# Use Attainability Analysis

for

WBID 0863 Little Shaver Creek

Submitted by
Tetra Tech, Inc

To
Missouri Department of Natural Resources
Water Protection Program

## Field Data Sheets for Recreational Use Stream Surveys

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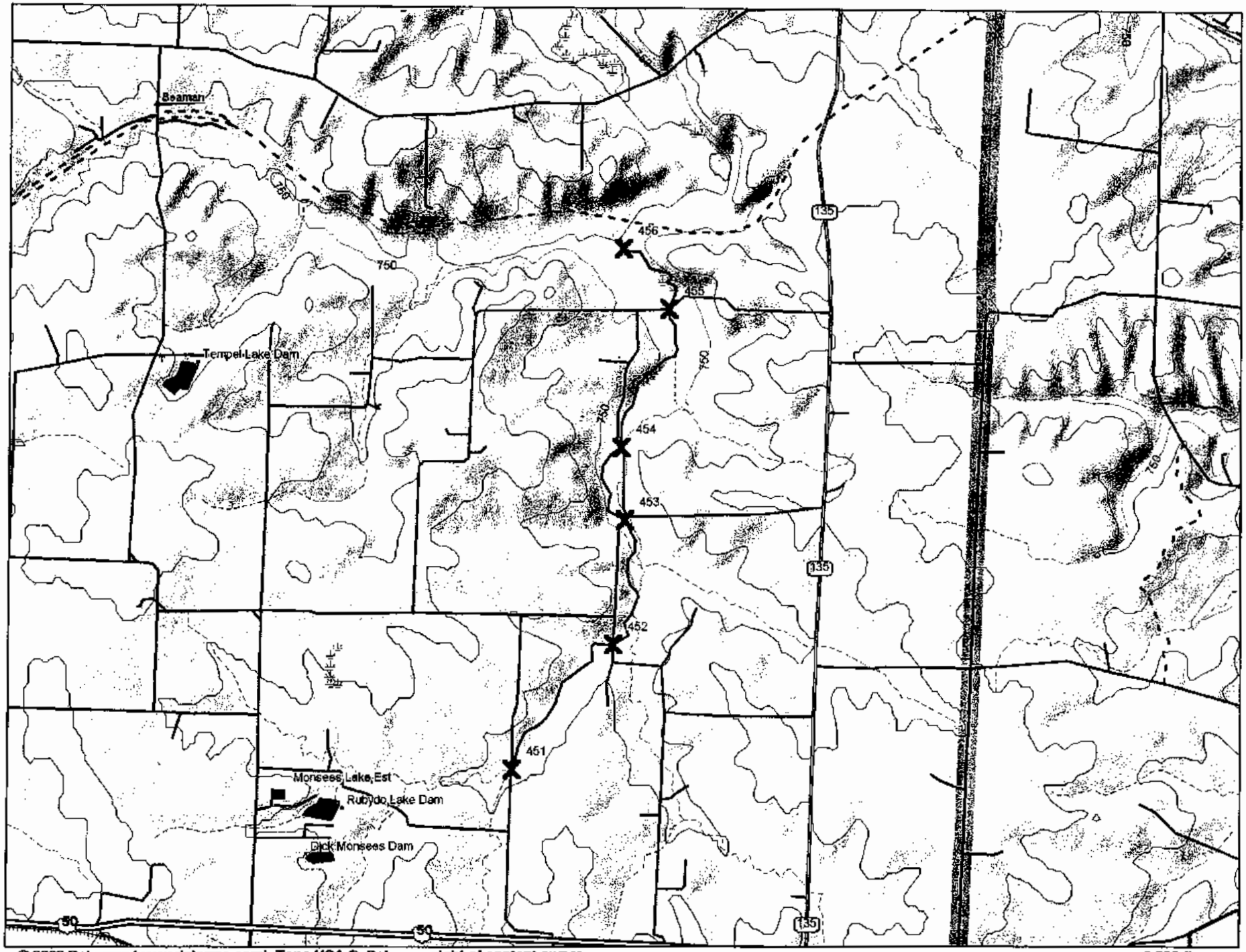
### Data Sheet A - Water Body Identification

| | |
|---|---|
| Water Body Name: (from USGS 7.5' quad) | L. Shaver Cr. |
| 8-digit HUC: | 10300103 |
| Missouri WBID #: | 0863 |
| County: | Pettis |
| Upstream Legal Description: | |
| Downstream Legal Description: | |
| Upstream Coordinates: (UGS 84, ddd.ddddd) | 38.70674N 093.10142W |
| Downstream Coordinates: (UGS 84, ddd.ddddd) | 38.75427 N 093.09190W |
| Discharger Facility Name(s): | Monsees Lake Est |
| Discharger Permit Number(s): | |
| Number of Sites Evaluated: | 6, 451, 452, 453, 454, 455, 456 |
| Name of Surveyor and Telephone Number: | Adam Rettig |
| Organization: | Tetra tech |
| Position: | Field Scientist, Team Leader |

**I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.**

**Signed:** Adam Rettig **Date:** 6/29/05

L. Shaver Ck.

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Scale: 1 : 40,625 Map Rotation: 0° Magnetic Declination: 2.4°E

3,000 ft

## Field Data Sheets for Recreational Use Stream Surveys

### Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

| | | | |
|---|---|---|---|
| Missouri WBID #: 0863 (451) | | Site Location Description: EY 6/29/05 Monsees Rd @ low water crossing | |
| Site GPS Coordinates: 38.70674N 093 10142W | | | |
| Date & Time: 06/29/2005 1000 | | Facility Name: Monsees Lake Est | |
| Personnel: AR EY | | Permit Number: | |
| Current Weather Conditions: Hot Clear | | Weather Conditions for Past 7 days: | |
| Photo Ids: Upstream: 31AA | Downstream: 30AA | Other: | |

**Uses Observed*:**

| | | | | |
|---|---|---|---|---|
| ☐ Swimming | ☐ Skin diving | ☐ SCUBA diving | ☐ Tubing | ☐ Water skiing |
| ☐ Wind surfing | ☐ Kayaking | ☐ Boating | ☐ Wading | ☐ Rafting |
| ☐ Hunting | ☐ Trapping | ☐ Fishing | ☒ None of the above | ☐ Other: |
| Describe: (include number of individuals recreating, frequency of use, photo-documentation of evidence of recreational uses, etc.) | | | | |

**Surrounding Conditions*:** (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)

| | | | | |
|---|---|---|---|---|
| ☐ City/county parks | ☐ Playgrounds | ☐ MDC conservation lands | ☐ Urban areas | ☐ Campgrounds |
| ☐ Boating accesses | ☐ State parks | ☐ National forests | ☐ Nature trails | ☐ Stairs/walkway |
| ☐ No trespass sign | ☐ Fence | ☐ Steep slopes | ☐ Other: | |

**Evidence of Human Use*:**

| | | | | |
|---|---|---|---|---|
| ☒ Roads | ☐ Foot paths/prints | ☐ Dock/platform | ☐ Livestock Watering | ☐ RV / ATV Tracks |
| ☐ Rope swings | ☐ Camping Sites | ☐ Fire pit/ring | ☐ NPDES Discharge | ☐ Fishing Tackle |
| ☐ Other: | | | | |

