

Baker

63.01-10/7/93-02373

Baker Environmental, Inc.
Airport Office Park, Building 3
420 Rouser Road
Coraopolis, Pennsylvania 15108

October 7, 1993

(412) 269-6000
FAX (412) 269-2002

Commander
Atlantic Division
Naval Facilities Engineering Command
1510 Gilbert Street (Building N-26)
Norfolk, Virginia 23511-2699

Attn: Ms. Katherine Landman
Code 18232

Re: Contract N62470-89-D-4814
Navy CLEAN, District III
Contract Task Order (CTO) 0160
Draft Final Interim Remedial Action RI/FS Project Plan
Operable Unit No. 10 (Site 35)
MCB, Camp Lejeune, North Carolina

Dear Ms. Landman:

Enclosed for your review are three (3) copies of the Draft Final Interim Remedial Action RI/FS Project Plan for Operable Unit No. 10 (Site 35). This Interim Remedial Action RI/FS Project Plan includes the Work Plan, Sampling and Analysis Plan, Quality Assurance Project Plan, and Health and Safety Plan for implementing an Interim Remedial Action RI/FS at the referenced Operable Unit. Due to the limited amount of field work required to conduct the Interim Remedial Action RI/FS, and the fact that a "full-scale" set of RI/FS Project Plans are being developed for Operable Unit No. 10, the Interim Remedial Action RI/FS Project Plan references the full scale RI/FS Project Plans when appropriate.

Additionally, copies of this Draft Final Interim Remedial RI/FS Project Plan have been forwarded to the North Carolina DEHNR, EPA Region IV, MCB Camp Lejeune EMD, and TRC members in accordance with the distribution listed in the Delivery Order No. CTO-0160 dated March 22, 1993.

If you have any questions, please do not hesitate to contact me at (412) 269-2063.

Sincerely,

BAKER ENVIRONMENTAL, INC.



Daniel L. Bonk, P.E.
Project Manager

DLB/nd
Enclosures

cc: Ms. Lee Anne Rapp, Code 183 (w/o enclosure)
Mr. Keith Simmons, P.E., Code 0223 (w/o enclosure)
Mr. Neal Paul (w/ enclosure)



A Total Quality Corporation

Baker

Baker Environmental, Inc.

Baker Environmental, Inc.**Consulting Engineers**

Airport Office Park - Bldg. 3

420 Rouser Road

Coraopolis, PA 15108

(412) 269-6000

LETTER OF TRANSMITTAL

To: US EPA, Region IV S.O. No. 19160-43-SRN
Waste Management Div. Project: CTO-0160
345 Courtland Street Date: October 7, 1993
Atlanta, GA 30365

Attn. Ms. Gena Townsend

We are forwarding the following: Attached Under Separate Cover

DWG. NO.	NO. COPIES	TITLE OR DESCRIPTION	COMMENTS
	3	Draft Final Interim Remedial Action RI/FS Project Plans	Operable Unit 10 (Site 35) Please submit comments to K. Landman (LANTDIV) by Nov. 7, 1993.

THESE ARE TRANSMITTED as checked below:

- | | | |
|--|---|---|
| <input type="checkbox"/> As requested | <input type="checkbox"/> No exception taken | <input type="checkbox"/> Revise and resubmit |
| <input checked="" type="checkbox"/> For review and comment | <input type="checkbox"/> Rejected - See remarks | <input type="checkbox"/> Submit specified items |
| <input type="checkbox"/> For your information | <input type="checkbox"/> Proceed subject to corrections noted | <input type="checkbox"/> _____ |

GENERAL COMMENTS:

cc: Katherine Landman (LANTDIV)

BAKER ENVIRONMENTAL, INC.By: Mr. Daniel L. Bonk, P.E.Title: Project ManagerPage 1 of 1

Baker

Baker Environmental, Inc.

