florida

Dear Mr. Magwood:

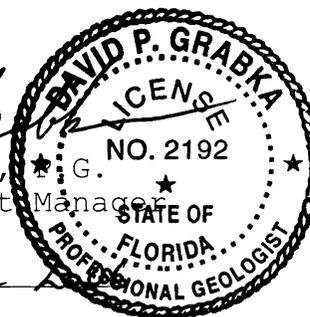
I have completed my review of the Site Rehabilitation  
Completion Letter Report, Oil-Water Separator 312-OWS, Naval Air  
Station Cecil Field, dated December 20, 2006 (received December  
27, 2006), prepared and submitted by Tetra Tech NUS, Inc. Based  
upon my review, the enclosed Site Rehabilitation Completion Order  
(SRCO) was signed by Mr. Doug Jones, Chief, Bureau of Waste  
Cleanup. The No Further Action Proposal was incorporated by  
reference in the SRCO.

If I can be of any further assistance with this matter,  
please contact me at (850) 245-8997.

Sincerely,

David P. Grabka, P.G.  
Remedial Project Manager

28 December  
Date



cc: Mark Davidson, SouthDiv, Charleston  
John Flowe, City of Jacksonville  
Mike Fitzsimmons, FDEP, Northeast District  
Doyle Brittain, USEPA Region 4  
Mark Peterson, Tetra Tech NUS, Jacksonville

JJC

for  
ESN

"Protect, Conserve and Manage Florida's Environment and Natural Resources"

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Jeb Bush  
Governor

# Department of Environmental Protection

Twin Towers Building  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

Colleen M. Castille  
Secretary

January 4, 2007

**CERTIFIED MAIL**  
**RETURN RECEIPT REQUESTED**

BRAC Program Management Office Southeast  
Attention: Mr. Mark Davidson  
4130 Faber Place Drive  
Suite 202  
North Charleston, South Carolina 29405

Subject: Site Rehabilitation Completion Order  
Oil Water Separator 312-OWS  
Naval Air Station Cecil Field  
Jacksonville, Duval County

Dear Mr. Davidson:

The Bureau of Waste Cleanup has reviewed the Site Rehabilitation Completion Letter Report (SRCR) and No Further Action Proposal (NFAP) dated December 20, 2006 (received December 27, 2006), submitted for the petroleum product discharge[s] discovered at this facility. Documentation submitted with the SRCR/NFAP confirms that criteria set forth in subsection 62-770.680(1), Florida Administrative Code (F.A.C.), have been met. Please refer to the enclosed map of the source property and analytical summary tables. The SRCR/NFAP is hereby incorporated by reference in this Site Rehabilitation Completion Order (Order). Therefore, you are released from any further obligation to conduct site rehabilitation at the site for petroleum product contamination, except as set forth below.

- (1) In the event concentrations of petroleum products' contaminants of concern increase above the levels approved in this Order, or if a subsequent discharge of petroleum or petroleum product occurs at the facility, the Florida Department of Environmental Protection (Department) may require site rehabilitation to reduce concentrations of petroleum products' contaminants of concern to the levels approved in the SRCR/NFAP or otherwise allowed by Chapter 62-770, F.A.C.
- (2) Additionally, you are required to properly abandon all monitoring wells within 60 days of receipt of this Order. The monitoring wells must be plugged and abandoned in accordance with the requirements of subsection 62-532.500(4), F.A.C.

*"More Protection, Less Process"*

*Printed on recycled paper.*

### Legal Issues

The Department's Order shall become final unless a timely petition for an administrative hearing is filed under sections 120.569 and 120.57, Florida Statutes (F.S.), within 21 days of receipt of this Order. The procedures for petitioning for an administrative hearing are set forth below.

Persons affected by this Order have the following options:

- (A) If you choose to accept the Department's decision regarding the SRCR/NFAP you do not have to do anything. This Order is final and effective as of the date on the top of the first page of this Order.
- (B) If you choose to challenge the decision, you may do the following:
  - (1) File a request for an extension of time to file a petition for an administrative hearing with the Department's Agency Clerk in the Office of General Counsel within 21 days of receipt of this Order; such a request should be made if you wish to meet with the Department in an attempt to informally resolve any disputes without first filing a petition for an administrative hearing; or
  - (2) File a petition for an administrative hearing with the Department's Agency Clerk in the Office of General Counsel within 21 days of receipt of this Order.

Please be advised that mediation of this decision pursuant to section 120.573, F.S., is not available.

### How to Request an Extension of Time to File a Petition for an Administrative Hearing

For good cause shown, pursuant to subsection 62-110.106(4), F.A.C., the Department may grant a request for an extension of time to file a petition for an administrative hearing. Such a request must be filed (received) by the Department's Agency Clerk in the Office of General Counsel at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida, 32399-3000, within 21 days of receipt of this Order. Petitioner, if different from the BRAC Program Management Office Southeast, shall mail a copy of the request to the BRAC Program Management Office Southeast at the time of filing. Timely filing a request for an extension of time tolls the time period within which a petition for an administrative hearing must be made.

### How to File a Petition for an Administrative Hearing

A person whose substantial interests are affected by this Order may petition for an administrative hearing under sections 120.569 and 120.57, F.S. The petition must contain the information set forth below and must be filed (received) by the Department's Agency Clerk in the Office of General Counsel at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida, 32399-3000, within 21 days of receipt of this Order. Petitioner, if different from the BRAC Program Management Office Southeast, shall mail a copy of the petition to the BRAC Program Management Office Southeast at the time of filing. Failure to file a petition within this time period shall waive the right of anyone who may request an administrative hearing under sections 120.569 and 120.57, F.S.

Pursuant to subsection 120.569(2), F.S. and rule 28-106.201, F.A.C., a petition for an administrative hearing shall contain the following information:

- (a) The name, address, and telephone number of each petitioner; the name, address, and telephone number of the petitioner's representative, if any; the facility owner's name and address, if different from the petitioner; the FDEP facility number, and the name and address of the facility;
- (b) A statement of when and how each petitioner received notice of the Department's action or proposed action;
- (c) An explanation of how each petitioner's substantial interests are or will be affected by the Department's action or proposed action;
- (d) A statement of the disputed issues of material fact, or a statement that there are no disputed facts;
- (e) A statement of the ultimate facts alleged, including a statement of the specific facts the petitioner contends warrant reversal or modification of the Department's action or proposed action;
- (f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the Department's action or proposed action; and
- (g) A statement of the relief sought by the petitioner, stating precisely the action petitioner wishes the Department to take with respect to the Department's action or proposed action.

This Order is final and effective as of the date on the top of the first page of this Order. Timely filing a petition for an administrative hearing postpones the date this Order takes effect until the Department issues either a final order pursuant to an administrative hearing or an Order Responding to Supplemental Information provided to the Department pursuant to meetings with the Department.

Mr. Mark Davidson  
January 4, 2007  
Page Four

Judicial Review

Any party to this Order has the right to seek judicial review of it under section 120.68, F.S., by filing a notice of appeal under rule 9.110 of the Florida Rules of Appellate Procedure with the Department's Agency Clerk in the Office of General Counsel at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida, 32399-3000, and by filing a copy of the notice of appeal accompanied by the applicable filing fees with the appropriate district court of appeal. The notice of appeal must be filed within 30 days after this Order is filed with the Department's clerk (see below).

Questions

Any questions regarding the Department's review of your SRCR/NFAP should be directed to David Grabka at (850) 245-8997. Questions regarding legal issues should be referred to the Department's Office of General Counsel at (850) 245-2242. Contact with any of the above does not constitute a petition for an administrative hearing or a request for an extension of time to file a petition for an administrative hearing.

Sincerely,



Douglas A. Jones, Chief  
Bureau of Waste Cleanup  
Division of Waste Management

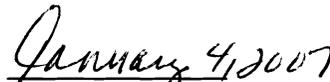
DAJ/dpg

Enclosures

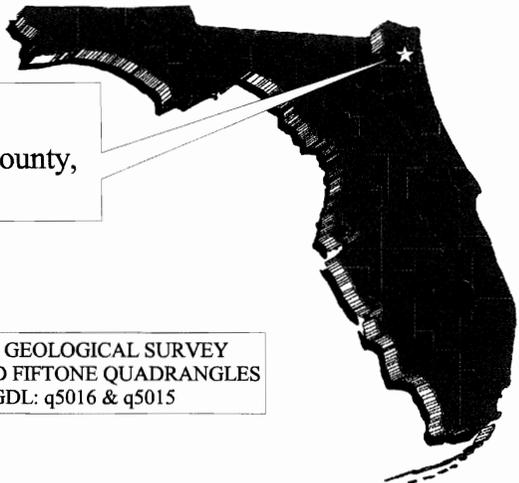
cc: David P. Grabka, FDEP – BWC  
File

FILING AND ACKNOWLEDGMENT  
FILED, on this date, pursuant to  
§120.52 Florida Statutes, with the  
designated Department Clerk, receipt  
of which is hereby acknowledged.