**Site Locations Map(s):** Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

*Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

AR 6/29/05

**Page Two – Data Sheet B for WBID #** 8306 : (451)

**Stream Morphology:**

**Upstream View Physical Dimensions:**

| | | | | |
|---|---|---|---|---|
| ☐ Riffle | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| ☐ Run | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| ☒ Pool | Width (ft): 3m | Length (ft): 7m | Avg. Depth (ft): 0.3m | Max. Depth (ft): 0.45m |
| ☒ Flow | Present? ☐ Yes ☒ No | | Estimated ($ft^3$/sec): | |

**Downstream View Physical Dimensions:**

| | | | | |
|---|---|---|---|---|
| ☐ Riffle | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| ☐ Run | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| ☐ Pool | Width (ft): 19m | Length (ft): 2m | Avg. Depth (ft): 0.5m | Max. Depth (ft): 0.8m |
| ☒ Flow | Present? ☐ Yes ☒ No | | Estimated ($ft^3$/sec): | |

**Substrate*:** (These values should add up to 100%.)

| % Cobble | % Gravel | % Sand | % Silt | % Mud/Clay | % Bedrock |
|---|---|---|---|---|---|
| 80 | 10 | | | 10 | |

**Aquatic Vegetation*:** (note amount of vegetation or algal growth at the assessment site)

Seagrass

**Water Characteristics*:** (Mark all that apply.)

| | | | | | |
|---|---|---|---|---|---|
| Odor: | ☐ Sewage | ☐ Musky | ☐ Chemical | ☒ None | ☐ Other: |
| Color: | ☐ Clear | ☒ Green | ☐ Gray | ☐ Milky | ☒ Other: Brown |
| Bottom Deposit: | ☐ Sludge | ☐ Solids | ☒ Fine sediments | ☐ None | ☐ Other: |
| Surface Deposit: | ☒ Oil | ☐ Scum | ☐ Foam | ☐ None | ☐ Other: |

**Comments:** Please attach additional comments (including information from interviews) to this form.

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**I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.**

**Signed:** _____ **Date:** 6/29/05

Organization: _____ Position: SCT I

QC OK EJY 6/29/2005

0863_451_us_L.ShaverCreek

0863_451_ds_L.ShaverCreek

## Field Data Sheets for Recreational Use Stream Surveys

### Data Sheet B - Site Characterization
(A separate data sheet must be completed for each site)

| | | |
|---|---|---|
| Missouri WBID #: 0863 (452) | | Site Location Description: Boonville Rd @ low water crossing |
| Site GPS Coordinates: 38.71481N 093.09201W | | |
| Date & Time: 6/29/2005 1020 | | Facility Name: Monsees Lake Est |
| Personnel: AR EY | | Permit Number: |
| Current Weather Conditions: Hot Clear | | Weather Conditions for Past 7 days: |
| Photo Ids: Upstream: 33AA | Downstream: 32AA | Other: |

**Uses Observed*:**

| | | | | |
|---|---|---|---|---|
| ☐ Swimming | ☐ Skin diving | ☐ SCUBA diving | ☐ Tubing | ☐ Water skiing |
| ☐ Wind surfing | ☐ Kayaking | ☐ Boating | ☐ Wading | ☐ Rafting |
| ☐ Hunting | ☐ Trapping | ☐ Fishing | ☒ None of the above | ☐ Other: |

Describe: (include number of individuals recreating, frequency of use, photo-documentation of evidence of recreational uses, etc.)

**Surrounding Conditions*:** (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)

| | | | | |
|---|---|---|---|---|
| ☐ City/county parks | ☐ Playgrounds | ☐ MDC conservation lands | ☐ Urban areas | ☐ Campgrounds |
| ☐ Boating accesses | ☐ State parks | ☐ National forests | ☐ Nature trails | ☐ Stairs/walkway |
| ☐ No trespass sign | ☒ Fence | ☐ Steep slopes | ☐ Other: | |

**Evidence of Human Use*:**

| | | | | |
|---|---|---|---|---|
| ☒ Roads | ☐ Foot paths/prints | ☐ Dock/platform | ☐ Livestock Watering | ☐ RV / ATV Tracks |
| ☐ Rope swings | ☐ Camping Sites | ☐ Fire pit/ring | ☐ NPDES Discharge | ☐ Fishing Tackle |
| ☐ Other: | | | | |

**Site Locations Map(s):** Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

*Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

AR

**Page Two – Data Sheet B for WBID #** 0863 : (452)

**Stream Morphology:**

**Upstream View Physical Dimensions:**

| | | | | |
|---|---|---|---|---|
| ☐ Riffle | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| ☐ Run | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): 6-29-2005 ~~.02m~~ EY |
| ☐ Pool | Width (ft): 3m | Length (ft): 2m | Avg. Depth (ft): .01m | Max. Depth (ft): .02m |
| ☒ Flow | Present? ☐ Yes | ☒ No | Estimated (ft³/sec): | |

**Downstream View Physical Dimensions:**

| | | | | |
|---|---|---|---|---|
| ☐ Riffle | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| ☐ Run | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| ☒ Pool | Width (ft): NA dry | Length (ft): 5m | Avg. Depth (ft): 0m | Max. Depth (ft): 0m |
| ☐ Flow | Present? ☐ Yes | ☒ No | Estimated (ft³/sec): | |

**Substrate*:** (These values should add up to 100%.)

| % Cobble | % Gravel | % Sand | % Silt | % Mud/Clay | % Bedrock |
|---|---|---|---|---|---|
| 10 | | | | 90 | |

**Aquatic Vegetation*:** (note amount of vegetation or algal growth at the assessment site)

Algae

**Water Characteristics*:** (Mark all that apply.)

| | | | | | |
|---|---|---|---|---|---|
| Odor: | ☐ Sewage | ☐ Musky | ☐ Chemical | ☒ None | ☐ Other: |
| Color: | ☐ Clear | ☒ Green | ☐ Gray | ☐ Milky | ☒ Other: Brown |
| Bottom Deposit: | ☐ Sludge | ☐ Solids | ☐ Fine sediments | ☒ None | ☐ Other: |
| Surface Deposit: | ☐ Oil | ☐ Scum | ☒ Foam | ☐ None | ☐ Other: |

**Comments:** Please attach additional comments (including information from interviews) to this form.

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**I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.**

**Signed:** Adam Kelly **Date:** 6/29/05

Organization: Tt **Position:** SCI. I.

QC OK EJY 6/29/2005

0863_452_us_L.ShaverCreek

0863_452_ds_L.ShaverCreek

## Field Data Sheets for Recreational Use Stream Surveys

### Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

| | | |
|---|---|---|
| Missouri WBID #: 0803 (453) | | Site Location Description: Boonville Rd @ bridge |
| Site GPS Coordinates: 38.71434 N 093.09195 W | | |
| Date & Time: 6/29/2005 1019 | | Facility Name: Monsees Lake Est |
| Personnel: AR EY | | Permit Number: |
| Current Weather Conditions: Hot Clear | | Weather Conditions for Past 7 days: |
| Photo Ids: Upstream: 35AA | Downstream: 34AA | Other: 36AA |

**Uses Observed*:**

| | | | | |
|---|---|---|---|---|
| ☐ Swimming | ☐ Skin diving | ☐ SCUBA diving | ☐ Tubing | ☐ Water skiing |
| ☐ Wind surfing | ☐ Kayaking | ☐ Boating | ☐ Wading | ☐ Rafting |
| ☐ Hunting | ☐ Trapping | ☐ Fishing | ☒ None of the above | ☐ Other: |

Describe: (include number of individuals recreating, frequency of use, photo-documentation of evidence of recreational uses, etc.)