Baker Environmental, Inc.**Consulting Engineers**

Airport Office Park - Bldg. 3

420 Rouser Road

Coraopolis, PA 15108

(412) 269-6000

LETTER OF TRANSMITTAL

To: Dept. of Environmental Health
and Natural Resources
PO Box 27687, 401 Oberlin Road
Raleigh NC 27611

S.O. No. 19160-43-SRNProject: CTO-0160Date: October 7, 1993Attn. Mr. Patrick Watters, Superfund SectionWe are forwarding the following: Attached Under Separate Cover

DWG. NO.	NO. COPIES	TITLE OR DESCRIPTION	COMMENTS
	1	Draft Final Interim Remedial Action RI/FS Project Plans	Operable Unit 10 (Site 35) Please submit comments to K. Landman (LANTDIV) by Nov. 7, 1993.

THESE ARE TRANSMITTED as checked below:

- | | | |
|--|---|---|
| <input type="checkbox"/> As requested | <input type="checkbox"/> No exception taken | <input type="checkbox"/> Revise and resubmit |
| <input checked="" type="checkbox"/> For review and comment | <input type="checkbox"/> Rejected - See remarks | <input type="checkbox"/> Submit specified items |
| <input type="checkbox"/> For your information | <input type="checkbox"/> Proceed subject to corrections noted | <input type="checkbox"/> _____ |

GENERAL COMMENTS:

cc: Katherine Landman, (LANTDIV)

BAKER ENVIRONMENTAL, INC.By: Mr. Daniel L. Bonk, P.E.Title: Project ManagerPage 1 of 1

Baker

Baker Environmental, Inc.

Baker Environmental, Inc.**Consulting Engineers**

Airport Office Park - Bldg. 3

420 Rouser Road

Coraopolis, PA 15108

(412) 269-6000

LETTER OF TRANSMITTAL

To: US Dept. of the Interior S.O. No. 19160-43-SRN
Regional Environmental Office Project: CTO-0160
75 Spring Street SW Date: October 7, 1993
Atlanta GA 30303

Attn. Mr. James H. Lee

We are forwarding the following: Attached Under Separate Cover

DWG. NO.	NO. COPIES	TITLE OR DESCRIPTION	COMMENTS
	0	Draft Final Interim Remedial Action RI/FS Project Plans	Operable Unit 10 (Site 35)

THESE ARE TRANSMITTED as checked below:

- | | | |
|--|---|---|
| <input type="checkbox"/> As requested | <input type="checkbox"/> No exception taken | <input type="checkbox"/> Revise and resubmit |
| <input type="checkbox"/> For review and comment | <input type="checkbox"/> Rejected - See remarks | <input type="checkbox"/> Submit specified items |
| <input checked="" type="checkbox"/> For your information | <input type="checkbox"/> Proceed subject to corrections noted | <input type="checkbox"/> _____ |

GENERAL COMMENTS:

cc: Katherine Landman, (LANTDIV)

BAKER ENVIRONMENTAL, INC.

By: Mr. Daniel L. Bonk, P.E.Title: Project ManagerPage 1 of 1



Baker Environmental, Inc.
Consulting Engineers
 Airport Office Park - Bldg. 3
 420 Rouser Road
 Coraopolis, PA 15108
 (412) 269-6000

LETTER OF TRANSMITTAL

To: US Fish and Wildlife Service S.O. No. 19160-43-SRN
PO Box 33726 Project: CTO-0160
Raleigh NC 27636-3726 Date: October 7, 1993

Attn. Mr. Tom Augspurger

We are forwarding the following: Attached Under Separate Cover

DWG. NO.	NO. COPIES	TITLE OR DESCRIPTION	COMMENTS
	1	Draft Final Interim Remedial Action RI/FS Project Plans	Operable Unit 10 (Site 35) Please submit comments to K. Landman (LANTDIV) by Nov. 7, 1993.

THESE ARE TRANSMITTED as checked below:

- | | | |
|--|---|---|
| <input type="checkbox"/> As requested | <input type="checkbox"/> No exception taken | <input type="checkbox"/> Revise and resubmit |
| <input checked="" type="checkbox"/> For review and comment | <input type="checkbox"/> Rejected - See remarks | <input type="checkbox"/> Submit specified items |
| <input type="checkbox"/> For your information | <input type="checkbox"/> Proceed subject to corrections noted | <input type="checkbox"/> _____ |

GENERAL COMMENTS:

cc: Katherine Landman, (LANTDIV)

BAKER ENVIRONMENTAL, INC.