  
\_\_\_\_\_  
Clerk  
(or Deputy Clerk)

  
\_\_\_\_\_  
Date

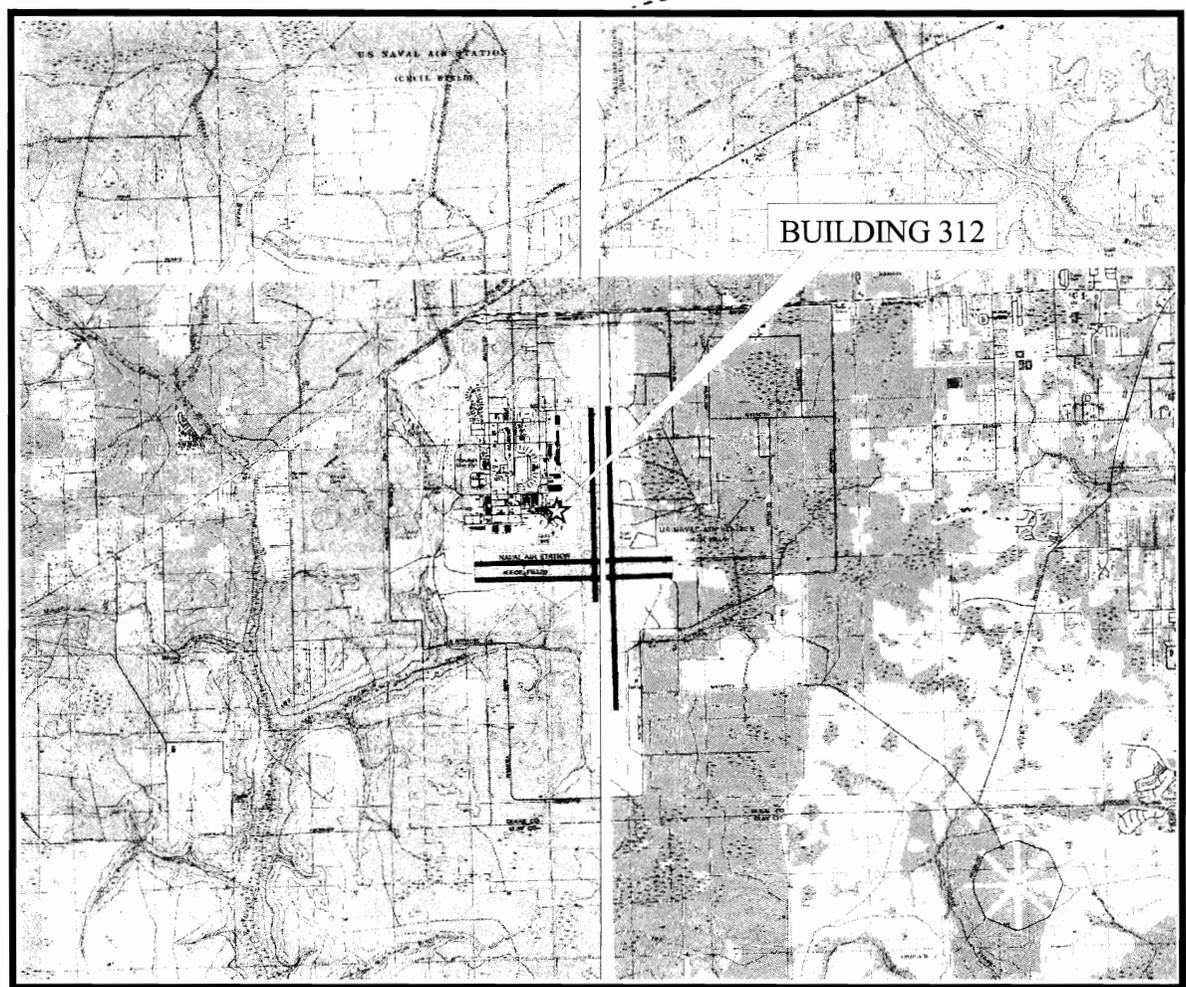
Site Location:  
Jacksonville, Duval County,  
Florida



SOURCE: UNITED STATES GEOLOGICAL SURVEY  
JACKSONVILLE HEIGHTS AND FIFTEEN QUADRANGLES  
(S 15, T 03S, R 24E) FGDL: q5016 & q5015



0 5000 10000 Feet



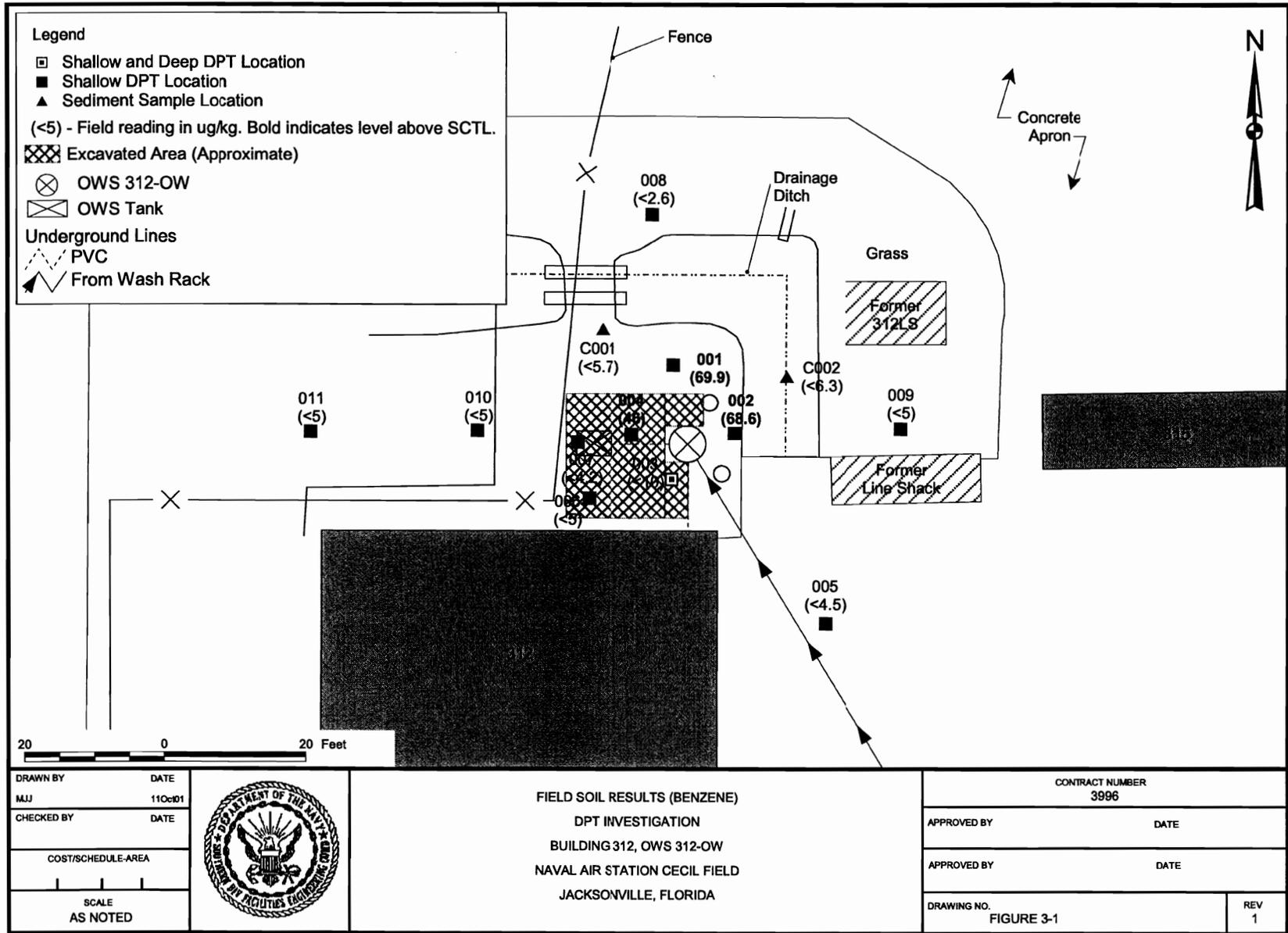
|                     |                                 |                    |                                     |                   |                     |  |
|---------------------|---------------------------------|--------------------|-------------------------------------|-------------------|---------------------|--|
| DRAWING STATUS      | DRAFT                           | FINAL              | <input checked="" type="checkbox"/> |                   |                     |  |
| PROJECT NO.: 303607 | PROJECT MANAGER: BRENT ANDERSON |                    |                                     |                   |                     |  |
| SCALE: AS SHOWN     | CADD ID: 303607C001SVM          | PLOT DATE: 10/7/03 | CHK BY: D.F.                        | CHK DATE: 10/7/03 |                     |  |
| REVISION NO.:       | REVISION DATE:                  | DRN BY: J.R.L.     | DRN DATE: 10/7/03                   | APPVD BY: B.A.    | APPVD DATE: 10/7/03 |  |

