

Tim Murphy, Chief
Bureau of Federal Facilities
Division of Environmental Protection
1771 E. Flamingo Road, Suite 121-A
Las Vegas, NV 89119

SUBMITTAL OF FINAL POST-CLOSURE INSPECTION LETTER REPORT FOR
CORRECTIVE ACTION UNIT 112: AREA 23 HAZARDOUS WASTE TRENCHES,
NEVADA TEST SITE, NEVADA, REVISION 0, JANUARY 2007

This letter serves as the post closure monitoring letter report for the above CAU for the period
October 2005 - September 2006.

Quarterly inspections were conducted on December 12, 2005, on March 23, 2006, on
June 20, 2006, and on September 19, 2006, to observe the condition of the gate, use-restriction
warning signs, monuments, fencing, trenches, soil covers, and monitoring well covers.

The first inspection was conducted on December 12, 2005. Signs, fencing, riprap, monuments,
and monitoring well covers were in excellent condition. No cracking, erosion, or subsidence was
observed on the covers. No issues or concerns were identified, and no corrective actions were
recommended.

The second inspection was conducted on March 23, 2006. Signs, fencing, riprap, monuments,
and monitoring well covers were in excellent condition. No cracking, erosion, or subsidence was
observed on the covers. No issues or concerns were identified, and no corrective actions were
recommended.

The third inspection was conducted on June 20, 2006. Signs, fencing, riprap, monuments, and
monitoring well covers were in excellent condition. No cracking, erosion, or subsidence was
observed on the covers. No issues or concerns were identified, and no corrective actions were
recommended.

The fourth inspection was conducted on September 19, 2006. Signs, fencing, riprap,
monuments, and monitoring well covers were in excellent condition. No cracking, erosion, or
subsidence was observed on the covers. No issues or concerns were identified, and no corrective
actions were recommended.

Tim Murphy, Chief

-2-

The post-closure inspection checklists for CAU 112 are attached. Photographs and field notes taken during site inspections are maintained in the project files.

Please direct comments and questions to Sabine Curtis, of my staff, at (702) 295-0542.

ERP:

Wilhelm R. Wilborn,
Acting Federal Project Director
Environmental Restoration Project

Enclosure:

As stated

cc w/encl. (uncontrolled):

D. R. Elle, NDEP, Las Vegas, NV
Southern Nevada Public Reading Room
Las Vegas, NV (2 electronic copies)
Northern Nevada Public Reading Room
Carson City, NV (electronic copy)
Public Reading Facility Coordinator, SNJV
Las Vegas, NV (electronic copy)
David Swanson, Department of Natural
Resources & Federal Facilities, Pahrump, NV
Technical Library, NNSA/NSO, Las Vegas, NV (electronic copy)
NSTec Document Production (electronic copy to OSTI)
J. L. Smith, NSTec, Las Vegas, NV
R. F. Boehlecke, SNJV, Las Vegas, NV
EM Records, AMEM, Las Vegas, NV
S. T. Curtis, ERP, NNSA/NSO, Las Vegas, NV
R. J. Poderis, NSTec, Las Vegas, NV
G. Richardson, NSTec, Las Vegas, NV
A. J. Silvas, NSTec, Las Vegas, NV
T. A. Thiele, NSTec, Las Vegas, NV

cc w/o encl:

D. C. Loewer, DTRA/CXT1, M/S 645, Mercury, NV

Tim Murphy, Chief

-3-

T. A. Lantow, DTRA/CXT1, M/S 645, Mercury, NV
W. R. Griffin, SNJV/DTRA, M/S 645, Mercury, NV
K. A. Hoar, AD/AMSP, NNSA/NSO, Las Vegas, NV
E. F. Di Sanza, WMP, NNSA/NSO, Las Vegas, NV
FFACO Group, PSG, NNSA/NSO, Las Vegas, NV