**Surrounding Conditions*:** (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)

| | | | | |
|---|---|---|---|---|
| ☐ City/county parks | ☐ Playgrounds | ☐ MDC conservation lands | ☐ Urban areas | ☐ Campgrounds |
| ☐ Boating accesses | ☐ State parks | ☐ National forests | ☐ Nature trails | ☐ Stairs/walkway |
| ☐ No trespass sign | ☒ Fence | ☒ Steep slopes | ☐ Other: | |

**Evidence of Human Use*:**

| | | | | |
|---|---|---|---|---|
| ☒ Roads | ☐ Foot paths/prints | ☐ Dock/platform | ☐ Livestock Watering | ☐ RV / ATV Tracks |
| ☐ Rope swings | ☐ Camping Sites | ☐ Fire pit/ring | ☐ NPDES Discharge | ☐ Fishing Tackle |
| ☐ Other: | | | | |

**Site Locations Map(s):** Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

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**Page Two – Data Sheet B for WBID #** 0863 : (453)

**Stream Morphology:**

**Upstream View Physical Dimensions:**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| ☐ Riffle | Width (ft): | | Length (ft): | | Avg. Depth (ft): | | Max. Depth (ft): | |
| ☐ Run | Width (ft): | | Length (ft): | | Avg. Depth (ft): | | Max. Depth (ft): | |
| ☒ Pool | Width (ft): | 15m | Length (ft): | 20m | Avg. Depth (ft): | 0.4m | Max. Depth (ft): | 0.55m |
| ☒ Flow | Present? | ☐ Yes | ☒ No | | Estimated ($ft^3$/sec): | | | |

**Downstream View Physical Dimensions:**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| ☐ Riffle | Width (ft): | | Length (ft): | | Avg. Depth (ft): | | Max. Depth (ft): | |
| ☐ Run | Width (ft): | | Length (ft): | | Avg. Depth (ft): | | Max. Depth (ft): | |
| ☒ Pool | Width (ft): | 16m | Length (ft): | 15m | Avg. Depth (ft): | 0.4m | Max. Depth (ft): | 0.7m |
| ☐ Flow | Present? | ☐ Yes | ☐ No | | Estimated ($ft^3$/sec): | | | |

**Substrate*:** (These values should add up to 100%.)

| % Cobble | % Gravel | % Sand | % Silt | % Mud/Clay | % Bedrock |
|---|---|---|---|---|---|
| 90 | | 5 | | 5 | |

**Aquatic Vegetation*:** (note amount of vegetation or algal growth at the assessment site)

NO

**Water Characteristics*:** (Mark all that apply.)

| | | | | | |
|---|---|---|---|---|---|
| Odor: | ☐ Sewage | ☐ Musky | ☐ Chemical | ☒ None | ☐ Other: |
| Color: | ☐ Clear | ☐ Green | ☐ Gray | ☒ Milky | ☒ Other: Brown |
| Bottom Deposit: | ☐ Sludge | ☐ Solids | ☒ Fine sediments | ☐ None | ☐ Other: |
| Surface Deposit: | ☐ Oil | ☐ Scum | ☒ Foam | ☐ None | ☐ Other: |

**Comments:** Please attach additional comments (including information from interviews) to this form.

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**I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.**

**Signed:** Adam Kelly **Date:** 06/29/05

Organization: FT **Position:** SCI. I

QC: 6/29/2005 EJY

0863_453_us_L.ShaverCreek

0863_453_ds_L.ShaverCreek

0863_453_L.ShaverCreek_BarbwireFence

## Field Data Sheets for Recreational Use Stream Surveys

### Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

| | | | |
|---|---|---|---|
| Missouri WBID #: 0863 (~~453~~ 454) 6-29-2005 | | Site Location Description: Limestone Valley Rd @ Low water crossing | |
| Site GPS Coordinates: 38.72901N 093.09140W | | | |
| Date & Time: 6/29/2005 1104 | | Facility Name: Monsees Lake Est | |
| Personnel: AR EY | | Permit Number: | |
| Current Weather Conditions: Hot Clear | | Weather Conditions for Past 7 days: | |
| Photo Ids: Upstream: 38AA | Downstream: 37AA | Other: ATV 39AA | |

**Uses Observed*:**

| | | | | |
|---|---|---|---|---|
| ☐ Swimming | ☐ Skin diving | ☐ SCUBA diving | ☐ Tubing | ☐ Water skiing |
| ☐ Wind surfing | ☐ Kayaking | ☐ Boating | ☐ Wading | ☐ Rafting |
| ☐ Hunting | ☐ Trapping | ☐ Fishing | ☒ None of the above | ☐ Other: |
| Describe: (include number of individuals recreating, frequency of use, photo-documentation of evidence of recreational uses, etc.) | | | | |

**Surrounding Conditions*:** (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)

| | | | | |
|---|---|---|---|---|
| ☐ City/county parks | ☐ Playgrounds | ☐ MDC conservation lands | ☐ Urban areas | ☐ Campgrounds |
| ☐ Boating accesses | ☐ State parks | ☐ National forests | ☐ Nature trails | ☐ Stairs/walkway |
| ☐ No trespass sign | ☐ Fence | ☐ Steep slopes | ☐ Other: | |

**Evidence of Human Use*:**

| | | | | |
|---|---|---|---|---|
| ☒ Roads | ☐ Foot paths/prints | ☐ Dock/platform | ☐ Livestock Watering | ☒ RV / ATV Tracks |
| ☐ Rope swings | ☐ Camping Sites | ☐ Fire pit/ring | ☐ NPDES Discharge | ☐ Fishing Tackle |
| ☐ Other: | | | | |

**Site Locations Map(s):** Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

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AR 6-29-05

**Page Two – Data Sheet B for WBID #** 0863 : ~~453~~ EY (454) 6-29-2005

**Stream Morphology:**

**Upstream View Physical Dimensions:**

| | | | | |
|---|---|---|---|---|
| ☐ Riffle | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| ☐ Run | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| ☐ Pool | Width (ft): 10m | Length (ft): 30m | Avg. Depth (ft): 0.30m | Max. Depth (ft): ~~45~~ EY 6-29-2005 .45m |
| ☐ Flow | Present? ☐ Yes ☐ No | | Estimated ($ft^3$/sec): | |

**Downstream View Physical Dimensions:**

| | | | | |
|---|---|---|---|---|
| ☐ Riffle | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| ☐ Run | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| ☒ Pool | Width (ft): 8.2m | Length (ft): 30m | Avg. Depth (ft): 0.3m | Max. Depth (ft): 0.55m |
| ☒ Flow | Present? ☐ Yes ☒ No | | Estimated ($ft^3$/sec): | |

**Substrate*:** (These values should add up to 100%.)

| | | | | | | |
|---|---|---|---|---|---|---|
| 30 % Cobble | 50 % Gravel | % Sand | % Silt | % Mud/Clay | 20 % Bedrock |

**Aquatic Vegetation*:** (note amount of vegetation or algal growth at the assessment site)

Water Willow

**Water Characteristics*:** (Mark all that apply.)

| | | | | | |
|---|---|---|---|---|---|
| Odor: | ☐ Sewage | ☐ Musky | ☐ Chemical | ☒ None | ☐ Other: |
| Color: | ☒ Clear | ☐ Green | ☐ Gray | ☐ Milky | ☐ Other: |
| Bottom Deposit: | ☐ Sludge | ☐ Solids | ☐ Fine sediments | ☒ None | ☐ Other: |
| Surface Deposit: | ☐ Oil | ☐ Scum | ☐ Foam | ☒ None | ☐ Other: |