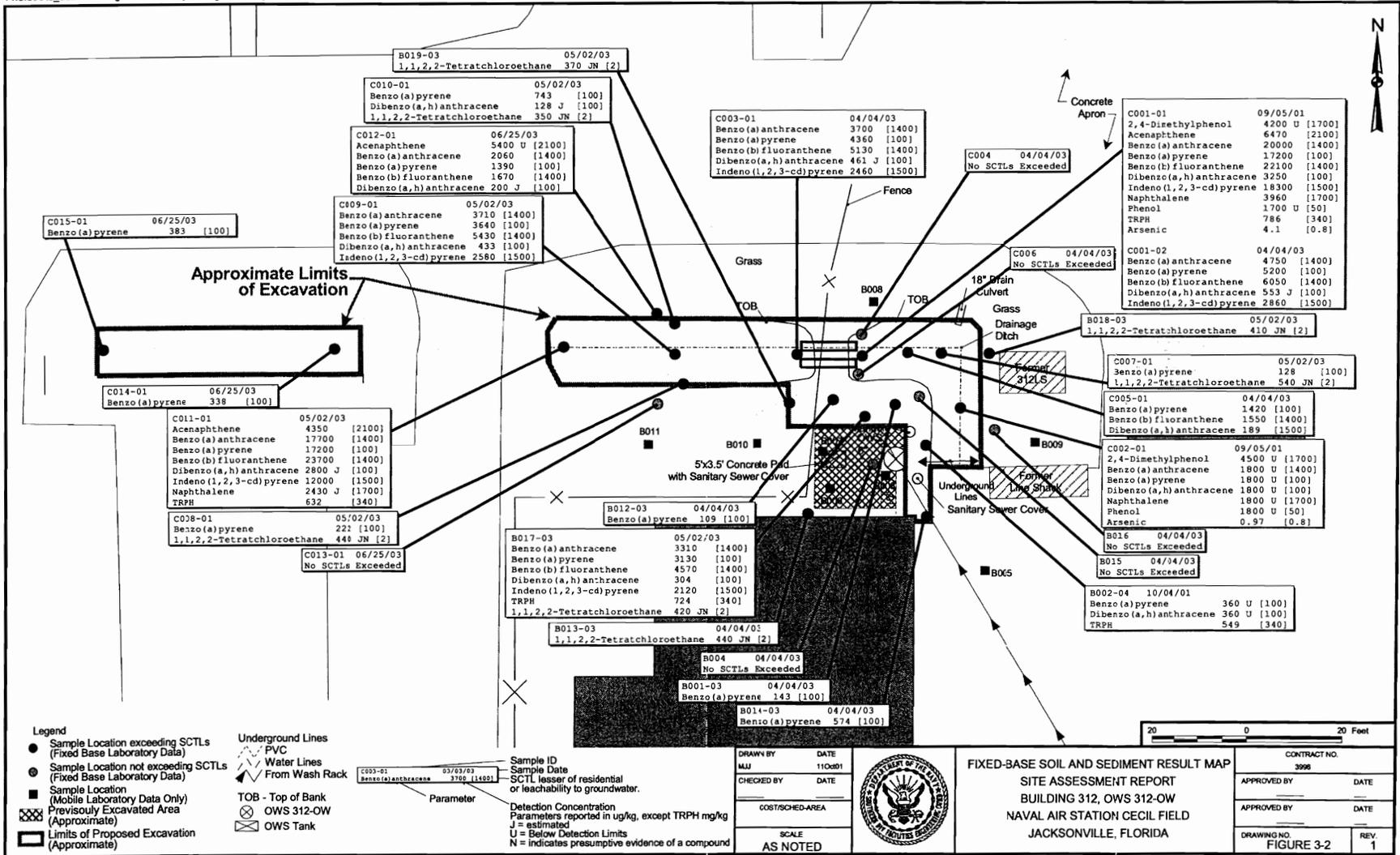


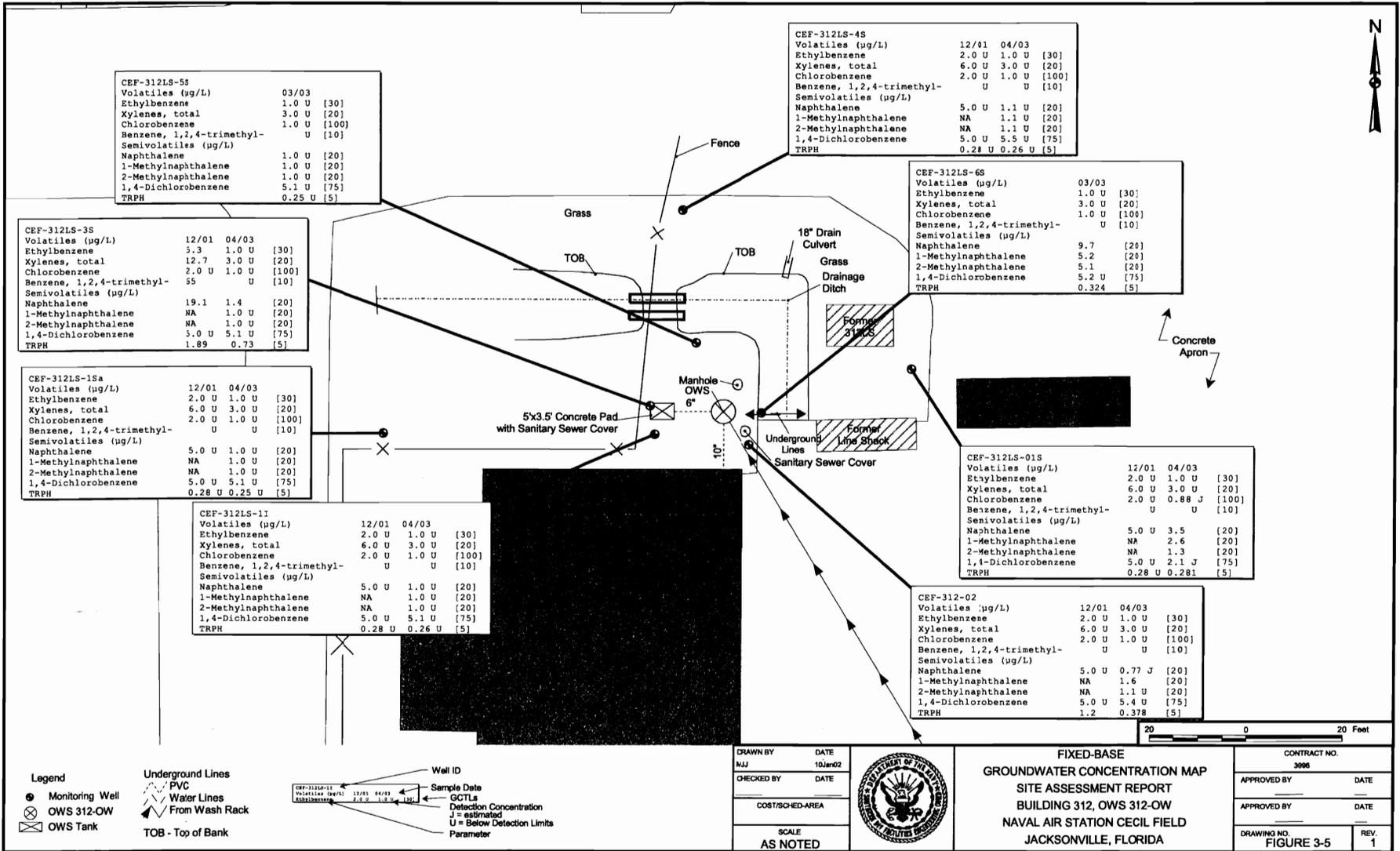
**WRS Infrastructure &  
Environment, Inc.**

625 EAST TENNESSEE STREET, SUITE 100, TALLAHASSEE, FLORIDA 32308  
PH: (850) 531-9860 FAX: (850) 531-9866

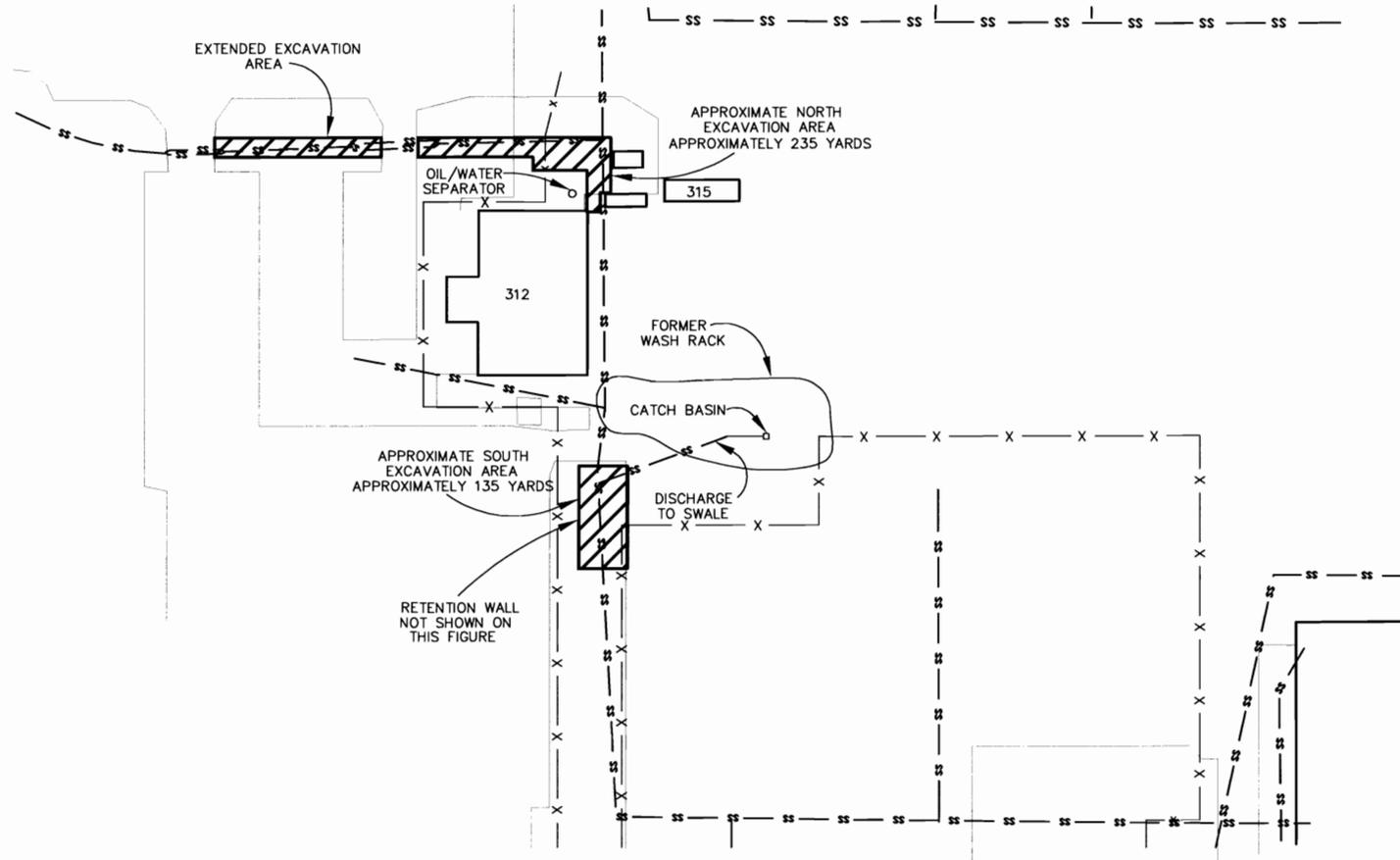
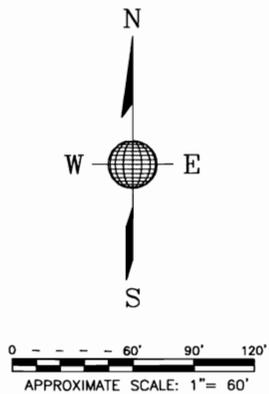
FIGURE 1  
SITE VICINITY MAP  
SOURCE REMOVAL REPORT  
NAS CECIL FIELD, BUILDING 312 OWS AREAS  
JACKSONVILLE, DUVAL COUNTY, FLORIDA  
EMAC, REGION 4, FLORIDA ONLY  
CONTRACT NUMBER N62467-02-D-0480







|  |  |   |  |
|--|--|---|--|
| DRAWN BY<br>NJJ<br>CHECKED BY<br>DATE<br>10Jun02<br>DATE<br>COST/SCHED-AREA<br>SCALE<br>AS NOTED |  | <b>FIXED-BASE</b><br><b>GROUNDWATER CONCENTRATION MAP</b><br><b>SITE ASSESSMENT REPORT</b><br><b>BUILDING 312, OWS 312-OW</b><br><b>NAVAL AIR STATION CECIL FIELD</b><br><b>JACKSONVILLE, FLORIDA</b> | CONTRACT NO.<br>3095<br>APPROVED BY<br>DATE<br>APPROVED BY<br>DATE<br>DRAWING NO.<br>FIGURE 3-5<br>REV.<br>1 |
|--|--|---|--|



| LEGEND: |                                 |
|---------|---------------------------------|
| — X —   | FENCELINE                       |
| — SS —  | STORM SEWER                     |
|         | APPROXIMATE EXCAVATION BOUNDARY |

| DRAWING STATUS   | DRAFT          | FINAL       | <input checked="" type="checkbox"/> |
|------------------|----------------|-------------|-------------------------------------|
| PROJECT NO. :    | 303607         |             |                                     |
| PROJECT MANAGER: | BRENT ANDERSON |             |                                     |
| SCALE:           | AS SHOWN       |             |                                     |
| REVISION NO.:    | 0              | REV DATE:   |                                     |
| CADD ID:         | 303607C001     | PLOT DATE:  | 10/7/03                             |
| DRN BY:          | J.R.L.         | DRN DATE:   | 10/7/03                             |
| CHK BY:          | C.N.           | CHK DATE:   | 10/7/03                             |
| APPVD BY:        | B.A.           | APPVD DATE: | 10/7/03                             |