By: Mr. Daniel L. Bonk, P.E.
 Title: Project Manager
 Page 1 of 1



Baker Environmental, Inc.
Consulting Engineers
 Airport Office Park - Bldg. 3
 420 Rouser Road
 Coraopolis, PA 15108
 (412) 269-6000

LETTER OF TRANSMITTAL

To: Mr. Ray Humphries S.O. No. 19160-43-SRN
514 Brynn Marr Road Project: CTO-0160
Jacksonville NC 28540 Date: October 7, 1993

Attn. Mr. Ray Humphries

We are forwarding the following: Attached Under Separate Cover

DWG. NO.	NO. COPIES	TITLE OR DESCRIPTION	COMMENTS
	1	Draft Final Interim Remedial Action RI/FS Project Plans	Operable Unit 10 (Site 35) Please submit comments to K. Landman (LANTDIV) by Nov. 7, 1993.

THESE ARE TRANSMITTED as checked below:

- As requested
- For review and comment
- For your information
- No exception taken
- Rejected - See remarks
- Proceed subject to corrections noted
- Revise and resubmit
- Submit specified items
- _____

GENERAL COMMENTS:

cc: Katherine Landman, (LANTDIV)

BAKER ENVIRONMENTAL, INC.
 By: Mr. Daniel L. Bonk, P.E.
 Title: Project Manager
 Page 1 of 1



Baker Environmental, Inc.
Consulting Engineers
 Airport Office Park - Bldg. 3
 420 Rouser Road
 Coraopolis, PA 15108
 (412) 269-6000

LETTER OF TRANSMITTAL

To: Colonel (Retired) Jack Mader S.O. No. 19160-43-SRN
1216 Country Club Road Project: CTO-0160
Jacksonville NC 28540 Date: October 7, 1993

Attn. Colonel (Retired) Jack Mader

We are forwarding the following: Attached Under Separate Cover

DWG. NO.	NO. COPIES	TITLE OR DESCRIPTION	COMMENTS
	1	Draft Final Interim Remedial Action R/FS Project Plans	Operable Unit 10 (Site 35) Please submit comments to K. Landman (LANTDIV) by Nov. 7, 1993.

THESE ARE TRANSMITTED as checked below:

- | | | |
|--|---|---|
| <input type="checkbox"/> As requested | <input type="checkbox"/> No exception taken | <input type="checkbox"/> Revise and resubmit |
| <input checked="" type="checkbox"/> For review and comment | <input type="checkbox"/> Rejected - See remarks | <input type="checkbox"/> Submit specified items |
| <input type="checkbox"/> For your information | <input type="checkbox"/> Proceed subject to corrections noted | <input type="checkbox"/> _____ |

GENERAL COMMENTS:

cc: Katherine Landman, (LANTDIV)

BAKER ENVIRONMENTAL, INC.

By: Mr. Daniel L. Bonk, P.E.
 Title: Project Manager
 Page 1 of 1

Baker

Baker Environmental, Inc.

Baker Environmental, Inc.

Consulting Engineers

Airport Office Park - Bldg. 3

420 Rouser Road

Coraopolis, PA 15108

(412) 269-6000

LETTER OF TRANSMITTAL

To: Jacksonville City Manager S.O. No. 19160-43-SRN
PO Box 128 Project: CTO-0160
Jacksonville NC 28541 Date: October 7, 1993

Attn. Mr. Jerry Bittner

We are forwarding the following: Attached Under Separate Cover

DWG. NO.	NO. COPIES	TITLE OR DESCRIPTION	COMMENTS
	1	Draft Final Interim Remedial Action RI/FS Project Plans	Operable Unit 10 (Site 35) Please submit comments to K. Landman (LANTDIV) by Nov. 7, 1993.