CAU J12: AREA 23 HAZARDOUS WASTE TRENCHES, POST-CLOSURE INSPECTION CHECKLIST

| | | |
|--|-------------------------|--|
| Inspection Date and Time: <i>12/12/05 1245P</i> | | Reason for Inspection: Quarterly |
| Date of Last Post-Closure Inspection: | | Reason for Last Post-Closure Inspection: Quarterly |
| Responsible Agency: Bechtel Nevada Environmental Restoration | | |
| Address: Nevada Test Site, Mercury, Nevada | | |
| Responsible Agency Official: Jeffrey L. Smith, Project Manager | | |
| Chief Inspector: <i>Mike Floyd</i> | Title: <i>FIELD OPS</i> | Organization: Environmental Restoration |
| Assistant Inspector: | Title: | Organization: Environmental Restoration |

A. GENERAL INSTRUCTIONS

1. All checklist items must be completed and detailed comments made to document the results of the site inspection. The completed checklist is part of the field record of the inspection. Additional pages should be used as necessary to ensure that a complete record is made. Attach the additional pages and number all pages upon completion of the inspection.
2. Any checklist line item marked by an inspector in a SHADED BOX must be fully explained or an appropriate reference to previous reports provided. The purpose of this requirement is to provide a written explanation of inspector observations and the inspector's rationale for conclusions and recommendations. Explanations are to be placed on additional attachments and cross-referenced appropriately. Explanations, in addition to narrative, will take the form of sketches, measurements, and annotated site maps.
3. The site inspection is a walking inspection of the entire site including the perimeter and sufficient transects to be able to inspect the entire surface and all features specifically described in this checklist.
4. A standard set of color photographs is required. In addition, all anomalous features or new features (such as changes in adjacent area land use) are to be photographed. A photograph log entry will be made for each photograph taken.
5. Field notes taken to assist in completion of this checklist will become part of the inspection record. No form is specified for field notes; however, they must be legible and in sufficient detail to enable review by succeeding inspectors and the responsible agency.
6. This unit will be inspected quarterly with formal reporting to the Nevada Division of Environmental Protection to be done annually. The annual report will include an executive summary, this inspection checklist with field notes and photograph log attached, and recommendations and conclusions.

| B. PREPARATION (To be completed prior to site visit) | YES | NO | EXPLANATION |
|--|-------------------------------------|-------------------------------------|-------------|
| 1. Has the Post-Closure Permit been reviewed? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2. Have the design basis documents been reviewed? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 3. Have the site as-built plans and site base map been reviewed? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4. Have the previous inspection reports been reviewed? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| a. Were anomalies or trends detected on previous inspections? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| b. Was maintenance performed? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 5. Have the site maintenance and repair records been reviewed? | <input type="checkbox"/> | <input type="checkbox"/> | |
| a. Has site repair resulted in a change from as-built conditions? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| b. Are revised as-built plans available that reflect repair changes? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |

C. SITE INSPECTION PREPARATION

Assemble the following, as needed, to conduct inspections:

- a. Camera, film, and batteries
- b. Keys to locks
- c. Clipboard
- d. Tape measure
- e. Radio, pager, etc.
- f. Previous Post-Closure Report, Inspection Checklists, repair records, and as-built plans
- g. Other miscellaneous support equipment

CAU 112: AREA 23 HAZARDOUS WASTE TRENCHES, POST-CLOSURE INSPECTION CHECKLIST

| D. SITE INSPECTION | YES | NO | EXPLANATION |
|---|-----|-----|-------------|
| 1. Adjacent off-site features: | | | |
| a. Have there been any changes in the use of the adjacent area? | | ✓ | |
| b. Are there any new roads or trails? | | ✓ | |
| c. Has there been any change in the position of nearby washes? | | ✓ | |
| d. Has there been lateral excursion or erosion/deposition of nearby washes? | | ✓ | |
| e. Are there new drainage channels? | | ✓ | |
| f. Has there been a change in the surrounding vegetation? | | ✓ | |
| 2. Access roads, fences, gates, and signs: | | | |
| a. Is there a break in the fence? | | ✓ | |
| b. Have any posts been damaged or their anchoring weakened? | | ✓ | |
| c. Does the gate show evidence of tampering or damage? | | ✓ | |
| d. Was the gate locked? | ✓ | | |
| e. Is there any evidence of human intrusion onto the cover? | | ✓ | |
| f. Is there any evidence of large animal intrusion onto the cover? | | ✓ | |
| g. Have any signs been damaged or removed? (Number of signs replaced: ____) | | ✓ | |
| h. Other? | | N/A | |
| 3. Monuments and other permanent features: | | | |
| a. Have survey markers, boundary monuments, or monitoring stations been disturbed? | | ✓ | |
| b. Do natural processes threaten the integrity of any survey marker, boundary monument or monitoring station? | | ✓ | |
| c. Is there excessive vegetation around the survey markers, boundary monuments, or monitoring stations? | | ✓ | |
| d. Other? | | N/A | |
| 4. Waste unit cover: | | | |
| a. Is there evidence of settling? | | ✓ | |
| b. Is there evidence of cracking? | | ✓ | |
| c. Is there evidence of erosion (wind or water)? | | ✓ | |
| d. Is there evidence of animal burrowing? | | ✓ | |
| e. Is there vegetation growing on the cover? | | ✓ | |
| f. Other (including trash, debris, etc within fenced area)? | | ✓ | |

