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LETTER TRANSMITTING INITIAL ABATEMENT MEASURES REPORT AND SITE
CHARACTERIZATION REPORT CHECKLISTS LIGHTER AMPHIBIOUS RESUPPLY CARGO
(LARC) 60 AREA AND AUTO CRAFT AREA FORT STORY VA
3/6/1992
U.S. ARMY TRANSPORTATION CENTER FORT EUSTIS VA

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6 MAR 1992

19 1992
SP/11/12

Directorate of Engineering and Housing

SUBJECT: State Water Control Board PC 92-1047 Fort Story, LARC
Maintenance Area and State Water Control Board PC 92-1048 Fort Story, Auto
Craft Building

Mr. Tom Madigan
State Water Control Board
287 Pembroke Office Park
Suite 310, Pembroke No. 2
Virginia Beach, Virginia 23462-2955

Dear Mr. Madigan:

SP/11/12 *1*

Enclosed are the Initial Abatement Measures Report and Site Characterization Report checklists for the Fort Story LARC Maintenance Area and Auto Craft Building sites. The information referenced in the checklists is contained in the Final Fort Story Preliminary Assessment/Site Investigation, dated January 1992. The analytical results and driller's logs can be found in the Fort Story Final Analytical Results Document and Final Geotechnical Information Document, respectively, which are in your receipt.

Part two and three of the Site Characterization Report will be completed as part of the Installation Restoration Program Remedial Investigation. This work is presently being scoped for both sites by the Omaha District Corps of Engineers.

Any questions regarding the reports should be directed to Ms. Joan VanDervort at 878-4123.

Sincerely,

ORIGINAL SIGNED

Wesley J. McMillan
Lieutenant Colonel, U.S. Army
Director of Engineering and Housing

Enclosures

INITIAL ABATEMENT MEASURES REPORT CHECKLIST

Site: Auto Craft Building, FT Story PC# 92-1048 Region _____

The following checklist must be filled out by the Responsible Party (RP) and/or the RP's Consultant and included in the Initial Abatement Report. Indicate on the checklist the page and section number where each item is addressed in the attached report. Also indicate on the checklist the section and page number where justification is given for items omitted from the attached report. The contents of the report should reflect and be commensurate with the nature of the release, degree of contamination and complexity of the site investigation.

1. RELEASE INVESTIGATION AND CONFIRMATION STEPS

Page /Section	
<u>2-47 / 2.2.2.6</u>	Evidence for suspecting a release has occurred
<u>NA / NA</u>	Monitoring results from release detection used
<u>NA / NA</u>	Results of tank/line tightness test
<u>NA / NA</u>	Actions taken to repair, replace, upgrade UST

2. SITE CHECK

<u>2-47 / 2.2.2.6</u>	Measures taken to identify the source of release
<u>2-47 / 2.2.2.6</u>	Depth to ground water
<u>2-47 / 2.2.2.6</u>	Description and justification of sampling
<u>2-47 / 2.2.2.6</u>	types (ground water, soil)
<u>Figure 2-23 / Fig 2-24</u>	locations (include site map)
<u>Site 7 / MRL</u>	parameters, EPA methods, units, and detection limits
<u>ES FINAL ANALYTICAL RESULTS DOCUMENT</u>	

3. INITIAL ABATEMENT MEASURES

<u>NA / NA</u>	Release inspection results and measures taken to prevent further migration of contaminants into soils and ground water
<u>NA / NA</u>	Regulated substance removed from UST system
<u>NA / NA</u>	Efforts to mitigate fire and safety hazards
<u>2-49 / 2.2.2.6</u>	Efforts to measure for the presence of free product
<u>NA / NA</u>	Efforts to remove free product
<u>NA / NA</u>	Measures taken, as part of Initial Abatement, to address contaminated ground water and soils, tank water and sludges, and debris (i.e. tanks, piping, concrete) Include permits