**WRS Infrastructure & Environment, Inc.**  
 221 HOBBS STREET, SUITE 108, TAMPA, FLORIDA 33619  
 PH: (813) 684-4400 FAX: (813) 684-9177

**FIGURE 2**  
**SITE MAP**  
 SOURCE REMOVAL REPORT  
 NAS CECIL FIELD, BUILDING 312 OWS AREAS  
 JACKSONVILLE, DUVAL COUNTY, FLORIDA  
 EMAC, REGION 4, FLORIDA ONLY  
 CONTRACT NUMBER N62467-02-D-0480

**TABLE 3-2  
SUMMARY OF FIXED-BASE ANALYTICAL DATA IN SOIL**

BUILDING 312, OWS 312-O2  
NAS CECIL FIELD  
JACKSONVILLE, FLORIDA  
PAGE 1 OF 2

| Direct Exposure Residential Criteria                             | Leachability to Groundwater Criteria | Sample                                     |         | CEF-312-SB- |          |          |          |          |          |          |          |          |          |          |
|--|--------------------------------------|--|---------|-------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|  |                                      | Sample ID                                  | B002-04 | B001-03     | B004-02  | B012-03  | B013-03  | B014-03  | B015-03  | B016-03  | B017-03  | B018-03  | B019-03  |          |
|  |                                      | Sample Date                                | 10/4/01 | 4/4/2003    | 4/4/2003 | 4/4/2003 | 4/4/2003 | 4/4/2003 | 4/4/2003 | 4/4/2003 | 4/4/2003 | 5/2/2003 | 5/2/2003 | 5/2/2003 |
|  |                                      | Depth (ft)                                 | 4       | 3           | 2        | 3        | 3        | 3        | 3        | 3        | 3        | 3        | 3        | 3        |
| <b>Priority Pollutant Volatile Organic Compounds (µg/kg)</b>     |                                      | ND   | ND      | ND          | ND       | ND       | ND       | ND       | ND       | ND       | ND       | ND       | ND       |          |
| <b>Priority Pollutant Extractable Organic Compounds (µg/kg)</b>  |                                      |  |         |             |          |          |          |          |          |          |          |          |          |          |
| 1900000  | 2100                                 | ACENAPHTHENE                               | 360 U   | 72 U        | 73 U     | 84 U     | 84 U     | 190 U    | 75 U     | 72 U     | 1040     | 76 U     | 65 U     |          |
| 18000000   | 2500000                              | ANTHRACENE                                 | 360 U   | 36 U        | 36 U     | 42 U     | 42 U     | 93 U     | 37 U     | 36 U     | 1730     | 38 U     | 33 U     |          |
| 1400   | 3200                                 | BENZO(A)ANTHRACENE                         | 360 U   | 34 J        | 15 U     | 71.4     | 17 U     | 349      | 47.4 J   | 16.7 J   | 3310     | 15 U     | 13 U     |          |
| 100  | 8000                                 | BENZO(A)PYRENE                             | 360 U   | 143         | 15 U     | 109      | 17 U     | 574      | 75.8     | 42.5 J   | 3130     | 15 U     | 13 U     |          |
| 1400   | 10000                                | BENZO(B)FLUORANTHENE                       | 360 U   | 132         | 17.2 J   | 136      | 17 U     | 708      | 92.7     | 51.4 J   | 4570     | 15 U     | 13 U     |          |
| 2300000  | 32000000                             | BENZO(G,H,I)PERYLENE                       | 360 U   | 300         | 15 U     | 82.8     | 17 U     | 733      | 77.8     | 44.7 J   | 1730     | 15 U     | 13 U     |          |
| 15000  | 25000                                | BENZO(K)FLUORANTHENE                       | 360 U   | 32 J        | 15 U     | 40.8 J   | 17 U     | 215      | 27.9 J   | 14.4 J   | 1370     | 15 U     | 13 U     |          |
| 76000  | 3600000                              | BIS(2-ETHYLHEXYL)PHTHALATE                 | 360 U   | 180 U       | 180 U    | 210 U    | 210 U    | 322 J    | 190 U    | 180 U    | 190 U    | 180 U    | 170 U    |          |
| 15000000   | 310000                               | BUTYL BENZYL PHTHALATE                     | 235 J   | 90 U        | 91 U     | 102 J    | 110 U    | 2420     | 94 U     | 90 U     | 127 J    | 90 U     | 86 U     |          |
| 140000   | 77000                                | CHRYSENE                                   | 360 U   | 38.6 J      | 15 U     | 81.1     | 17 U     | 391      | 52.7 J   | 18.7 J   | 3360     | 15 U     | 13 U     |          |
| 100  | 30000                                | DIBENZO(A,H)ANTHRACENE                     | 360 U   | 39.6 J      | 15 U     | 19.5 J   | 17 U     | 93.6 J   | 16.1 J   | 14 U     | 304      | 15 U     | 13 U     |          |
| 2900000  | 1200000                              | FLUORANTHENE                               | 360 U   | 42.6 J      | 36 U     | 139 J    | 42 U     | 612 J    | 78.9 J   | 36 U     | 7880     | 38 U     | 33 U     |          |
| 2200000  | 160000                               | FLUORENE                                   | 360 U   | 36 U        | 36 U     | 42 U     | 42 U     | 93 U     | 37 U     | 36 U     | 932      | 38 U     | 33 U     |          |
| 1500   | 28000                                | INDENO(1,2,3-CD)PYRENE                     | 360 U   | 207         | 15 U     | 81.4     | 17 U     | 559      | 62.2     | 33.7 J   | 2120     | 15 U     | 13 U     |          |
| 68000  | 2200                                 | 1-METHYLNAPHTHALENE                        | NA      | 36 U        | 36 U     | 42 U     | 42 U     | 93 U     | 37 U     | 36 U     | 147 J    | 38 U     | 33 U     |          |
| 80000  | 6100                                 | 2-METHYLNAPHTHALENE                        | NA      | 36 U        | 36 U     | 42 U     | 42 U     | 93 U     | 37 U     | 36 U     | 230 J    | 38 U     | 33 U     |          |
| 40000  | 1700                                 | NAPHTHALENE                                | 360 U   | 36 U        | 36 U     | 42 U     | 42 U     | 93 U     | 37 U     | 36 U     | 529 J    | 38 U     | 33 U     |          |
| 2000000  | 250000                               | PHENANTHRENE                               | 360 U   | 36 U        | 36 U     | 85 J     | 42 U     | 240 J    | 37 U     | 36 U     | 6510     | 38 U     | 33 U     |          |
| 2200000  | 880000                               | PYRENE                                     | 360 U   | 44.7 J      | 36 U     | 111 J    | 42 U     | 446 J    | 56.2 J   | 36 U     | 5970     | 38 U     | 33 U     |          |
| <b>TRPH (mg/kg)</b>  |                                      |  |         |             |          |          |          |          |          |          |          |          |          |          |
| 340  | 340                                  | TRPH                                       | 549     | 38.2        | 16.3     | 32.3     | 7.2 U    | 58.8     | 42.4     | 18.5     | 724      | 44.3     | 5.6 U    |          |
| <b>Tentatively Identified Compounds (Volatiles) (µg/kg)</b>      |                                      | ND   | ND      | ND          | ND       | ND       | ND       | ND       | ND       | ND       | ND       | ND       | ND       |          |
| <b>Tentatively Identified Compounds (Semi-volatiles) (µg/kg)</b> |                                      |  |         |             |          |          |          |          |          |          |          |          |          |          |
| NE   | NE                                   | 1-PENTADECENE                              |         |             |          |          |          | 530 JN   |          |          |          |          |          |          |
| 700  | 2                                    | 1,1,2,2-TETRACHLOROETHANE                  |         |             |          |          | 440 JN   |          |          |          | 420 JN   | 410 JN   | 370 JN   |          |
| NE   | NE                                   | 1-TETRADECENE                              | 480 JN  |             |          |          |          |          |          |          |          |          |          |          |
| NE   | NE                                   | 1-TRIDECENE                                | 520 JN  |             |          |          |          |          |          |          |          |          |          |          |
| NE   | NE                                   | 2-(DODECLOXY)-ETHANOL                      |         |             |          |          |          |          | 3100 JN  |          |          |          |          |          |
| NE   | NE                                   | 2-METHYL-3-PENTEN-1-OL                     | 1300 JN |             |          |          |          |          |          |          |          |          |          |          |
| NE   | NE                                   | 2-PHENYLNAPHTHALENE                        |         |             |          |          |          |          |          |          |          |          |          |          |
| NE   | NE                                   | 2-PROPENOIC ACID, 2-METHYL-, DECYL ESTER   |         |             |          |          |          |          |          |          |          | 2000 JN  |          |          |
| NE   | NE                                   | 2-PROPENOIC ACID, 2-METHYL-, DODECYL ESTER |         |             |          |          |          |          |          |          | 470 JN   | 2300 JN  |          |          |
| NE   | NE                                   | 3-METHYL-NONADECANE                        |         |             |          |          |          | 820 JN   |          |          |          |          |          |          |
| NE   | NE                                   | 3,8-DIMETHYL-DECANE                        |         | 430 JN      |          |          |          |          |          |          |          |          |          |          |
| NE   | NE                                   | 4H-CYCLOPENTA(DEF)PHENANTHRENE             |         |             |          |          |          |          |          |          |          |          |          |          |
| NE   | NE                                   | 9-METHYL-NONADECANE                        |         |             |          |          | 1900 JN  |          |          |          |          |          |          |          |

See notes at end of table.