CAU 112: AREA 23 HAZARDOUS WASTE TRENCHES, POST-CLOSURE INSPECTION CHECKLIST

E. FIELD CONCLUSIONS

1. Is there an imminent hazard to the integrity of the unit?
(Immediate report required)

| | |
|--|---|
| | ✓ |
|--|---|

Person/Agency to whom report was made:

2. Are more frequent inspections required?

| | |
|--|---|
| | ✓ |
|--|---|

3. Are existing maintenance/repair actions satisfactory?

| | |
|---|--|
| ✓ | |
|---|--|

4. Is other maintenance/repair necessary?

| | |
|--|---|
| | ✓ |
|--|---|

5. Field conclusions/recommendations: SITE WAS FOUND TO BE IN GOOD
CONDITION, NO ISSUES OR CONCERNS CONTINUE REGULAR
SCHEDULED INSPECTIONS

F. CERTIFICATION

I have conducted an inspection of CAU 112, Area 23 Hazardous Waste Trenches, in accordance with the procedures of the Post-Closure Permit (including the Post-Closure Plan) as recorded on this checklist, attached sheets, field notes, photographs, and photograph logs.

Chief Inspector's Signature:

[Signature]

Date:

12/12/05

Printed Name:

Mike Floyd

Title:

12/12/05

CAU 112: AREA 23 HAZARDOUS WASTE TRENCHES, POST-CLOSURE INSPECTION CHECKLIST

| | |
|--|--|
| Inspection Date and Time: <u>3/23/06 11:50AM</u> | Reason for Inspection: Quarterly |
| Date of Last Post-Closure Inspection: <u>12/12/05</u> | Reason for Last Post-Closure Inspection: Quarterly |
| Responsible Agency: Bechtel Nevada Environmental Restoration | |
| Address: Nevada Test Site, Mercury, Nevada | |
| Responsible Agency Official: Jeffrey L. Smith, Project Manager | |
| Chief Inspector: <u>Glenn Richardson</u> | Title: <u>Task Manager</u> Organization: Environmental Restoration |
| Assistant Inspector: <u>Brian Konrad</u> | Title: <u>Deputy Field Ops Manager</u> Organization: Environmental Restoration |

A. GENERAL INSTRUCTIONS

1. All checklist items must be completed and detailed comments made to document the results of the site inspection. The completed checklist is part of the field record of the inspection. Additional pages should be used as necessary to ensure that a complete record is made. Attach the additional pages and number all pages upon completion of the inspection.
2. Any checklist line item marked by an inspector in a SHADED BOX must be fully explained or an appropriate reference to previous reports provided. The purpose of this requirement is to provide a written explanation of inspector observations and the inspector's rationale for conclusions and recommendations. Explanations are to be placed on additional attachments and cross-referenced appropriately. Explanations, in addition to narrative, will take the form of sketches, measurements, and annotated site maps.
3. The site inspection is a walking inspection of the entire site including the perimeter and sufficient transects to be able to inspect the entire surface and all features specifically described in this checklist.
4. Field notes taken to assist in completion of this checklist will become part of the inspection record. No form is specified for field notes; however, they must be legible and in sufficient detail to enable review by succeeding inspectors and the responsible agency.
5. This unit will be inspected quarterly with formal reporting to the Nevada Division of Environmental Protection to be done annually. The annual report will include an executive summary, this inspection checklist with field notes and photograph log attached, and recommendations and conclusions.