THESE ARE TRANSMITTED as checked below:

- | | | |
|--|---|---|
| <input type="checkbox"/> As requested | <input type="checkbox"/> No exception taken | <input type="checkbox"/> Revise and resubmit |
| <input checked="" type="checkbox"/> For review and comment | <input type="checkbox"/> Rejected - See remarks | <input type="checkbox"/> Submit specified items |
| <input type="checkbox"/> For your information | <input type="checkbox"/> Proceed subject to corrections noted | <input type="checkbox"/> _____ |

GENERAL COMMENTS:

cc: Katherine Landman, (LANTDIV)

BAKER ENVIRONMENTAL, INC.

By: Mr. Daniel L. Bonk, P.E.

Title: Project Manager

Page 1 of 1



Baker Environmental, Inc.
Consulting Engineers
 Airport Office Park - Bldg. 3
 420 Rouser Road
 Coraopolis, PA 15108
 (412) 269-6000

LETTER OF TRANSMITTAL

To: National Oceanic & Atmospheric Adm. S.O. No. 19160-43-SRN
c/o EPA Region IV, 345 Courtland St. NE Project: CTO-0160
Atlanta GA 30365 Date: October 7, 1993

Attn. Mr. Waynon Johnson

We are forwarding the following: Attached Under Separate Cover

DWG. NO.	NO. COPIES	TITLE OR DESCRIPTION	COMMENTS
	1	Draft Final Interim Remedial Action RI/FS Project Plans	Operable Unit 10 (Site 35) Please submit comments to K. Landman (LANTDIV) by Nov. 7, 1993.

THESE ARE TRANSMITTED as checked below:

- As requested
- For review and comment
- For your information
- No exception taken
- Rejected - See remarks
- Proceed subject to corrections noted
- Revise and resubmit
- Submit specified items
- _____

GENERAL COMMENTS:

cc: Katherine Landman, (LANTDIV)

BAKER ENVIRONMENTAL, INC.

By: Mr. Daniel L. Bonk, P.E.
 Title: Project Manager
 Page 1 of 1



Baker Environmental, Inc.
Consulting Engineers
 Airport Office Park - Bldg. 3
 420 Rouser Road
 Coraopolis, PA 15108
 (412) 269-6000

LETTER OF TRANSMITTAL

To: Mr. Cameron Lanier S.O. No. 19160-43-SRN
612 College Street Project: CTO-0160
Jacksonville NC 28540 Date: October 7, 1993

Attn. Mr. Cameron Lanier

We are forwarding the following: Attached Under Separate Cover

DWG. NO.	NO. COPIES	TITLE OR DESCRIPTION	COMMENTS
	1	Draft Final Interim Remedial Action RI/FS Project Plans	Operable Unit 10 (Site 35) Please submit comments to K. Landman (LANTDIV) by Nov. 7, 1993.

THESE ARE TRANSMITTED as checked below:

- As requested
- For review and comment
- For your information
- No exception taken
- Rejected - See remarks
- Proceed subject to corrections noted
- Revise and resubmit
- Submit specified items
- _____

GENERAL COMMENTS:

cc: Katherine Landman, (LANTDIV)

BAKER ENVIRONMENTAL, INC.

By: Mr. Daniel L. Bonk, P.E.
 Title: Project Manager
 Page 1 of 1



Baker Environmental, Inc.
Consulting Engineers
 Airport Office Park - Bldg. 3
 420 Rouser Road
 Coraopolis, PA 15108
 (412) 269-6000

LETTER OF TRANSMITTAL

To: NC Div. of Env. Mgmt. S.O. No. 19160-43-SRN
Groundwater Section Project: CTO-0160
Archdale Bldg., 512 N. Salisbury St. Date: October 7, 1993
Raleigh NC 27604-1148
 Attn. Mr. Arthur Mouberry, Section Chief

We are forwarding the following: Attached Under Separate Cover

DWG. NO.	NO. COPIES	TITLE OR DESCRIPTION	COMMENTS
	1	Draft Final Interim Remedial Action RI/FS Project Plans	Operable Unit 10 (Site 35) Please submit comments to P. Watters (NC DEHNR) by Nov. 7, 1993.