**TABLE 3-2  
SUMMARY OF FIXED-BASE ANALYTICAL DATA IN SOIL**

BUILDING 312, OWS 312-O2  
NAS CECIL FIELD  
JACKSONVILLE, FLORIDA  
PAGE 2 OF 2

| Direct Exposure Residential Criteria                                       | Leachability to Groundwater Criteria | Sample                              |  | CEF-312-SB- |          |          |                      |          |          |          |          |          |          |
|--|--------------------------------------|-------------------------------------|--|-------------|----------|----------|----------------------|----------|----------|----------|----------|----------|----------|
|  |                                      | Sample ID                           | B002-04                                | B001-03     | B004-02  | B012-03  | B013-03              | B014-03  | B015-03  | B016-03  | B017-03  | B018-03  | B019-03  |
|  |                                      | Sample Date                         | 10/4/01                                | 4/4/2003    | 4/4/2003 | 4/4/2003 | 4/4/2003             | 4/4/2003 | 4/4/2003 | 4/4/2003 | 5/2/2003 | 5/2/2003 | 5/2/2003 |
| Criteria   | Criteria                             | Depth (ft)                          | 4                                      | 3           | 2        | 3        | 3                    | 3        | 3        | 3        | 3        | 3        |          |
| <b>Tentatively Identified Compounds continued (Semi-volatiles) (µg/kg)</b> |                                      |                                     |  |             |          |          |                      |          |          |          |          |          |          |
| 1400   | 10                                   |                                     |  |             |          |          |                      |          |          |          |          |          |          |
|  | NE                                   | BENZO(B)FLUORANTHENE                |  |             |          |          |                      |          |          |          |          |          |          |
|  | NE                                   | BENZO(J)FLUORANTHENE                |  |             |          |          |                      |          |          |          |          |          |          |
|  | NE                                   | CYCLODODECANE                       | 460 JN                                 |             |          |          |                      |          |          |          |          |          |          |
|  | NE                                   | CYCLOPENTANE, PROPYL-               |  |             |          |          |                      |          |          |          | 2500 JN  |          |          |
|  | NE                                   | CYCLOPROPANE, 1,1,2-TRIMETHYL-      | 1300 JN                                |             |          |          |                      |          |          |          |          |          |          |
|  | NE                                   | DOCOSANE                            | 570 JN                                 |             |          |          |                      |          |          |          |          |          |          |
|  | NE                                   | DOTRIACONTANE                       |  |             |          | 1400 JN  |                      |          |          |          |          |          |          |
|  | NE                                   | HENEICOSANE                         |  |             |          |          |                      |          | 630 JN   |          |          |          |          |
|  | NE                                   | HEPTADECANE                         |  |             |          |          |                      | 390 JN   |          |          | 470 JN   |          |          |
|  | NE                                   | HEPTADECANE, 2,6,10,15-TETRAMETHYL- | 930 JN                                 |             |          |          |                      |          |          |          |          |          |          |
|  | NE                                   | HEXADECANE                          |  | 1200 JN     |          |          |                      |          |          |          | 1500     |          |          |
|  | NE                                   | HEXATRIACONTANE                     |  | 370 JN      |          | 710 JN   |                      |          | 4000 JN  |          |          |          |          |
|  | NE                                   | EICOSANE                            |  |             |          |          |                      |          | 1700 JN  |          |          |          |          |
|  | NE                                   | NONADECANE                          |  |             |          |          |                      |          | 1200 JN  |          |          |          |          |
|  | NE                                   | OCTADECANE, 1-CHLORO-               | 3000 JN                                |             |          |          |                      |          |          |          |          |          |          |
|  | NE                                   | PENTATRIACONTANE                    | 1700 JN                                |             |          |          |                      |          |          |          |          |          |          |
|  | NE                                   | PERYLENE                            |  |             |          |          |                      | 540 JN   |          |          |          |          |          |
|  | NE                                   | STEARYL CHLORIDE                    |  |             |          |          |                      |          |          |          |          |          |          |
|  | NE                                   | TETRATETRACONTANE                   | 9200 JN                                | 1700 JN     |          |          |                      |          |          |          | 1900     |          |          |
|  | NE                                   | TRICOSANE                           | 3100 JN                                |             |          |          |                      |          |          |          |          |          |          |
|  | NE                                   | TRITETRACOSANE                      | 12000 JN                               |             |          |          |                      |          |          |          |          |          |          |
|  | NE                                   | UNKNOWN HYDROCARBON                 | 760 J                                  |             |          |          |                      |          |          |          |          |          |          |
|  | NE                                   | UNKNOWN                             | 4600 J                                 |             |          |          | 1200 J               |          | 3130 J   |          |          |          |          |
| <b>Metals (mg/kg)</b>  |                                      |                                     |  |             |          |          |                      |          |          |          |          |          |          |
| 0.8  | 29                                   | ARSENIC                             | 0.42                                   | 0.30 U      | 0.31 U   | 0.37     | 0.34 U               | 0.31 U   | 0.37     | 0.29 U   | 0.51 B   | 0.29 U   | 0.30 U   |
| 75   | 8                                    | CADMIUM                             | 0.36                                   | 0.49 J      | 0.03 U   | 0.03 U   | 0.03 U               | 6.1      | 0.53     | 0.12     | 0.27 B   | 0.027 U  | 0.027 U  |
| 1470   | 266                                  | CHROMIUM                            | 7.5                                    | 8.5         | 4.0      | 4.9      | 1.6                  | 36.3     | 7.8      | 5.0      | 8.8      | 2.9      | 0.74 B   |
| 400  | NA                                   | LEAD                                | 11.7                                   | 18.3 J      | 5.7      | 5.8      | 1.3                  | 87.7     | 14.2     | 11.1     | 33.7     | 5.6 B    | 1.1 B    |
| <b>Notes:</b>  |                                      |                                     |  |             |          |          |                      |          |          |          |          |          |          |
| Direct Exposure Residential Criteria based on Chapter 62-777, FAC.         |                                      |                                     | U = not detected                       |             |          |          | ND = none detected   |          |          |          |          |          |          |
| Leachability to Groundwater Criteria based on Chapter 62-777, FAC.         |                                      |                                     | J = estimated                          |             |          |          | NA = not analyzed    |          |          |          |          |          |          |
| µg/kg = micrograms per kilogram  |                                      |                                     | N = presumptive evidence of a compound |             |          |          | NE = not established |          |          |          |          |          |          |
| mg/kg = milligrams per kilogram  |                                      |                                     |  |             |          |          |                      |          |          |          |          |          |          |
| <b>Bold</b> indicates concentrations exceeding SCTLs.                      |                                      |                                     |  |             |          |          |                      |          |          |          |          |          |          |

