SUPPLY HEADER PROJECT ENVIRONMENTAL SURVEY

Waterbody Datasheets and Photo Pages

TL-635

Tyler County

West Virginia

| aterbody Data S | Sheet | | | | | a a chan an a | |
|--|--|---|--|--|--|---|--|
| urvey Descriptio | n . | | | | | | |
| roject Name: | . Í | Waterbod | Whame: TO | | Waterbody ID: | Dat | te: |
| STI Supply | Hender | Ind | ian Creek | ع | STYGOO | 21 6 | 1-30-15 |
| tate: County: | annan an ann an Annan Annan A | q | ompany: | Crev | w Member Initials: Pho | to ID(s): | |
| NV Tyle | er | | DAWEST | $\overline{\mathcal{U}}$ | 3,JG | | n w 147 maar of opper 14 Mail of a strategy |
| act Number(s): マラーんの | 1-00 | 2^ | lilepost Entry: | Milepost Exit: | Associated Wetlan | nd ID(s): 7 | |
| 52 00 | | | J J . W | 72.0 | 1 1001-2 | | 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1 |
| urvey Type: heckone) | | | te-Route | Access Road | Other: | | |
| hysical Attribute | 35 | دىنىيەر ئۆركە ئەرىپىرىكە تەرىپىرىكە تەرىپىرىكە تەرىپىرىكە تەرىپىرىكە تەرىپىرىكە تەرىپىرىكە تەرىپىرىكە تەرىپىرىك ئەرىپىرىكە ئەرىپىرىكە ئەرىپىرىكە تەرىپىرىكە تەرىپىرىكە تەرىپىرىكە تەرىپىرىكە تەرىپىرىكە تەرىپىرىكە تەرىپىرىكە تە | مىلىتى چىچىنى چېچىنى بىرى بىرى بىرى بىرى بىرى بىرى بىرى ب | | | | ny fisikan'ny energy fisikanina energy fisikanina energy fisikanina energy fisikanina energy fisikanina energy Internet in the second secon |
| tream Classification | : | al 🕅 I | ntermittent | Perennial | | | |
| Aterbody Type: | Stream | er Di | tch | Lake | Connecting swale ^a | Other: | |
| HWM Width: K | OHWM In (check all the | ndicator: at apply) | Clear li on ban | ne []Shelv k | ing Wrested vegetation | Scouring | Water staining |
| Height: L | | it, matted, or sing vegetati | | Litter debris | and Abrupt plan | t S change c | oil characteristic hange |
| Vidth of Waterbody - | Top of Bank to | Wid | th of Waterbody - | Water Edge to | Depth of Water | at Centerline: | an a |
| | ff. | avdi | | D ft | ()pp: Only | <u> </u> | |
| inuosity: | V | Vater velocit | y: | Bank heigh | ŧ | Bank slope | میں میں میں میں کا ایک ہوتی ہے۔ انہوں میں میں ایک ایک ایک میں میں میں ایک ایک میں ایک م |
| Str | aight | (pprox.) | 1 | Right | ^{t:} 3 _{ft.} | Right: | 60 degrees |
| X Me | andering | - | fps | Lef | it: 2 | Left: | 60 |
| | | | | | ft. | | degrees |
| | lutes | | an the state of the | | an a sum all an | and " is a fight good to a first state of a first state | and a summary for the second |
| check one) | No water | Clear | Turbid Shoon | een Sui surface scu | rface Algal Algal Algal Algal | Other: | |
| Substrate: | Bedrock | Gravel | Sand | Silt/clay | Organic | Other: | |
| % of Substrate: | 60% | 35 % | 3_% | 2 % | % | | % |
| Width of Riparian Zo | ne: Vegeta | tive Layers: | | ₩ ₩ ₩\$\$\$\$\$\$ ₩ ₩ ₩\$\$\$\$\$\$ | Shrubs' | an generalisment og Kill Elin kom en som gegel af Hellen han som en s | Herbs |
| >100 ft. | Avg. D (approx.) | BH of Domi | nants: | in, | K OTTANO. | _in, | |
| Dominant Bank Veg | etation: ubra, Cr | rpinus | chooliniana | a, Rosa | mulfiflorn, F | elystichun | acresteride |
| Aquatic Habitats (ex. | submerged or emerge | ed aquatic vegeta | tion, overhanging banks/ | roots, leaf packs, large s | submerged wood, riffles, deep por | pis): | |
| Aquatic Organisms | Observed: | an a | | | | <u></u> | |
| NONE | | | | | | | |
| Invasive and/or T&E | Species Obser | ved: | | | <u></u> | αν ταματική τα ματικό τομ ⁹⁰ − 17 − αυχ. ή τη την την αυτιβάζια (άδα στη δημαγική του την αυτιβάζια (άδα στη δημαγική του την αυτιβάζια (άδα στη δημαγική του την αυτιβάζια) | <u>, , , , , , , , , , , , , , , , , , , </u> |
| Tributary is: (check one) | Natural | Ľ |] Artificial, man-m | ade 🔲 Manip | ulated | ani a magamanga Tabilit pané ang mangkananga | an a |
| Disturbances: (check all that apply) | Livestor access | × [|] Manure in waterbody | Waste disc pipes | harge 🔲 Other | NONE | |
| Stream Quality ^b : (check one) | High | Þ | Moderate | Low | ىيىلەر بەر يەرىپى | | |