FT STORY
DRA PA/SZ / Sep 91 Initial Abatement Measures Report submitted within 20 days of release confirmation or extension granted
FOR OFFICE USE ONLY

COMMENTS: _____

DEFICIENCIES: _____

REVIEWED BY: _____ DATE: _____

SITE CHARACTERIZATION REPORT CHECKLIST

Site: _____ PC# _____ Region _____

The following checklist must be filled out by the Responsible Party (RP) and/or the RP's Consultant and included in the Site Characterization Report. Indicate on the checklist the page and section number where each item is addressed in the attached report. Also indicate on the checklist the section and page number where justification is given for items omitted from the attached report. The contents of the report should reflect and be commensurate with the nature of the release, degree of contamination and complexity of the site investigation.

A copy of the Initial Abatement Measures Report must be attached to or included in the Site Characterization Report.

Items marked with an * are required as part of the CAP Permit Application.

1. SITE ASSESSMENT

- | Page /Section | |
|---|--|
| <u>NA</u> / <u>NA</u> | Nature and quantity of release |
| <u>2-49</u> / <u>2.2.2.6</u> | *Physical and chemical properties of released product |
| <u>NA</u> / <u>NA</u> | Free Product Removal Report |
| <u>Cover letter</u> / _____ | Tank information (capacity, location, contents) |
| <u>2-47</u> / <u>2.2.2.6</u> | Geologic/hydrogeologic site information |
| <u>2-47</u> / <u>2.2.2.6</u> | Site geology |
| <u>2-47</u> / <u>2.2.2.6</u> | Subsurface conditions (fractures, solution cavities, lenses, depth to ground water) |
| <u>NA</u> / <u>NA</u> | Pumping/injection wells |
| <u>FS Final Geotechnical S. 107</u> / <u>Y6/2</u> | Drillers/geologic logs and construction details for all wells and boreholes |
| <u>2-22-23</u> / <u>2.2.1.3</u> | Aquifer characteristics |
| <u>2-22,23</u> / <u>2.2.1.3</u> | Name |
| <u>2-23</u> / <u>2.2.1.3</u> | Thickness |
| <u>2-22, 2-49</u> / <u>2.2.1.3</u> | Conductivity |
| <u>2-24</u> / <u>2.2.1.3</u> | Transmissivity |
| <u>2-</u> / <u>2.2.1.</u> | Hydraulic gradient |
| <u>2-47</u> / <u>2.2.2.6</u> | Flow velocity/direction |
| <u>Table 2-25</u> / <u>2.2.2.6</u> | Hydrogeologic cross section |
| <u>NA</u> / <u>NA</u> | Information as to water resources within 1000 ft of site (wells, springs, surface water) |
| <u>NA</u> / <u>NA</u> | Information as to adjacent property owners and potentially affected ground and surface water users (names, addresses, telephone numbers) |
| <u>2-47</u> / <u>2.2.2.6</u> | Information on historical releases at the site as well as historical releases from USTs located on adjacent property |
| <u>NA</u> / <u>NA</u> | Construction information on potentially affected wells |
| <u>2-23</u> / <u>2.2.1.3</u> | Current and projected groundwater/land use |
| <u>2-51</u> / <u>2.2.2.6</u> | Description of vertical and lateral extent of contamination |
| _____ / _____ | Free product phase |
| _____ / _____ | Dissolved phase |
| _____ / _____ | Residual phase |
| _____ / _____ | Vapor phase |

Site 7 / Plume migration direction and rate
 FS Final Analytical Results document *Sampling/monitoring results

NOTE: All lab sheets and tables submitted in SCR must have sample media, analytical method used, detection limit method, unit of measure, sample depths, and sample locations. Sampling results from BTEX analysis must be reported individually and totaled.