THESE ARE TRANSMITTED as checked below:

- | | | |
|--|---|---|
| <input type="checkbox"/> As requested | <input type="checkbox"/> No exception taken | <input type="checkbox"/> Revise and resubmit |
| <input checked="" type="checkbox"/> For review and comment | <input type="checkbox"/> Rejected - See remarks | <input type="checkbox"/> Submit specified items |
| <input type="checkbox"/> For your information | <input type="checkbox"/> Proceed subject to corrections noted | <input type="checkbox"/> _____ |

GENERAL COMMENTS:

cc: Katherine Landman, (LANTDIV)
 Patrick Watters, (NC DEHNR)

BAKER ENVIRONMENTAL, INC.

By: Mr. Daniel L. Bonk, P.E.
 Title: Project Manager
 Page 1 of 1

Baker

Baker Environmental, Inc.

Baker Environmental, Inc.**Consulting Engineers**

Airport Office Park - Bldg. 3

420 Rouser Road

Coraopolis, PA 15108

(412) 269-6000

LETTER OF TRANSMITTAL

To: NC Div. of Environmental Mgmt. S.O. No. 19160-43-SRN
127 Cardinal Drive Ext. Project: CTO-0160
Wilmington NC 28405-3845 Date: October 7, 1993

Attn. Mr. Rick Shiver, Regional Supv.We are forwarding the following: Attached Under Separate Cover

DWG. NO.	NO. COPIES	TITLE OR DESCRIPTION	COMMENTS
	1	Draft Final Interim Remedial Action RI/FS Project Plans	Operable Unit 10 (Site 35) Please submit comments to P. Watters (NC DEHNR) by Nov. 7, 1993.

THESE ARE TRANSMITTED as checked below:

- | | | |
|--|---|---|
| <input type="checkbox"/> As requested | <input type="checkbox"/> No exception taken | <input type="checkbox"/> Revise and resubmit |
| <input checked="" type="checkbox"/> For review and comment | <input type="checkbox"/> Rejected - See remarks | <input type="checkbox"/> Submit specified items |
| <input type="checkbox"/> For your information | <input type="checkbox"/> Proceed subject to corrections noted | <input type="checkbox"/> _____ |

GENERAL COMMENTS:

cc: Katherine Landman, (LANTDIV)
Patrick Watters, (NC DEHNR)

BAKER ENVIRONMENTAL, INC.

By: Mr. Daniel L. Bonk, P.E.
Title: Project Manager
Page 1 of 1



Baker Environmental, Inc.
 Consulting Engineers
 Airport Office Park - Bldg. 3
 420 Rouser Road
 Coraopolis, PA 15108
 (412) 269-6000

LETTER OF TRANSMITTAL

To: NC Div. of Env. Mgmt. S.O. No. 19160-43-SRN
Water Quality Section Project: CTO-0160
Archdale Bldg., 512 N. Salisbury St. Date: October 7, 1993
Raleigh NC 27604-1148

Attn. Mr. Stephen Tedder, Section Chief

We are forwarding the following: Attached Under Separate Cover

DWG. NO.	NO. COPIES	TITLE OR DESCRIPTION	COMMENTS
	1	Draft Final Interim Remedial Action RI/FS Project Plans	Operable Unit 10 (Site 35) Please submit comments to P. Watters (NC DEHNR) by Nov. 7, 1993.

THESE ARE TRANSMITTED as checked below:

- | | | |
|--|---|---|
| <input type="checkbox"/> As requested | <input type="checkbox"/> No exception taken | <input type="checkbox"/> Revise and resubmit |
| <input checked="" type="checkbox"/> For review and comment | <input type="checkbox"/> Rejected - See remarks | <input type="checkbox"/> Submit specified items |
| <input type="checkbox"/> For your information | <input type="checkbox"/> Proceed subject to corrections noted | <input type="checkbox"/> _____ |

GENERAL COMMENTS:

cc: Katherine Landman, (LANTDIV)
 Patrick Watters, (NC DEHNR)

BAKER ENVIRONMENTAL, INC.

By: Mr. Daniel L. Bonk, P.E.
 Title: Project Manager
 Page 1 of 1