| B. PREPARATION (To be completed prior to site visit) | YES | NO | EXPLANATION |
|--|-------------------------------------|-------------------------------------|-------------|
| 1. Has the Post-Closure Permit been reviewed? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2. Have the design basis documents been reviewed? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 3. Have the site as-built plans and site base map been reviewed? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4. Have the previous inspection reports been reviewed? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| a. Were anomalies or trends detected on previous inspections? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| b. Was maintenance performed? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 5. Have the site maintenance and repair records been reviewed? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| a. Has site repair resulted in a change from as-built conditions? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| b. Are revised as-built plans available that reflect repair changes? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | N/A |

C. SITE INSPECTION PREPARATION

Assemble the following, as needed, to conduct inspections:

- a. Camera, film, and batteries
- b. Keys to locks
- c. Clipboard
- d. Tape measure
- e. Radio, pager, etc.
- f. Previous Post-Closure Report, Inspection Checklists, repair records, and as-built plans
- g. Other miscellaneous support equipment

CAU 112: AREA 23 HAZARDOUS WASTE TRENCHES, POST-CLOSURE INSPECTION CHECKLIST

| D. SITE INSPECTION | YES | NO | EXPLANATION |
|---|-----|----|-------------|
| 1. Adjacent off-site features: | | | |
| a. Have there been any changes in the use of the adjacent area? | | ✓ | |
| b. Are there any new roads or trails? | | ✓ | |
| c. Has there been any change in the position of nearby washes? | | ✓ | |
| d. Has there been lateral excursion or erosion/deposition of nearby washes? | | ✓ | |
| e. Are there new drainage channels? | | ✓ | |
| f. Has there been a change in the surrounding vegetation? | | ✓ | |
| 2. Access roads, fences, gates, and signs: | | | |
| a. Is there a break in the fence? | | ✓ | |
| b. Have any posts been damaged or their anchoring weakened? | | ✓ | |
| c. Does the gate show evidence of tampering or damage? | | ✓ | |
| d. Was the gate locked? | ✓ | | |
| e. Is there any evidence of human intrusion onto the cover? | | ✓ | |
| f. Is there any evidence of large animal intrusion onto the cover? | | ✓ | |
| g. Have any signs been damaged or removed? (Number of signs replaced: <u>0</u>) | | ✓ | |
| h. Other? | | ✓ | |
| 3. Monuments and other permanent features: | | | |
| a. Have survey markers, boundary monuments, or monitoring stations been disturbed? | | ✓ | |
| b. Do natural processes threaten the integrity of any survey marker, boundary monument or monitoring station? | | ✓ | |
| c. Is there excessive vegetation around the survey markers, boundary monuments, or monitoring stations? | | ✓ | |
| d. Other? | | ✓ | |
| 4. Waste unit cover: | | | |
| a. Is there evidence of settling? | | ✓ | |
| b. Is there evidence of cracking? | | ✓ | |
| c. Is there evidence of erosion (wind or water)? | | ✓ | |
| d. Is there evidence of animal burrowing? | | ✓ | |
| e. Is there vegetation growing on the cover? | | ✓ | |
| g. Other (including trash, debris, etc within fenced area)? | | ✓ | |

CAU 112: AREA 23 HAZARDOUS WASTE TRENCHES, POST-CLOSURE INSPECTION CHECKLIST

E. FIELD CONCLUSIONS

1. Is there an imminent hazard to the integrity of the unit?
(Immediate report required)

| | |
|--|---|
| | ✓ |
|--|---|

Person/Agency to whom report was made:

2. Are more frequent inspections required?

| | |
|--|---|
| | ✓ |
|--|---|

3. Are existing maintenance/repair actions satisfactory?

| | |
|---|--|
| ✓ | |
|---|--|

4. Is other maintenance/repair necessary?

| | |
|--|---|
| | ✓ |
|--|---|

5. Field conclusions/recommendations:

There was no evidence of vegetation on the cover. The signs and fencing were in good condition.