**Comments:** Please attach additional comments (including information from interviews) to this form.

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**I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.**

**Signed:** Adam Hitt **Date:** 6/29/05

**Organization:** FT **Position:** SCI. I.

QC: 6/29/2005 EJG

0863_454_us_L.ShaverCreek

0863_454_us_L.ShhaverCreek

0863_454_ds_L.ShaverCreek

0863_454_LowWaterCrossing

## Field Data Sheets for Recreational Use Stream Surveys

### Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

| | | |
|---|---|---|
| Missouri WBID #: 0863 (455) | | Site Location Description: Providence Rd @ low water crossing |
| Site GPS Coordinates: 38.73894N 093.08693 | | |
| Date & Time: 6\29\2005 1115 | | Facility Name: Monsees Lake East |
| Personnel: AR EY | | Permit Number: |
| Current Weather Conditions: Hot Clear | | Weather Conditions for Past 7 days: |
| Photo Ids: Upstream: 40AA | Downstream: 41AA | Other: 42AA Fishing line |

**Uses Observed*:**

| | | | | |
|---|---|---|---|---|
| ☐ Swimming | ☐ Skin diving | ☐ SCUBA diving | ☐ Tubing | ☐ Water skiing |
| ☐ Wind surfing | ☐ Kayaking | ☐ Boating | ☐ Wading | ☐ Rafting |
| ☐ Hunting | ☐ Trapping | ☐ Fishing | ☒ None of the above | ☐ Other: |

Describe: (include number of individuals recreating, frequency of use, photo-documentation of evidence of recreational uses, etc.)

**Surrounding Conditions*:** (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)

| | | | | |
|---|---|---|---|---|
| ☐ City/county parks | ☐ Playgrounds | ☐ MDC conservation lands | ☐ Urban areas | ☐ Campgrounds |
| ☐ Boating accesses | ☐ State parks | ☐ National forests | ☐ Nature trails | ☐ Stairs/walkway |
| ☐ No trespass sign | ☐ Fence | ☐ Steep slopes | ☐ Other: | |

**Evidence of Human Use*:**

| | | | | |
|---|---|---|---|---|
| ☒ Roads | ☐ Foot paths/prints | ☐ Dock/platform | ☐ Livestock Watering | ☐ RV / ATV Tracks |
| ☐ Rope swings | ☐ Camping Sites | ☐ Fire pit/ring | ☐ NPDES Discharge | ☒ Fishing Tackle |
| ☒ Other: Fireworks (Picture 43AA) | | | | |

**Site Locations Map(s):** Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

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6-29-05

**Page Two – Data Sheet B for WBID # 0863 : 455**

**Stream Morphology:**

**Upstream View Physical Dimensions:**

| | | | | |
|---|---|---|---|---|
| ☐ Riffle | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| ☐ Run | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| ☒ Pool | Width (ft): 15m | Length (ft): 15m | Avg. Depth (ft): 0.45m | Max. Depth (ft): 0.7m |
| ☒ Flow | Present? ☐ Yes ☒ No | | Estimated ($ft^3$/sec): | |

**Downstream View Physical Dimensions:**

| | | | | |
|---|---|---|---|---|
| ☐ Riffle | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| ☐ Run | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| ☒ Pool | Width (ft): 20m | Length (ft): 2m | Avg. Depth (ft): 0.6m | Max. Depth (ft): 0.8m |
| ☒ Flow | Present? ☐ Yes ☒ No | | Estimated ($ft^3$/sec): | |

**Substrate*:** (These values should add up to 100%.) boulder ~~Cobble~~ EY 6-29-05 EY

| | | | | | | |
|---|---|---|---|---|---|---|
| EY +0 30% Cobble | 30 % Gravel | 30 % Sand | % Silt | % Mud/Clay | 10 ~~% Bedrock~~ | EY |

**Aquatic Vegetation*:** (note amount of vegetation or algal growth at the assessment site)

Smart weed

**Water Characteristics*:** (Mark all that apply.)

| | | | | | |
|---|---|---|---|---|---|
| Odor: | ☐ Sewage | ☐ Musky | ☐ Chemical | ☒ None | ☐ Other: |
| Color: | ☐ Clear | ☐ Green | ☐ Gray | ☒ Milky | ☒ Other: Brown |
| Bottom Deposit: | ☐ Sludge | ☐ Solids | ☐ Fine sediments | ☐ None | ☐ Other: |
| Surface Deposit: | ☐ Oil | ☒ Scum | ☒ Foam | ☐ None | ☐ Other: |

**Comments:** Please attach additional comments (including information from interviews) to this form.

*This information is not to be used solely for removal of a recreational use designation but rather is to provide a more comprehensive understanding of water conditions. Consequently, this information is not intended to directly influence a decision on the recreation use analysis but may point to conditions that need further analysis or that effect another use.

**I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.**

**Signed:** _____ **Date:** 6/29/05

Organization: FE **Position:** Sci. I.

QC: Edy 6/29/2005

0863_455_us_L.ShaverCreek

0863_455_ds_L.ShaverCreek

0863_455_L.ShaverCreek_Fireworks

0863_455_L.ShaverCreek_NoTresspassingSign

0863_455_L.ShaverCreek_fence

0863_455_L.ShaverCreek_MowedPath

## Field Data Sheets for Recreational Use Stream Surveys

### Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

| | |
|---|---|
| Missouri WBID #: 0863 (456) | Site Location Description: |
| Site GPS Coordinates: 38.75427 N 093.09190 W | HH @ Bridge |
| Date & Time: 6/29/2005 1139 | Facility Name: Morgees Lake Est |
| Personnel: AR EY | Permit Number: |
| Current Weather Conditions: Hot Clear | Weather Conditions for Past 7 days: |
| Photo Ids: Upstream: ~~EY 06~~ 46 AA 6-29-2005 | Downstream: 45AA |
| Other: 47AA electric fence, 44AA mowed path | |

F 52 H

**Uses Observed*:**

| | | | | |
|---|---|---|---|---|
| ☐ Swimming | ☐ Skin diving | ☐ SCUBA diving | ☐ Tubing | ☐ Water skiing |
| ☐ Wind surfing | ☐ Kayaking | ☐ Boating | ☐ Wading | ☐ Rafting |
| ☐ Hunting | ☐ Trapping | ☐ Fishing | ☒ None of the above | ☐ Other: |

Describe: (include number of individuals recreating, frequency of use, photo-documentation of evidence of recreational uses, etc.)