Site maps/sketches (combine when appropriate and to scale when possible)

- Figure 1-1 *Locus map on 7 1/2 min. quad. or county highway map
- Figure 1-2 *Base map with property lines and physical features (buildings, roads, etc.)
- 2-47 2.2.2.6 *Location of source(s) of contamination at site
- Fig 2-23 & 2-24 Sample locations (water, vapor, and/or soil)
 - NA / NA Excavation pits
 - Fig 2-23 / 2.2.2.6 Surficial soils
 - NA / NA Surface waters
 - NA / NA Basements/conduits (and/or soil vapor surveys)
 - Fig 2-24 / 2.2.2.6 Monitoring wells
 - NA / NA Domestic wells
 - NA / NA Public supply wells
 - NA / NA Springs
 - Fig 2-23 / 2.2.2.6 Boring locations
 - Fig 2-24 / 2.2.2.6 Observation well locations
 - 2-24 / 2.2.2.6 Ground water flow direction map
 - NA / NA Subsurface conduits (telephone, water, sewer, power, dispenser piping)
 - Fig 2-24 / *Potentially affected wells/streams/springs
 - Fig 2-24 / *Flood plain designation
 - NA / NA Isoconcentration or plume delineation map for each affected aquifer and/or soil zone for all phases present (cross-sectional and map view)
 - / Free product
 - / Dissolved
 - / Residual
 - / Vapor

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DEFICIENCIES: _____

INITIAL ABATEMENT MEASURES REPORT CHECKLIST

Site: LARC 60 Maintenance Area, FT PC# 92-1047 Region _____
STORY

The following checklist must be filled out by the Responsible Party (RP) and/or the RP's Consultant and included in the Initial Abatement Report. Indicate on the checklist the page and section number where each item is addressed in the attached report. Also indicate on the checklist the section and page number where justification is given for items omitted from the attached report. The contents of the report should reflect and be commensurate with the nature of the release, degree of contamination and complexity of the site investigation.

1. RELEASE INVESTIGATION AND CONFIRMATION STEPS

Page / Section	
<u>2-42 / 2.2.2.5</u>	Evidence for suspecting a release has occurred
<u>NA / NA</u>	Monitoring results from release detection used
<u>NA / NA</u>	Results of tank/line tightness test
<u>NA / NA</u>	Actions taken to repair, replace, upgrade UST

2. SITE CHECK

<u>2-42 / 2.2.2.5</u>	Measures taken to identify the source of release
<u>2-47 / 2.2.2.5</u>	Depth to ground water
<u>2-42 / 2.2.2.5</u>	Description and justification of sampling
<u>2-43 / 2.2.2.5</u>	types (ground water, soil)
<u>2-42a / 2.2.2.5</u>	locations (include site map)
FS Analytical Results Document	<u>MRL</u> parameters, EPA methods, units, and detection limits <u>Section</u>

3. INITIAL ABATEMENT MEASURES

cover letter / _____	Release inspection results and measures taken to prevent further migration of contaminants into soils and ground water
cover letter / _____	Regulated substance removed from UST system
<u>NA / NA</u>	Efforts to mitigate fire and safety hazards
<u>2-42 / 2.2.2.5</u>	Efforts to measure for the presence of free product
<u>NA / NA</u>	Efforts to remove free product
cover letter / _____	Measures taken, as part of Initial Abatement, to address contaminated ground water and soils, tank water and sludges, and debris (i.e. tanks, piping, concrete) Include permits
<u>FT STORY</u> <u>PA/SZ</u> / <u>Sep 91</u>	Initial Abatement Measures Report submitted within 20 days of release confirmation or extension granted