F. CERTIFICATION

I have conducted an inspection of CAU 112, Area 23 Hazardous Waste Trenches, in accordance with the procedures of the Post-Closure Permit (including the Post-Closure Plan) as recorded on this checklist, attached sheets, and field notes.

Chief Inspector's Signature:

Glenn Richardson

Date:

3/23/06

Printed Name:

Glenn Richardson

Title:

Task Manager

CAU 112: AREA 23 HAZARDOUS WASTE TRENCHES, POST-CLOSURE INSPECTION CHECKLIST

| | | |
|--|--|---|
| Inspection Date and Time: 6/20/06 11:05 | Reason for Inspection: Quarterly | |
| Date of Last Post-Closure Inspection: | Reason for Last Post-Closure Inspection: Quarterly | |
| Responsible Agency: Bechtel Nevada Environmental Restoration | | |
| Address: Nevada Test Site, Mercury, Nevada | | |
| Responsible Agency Official: Jeffrey L. Smith, Project Manager | | |
| Chief Inspector: SHAUGHN BURNISON | Title: TECH LEAD | Organization: Environmental Restoration |
| Assistant Inspector: GLENN RICHARDSON | Title: TASK MGR | Organization: Environmental Restoration |

A. GENERAL INSTRUCTIONS

1. All checklist items must be completed and detailed comments made to document the results of the site inspection. The completed checklist is part of the field record of the inspection. Additional pages should be used as necessary to ensure that a complete record is made. Attach the additional pages and number all pages upon completion of the inspection.
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3. The site inspection is a walking inspection of the entire site including the perimeter and sufficient transects to be able to inspect the entire surface and all features specifically described in this checklist.
4. Field notes taken to assist in completion of this checklist will become part of the inspection record. No form is specified for field notes; however, they must be legible and in sufficient detail to enable review by succeeding inspectors and the responsible agency.
5. This unit will be inspected quarterly with formal reporting to the Nevada Division of Environmental Protection to be done annually. The annual report will include an executive summary, this inspection checklist with field notes and photograph log attached, and recommendations and conclusions.

| B. PREPARATION (To be completed prior to site visit) | YES | NO | EXPLANATION |
|--|-----|----|-------------|
| 1. Has the Post-Closure Permit been reviewed? | X | | |
| 2. Have the design basis documents been reviewed? | X | | |
| 3. Have the site as-built plans and site base map been reviewed? | X | | |
| 4. Have the previous inspection reports been reviewed? | X | | |
| a. Were anomalies or trends detected on previous inspections? | | X | |
| b. Was maintenance performed? | | X | |
| 5. Have the site maintenance and repair records been reviewed? | X | | |
| a. Has site repair resulted in a change from as-built conditions? | | X | |
| b. Are revised as-built plans available that reflect repair changes? | | X | N/A |

C. SITE INSPECTION PREPARATION

Assemble the following, as needed, to conduct inspections:

- a. Camera, film, and batteries
- b. Keys to locks
- c. Clipboard
- d. Tape measure
- e. Radio, pager, etc.
- f. Previous Post-Closure Report, Inspection Checklists, repair records, and as-built plans
- g. Other miscellaneous support equipment