**TABLE 3-3  
SUMMARY OF FIXED-BASE ANALYTICAL DATA IN SEDIMENT**

BUILDING 312, OWS 312-OW  
NAS CECIL FIELD  
JACKSONVILLE, FLORIDA  
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| Direct Exposure Residential Criteria                             | Leachability to Groundwater Criteria | Sample                              | CEF-312-SD- |          |          |          |          |          |          |            |          |          |          |          |          |          |           |           |           |
|--|--------------------------------------|-------------------------------------|-------------|----------|----------|----------|----------|----------|----------|------------|----------|----------|----------|----------|----------|----------|-----------|-----------|-----------|
|  |                                      |                                     | Sample ID   | C001-01  | C001-02  | C002-01  | C003-01  | C004-01  | C005-01  | SD-C006-01 | C007-01  | C008-01  | C009-01  | C010-01  | C011-01  | C012-01  | C013-01   | C014-01   | C015-01   |
|  |                                      |                                     | Sample Date | 9/5/2001 | 4/4/2003 | 9/5/2001 | 4/4/2003 | 4/4/2003 | 4/4/2003 | 4/4/2003   | 4/4/2003 | 5/2/2003 | 5/2/2003 | 5/2/2003 | 5/2/2003 | 5/2/2003 | 6/25/2003 | 6/25/2003 | 6/25/2003 |
|  |                                      | Depth (ft)                          | 1           | 2        | 1        | 1        | 1        | 1        | 1        | 1          | 1        | 1        | 1        | 1        | 1        | 1        | 1         | 1         |           |
| <b>Priority Pollutant Volatile Organic Compounds (µg/kg)</b>     |                                      |                                     | ND          | ND       | ND       | ND       | ND       | ND       | ND       | ND         | ND       | ND       | ND       | NA       | NA       | NA       | NA        |           |           |
| <b>Priority Pollutant Extractable Organic Compounds (µg/kg)</b>  |                                      |                                     |             |          |          |          |          |          |          |            |          |          |          |          |          |          |           |           |           |
| 910000   | 1700                                 | 2,4-DIMETHYLPHENOL                  | 4200 U      | 42 U     | 4500 U   | 38 U     | 42 U     | 43 U     | 36 U     | 48 U       | 36 U     | 150 U    | 34 U     | 213 J    | NA       | NA       | NA        | NA        |           |
| 1900000  | 2100                                 | ACENAPHTHENE                        | 6470        | 1310 J   | 1800 U   | 1040 J   | 84 U     | 270 J    | 72 U     | 98 U       | 75 U     | 1060     | 170 U    | 4350     | 5400 U   | 180 U    | 700 U     | 170 U     |           |
| 18000000   | 2500000                              | ANTHRACENE                          | 10800       | 2150 J   | 1800 U   | 1690 J   | 42 U     | 459 J    | 36 U     | 49 U       | 55.2 J   | 1740     | 261 J    | 6850     | 989 J    | 180 U    | 180 U     | 170 U     |           |
| 1400   | 3200                                 | BENZO(A)ANTHRACENE                  | 20000       | 4570     | 1800 U   | 3700     | 50.8 J   | 1200     | 45.8 J   | 110        | 173      | 3710     | 716      | 17700    | 2060     | 90 U     | 375       | 410       |           |
| 100  | 8000                                 | BENZO(A)PYRENE                      | 17200       | 5200     | 1800 U   | 4360     | 82.8     | 1420     | 88.1     | 128        | 222      | 3640     | 743      | 17200    | 1390     | 18 U     | 338       | 383       |           |
| 1400   | 10000                                | BENZO(B)FLUORANTHENE                | 22100       | 6050     | 828 J    | 5130     | 108      | 1550     | 108      | 214        | 340      | 5430     | 1090     | 23700    | 1670     | 72 U     | 480       | 574       |           |
| 2300000  | 32000000                             | BENZO(G,H,I)PERYLENE                | 16800       | 2490     | 967 J    | 2100     | 73.3     | 937      | 84.7     | 120        | 236      | 2410     | 603      | 12200    | 968      | 72 U     | 340       | 373       |           |
| 15000  | 25000                                | BENZO(K)FLUORANTHENE                | 7080        | 1800     | 1800 U   | 1550     | 31.9 J   | 583      | 31.2 J   | 53.4 J     | 112      | 1610     | 360      | 8100     | 712      | 18 U     | 242       | 316       |           |
| 76000  | 3600000                              | BIS(2-ETHYLHEXYL)PHTHALATE          | 1700 U      | 804      | 1800 U   | 384      | 210 U    | 371 J    | 180 U    | 240 U      | 417      | 730 U    | 629      | 730 U    | NA       | NA       | NA        | NA        |           |
| 15000000   | 310000                               | BUTYL BENZYL PHTHALATE              | 1700 U      | 122 J    | 1800 U   | 186 J    | 150 J    | 113 J    | 122 J    | 120 U      | 476      | 370 U    | 573      | 360 U    | NA       | NA       | NA        | NA        |           |
| 1400000  | 77000                                | CHRYSENE                            | 17800       | 4110     | 1800 U   | 3480     | 57.4 J   | 1120     | 51.2 J   | 131        | 200      | 3860     | 712      | 16800    | 1730     | 90 U     | 348 J     | 460       |           |
| 100  | 30000                                | DIBENZO(A,H)ANTHRACENE              | 3250        | 553 J    | 1800 U   | 461 J    | 17 U     | 189      | 18.8 J   | 41.8 J     | 36.2 J   | 433      | 128 J    | 2800 J   | 200 J    | 18 U     | 67.0 J    | 86.2      |           |
| 2900000  | 1200000                              | FLUORANTHENE                        | 47500       | 10200    | 1800 U   | 7960     | 88.5 J   | 2360     | 59.4 J   | 242 J      | 328      | 8250     | 1510     | 30400    | 5170     | 90 U     | 925       | 807       |           |
| 22000000   | 160000                               | FLUORENE                            | 5830        | 1140 J   | 1800 U   | 882 J    | 42 U     | 214 J    | 36 U     | 49 U       | 37 U     | 889      | 119 J    | 3800     | 680 U    | 180 U    | 180 U     | 170 U     |           |
| 1500   | 28000                                | INDENO(1,2,3-CD)PYRENE              | 18300       | 2860     | 719      | 2460     | 65.7 J   | 1070     | 76.8     | 121        | 193      | 2580     | 589      | 12000    | 1290     | 18 U     | 317       | 361       |           |
| 68000  | 2200                                 | 1-METHYLNAPHTHALENE                 | NA          | 420 U    | NA       | 380 U    | 42 U     | 110 U    | 36 U     | 49 U       | 37 U     | 136 J    | 87 U     | 628 J    | 2800 U   | 90 U     | 350 U     | 350 U     |           |
| 80000  | 6100                                 | 2-METHYLNAPHTHALENE                 | NA          | 420 U    | NA       | 380 U    | 42 U     | 110 U    | 36 U     | 49 U       | 37 U     | 184 J    | 87 U     | 973 J    | 2800 U   | 90 U     | 350 U     | 350 U     |           |
| 40000  | 1700                                 | NAPHTHALENE                         | 3960        | 629 J    | 1800 U   | 469 J    | 42 U     | 110 U    | 36 U     | 49 U       | 37 U     | 382 J    | 87 U     | 2430 J   | 1400 U   | 90 U     | 88 U      | 87 U      |           |
| 2000000  | 250000                               | PHENANTHRENE                        | 38900       | 8050     | 1800 U   | 6110     | 49.8 J   | 1760     | 36 U     | 158 J      | 178 J    | 6780     | 1090     | 25900    | 3690     | 180 U    | 430       | 170 U     |           |
| 900000   | 50                                   | PHENOL                              | 1700 U      | 42 U     | 1800 U   | 38 U     | 42 U     | 43 U     | 36 U     | 48 U       | 36 U     | 150 U    | 34 U     | 283 J    | NA       | NA       | NA        | NA        |           |
| 2200000  | 880000                               | PYRENE                              | 30900       | 7360     | 1800 U   | 5680     | 75.7 J   | 2060     | 76.8 J   | 199 J      | 310      | 7250     | 1220     | 25000    | 3390     | 90 U     | 678       | 87 U      |           |
| <b>TRPH (mg/kg)</b>  |                                      |                                     |             |          |          |          |          |          |          |            |          |          |          |          |          |          |           |           |           |
| 340  | 340                                  | TRPH                                | 786         | 24.4     | 152      | 56.3     | 33.4     | 153      | 133      | 117        | 70.9     | 297      | 83.3     | 632      | NA       | NA       | NA        | NA        |           |
| <b>Tentatively Identified Compounds (Volatiles) (µg/kg)</b>      |                                      |                                     | ND          | ND       | ND       | ND       | ND       | ND       | ND       | ND         | ND       | ND       | ND       | NA       | NA       | NA       | NA        |           |           |
| <b>Tentatively Identified Compounds (Semi-volatiles) (µg/kg)</b> |                                      |                                     |             |          |          |          |          |          |          |            |          |          |          |          |          |          |           |           |           |
| NE   | NE                                   | 1-CHLORO-OCTADECANE                 |             |          |          |          |          |          | 1600 JN  |            |          |          |          |          |          |          |           |           |           |
| NE   | NE                                   | 1-METHYL-PHENANTHRENE               | 2500 JN     |          |          |          |          |          |          |            |          |          |          |          |          |          |           |           |           |
| NE   | NE                                   | 1-PHENYL-CYCLOHEXANECARBOXYLIC ACID |             |          |          |          |          | 920 JN   |          |            |          |          |          |          |          |          |           |           |           |
| NE   | NE                                   | 2-METHYL-ANTHRACENE                 |             |          |          | 520 JN   |          |          |          |            |          | 1500 JN  |          | 5500 JN  |          |          |           |           |           |
| NE   | NE                                   | 2-METHYL-NONADECANE                 |             |          |          |          |          |          | 830 JN   |            |          |          |          |          |          |          |           |           |           |
| NE   | NE                                   | 2-METHYL-UNDECANE                   |             |          |          |          |          | 610 JN   |          |            |          |          |          |          |          |          |           |           |           |
| NE   | NE                                   | 3-METHYL-PHENANTHRENE               |             |          |          |          |          |          |          |            |          |          |          | 2300 JN  |          |          |           |           |           |
| NE   | NE                                   | 4-METHYL-PHENANTHRENE               | 3600 JN     |          |          |          |          |          |          |            |          |          |          |          |          |          |           |           |           |
| 700  | 2                                    | 1,1,2,2-TETRACHLOROETHANE           |             |          |          |          |          |          | 540 JN   | 440 JN     |          | 350 JN   |          |          |          |          |           |           |           |
| NE   | NE                                   | 1,2,7,8-DIBENZPHENANTHRENE          | 2200 JN     | 790 J    |          | 780 J    |          |          |          |            |          |          |          |          |          |          |           |           |           |
| NE   | NE                                   | 1,12-BENZPERYLENE                   | 4900 JN     | 1100 JN  |          |          |          |          |          |            |          |          |          |          |          |          |           |           |           |
| NE   | NE                                   | 2-PHENYLNAPHTHALENE                 |             | 1000 JN  |          | 730 JN   |          |          |          |            |          |          |          | 4100 JN  |          |          |           |           |           |

See notes at end of table.

