

N61165.AR.005824  
CNC CHARLESTON  
5090.3a

UNDERGROUND STORAGE TANK/PETROLEUM UPDATE CNC CHARLESTON SC  
10/14/1997  
CNC CHARLESTON

CA  
15405  
General

# UST/PETROLEUM UPDATE

AS OF OCTOBER 14, 1997

## CONTENTS

- CLOSURE OF UNDERGROUND/ABOVEGROUND STORAGE TANKS
- REMAINING UST/AST
- TRANSFERRED SITES
- SITES IDENTIFIED FOR FINAL ASSESSMENT
- BIOREMEDIATION PROJECT
- TIMELINE OF EVENTS

- **CLOSURE OF UNDERGROUND/ABOVEGROUND STORAGE TANKS**

1. A TOTAL OF ONE HUNDRED AND ONE (101) TANKS HAVE BEEN PROPERLY CLOSED AND DISPOSED OF SINCE APRIL 1996.
2. CLOSURE REPORTS HAVE BEEN SUBMITTED TO SCDHEC FOR ALL CLOSED TANKS (REGULATED AND UNREGULATED).

- **REMAINING UST/AST**

1. KNOWN TANKS REMAINING TO BE CLOSED ARE AS FOLLOW:

ZONE B (1): AST 86  
ZONE C (2): AST 1136, AST NH 68-1  
ZONE E (5): AST 226, AST 226-2, NS 6-1, AST 235, AST 590A  
ZONE F (3): UST 1346I, UST 1346J, UST 1346K  
ZONE G (2): AST 1177, AST 3909,  
ZONE H (5): UST 647, UST 661, UST 643, AST NS 71, AST 1306

**TOTAL: 18 TANKS**

TANKS AT CHICORA TANK FARM (ZONE G) ARE NOT INCLUDED IN THE ABOVE TOTAL.

2. SUSPECTED TANKS THAT NEED FURTHER INVESTIGATIONS ARE AS FOLLOW:

ZONE A (1): AST 191SW  
ZONE C (10): UST NH 68-2, UST 1168-1, UST NH 1152, UST NH 1153,  
UST NH 1158, UST NH 1159, UST NH 1243, UST NH 1244,  
UST NH 42, UST NH 61, UST NH 67  
ZONE F (2): UST 1824-1, UST 1824-2  
ZONE H (5): UST NH 46, UST NH 1244, UST NH 23, UST NH 241,  
UST NH 647-B  
ZONE I (1): UST NS 26

**TOTAL: 19 TANKS**

THESE TANKS WILL BE INVESTIGATED USING THE EM 61. THESE TANKS WERE IDENTIFIED AS EXISTING PER DRAWINGS, SPEAKING WITH FORMER NAVAL BASE WORKERS AND/OR ABNORMALIES FROM OTHER INVESTIGATIONS.

3. KNOWN AST/UST's IN USE

ZONE E (1): AST 177  
ZONE F (10): AST 32-1, AST 32-2, AST 32-3, AST 32-4, AST 32-501,  
AST 32-D, AST 32-E, UST 1175A, UST 1175B, UST 1175C

*need to be registered*

ZONE G (1): UST 224  
ZONE H (4): UST 202, UST 601, UST 644, AST FBM 61-3  
ZONE K (1): AST 2505

**TOTAL: 17 TANKS**

4. TANKS WITHIN HISTORICAL AREAS

- a) THERE ARE APPROXIMATELY 34 TANKS WITHIN HISTORICAL AREAS (ZONES B AND C) THAT HAVE NOT BEEN PROPERLY CLOSED AT THE NAVAL BASE COMPLEX. UNSUCCESSFUL EFFORTS WERE MADE TO CLOSE THESE TANKS.
- b) FOUR TANKS WITHIN HISTORICAL AREAS WERE CLOSED PER REQUEST FROM THE RDA. THEY WERE USTS B, C, H AND 765.

• **TRANSFERRED SITES**

FIVE (5) SITES HAVE BEEN TRANSFERRED FROM RCRA SUBTITLE C TO RCRA SUBTITLE I. THEY ARE AS FOLLOWS:

- a) AOC 656
- b) AOC 659
- c) AOC 662
- d) SWMU 13
- e) SWMU 178

• **SITES IDENTIFIED FOR FINAL ASSESSMENT**

- 1. SIXTEEN (16) SITES HAVE BEEN IDENTIFIED FOR FINAL ASSESSMENT AS A RESULT OF TANK CLOSURE. THEY ARE AS FOLLOWS:

ZONE B (3): UST 701, UST 705, UST 708  
ZONE C (3): UST 54, UST NH46, UST NH 1137  
ZONE E (2): UST 6A/6B, UST 221-1  
ZONE F (2): UST 1346, UST 241  
ZONE G (2): UST B42, UST 123  
ZONE H (3): UST NS 44A & NS 45, UST 648, UST 650  
ZONE I (1): UST NS 200

SAMPLING AND ANALYSIS PLANS (SAP) FOR ALL SITES IDENTIFIED HAVE BEEN SUBMITTED TO SCDHEC FOR APPROVAL. A RESPONSE TO THE SAP FOR NS 200 HAS BEEN RECEIVED FROM SCDHEC.

2. FIVE (5) SITES HAVE BEEN IDENTIFIED FOR FINAL ASSESSMENT AS A RESULT OF RCRA TO UST TRANSFER.

- f) AOC 656
- g) AOC 659
- h) AOC 662
- i) SWMU 13
- j) SWMU 178

3. ELEVEN (11) CLOSURE REPORTS HAVE RECEIVED RESPONSES STATING "NO ADDITIONAL ASSESSMENT REQUIRED" FROM SCDHEC. RESPONSE IS PENDING ON THE OTHER CLOSURE REPORTS.

- **BIOREMEDIATION PROJECT**

1. THE BIOREMEDIATION PILOT PROJECT IS HOUSED IN BUILDING 1601.
2. THE PROJECT STARTED IN FEBRUARY 1997.
3. A SIX (6) MONTH REPORT DOCUMENTING THE RESULTS HAS BEEN SUBMITTED TO SCDHEC. THE REPORT INCLUDES A REQUEST FOR A THREE (3) MONTH EXTENSION TO COMPLETE WIDROWS THAT STARTED IN APRIL AND MAY. A FINAL REPORT ON THE PILOT STUDY WILL BE SUBMITTED AT THE END OF THE THREE (3) MONTH EXTENSION.
4. IF SCDHEC APPROVES THE RECOMMENDED BIOREMEDIATION METHOD, A FULL SCALE BIOREMEDIATION PROJECT WILL BE UTILIZED TO REMEDIATE PETROLEUM CONTAMINATED SOIL FROM TANK PULLS AND CORRECTIVE ACTIONS.

- **TIMELINE OF EVENTS**

1. THERE ARE FOUR MAJOR COMPONENTS OF THE PETROLEUM PROGRAM AT THE CHARLESTON NAVAL BASE COMPLEX: REMOVALS, ASSESSMENTS, REMEDIATION AND BIOREMEDIATION.
2. THE ESTIMATED TIMELINES FOR EACH COMPONENT ARE:
  - a) REMOVALS - 4/3/96 THRU 11/26/97
  - b) ASSESSMENTS - 8/18/97 THRU 9/1/98
  - c) REMEDIATION - 2/16/98 THRU 2/15/99
  - d) BIOREMEDIATION - 2/15/97 THRU 9/15/99