Time: 11:05

CAU 112: AREA 23 HAZARDOUS WASTE TRENCHES, POST-CLOSURE INSPECTION CHECKLIST

| D. SITE INSPECTION | YES | NO | EXPLANATION |
|---|-----|----|--|
| 1. Adjacent off-site features: | | | |
| a. Have there been any changes in the use of the adjacent area? | | X | |
| b. Are there any new roads or trails? | | X | |
| c. Has there been any change in the position of nearby washes? | | X | |
| d. Has there been lateral excursion or erosion/deposition of nearby washes? | | X | |
| e. Are there new drainage channels? | | X | |
| f. Has there been a change in the surrounding vegetation? | | X | |
| 2. Access roads, fences, gates, and signs: | | | |
| a. Is there a break in the fence? | | X | |
| b. Have any posts been damaged or their anchoring weakened? | | X | |
| c. Does the gate show evidence of tampering or damage? | | X | |
| d. Was the gate locked? | X | | |
| e. Is there any evidence of human intrusion onto the cover? | | X | |
| f. Is there any evidence of large animal intrusion onto the cover? | | X | |
| g. Have any signs been damaged or removed? (Number of signs replaced: 0) | | X | |
| h. Other? | | X | |
| 3. Monuments and other permanent features: | | | |
| a. Have survey markers, boundary monuments, or monitoring stations been disturbed? | | X | |
| b. Do natural processes threaten the integrity of any survey marker, boundary monument or monitoring station? | | X | |
| c. Is there excessive vegetation around the survey markers, boundary monuments, or monitoring stations? | | X | |
| d. Other? | | X | |
| 4. Waste unit cover: | | | |
| a. Is there evidence of settling? | | X | |
| b. Is there evidence of cracking? | | X | |
| c. Is there evidence of erosion (wind or water)? | | X | |
| d. Is there evidence of animal burrowing? | | X | |
| e. Is there vegetation growing on the cover? | | X | An insignificant amount of vegetation was observed on the cover. |
| g. Other (including trash, debris, etc within fenced area)? | | X | |

CAU 112: AREA 23 HAZARDOUS WASTE TRENCHES, POST-CLOSURE INSPECTION CHECKLIST

E. FIELD CONCLUSIONS

1. Is there an imminent hazard to the integrity of the unit?
(Immediate report required)

| | |
|--|---|
| | X |
|--|---|

Person/Agency to whom report was made:

2. Are more frequent inspections required?

| | |
|--|---|
| | X |
|--|---|

3. Are existing maintenance/repair actions satisfactory?

| | |
|---|--|
| X | |
|---|--|

4. Is other maintenance/repair necessary?

| | |
|--|---|
| | X |
|--|---|

5. Field conclusions/recommendations: No issues - EXCELLENT CONDITION.

No recommendations at this time.

F. CERTIFICATION

I have conducted an inspection of CAU 112, Area 23 Hazardous Waste Trenches, in accordance with the procedures of the Post-Closure Permit (including the Post-Closure Plan) as recorded on this checklist, attached sheets, and field notes.

Chief Inspector's Signature:

Shannon A. Burnison

Date:

6/20/06

Printed Name:

SHANNON A. BURNISON

Title:

FIELD SUPPORT TECH. LEAD

CAU 112: AREA 23 HAZARDOUS WASTE TRENCHES, POST-CLOSURE INSPECTION CHECKLIST

Inspection Date and Time: 9-19-06 12:20 pm

Reason for Inspection: Quarterly

Date of Last Post-Closure Inspection: 6-20-06

Reason for Last Post-Closure Inspection: Quarterly

Responsible Agency: Bechtel Nevada Environmental Restoration

Address: Nevada Test Site, Mercury, Nevada

Responsible Agency Official: Jeffrey L. Smith, Project Manager

Chief Inspector: Shaughn Burnison

Title: Field Tech Lead

Organization: Environmental Restoration

Assistant Inspector: Mike Floyd

Title: Field Tech Lead

Organization: Environmental Restoration

A. GENERAL INSTRUCTIONS

1. All checklist items must be completed and detailed comments made to document the results of the site inspection. The completed checklist is part of the field record of the inspection. Additional pages should be used as necessary to ensure that a complete record is made. Attach the additional pages and number all pages upon completion of the inspection.
2. Any checklist line item marked by an inspector in a SHADED BOX must be fully explained or an appropriate reference to previous reports provided. The purpose of this requirement is to provide a written explanation of inspector observations and the inspector's rationale for conclusions and recommendations. Explanations are to be placed on additional attachments and cross-referenced appropriately. Explanations, in addition to narrative, will take the form of sketches, measurements, and annotated site maps.
3. The site inspection is a walking inspection of the entire site including the perimeter and sufficient transects to be able to inspect the entire surface and all features specifically described in this checklist.
4. Field notes taken to assist in completion of this checklist will become part of the inspection record. No form is specified for field notes; however, they must be legible and in sufficient detail to enable review by succeeding inspectors and the responsible agency.
5. This unit will be inspected quarterly with formal reporting to the Nevada Division of Environmental Protection to be done annually. The annual report will include an executive summary, this inspection checklist with field notes and photograph log attached, and recommendations and conclusions.