**Surrounding Conditions*:** (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)

| | | | | |
|---|---|---|---|---|
| ☐ City/county parks | ☐ Playgrounds | ☐ MDC conservation lands | ☐ Urban areas | ☐ Campgrounds |
| ☐ Boating accesses | ☐ State parks | ☐ National forests | ☐ Nature trails | ☐ Stairs/walkway |
| ☒ No trespass sign (48AA) | ☒ Fence | ☐ Steep slopes | ☐ Other: | |

**Evidence of Human Use*:**

| | | | | |
|---|---|---|---|---|
| ☐ Roads | ☒ Foot paths/prints | ☐ Dock/platform | ☐ Livestock Watering | ☐ RV / ATV Tracks |
| ☐ Rope swings | ☐ Camping Sites | ☐ Fire pit/ring | ☐ NPDES Discharge | ☐ Fishing Tackle |
| ☐ Other: | | | | |

**Site Locations Map(s):** Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

*Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

AR 6-29-05

**Page Two – Data Sheet B for WBID #** 0863 **:** (456)

**Stream Morphology:**

**Upstream View Physical Dimensions:**

| | | | | |
|---|---|---|---|---|
| ☐ Riffle | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| ☐ Run | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| ☒ Pool | Width (ft): 26 m | Length (ft): 2 m | Avg. Depth (ft): 1 m | Max. Depth (ft): 7 1m (1.1m) |
| ☒ Flow | Present? ☐ Yes ☒ No | | Estimated ($ft^3$/sec): | |

**Downstream View Physical Dimensions:**

| | | | | |
|---|---|---|---|---|
| ☐ Riffle | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| ☐ Run | Width (ft): 6-29-2005 | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| ☒ Pool | Width (ft): ~~26 m~~ 14 m | Length (ft): 2 m | Avg. Depth (ft): 1 m | Max. Depth (ft): 7 1m (1.2m) |
| ☒ Flow | Present? ☐ Yes ☒ No | | Estimated ($ft^3$/sec): | |

**Substrate*:** (These values should add up to 100%.)

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| % Cobble | 50 | % Gravel | | % Sand | 25 | % Silt | 25 | % Mud/Clay | % Bedrock |

**Aquatic Vegetation*:** (note amount of vegetation or algal growth at the assessment site)

No

**Water Characteristics*:** (Mark all that apply.)

| | | | | | |
|---|---|---|---|---|---|
| Odor: | ☐ Sewage | ☐ Musky | ☐ Chemical | ☒ None | ☐ Other: |
| Color: | ☐ Clear | ☐ Green | ☐ Gray | ☒ Milky | ☒ Other: Brown |
| Bottom Deposit: | ☐ Sludge | ☐ Solids | ☒ Fine sediments | ☐ None | ☐ Other: |
| Surface Deposit: | ☐ Oil | ☐ Scum | ☐ Foam | ☒ None | ☐ Other: |

**Comments:** Please attach additional comments (including information from interviews) to this form.

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**I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.**

**Signed:** Adam Petty **Date:** ~~6/29~~ AR 6-29-2005 6/29/05

**Organization:** JE **Position:** SCI. I.

QC OK EJG 6/29/2005

0863_456_us_L.ShaverCreek

0863_456_ds_L.ShaverCreek

# RE-VISIT SITES

RECEIVED
2005 JUL 14 PM 2:49
WATER PROTECTION PROGRAM

## Field Data Sheets for Recreational Use Stream Surveys

### Data Sheet A - Water Body Identification

| | |
|---|---|
| Water Body Name: (from USGS 7.5' quad) | Little Shaw Creek |
| 8-digit HUC: | 10300103 |
| Missouri WBID #: | 0863 |
| County: | Pettis |
| Upstream Legal Description: | |
| Downstream Legal Description: | |
| Upstream Coordinates: (UGS 84, ddd.ddddd) | N 38.70664 W93.10150 |
| Downstream Coordinates: (UGS 84, ddd.ddddd) | N 38.74519 W 93.09000 |
| Discharger Facility Name(s): | Monsees Lake Est |
| Discharger Permit Number(s): | |
| Number of Sites Evaluated: | 6 |
| Name of Surveyor and Telephone Number: | JB 410-356-8993 |
| Organization: | Tetra Tech |
| Position: | Scientist |

**I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.**

**Signed:**_____ **Date:** _____

## Field Data Sheets for Recreational Use Stream Surveys

### Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

| | | |
|---|---|---|
| Missouri WBID #: 456 (0863) | | Site Location Description: AT KATY TRAIL CROSSING. |
| Site GPS Coordinates: N38.74619 W093.09000 | | |
| Date & Time: 07/02/05 1618 | | Facility Name: Monsees Lake Estates |
| Personnel: CD, SP | | Permit Number: |
| Current Weather Conditions: 92°F, SUNNY | | Weather Conditions for Past 7 days: |
| Photo Ids: Upstream: 2101 | Downstream: 2100 | Other: 2102 - Access point on KATY TRAIL |

**Uses Observed*:**

| | | | | |
|---|---|---|---|---|
| ☐ Swimming | ☐ Skin diving | ☐ SCUBA diving | ☐ Tubing | ☐ Water skiing |
| ☐ Wind surfing | ☐ Kayaking | ☐ Boating | ☐ Wading | ☐ Rafting |
| ☐ Hunting | ☐ Trapping | ☐ Fishing | ☑ None of the above | ☐ Other: |

Describe: (include number of individuals recreating, frequency of use, photo-documentation of evidence of recreational uses, etc.)

**Surrounding Conditions*:** (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)

| | | | | |
|---|---|---|---|---|
| ☑ City/county parks | ☐ Playgrounds | ☐ MDC conservation lands | ☐ Urban areas | ☐ Campgrounds |
| ☐ Boating accesses | ☐ State parks | ☐ National forests | ☐ Nature trails | ☐ Stairs/walkway |
| ☐ No trespass sign | ☐ Fence | ☑ Steep slopes | ☑ Other: FOREST | |

**Evidence of Human Use*:**

| | | | | |
|---|---|---|---|---|
| ☐ Roads | ☐ Foot paths/prints | ☐ Dock/platform | ☐ Livestock Watering | ☐ RV / ATV Tracks |
| ☐ Rope swings | ☐ Camping Sites | ☐ Fire pit/ring | ☐ NPDES Discharge | ☐ Fishing Tackle |
| ☐ Other: | | | | |

**Site Locations Map(s):** Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

*Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

JOB 7/8/05

**Page Two – Data Sheet B for WBID #** 456 (0863):

**Stream Morphology:**

**Upstream View Physical Dimensions:** VISUAL ESTIMATE

| | | | | | |
|---|---|---|---|---|---|
| ☐ Riffle | Width (ft): | | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| ☐ Run | Width (ft): | | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| ☑ Pool | Width (ft): | 16m | Length (ft): 20m | Avg. Depth (ft): | Max. Depth (ft): >1m |
| ☑ Flow | Present? | ☐ Yes | ☑ No | Estimated ($ft^3$/sec): | |

**Downstream View Physical Dimensions:** VISUAL ESTIMATE

| | | | | | |
|---|---|---|---|---|---|
| ☐ Riffle | Width (ft): | | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| ☐ Run | Width (ft): | | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| ☑ Pool | Width (ft): | 17m | Length (ft): 20m | Avg. Depth (ft): | Max. Depth (ft): >1m |
| ☑ Flow | Present? | ☐ Yes | ☑ No | Estimated ($ft^3$/sec): | |

**Substrate*:** (These values should add up to 100%.) VISUAL ESTIMATE

| % Cobble | % Gravel | % Sand | % Silt | % Mud/Clay | % Bedrock |
|---|---|---|---|---|---|
| 20 | 60 | 10 | | 10 | |

**Aquatic Vegetation*:** (note amount of vegetation or algal growth at the assessment site)

NONE

**Water Characteristics*:** (Mark all that apply.)

| | | | | | |
|---|---|---|---|---|---|
| Odor: | ☐ Sewage | ☐ Musky | ☐ Chemical | ☑ None | ☐ Other: |
| Color: | ☐ Clear | ☑ Green | ☐ Gray | ☐ Milky | ☐ Other: |
| Bottom Deposit: | ☐ Sludge | ☐ Solids | ☑ Fine sediments | ☐ None | ☐ Other: |
| Surface Deposit: | ☐ Oil | ☐ Scum | ☐ Foam | ☑ None | ☐ Other: |

**Comments:** Please attach additional comments (including information from interviews) to this form.

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**I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.**