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REVIEWED BY: _____

DATE: _____

SITE CHARACTERIZATION REPORT CHECKLIST

FT Story

Site: LARC 60 Maintenance Area PC# 92-1047 Region _____

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1. SITE ASSESSMENT

Page /Section	
<u>2-47</u> / <u>2.2.2.5</u>	Nature and quantity of release
<u>2-42</u> / <u>2.2.2.5</u>	*Physical and chemical properties of released product
<u>NA</u> / <u>NA</u>	Free Product Removal Report
<u>2-42</u> / <u>2.2.2.5</u>	Tank information (capacity, location, contents)
2-22 → <u>2-26</u> / <u>2.2.1.3</u>	Geologic/hydrogeologic site information
<u>2-43</u> / <u>2.2.2.5</u>	Site geology
<u>2-44</u> / <u>2.2.2.5</u>	Subsurface conditions (fractures, solution cavities, lenses, depth to ground water)
Figure 2-22	
<u>NA</u> / <u>NA</u>	Pumping/injection wells
FS Final Geotechnical Information Document / <u>Site 6</u> / <u>Vol 2</u>	Drillers/geologic logs and construction details for all wells and boreholes
<u>2-22</u> → <u>23</u> / <u>2.2.1.3</u>	Aquifer characteristics
<u>2-22</u> → <u>23</u> / <u>2.2.1.3</u>	Name
<u>2-23</u> / <u>2-43</u> / <u>2.2.1.3</u>	Thickness
<u>2-22</u> / <u>2-43</u> / <u>2.2.1.3</u>	Conductivity
<u>2-24</u> / <u>2-43</u> / <u>2.2.1.3</u>	Transmissivity
<u>2-24</u> / <u>2-43</u> / <u>2.2.1.3</u>	Hydraulic gradient
<u>2-43</u> / <u>2.2.2.5</u>	Flow velocity/direction
Figure 2-22 / <u>2.2.2.5</u>	Hydrogeologic cross section
<u>2-23</u> / <u>2.2.1.3</u>	Information as to water resources within 1000 ft of site (wells, springs, surface water)
<u>NA</u> / <u>NA</u>	Information as to adjacent property owners and potentially affected ground and surface water users (names, addresses, telephone numbers)
<u>2-42</u> / <u>2.2.2.5</u>	Information on historical releases at the site as well as historical releases from USTs located on adjacent property
<u>NA</u> / <u>NA</u>	Construction information on potentially affected wells
<u>2-23</u> / <u>2.2.1.3</u>	Current and projected groundwater/land use
<u>2-47</u> / <u>2.2.2.5</u>	Description of vertical and lateral extent of contamination
_____ / _____	Free product phase
_____ / _____	Dissolved phase
_____ / _____	Residual phase
_____ / _____	Vapor phase

SCR Checklist
Page 2 of 4

FS Final Analytical Results Document Site 6 / NA Plume migration direction and rate
*Sampling/monitoring results

NOTE: All lab sheets and tables submitted in SCR must have sample media, analytical method used, detection limit method, unit of measure, sample depths, and sample locations. Sampling results from BTEX analysis must be reported individually and totaled.

Site maps/sketches (combine when appropriate and to scale when possible)

- Figure 1-1 / NA *Locus map on 7 1/2 min. quad. or county highway map
- Figure 1-2 / NA *Base map with property lines and physical features (buildings, roads, etc.)
- 2-42 / 2.2.2.5 *Location of source(s) of contamination at site
- NA / NA Sample locations (water, vapor, and/or soil)
 - NA / NA Excavation pits
 - Figure 2-20E / NA Surficial soils
 - NA / NA Surface waters
 - NA / NA Basements/conduits (and/or soil vapor surveys)
 - Fig 2-21 / NA Monitoring wells
 - NA / NA Domestic wells
 - NA / NA Public supply wells
 - NA / NA Springs
- Figure 2-20 / NA Boring locations
- NA / NA Observation well locations
- Figure 2-21 / NA Ground water flow direction map
- NA / NA Subsurface conduits (telephone, water, sewer, power, dispenser piping)
- Fig 2-2d / NA *Potentially affected wells/streams/springs
- Fig 2-2c / NA *Flood plain designation
- NA / NA Isoconcentration or plume delineation map for each affected aquifer and/or soil zone for all phases present (cross-sectional and map view)
 - NA / NA Free product
 - NA / NA Dissolved
 - NA / NA Residual
 - NA / NA Vapor

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