B. PREPARATION (To be completed prior to site visit)

YES

NO

EXPLANATION

1. Has the Post-Closure Permit been reviewed?

X

2. Have the design basis documents been reviewed?

X

3. Have the site as-built plans and site base map been reviewed?

X

4. Have the previous inspection reports been reviewed?

X

a. Were anomalies or trends detected on previous inspections?

X

b. Was maintenance performed?

X

5. Have the site maintenance and repair records been reviewed?

X

a. Has site repair resulted in a change from as-built conditions?

X

b. Are revised as-built plans available that reflect repair changes?

X

C. SITE INSPECTION PREPARATION

Assemble the following, as needed, to conduct inspections:

- a. Camera, film, and batteries
- b. Keys to locks
- c. Clipboard
- d. Tape measure
- e. Radio, pager, etc.
- f. Previous Post-Closure Report, Inspection Checklists, repair records, and as-built plans
- g. Other miscellaneous support equipment

CAU 112: AREA 23 HAZARDOUS WASTE TRENCHES, POST-CLOSURE INSPECTION CHECKLIST

| D. SITE INSPECTION | YES | NO | EXPLANATION |
|---|-----|----|-------------|
| 1. Adjacent off-site features: | | | |
| a. Have there been any changes in the use of the adjacent area? | | X | |
| b. Are there any new roads or trails? | | X | |
| c. Has there been any change in the position of nearby washes? | | X | |
| d. Has there been lateral excursion or erosion/deposition of nearby washes? | | X | |
| e. Are there new drainage channels? | | X | |
| f. Has there been a change in the surrounding vegetation? | | X | |
| 2. Access roads, fences, gates, and signs: | | | |
| a. Is there a break in the fence? | | X | |
| b. Have any posts been damaged or their anchoring weakened? | | X | |
| c. Does the gate show evidence of tampering or damage? | | X | |
| d. Was the gate locked? | X | | |
| e. Is there any evidence of human intrusion onto the cover? | | X | |
| f. Is there any evidence of large animal intrusion onto the cover? | | X | |
| g. Have any signs been damaged or removed? (Number of signs replaced: 0) | | X | |
| h. Other? | | X | |
| 3. Monuments and other permanent features: | | | |
| a. Have survey markers, boundary monuments, or monitoring stations been disturbed? | | X | |
| b. Do natural processes threaten the integrity of any survey marker, boundary monument or monitoring station? | | X | |
| c. Is there excessive vegetation around the survey markers, boundary monuments, or monitoring stations? | | X | |
| d. Other? | | X | |
| 4. Waste unit cover: | | | |
| a. Is there evidence of settling? | | X | |
| b. Is there evidence of cracking? | | X | |
| c. Is there evidence of erosion (wind or water)? | | X | |
| d. Is there evidence of animal burrowing? | | X | |
| e. Is there vegetation growing on the cover? | | X | |
| g. Other (including trash, debris, etc within fenced area)? | | X | |

CAU 112: AREA 23 HAZARDOUS WASTE TRENCHES, POST-CLOSURE INSPECTION CHECKLIST

E. FIELD CONCLUSIONS

1. Is there an imminent hazard to the integrity of the unit?
(Immediate report required)

| | |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|--------------------------|-------------------------------------|

Person/Agency to whom report was made:

2. Are more frequent inspections required?

| | |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|--------------------------|-------------------------------------|

3. Are existing maintenance/repair actions satisfactory?

| | |
|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
|-------------------------------------|--------------------------|

4. Is other maintenance/repair necessary?

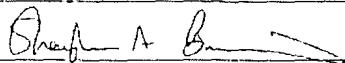
| | |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|--------------------------|-------------------------------------|

5. Field conclusions/recommendations: This site is in great condition. The monuments were upright and no cracks were seen. The fence, signs, and cover need no repairs and no issues were identified.

F. CERTIFICATION

I have conducted an inspection of CAU 112, Area 23 Hazardous Waste Trenches, in accordance with the procedures of the Post-Closure Permit (including the Post-Closure Plan) as recorded on this checklist, attached sheets, and field notes.

Chief Inspector's Signature:



Date: 9/19/2006

Printed Name:

SHAUGHN A. BURNISON

Title:

FIELD SUPPORT TECH LEAD