**Signed:** _____ **Date:** 07/08/05

**Organization:** TETRA TECH INC. **Position:** ASSOCIATE SCIENTIST

JSB 7/8/05

0863_455R-US

0863_455R-DS

0863_455R-ACCESS-POINT-ON-KATY-TRAIL

## Field Data Sheets for Recreational Use Stream Surveys

### Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

| | |
|---|---|
| Missouri WBID #: 455 (0863) | Site Location Description: AT PROVIDENCE RD CROSSING East of 135 |
| Site GPS Coordinates: N 38.73870 W093.08707 | |
| Date & Time: 07/08/05 1545 | Facility Name: Monsees Lake Estates |
| Personnel: CB, SB | Permit Number: |
| Current Weather Conditions: 92°F, SUNNY | Weather Conditions for Past 7 days: |
| Photo Ids: Upstream: 2098 / Downstream: 2099 | Other: |

**Uses Observed*:**

| | | | | |
|---|---|---|---|---|
| ☐ Swimming | ☐ Skin diving | ☐ SCUBA diving | ☐ Tubing | ☐ Water skiing |
| ☐ Wind surfing | ☐ Kayaking | ☐ Boating | ☐ Wading | ☐ Rafting |
| ☐ Hunting | ☐ Trapping | ☐ Fishing | ☑ None of the above | ☐ Other: |

Describe: (include number of individuals recreating, frequency of use, photo-documentation of evidence of recreational uses, etc.)

SON WADES IN STREAM TO CAPTURE ORGANISMS.
RICHARD DALE
31380 PROVIDENCE RD.
SMITHTON, MO 65350

**Surrounding Conditions*:** (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)

| | | | | |
|---|---|---|---|---|
| ☐ City/county parks | ☐ Playgrounds | ☐ MDC conservation lands | ☐ Urban areas | ☐ Campgrounds |
| ☐ Boating accesses | ☐ State parks | ☐ National forests | ☐ Nature trails | ☐ Stairs/walkway |
| ☐ No trespass sign | ☐ Fence | ☐ Steep slopes | ☑ Other: AGRICULTURE | |

**Evidence of Human Use*:**

| | | | | |
|---|---|---|---|---|
| ☑ Roads | ☐ Foot paths/prints | ☐ Dock/platform | ☐ Livestock Watering | ☐ RV / ATV Tracks |
| ☐ Rope swings | ☐ Camping Sites | ☐ Fire pit/ring | ☐ NPDES Discharge | ☐ Fishing Tackle |
| ☐ Other: | | | | |

**Site Locations Map(s):** Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

*Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

SB 7/8/05

**Page Two – Data Sheet B for WBID #** 455 (0363):

**Stream Morphology:**

**Upstream View Physical Dimensions:** 0.30, 0.44, 0.42, 0.50, 0.68m

| | | | | |
|---|---|---|---|---|
| ☐ Riffle | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| ☐ Run | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| ☑ Pool | Width (ft): 15.8m | Length (ft): 20m | Avg. Depth (ft): 0.47m | Max. Depth (ft): 0.68m |
| ☑ Flow | Present? ☐ Yes ☑ No | | Estimated ($ft^3$/sec): | |

**Downstream View Physical Dimensions:** 0.18, 0.24, 0.32, 0.12, 0.04m

| | | | | |
|---|---|---|---|---|
| ☐ Riffle | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| ☐ Run | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| ☑ Pool | Width (ft): 6.1m | Length (ft): 20m | Avg. Depth (ft): 0.16m | Max. Depth (ft): 0.24m |
| ☑ Flow | Present? ☐ Yes ☑ No | | Estimated ($ft^3$/sec): | |

**Substrate*:** (These values should add up to 100%.)

| | | | | | |
|---|---|---|---|---|---|
| 20 % Cobble | 60 % Gravel | 10 % Sand | % Silt | 10 % Mud/Clay | % Bedrock |

**Aquatic Vegetation*:** (note amount of vegetation or algal growth at the assessment site)

ALGAE THROUGHOUT.

**Water Characteristics*:** (Mark all that apply.)

| | | | | | |
|---|---|---|---|---|---|
| Odor: | ☐ Sewage | ☐ Musky | ☐ Chemical | ☑ None | ☐ Other: |
| Color: | ☐ Clear | ☑ Green | ☐ Gray | ☐ Milky | ☐ Other: |
| Bottom Deposit: | ☐ Sludge | ☐ Solids | ☑ Fine sediments | ☐ None | ☐ Other: |
| Surface Deposit: | ☑ Oil | ☑ Scum | ☐ Foam | ☐ None | ☐ Other: |

**Comments:** Please attach additional comments (including information from interviews) to this form.

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**I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.**

**Signed:** _____ **Date:** 07/07/05

Organization: TETRA TECH INC. Position: ASSOCIATE SCIENTIST

JBB 7/8/05

0863_455R-US

0863_455R-DS

## Field Data Sheets for Recreational Use Stream Surveys

### Data Sheet B - Site Characterization
(A separate data sheet must be completed for each site)

| | | |
|---|---|---|
| Missouri WBID #: 454 (0863) | | Site Location Description: AT LIMESTONE VALLEY RD. CROSSING. |
| Site GPS Coordinates: N 38.72888 W 093.09137 | | |
| Date & Time: 07/08/05 1530 | | Facility Name: Monsees Lake Estates |
| Personnel: CB, JB | | Permit Number: |
| Current Weather Conditions: 93°F, SUNNY | | Weather Conditions for Past 7 days: |
| Photo Ids: Upstream: 2096 | Downstream: 2095 | Other: 2097 ROAD INTO STREAMBED |

**Uses Observed*:**

| | | | | |
|---|---|---|---|---|
| ☐ Swimming | ☐ Skin diving | ☐ SCUBA diving | ☐ Tubing | ☐ Water skiing |
| ☐ Wind surfing | ☐ Kayaking | ☐ Boating | ☐ Wading | ☐ Rafting |
| ☐ Hunting | ☐ Trapping | ☐ Fishing | ☑ None of the above | ☐ Other: |

Describe: (include number of individuals recreating, frequency of use, photo-documentation of evidence of recreational uses, etc.)

**Surrounding Conditions*:** (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)

| | | | | |
|---|---|---|---|---|
| ☐ City/county parks | ☐ Playgrounds | ☐ MDC conservation lands | ☐ Urban areas | ☐ Campgrounds |
| ☐ Boating accesses | ☐ State parks | ☐ National forests | ☐ Nature trails | ☐ Stairs/walkway |
| ☐ No trespass sign | ☐ Fence | ☐ Steep slopes | ☑ Other: AGRICULTURE | |

**Evidence of Human Use*:**

| | | | | |
|---|---|---|---|---|
| ☑ Roads | ☐ Foot paths/prints | ☐ Dock/platform | ☐ Livestock Watering | ☐ RV / ATV Tracks |
| ☐ Rope swings | ☐ Camping Sites | ☐ Fire pit/ring | ☐ NPDES Discharge | ☐ Fishing Tackle |
| ☐ Other: | | | | |

**Site Locations Map(s):** Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

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JB 7/8/05

**Page Two – Data Sheet B for WBID #** 454 (0813):

**Stream Morphology:**

**Upstream View Physical Dimensions:** 0.40, 0.42, 0.16, 0.15, 0.08m

| | | | | |
|---|---|---|---|---|
| ☐ Riffle | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| ☐ Run | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| ☐ Pool | Width (ft): 8.0m | Length (ft): 20m | Avg. Depth (ft): 0.24m | Max. Depth (ft): 0.42m |
| ☑ Flow | Present? ☐ Yes | ☑ No | Estimated ($ft^3$/sec): | |

**Downstream View Physical Dimensions:** 0.30, 0.42, 0.46, 0.42, 0.08

| | | | | |
|---|---|---|---|---|
| ☐ Riffle | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| ☐ Run | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| ☑ Pool | Width (ft): ~~8.0m~~ 6.8m | Length (ft): 20m | Avg. Depth (ft): 0.34m | Max. Depth (ft): 0.46m |
| ☑ Flow | Present? ☐ Yes | ☑ No | Estimated ($ft^3$/sec): | |

**Substrate*:** (These values should add up to 100%.)

| % Cobble | % Gravel | % Sand | % Silt | % Mud/Clay | % Bedrock |
|---|---|---|---|---|---|
| | 50 | 5 | | 5 | 40 |

**Aquatic Vegetation*:** (note amount of vegetation or algal growth at the assessment site)

SMALL AMOUNT OF ALGAE ON ROCKS.