**TABLE 3-3  
SUMMARY OF FIXED-BASE ANALYTICAL DATA IN SEDIMENT**

BUILDING 312, OWS 312-OW  
NAS CECIL FIELD  
JACKSONVILLE, FLORIDA  
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| Direct Exposure Residential Criteria | Leachability to Groundwater Criteria | Sample   |          | CEF-312-SD- |          |          |          |          |            |          |          |          |          |          |           |           |           |           |
|--------------------------------------|--------------------------------------|--|----------|-------------|----------|----------|----------|----------|------------|----------|----------|----------|----------|----------|-----------|-----------|-----------|-----------|
|                                      |                                      | Sampled ID   | C001-01  | C001-02     | C002-01  | C003-01  | C004-01  | C005-01  | SD-C006-01 | C007-01  | C008-01  | C009-01  | C010-01  | C011-01  | C012-01   | C013-01   | C014-01   | C015-01   |
|                                      |                                      | Sample Date  | 9/5/2001 | 4/4/2003    | 9/5/2001 | 4/4/2003 | 4/4/2003 | 4/4/2003 | 4/4/2003   | 5/2/2003 | 5/2/2003 | 5/2/2003 | 5/2/2003 | 5/2/2003 | 6/25/2003 | 6/25/2003 | 6/25/2003 | 6/25/2003 |
| Criteria                             | Criteria                             | Depth (ft)   | 1        | 2           | 1        | 1        | 1        | 1        | 1          | 1        | 1        | 1        | 1        | 1        | 1         | 1         | 1         |           |
|                                      |                                      | <b>Tentatively Identified Compounds continued (Semi-volatiles) (µg/kg)</b> |          |             |          |          |          |          |            |          |          |          |          |          |           |           |           |           |
| NE                                   | NE                                   | 2-PROPENOIC ACID, 2-METHYL-, DECYL ESTER                                   |          |             |          |          |          |          |            |          | 440 JN   |          |          |          |           |           |           |           |
| NE                                   | NE                                   | 2-PROPENOIC ACID, 2-METHYL-, DODECYL ESTER                                 |          |             |          |          |          |          |            |          | 650 JN   |          |          |          |           |           |           |           |
| NE                                   | NE                                   | 2,6,6-TRIMETHYL-BICYCLO[3.1.1]HEPTANE                                      |          |             |          |          |          |          |            | 540 JN   |          |          |          |          |           |           |           |           |
| NE                                   | NE                                   | 4H-CYCLOPENTA(DEF)PHENANTHRENE   | 5000 JN  | 1300 JN     |          |          |          |          |            |          |          |          | 2000 JN  |          | 9800 JN   |           |           |           |
| NE                                   | NE                                   | 5,12-NAPHTHACENEDIONE  | 2300 JN  | 1000 JN     |          |          |          |          |            |          |          |          |          |          |           |           |           |           |
| NE                                   | NE                                   | 9H-FLUORENE, 1-METHYL-   |          |             |          |          |          |          |            |          |          |          |          |          |           |           |           | 1800 JN   |
| NE                                   | NE                                   | 9H-FLUORENE-9-ONE  |          |             |          |          |          |          |            |          |          |          |          |          |           |           |           | 2100 JN   |
| NE                                   | NE                                   | 9-METHYL-NONADECANE  |          |             |          |          |          | 3700 JN  |            | 1100 JN  |          |          |          |          |           |           |           |           |
| NE                                   | NE                                   | 9,10-ANTHRACENEDIONE   | 3700 JN  |             |          |          |          |          |            |          |          |          | 800 JN   |          |           |           |           | 2500 JN   |
| NE                                   | NE                                   | 11H-BENZO[B]FLUORENE   | 2100 JN  |             |          |          |          |          |            |          |          |          |          |          |           |           |           |           |
| NE                                   | NE                                   | BENZ[E]ACEPHENANTHRYLENE   |          |             | 1200 JN  |          |          |          |            |          | 500 JN   |          |          | 920 JN   |           | 8200 JN   |           |           |
| NE                                   | NE                                   | BENZ[J]ACEANTHRYLENE, 3-METHYL-  | 2100 JN  |             |          |          |          |          |            |          |          |          |          |          |           |           |           |           |
| NE                                   | NE                                   | BENZO[B]CHRYSENE   |          |             |          |          | 600 JN   |          |            |          |          |          |          |          |           |           |           |           |
| 1400                                 | 10000                                | BENZO[B]FLUORANTHENE   |          |             | 1200 JN  |          |          |          |            |          |          |          |          |          |           |           |           |           |
| NE                                   | NE                                   | BENZO[B]TRIPHENYLENE   | 3700 JN  | 1000 JN     |          | 990 JN   |          |          |            |          |          |          |          |          |           |           |           | 4900 JN   |
| NE                                   | NE                                   | BENZO[E]PYRENE   |          |             |          |          |          |          |            |          |          |          |          |          |           |           |           | 18000 JN  |
| NE                                   | NE                                   | BENZO[F]QUINOLINE  |          |             |          |          |          |          |            |          |          |          |          |          |           |           |           | 1900 JN   |
| NE                                   | NE                                   | BENZO[J]FLUORANTHENE   | 4400 JN  |             |          |          | 880 JN   |          |            |          |          |          | 2100 JN  |          |           |           |           |           |
| NE                                   | NE                                   | DIBENZO[DEF,MNO]CHRYSENE   | 4700 JN  | 1400 JN     |          | 1000 JN  |          |          |            |          |          |          | 2400 JN  |          |           |           |           |           |
| NE                                   | NE                                   | DIBENZOTHIOPHENE   | 2500 JN  |             |          |          |          |          |            |          |          |          |          |          |           |           |           | 4400 JN   |
| NE                                   | NE                                   | EICOSANE   |          |             | 6200 JN  |          |          | 820 JN   |            | 590 JN   |          |          |          |          |           |           |           |           |
| NE                                   | NE                                   | .GAMMA.-SITOSTEROL   |          |             |          |          |          |          |            |          | 1900 JN  |          |          |          |           |           |           |           |
| NE                                   | NE                                   | HEPTADECANE  |          |             | 4100 JN  |          |          |          |            |          |          |          |          |          |           |           |           |           |
| NE                                   | NE                                   | HEXADECANE   |          | 940 JN      |          |          |          |          |            |          |          |          |          |          |           |           |           |           |
| NE                                   | NE                                   | HEXATRIACONTANE  |          |             |          |          |          | 2800 JN  |            |          |          |          |          |          |           |           |           |           |
| NE                                   | NE                                   | INDENO(1,2,3-CD)FLUORANTHENE   |          |             |          |          |          |          |            |          |          |          | 1500 JN  |          |           |           |           |           |
| NE                                   | NE                                   | METHYLCARBAZOLE  |          |             |          |          |          |          |            |          |          |          |          |          |           |           |           | 2000 JN   |
| NE                                   | NE                                   | PENTAPHENE   |          |             |          |          |          |          |            |          |          |          |          |          |           |           |           |           |
| NE                                   | NE                                   | PERYLENE   | 13000 JN | 3400 JN     |          | 2600 JN  |          | 850 JN   |            |          |          |          |          |          |           |           |           | 1800 JN   |
| NE                                   | NE                                   | STEARYL CHLORIDE   |          |             |          |          |          |          |            | 1600 JN  |          |          |          |          |           |           |           |           |
| NE                                   | NE                                   | STIGMAST-4-EN-3-ONE  |          |             |          |          |          |          |            |          |          | 690 JN   |          |          |           |           |           |           |
| NE                                   | NE                                   | TETRATETRACONTANE  |          |             |          |          |          |          |            | 3400 JN  |          |          |          |          |           |           |           |           |
| NE                                   | NE                                   | TRIACONTANE  |          |             |          |          |          |          |            |          |          | 890 JN   |          |          |           |           |           |           |
| NE                                   | NE                                   | TRICOSANE  |          |             |          |          |          |          |            |          |          | 580 JN   |          |          |           |           |           |           |
| NE                                   | NE                                   | TRITETRACONTANE  |          |             |          |          |          | 1000 JN  |            | 2700 JN  |          |          |          |          |           |           |           |           |
| NE                                   | NE                                   | UNKNOWN  | 2200 JN  |             |          | 1510 J   | 1200 J   |          |            |          |          |          |          |          |           |           |           |           |
| NE                                   | NE                                   | VITAMIN E  |          |             |          |          |          |          |            |          |          | 880 JN   |          |          |           |           |           |           |

See notes at end of table.

**TABLE 3-3  
SUMMARY OF FIXED-BASE ANALYTICAL DATA IN SEDIMENT**

BUILDING 312, OWS 312-OW  
NAS CECIL FIELD  
JACKSONVILLE, FLORIDA  
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| Direct Exposure Residential Criteria                                  | Leachability to Groundwater Criteria | Sample                |  | CEF-312-SD- |             |          |          |          |                      |          |          |          |          |          |          |           |           |           |           |
|---|--------------------------------------|-----------------------|--|-------------|-------------|----------|----------|----------|----------------------|----------|----------|----------|----------|----------|----------|-----------|-----------|-----------|-----------|
|   |                                      | Sampled ID            | C001-01                                | C001-02     | C002-01     | C003-01  | C004-01  | C005-01  | SD-C006-01           | C007-01  | C008-01  | C009-01  | C010-01  | C011-01  | C012-01  | C013-01   | C014-01   | C015-01   |           |
|   |                                      | Sample Date           | 9/5/2001                               | 4/4/2003    | 9/5/2001    | 4/4/2003 | 4/4/2003 | 4/4/2003 | 4/4/2003             | 4/4/2003 | 5/2/2003 | 5/2/2003 | 5/2/2003 | 5/2/2003 | 5/2/2003 | 6/25/2003 | 6/25/2003 | 6/25/2003 | 6/25/2003 |
|   |                                      | Depth (ft)            | 1                                      | 2           | 1           | 1        | 1        | 1        | 1                    | 1        | 1        | 1        | 1        | 1        | 1        | 1         | 1         | 1         | 1         |
|   |                                      | <b>Metals (mg/kg)</b> |  |             |             |          |          |          |                      |          |          |          |          |          |          |           |           |           |           |
| 0.8   | 29                                   | ARSENIC               | <b>4.1</b>                             | 0.57        | <b>0.97</b> | 0.42     | 0.34 U   | 0.67     | 0.41                 | 0.40 U   | 0.35 B   | 0.43 B   | 0.30 U   | 0.31 U   | NA       | NA        | NA        | NA        |           |
| 75  | 8                                    | CADMIUM               | 0.71                                   | 0.33        | 1.9         | 0.90     | 1.3      | 0.94     | 1.0                  | 0.037 U  | 2.1      | 1.3      | 0.96     | 0.18 B   | NA       | NA        | NA        | NA        |           |
| 1470  | 266                                  | CHROMIUM              | 8.8                                    | 8.4         | 13.6        | 9.2      | 9.4      | 8.7      | 6.1                  | 4.7      | 36.3     | 10.8     | 8.8      | 6.4      | NA       | NA        | NA        | NA        |           |
| 400   | NA                                   | LEAD                  | 25.7                                   | 21.4        | 48.6        | 48.5     | 45.0     | 40.0     | 19.5                 | 20.7     | 200      | 51.8     | 80.7     | 44.1     | NA       | NA        | NA        | NA        |           |
| <b>Notes:</b>   |                                      |                       | U = not detected                       |             |             |          |          |          | ND = not analyzed    |          |          |          |          |          |          |           |           |           |           |
| Direct Exposure Residential Criteria based on Chapter 62-777, FAC.    |                                      |                       | J = estimated                          |             |             |          |          |          | NA = not analyzed    |          |          |          |          |          |          |           |           |           |           |
| Leachability to Groundwater Criteria based on Chapter 62-777, FAC.    |                                      |                       | N = presumptive evidence of a compound |             |             |          |          |          | NE = not established |          |          |          |          |          |          |           |           |           |           |
| µg/kg = micrograms per kilogram                                       |                                      |                       |  |             |             |          |          |          |                      |          |          |          |          |          |          |           |           |           |           |
| mg/kg = milligrams per kilogram                                       |                                      |                       |  |             |             |          |          |          |                      |          |          |          |          |          |          |           |           |           |           |
| Bold indicates concentrations exceeding SCTLs.                        |                                      |                       |  |             |             |          |          |          |                      |          |          |          |          |          |          |           |           |           |           |
| Sample identifications shown with depth of bottom of sample interval. |                                      |                       |  |             |             |          |          |          |                      |          |          |          |          |          |          |           |           |           |           |