**Water Characteristics*:** (Mark all that apply.)

| | | | | | |
|---|---|---|---|---|---|
| Odor: | ☐ Sewage | ☐ Musky | ☐ Chemical | ☑ None | ☐ Other: |
| Color: | ☐ Clear | ☐ Green | ☐ Gray | ☑ Milky | ☐ Other: |
| Bottom Deposit: | ☐ Sludge | ☐ Solids | ☑ Fine sediments | ☐ None | ☐ Other: |
| Surface Deposit: | ☐ Oil | ☑ Scum | ☐ Foam | ☐ None | ☐ Other: |

**Comments:** Please attach additional comments (including information from interviews) to this form.

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**I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.**

**Signed:** _____ **Date:** 07/08/05

Organization: TETRA TECH INC. Position: ASSOCIATE SCIENTIST

JSB 7/8/05

0863_454R-US

0863_454R-DS

0863_454R-ROAD-THRU-STREAM

## Field Data Sheets for Recreational Use Stream Surveys

### Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

| | | |
|---|---|---|
| Missouri WBID #: 453 (0863) | | Site Location Description: AT INTERSECTION OF BONNEVILLE RD & LIMESTONE VALLEY RD. |
| Site GPS Coordinates: N38.72907 W093.09110 | | |
| Date & Time: 07/08/05 1515 | | Facility Name: Monsees Lake Estates |
| Personnel: CB, JB | | Permit Number: |
| Current Weather Conditions: 72°F, SUNNY | | Weather Conditions for Past 7 days: |
| Photo Ids: Upstream: 2093 | Downstream: 2094 | Other: |

**Uses Observed*:**

| | | | | |
|---|---|---|---|---|
| ☐ Swimming | ☐ Skin diving | ☐ SCUBA diving | ☐ Tubing | ☐ Water skiing |
| ☐ Wind surfing | ☐ Kayaking | ☐ Boating | ☐ Wading | ☐ Rafting |
| ☐ Hunting | ☐ Trapping | ☐ Fishing | ☑ None of the above | ☐ Other: |

Describe: (include number of individuals recreating, frequency of use, photo-documentation of evidence of recreational uses, etc.)

**Surrounding Conditions*:** (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)

| | | | | |
|---|---|---|---|---|
| ☐ City/county parks | ☐ Playgrounds | ☐ MDC conservation lands | ☐ Urban areas | ☐ Campgrounds |
| ☐ Boating accesses | ☐ State parks | ☐ National forests | ☐ Nature trails | ☐ Stairs/walkway |
| ☐ No trespass sign | ☐ Fence | ☑ Steep slopes | ☑ Other: AGRICULTURE, FOREST | |

**Evidence of Human Use*:**

| | | | | |
|---|---|---|---|---|
| ☑ Roads | ☐ Foot paths/prints | ☐ Dock/platform | ☐ Livestock Watering | ☐ RV / ATV Tracks |
| ☐ Rope swings | ☐ Camping Sites | ☐ Fire pit/ring | ☐ NPDES Discharge | ☐ Fishing Tackle |
| ☐ Other: | | | | |

**Site Locations Map(s):** Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

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JBB 7/8/05

**Page Two – Data Sheet B for WBID #** 453 (0863):

**Stream Morphology:**

**Upstream View Physical Dimensions:** 0.52, 0.58, 0.30, 0.14, 0.18

| | | | | |
|---|---|---|---|---|
| ☐ Riffle | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| ☐ Run | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| ☐ Pool | Width (ft): 13.0m | Length (ft): 20m | Avg. Depth (ft): 0.34m | Max. Depth (ft): 0.58m |
| ☑ Flow | Present? ☐ Yes ☑ No | | Estimated ($ft^3$/sec): | |

**Downstream View Physical Dimensions:** 0.38, 0.48, 0.52, 0.50, 0.38

| | | | | |
|---|---|---|---|---|
| ☐ Riffle | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| ☐ Run | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| ☑ Pool | Width (ft): 17.2m | Length (ft): 20m | Avg. Depth (ft): 0.45m | Max. Depth (ft): 0.52m |
| ☑ Flow | Present? ☐ Yes ☑ No | | Estimated ($ft^3$/sec): | |

**Substrate*:** (These values should add up to 100%.)

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 5 | % Cobble | 60 | % Gravel | 10 | % Sand | 10 | % Silt | 15 | % Mud/Clay | % Bedrock |

**Aquatic Vegetation*:** (note amount of vegetation or algal growth at the assessment site)

NONE

**Water Characteristics*:** (Mark all that apply.)

| | | | | | |
|---|---|---|---|---|---|
| Odor: | ☐ Sewage | ☐ Musky | ☐ Chemical | ☑ None | ☐ Other: |
| Color: | ☐ Clear | ☐ Green | ☐ Gray | ☑ Milky | ☐ Other: |
| Bottom Deposit: | ☐ Sludge | ☐ Solids | ☑ Fine sediments | ☐ None | ☐ Other: |
| Surface Deposit: | ☑ Oil | ☑ Scum | ☐ Foam | ☐ None | ☐ Other: |

**Comments:** Please attach additional comments (including information from interviews) to this form.

*This information is not to be used solely for removal of a recreational use designation but rather is to provide a more comprehensive understanding of water conditions. Consequently, this information is not intended to directly influence a decision on the recreation use analysis but may point to conditions that need further analysis or that effect another use.

**I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.**

**Signed:** _____ **Date:** 07/08/05

Organization: TETRA TECH INC. Position: ASSOCIATE SCIENTIST

JSB 7/8/05

0863_453R-US

0863_453R-DS

## Field Data Sheets for Recreational Use Stream Surveys

### Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

| | | |
|---|---|---|
| Missouri WBID #: 452 (0863) | | Site Location Description: AT APATOR RD CROSSING, SOUTH OF BOONEVILLE RD. |
| Site GPS Coordinates: N38.71564 W093.09203 | | |
| Date & Time: 07/08/05 1510 | | Facility Name: Monsees Lake Estates |
| Personnel: CB, JB | | Permit Number: |
| Current Weather Conditions: 92°F. Sunny | | Weather Conditions for Past 7 days: |
| Photo Ids: Upstream: 2092 | Downstream: 2091 | Other: |

**Uses Observed*:**

| | | | | |
|---|---|---|---|---|
| ☐ Swimming | ☐ Skin diving | ☐ SCUBA diving | ☐ Tubing | ☐ Water skiing |
| ☐ Wind surfing | ☐ Kayaking | ☐ Boating | ☐ Wading | ☐ Rafting |
| ☐ Hunting | ☐ Trapping | ☐ Fishing | ☑ None of the above | ☐ Other: |

Describe: (include number of individuals recreating, frequency of use, photo-documentation of evidence of recreational uses, etc.)

**Surrounding Conditions*:** (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)

| | | | | |
|---|---|---|---|---|
| ☐ City/county parks | ☐ Playgrounds | ☐ MDC conservation lands | ☐ Urban areas | ☐ Campgrounds |
| ☐ Boating accesses | ☐ State parks | ☐ National forests | ☐ Nature trails | ☐ Stairs/walkway |
| ☐ No trespass sign | ☑ Fence | ☐ Steep slopes | ☑ Other: AGRICULTURE | |

**Evidence of Human Use*:**

| | | | | |
|---|---|---|---|---|
| ☑ Roads | ☐ Foot paths/prints | ☐ Dock/platform | ☐ Livestock Watering | ☐ RV / ATV Tracks |
| ☐ Rope swings | ☐ Camping Sites | ☐ Fire pit/ring | ☐ NPDES Discharge | ☐ Fishing Tackle |
| ☐ Other: | | | | |

**Site Locations Map(s):** Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

*Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

CB 7/12/15

**Page Two – Data Sheet B for WBID #** 452 (0863):

**Stream Morphology:**

**Upstream View Physical Dimensions:** DRY STREAMBED

| | | | | |
|---|---|---|---|---|
| ☐ Riffle | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| ☐ Run | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| ☐ Pool | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| ☐ Flow | Present? ☐ Yes ☐ No | | Estimated ($ft^3$/sec): | |

**Downstream View Physical Dimensions:** DRY STREAMBED

| | | | | |
|---|---|---|---|---|
| ☐ Riffle | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| ☐ Run | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| ☐ Pool | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| ☐ Flow | Present? ☐ Yes ☐ No | | Estimated ($ft^3$/sec): | |

**Substrate*:** (These values should add up to 100%.)

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 5 | % Cobble | 10 | % Gravel | | % Sand | | % Silt | 5 | % Mud/Clay | 80 | % Bedrock |

**Aquatic Vegetation*:** (note amount of vegetation or algal growth at the assessment site)

N/A

**Water Characteristics*:** (Mark all that apply.)

| | | | | | |
|---|---|---|---|---|---|
| Odor: | ☐ Sewage | ☐ Musky | ☐ Chemical | ☐ None | ☐ Other: N/A |
| Color: | ☐ Clear | ☐ Green | ☐ Gray | ☐ Milky | ☐ Other: N/A |
| Bottom Deposit: | ☐ Sludge | ☐ Solids | ☐ Fine sediments | ☐ None | ☐ Other: N/A |
| Surface Deposit: | ☐ Oil | ☐ Scum | ☐ Foam | ☐ None | ☐ Other: N/A |

**Comments:** Please attach additional comments (including information from interviews) to this form.

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**I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.**

**Signed:** _____ **Date:** 07/08/05

**Organization:** TETRA TECH INC. **Position:** ASSOCIATE SCIENTIST

525 7/8/05

0863_452R-US

0863_452R-DS

## Field Data Sheets for Recreational Use Stream Surveys

### Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

| | |
|---|---|
| Missouri WBID #: 451 (0363) | Site Location Description: AT MONSEES RD CROSSING. North of 50 |
| Site GPS Coordinates: N38.70664 W093.10150 | |
| Date & Time: 07/08/05 1445 | Facility Name: Monsees Lake Estates |
| Personnel: CB, JB | Permit Number: |
| Current Weather Conditions: 92°F, SUNNY | Weather Conditions for Past 7 days: |
| Photo Ids: Upstream: 2090 / Downstream: 2089 | Other: |

**Uses Observed*:**

| | | | | |
|---|---|---|---|---|
| ☐ Swimming | ☐ Skin diving | ☐ SCUBA diving | ☐ Tubing | ☐ Water skiing |
| ☐ Wind surfing | ☐ Kayaking | ☐ Boating | ☐ Wading | ☐ Rafting |
| ☐ Hunting | ☐ Trapping | ☐ Fishing | ☑ None of the above | ☐ Other: |

Describe: (include number of individuals recreating, frequency of use, photo-documentation of evidence of recreational uses, etc.)

**Surrounding Conditions*:** (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)

| | | | | |
|---|---|---|---|---|
| ☐ City/county parks | ☐ Playgrounds | ☐ MDC conservation lands | ☐ Urban areas | ☐ Campgrounds |
| ☐ Boating accesses | ☐ State parks | ☐ National forests | ☐ Nature trails | ☐ Stairs/walkway |
| ☐ No trespass sign | ☐ Fence | ☐ Steep slopes | ☑ Other: AGRICULTURE | |

**Evidence of Human Use*:**

| | | | | |
|---|---|---|---|---|
| ☑ Roads | ☐ Foot paths/prints | ☐ Dock/platform | ☐ Livestock Watering | ☐ RV / ATV Tracks |
| ☐ Rope swings | ☐ Camping Sites | ☐ Fire pit/ring | ☐ NPDES Discharge | ☐ Fishing Tackle |
| ☐ Other: | | | | |

**Site Locations Map(s):** Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

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JSB 7/8/05

**Page Two – Data Sheet B for WBID #** 451 (0863):

**Stream Morphology:**

**Upstream View Physical Dimensions:** 0.34, 0.18, 0.30, 0.22, 0.16

| | | | | |
|---|---|---|---|---|
| ☐ Riffle | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| ☐ Run | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| ☑ Pool | Width (ft): 3.4m | Length (ft): 20m | Avg. Depth (ft): 0.24m | Max. Depth (ft): 0.34m |
| ☑ Flow | Present? ☐ Yes | ☑ No | Estimated ($ft^3$/sec): | |

**Downstream View Physical Dimensions:** 0.08, 0.12, 0.20, 0.14, 0.14

| | | | | |
|---|---|---|---|---|
| ☐ Riffle | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| ☐ Run | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| ☑ Pool | Width (ft): 3.8m | Length (ft): 20m | Avg. Depth (ft): 0.14m | Max. Depth (ft): 0.20m |
| ☑ Flow | Present? ☐ Yes | ☑ No | Estimated ($ft^3$/sec): | |

→ POOL WITHIN D.S. TRANSECT WITH MAX DEPTH OF 0.20m

**Substrate*:** (These values should add up to 100%.)

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 10 | % Cobble | 70 | % Gravel | 10 | % Sand | | % Silt | 5 | % Mud/Clay | 5 | % Bedrock |

**Aquatic Vegetation*:** (note amount of vegetation or algal growth at the assessment site)

ALGAE IN WATER COLUMN

**Water Characteristics*:** (Mark all that apply.)

| | | | | | |
|---|---|---|---|---|---|
| Odor: | ☐ Sewage | ☐ Musky | ☐ Chemical | ☑ None | ☐ Other: |
| Color: | ☐ Clear | ☑ Green | ☐ Gray | ☐ Milky | ☐ Other: |
| Bottom Deposit: | ☐ Sludge | ☐ Solids | ☑ Fine sediments | ☐ None | ☐ Other: |
| Surface Deposit: | ☑ Oil | ☐ Scum | ☐ Foam | ☐ None | ☐ Other: |

**Comments:** Please attach additional comments (including information from interviews) to this form.

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**Signed:** _____ **Date:** 07/08/05

**Organization:** TETRA TECH INC **Position:** ASSOCIATE SCIENTIST

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