**TABLE 3-5  
SUMMARY OF DETECTIONS IN GROUNDWATER**

BUILDING 312, OWS 312-OW  
NAS CECIL FIELD  
JACKSONVILLE, FLORIDA  
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| Compounds  | GCTLs <sup>1</sup> | Monitoring Well Number CEF-312 |        |        |          |          |        |          |        |          |        |          |        |         |         |          |        |
|--|--------------------|--------------------------------|--------|--------|----------|----------|--------|----------|--------|----------|--------|----------|--------|---------|---------|----------|--------|
|  |                    | 02                             | 02     | 02*    | LS-3S    | LS-3S*   | LS-3S  | LS-01S   | LS-01S | LS-1Sa   | LS-1Sa | LS-4S    | LS-4S  | LS-5S   | LS-6S   | LS-11    | LS-11  |
|  |                    | 12/12/01                       | 4/4/03 | 4/4/03 | 12/12/01 | 12/12/01 | 4/4/03 | 12/12/01 | 4/4/03 | 12/12/01 | 4/4/03 | 12/12/01 | 4/4/03 | 3/14/03 | 3/14/03 | 12/12/01 | 4/4/03 |
| <b>Priority Pollutant Volatile Organic Compounds (µg/L)</b>    |                    |                                |        |        |          |          |        |          |        |          |        |          |        |         |         |          |        |
| Ethylbenzene   | 30                 | 2.0 U                          | 1.0 U  | 1.0 U  | 5.3      | 5.4      | 1.0 U  | 2.0 U    | 1.0 U  | 2.0 U    | 1.0 U  | 2.0 U    | 1.0 U  | 1.0 U   | 1.0 U   | 2.0 U    | 1.0 U  |
| Xylenes, total   | 20                 | 6.0 U                          | 3.0 U  | 3.0 U  | 12.7     | 12.9     | 3.0 U  | 6.0 U    | 3.0 U  | 6.0 U    | 3.0 U  | 6.0 U    | 3.0 U  | 3.0 U   | 3.0 U   | 6.0 U    | 3.0 U  |
| Chlorobenzene  | 100                | 2.0 U                          | 1.0 U  | 1.0 U  | 2.0 U    | 2.0 U    | 1.0 U  | 2.0 U    | 0.88 J | 2.0 U    | 1.0 U  | 2.0 U    | 1.0 U  | 1.0 U   | 1.0 U   | 2.0 U    | 1.0 U  |
| <b>Priority Pollutant Extractable Organic Compounds (µg/L)</b> |                    |                                |        |        |          |          |        |          |        |          |        |          |        |         |         |          |        |
| Naphthalene  | 20                 | 5.0 U                          | 0.77 J | 0.35 J | 19.1     | 5.0 U    | 1.4    | 5.0 U    | 3.5    | 5.0 U    | 1.0 U  | 5.0 U    | 1.1 U  | 1.0 U   | 9.7     | 5.0 U    | 1.0 U  |
| 1-Methylnaphthalene  | 20                 | NA                             | 1.6    | 0.58 J | NA       | NA       | 1.0 U  | NA       | 2.6    | NA       | 1.0 U  | NA       | 1.1 U  | 1.0 U   | 5.2     | NA       | 1.0 U  |
| 2-Methylnaphthalene  | 20                 | NA                             | 1.1 U  | 1.1 U  | NA       | NA       | 1.0 U  | NA       | 1.3    | NA       | 1.0 U  | NA       | 1.1 U  | 1.0 U   | 5.1     | NA       | 1.0 U  |
| 1,4-Dichlorobenzene  | 75                 | 5.0 U                          | 5.4 U  | 5.3 U  | 5.0 U    | 5.0 U    | 5.1 U  | 5.0 U    | 2.1 J  | 5.0 U    | 5.1 U  | 5.0 U    | 5.5 U  | 5.1 U   | 5.2 U   | 5.0 U    | 5.1 U  |
| <b>TRPH (mg/L)</b>   |                    |                                |        |        |          |          |        |          |        |          |        |          |        |         |         |          |        |
| TRPH   | 5                  | 1.2                            | 0.378  | 0.424  | 1.89     | 1.94     | 0.73   | 0.28 U   | 0.281  | 0.28 U   | 0.25 U | 0.28 U   | 0.26 U | 0.25 U  | 0.324   | 0.28 U   | 0.26 U |
| <b>Tentatively Identified Compounds (µg/L)</b>                 |                    |                                |        |        |          |          |        |          |        |          |        |          |        |         |         |          |        |
| Benzene, 1,2-diethyl-  | NE                 |                                |        |        | 16       |          |        |          |        |          |        |          |        |         |         |          |        |
| Benzene, 1,3-diethyl-5-methyl-                                 | NE                 |                                |        |        |          | 21       |        |          |        |          |        |          |        |         |         |          |        |
| Benzene, 1-ethyl-2-methyl-                                     | NE                 |                                |        |        | 24       | 23       |        |          |        |          |        |          |        |         |         |          |        |
| Benzene, 1-ethyl-2,3-dimethyl-                                 | NE                 |                                |        |        | 29       | 27       |        |          |        |          |        |          |        |         |         |          |        |
| Benzene, 2-ethyl-1,3-dimethyl-                                 | NE                 |                                |        |        | 29       | 53       |        |          |        |          |        |          |        |         |         |          |        |
| Benzene, 2-ethyl-1,4-dimethyl-                                 | NE                 |                                |        |        |          | 30       |        |          |        |          |        |          |        |         |         |          |        |
| Benzene, 4-ethyl-1,2-dimethyl-                                 | NE                 |                                |        |        | 52       | 25       |        |          |        |          |        |          |        |         |         |          |        |
| Benzene, 1-methyl-2-propyl-                                    | NE                 |                                |        |        | 16       |          |        |          |        |          |        |          |        |         |         |          |        |
| Benzene, 1-methyl-3-propyl-                                    | NE                 |                                |        |        | 19       |          |        |          |        |          |        |          |        |         |         |          |        |
| Benzene, 1-methyl-4-propyl-                                    | NE                 |                                |        |        |          | 19       |        |          |        |          |        |          |        |         |         |          |        |
| Benzene, 1-methyl-2-(1-methylethyl)                            | NE                 |                                |        |        | 46       | 31       |        |          |        |          |        |          |        |         |         |          |        |
| Benzene, 1-methyl-4-(1-methylethyl)                            | NE                 |                                |        |        | 35       | 18       |        |          |        |          |        |          |        |         |         |          |        |
| Benzene, 1-methyl-3-(1-methylethyl)                            | NE                 |                                |        |        | 23       |          |        |          |        |          |        |          |        |         |         |          |        |
| Benzene, (1-methyl-1-propenyl)-(Z)-                            | NE                 |                                |        |        | 74       |          |        |          |        |          |        |          |        |         |         |          |        |
| Benzene, (2-methyl-1-propenyl)-                                | NE                 |                                |        |        |          | 31       |        |          |        |          |        |          |        |         |         |          |        |
| Benzene, (2-methyl-2-propenyl)-                                | NE                 |                                |        |        | 30       |          |        |          |        |          |        |          |        |         |         |          |        |
| Benzene, 1,2,3,4-tetramethyl-                                  | NE                 |                                |        |        | 42       | 30       |        |          |        |          |        |          |        |         |         |          |        |
| Benzene, 1,2,3,5-tetramethyl-                                  | NE                 |                                |        |        | 41       |          |        |          |        |          |        |          |        |         |         |          |        |
| Benzene, 1,2,4,5-tetramethyl-                                  | NE                 |                                |        |        | 25       |          |        |          |        |          |        |          |        |         |         |          |        |
| Benzene, 1,2,4-trimethyl-                                      | 10                 |                                |        |        | 65       |          |        |          |        |          |        |          |        |         |         |          |        |
| Benzene, methyl(1-methylethyl)-                                | NE                 |                                |        |        | 18       |          |        |          |        |          |        |          |        |         |         |          |        |
| 1H-Indene, 2,3-dihydro-4-methyl-                               | NE                 | 30                             |        |        | 24       | 26       |        |          |        |          |        |          |        |         |         |          |        |
| See notes at end of table.                                     |                    |                                |        |        |          |          |        |          |        |          |        |          |        |         |         |          |        |

**TABLE 3-5  
SUMMARY OF DETECTIONS IN GROUNDWATER**

BUILDING 312, OWS 312-OW  
NAS CECIL FIELD  
JACKSONVILLE, FLORIDA  
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| Compounds  | GCTLs <sup>1</sup> | Monitoring Well Number CEF-312 |        |        |          |          |        |          |        |          |        |          |        |         |         |          |        |
|--|--------------------|--------------------------------|--------|--------|----------|----------|--------|----------|--------|----------|--------|----------|--------|---------|---------|----------|--------|
|  |                    | 02                             | 02     | 02*    | LS-3S    | LS-3S*   | LS-3S  | LS-01S   | LS-01S | LS-1Sa   | LS-1Sa | LS-4S    | LS-4S  | LS-5S   | LS-6S   | LS-11    | LS-11  |
|  |                    | 12/12/01                       | 4/4/03 | 4/4/03 | 12/12/01 | 12/12/01 | 4/4/03 | 12/12/01 | 4/4/03 | 12/12/01 | 4/4/03 | 12/12/01 | 4/4/03 | 3/14/03 | 3/14/03 | 12/12/01 | 4/4/03 |
| <b>Tentatively Identified Compounds continued (µg/L)</b>   |                    |                                |        |        |          |          |        |          |        |          |        |          |        |         |         |          |        |
| 1H-Indene, 2,3-dihydro-5-methyl-   | NE                 |                                |        |        | 44       |          |        |          |        |          |        |          |        |         |         |          |        |
| Indan, 1-methyl-   | NE                 |                                |        | 13 JN  |          | 48       |        |          |        |          |        |          |        |         |         |          |        |
| Indane   | NE                 | 20                             |        |        | 20       |          |        |          |        |          |        |          |        |         |         |          |        |
| Naphthalene, 1,2,3,4-tetrahydro-   | NE                 |                                |        |        | 36       | 40       |        |          |        |          |        |          |        |         |         |          |        |
| Phenothiazine  | NE                 |                                |        |        |          |          |        | 12 JN    |        |          |        |          |        |         |         |          |        |
| Unknown  | NE                 |                                |        |        | 29       |          |        |          |        |          |        |          |        |         | 18 J    |          |        |
| <b>Notes:</b><br><sup>1</sup> GCTLs based on Chapter 62-770, FAC.<br>Duplicate sample<br>mg/L = milligrams per liter<br>µg/L = micrograms per liter<br>U = not detected<br>J = estimated<br>N = presumptive evidence of a compound<br><b>Bold</b> indicates concentrations exceeding GCTLs.<br>NE = not established<br>NA = not analyzed |                    |                                |        |        |          |          |        |          |        |          |        |          |        |         |         |          |        |