Waterbody ID: STYL 00 ^a Connecting swales are water features that do not meet the definition of a waterbody (not an ephemeral waterbody) in that there is not a defined bed, bank, and ordinary high water mark, however, it is a water conveyance feature that is characterized by flow volume, frequency, and duration to make it more than just an erosional feature and connects two potential waters of the U.S. and thereby may be subject to Section 404 permitting. ^b High Quality: Natural channel, natural vegetation extends at least one or two active channel widths on each side; banks stable and protected by roots; water color is clear to tea-colored; no barriers to fish movement; many fish cover types available; diverse and stable aquatic habitat; no disturbance by livestock or man. Moderate Quality: Altered channel evidenced by rip-rap; natural vegetation extends 1/3-1/2 of the active channel width on each side; filtering function or riparian vegetation only moderately compromised; banks moderately unstable; water color is cloudy, submerged objects covered with greenish film; moderate odor; minor barriers to fish movement; fair aquatic habitat; minimum disturbance by livestock or man. Low Quality: Channel is actively down cutting or widening; rip rap and channelization excessive; natural vegetation less than 1/3 of the active channel width on each side; lack of regeneration; filtering function severely compromised; banks unstable (eroding); water color is muddy and turbid; obvious pollutants (algal mats, surface scum, surface sheen); heavy odor; severe barriers to fish movement; little to no aquatic habitat; severe disturbance from livestock or man. Notes Waterbody Sketch Include north arrow, centerline, distance from centerline, photo locations, survey boundary, and unique IDs of associated features. N Rond 13 Indian Creek 5746002

styg001



Waterbody styg001 facing upstream



Waterbody styg001 facing downstream

Styg001



Waterbody styg001 facing upline cross stream

| aterbody Data Sheet | | | | | | |
|---|--|--|--|--|---|--|
| Survey Description | | | | | | |
| [•] roject Name; | Waterb | ody Name: | ، بېرى مەرىپى ئەرىكى ئىرىكى ئەرىپىلىكى ئەرىپىلىكى بىرىپىلىكى بىرىپىلىكى بىرىپىلىكى بىرىپىلىكى بىرىپىلىكى بىرىپ ئىرىپىلىكى بىرىپىلىكى ئىرىپىلىكى ئىرىپىلىكى ئىرىپىلىكى ئىرىپىلىكى ئىرىپىلىكى ئىرىپىلىكى ئىرىپىلىكى ئىرىپىلىكى ئى | Waterbody ID: | Date | |
| sti supply Hende | er In | Dian Cre | ek | Good STYE | 002 4 | 1/30/15 |
| itate: County: | | Company: | Crew Me | mber Initials: Phot | o ID(s): | |
| Vet IVIER | | Duesi | JD, | NG | -119(-)- | an a far a far an |
| R = ODI - CD | 02 | | | | a 1⊔(s): `≶ | |
| Survey Type: | al y ang tha ballan the part of the programments of the term of the | | | 10010 | | |
| sheck one) | Centerline | Re-Route | Access Road | Other: | | |
| Physical Attributes | | 1998) da juna 1997 - 1998 (1998 - 1998 - 1998 - 1999 - 199 | | | | و المحاول المح |
| Stream Classification: | phemeral | Intermittent | Perennial | | | |
| Naterbody Type: (check one) Stream | River | Ditch Dond | Lake Conn | necting swale a | Other: | |
| Width: 15 # | DHWM Indicator: check all that apply) | Clear lin on bank | e XShelving | Wrested vegetation | Scouring | Water staining |
| Height: | Bent, matted, missing veget | or XWrack | Litter and debris | Abrupt plant | hange Cso | Il characteristic |
| Width of Waterbody - Top of | Bank to W | /idth of Waterbody - \ | Nater Edge to | Depth of Water a | t Centerline: | |
| lop of Bank at Centerline: | | ater Edge at Centerli) م) | ne: | (Approx.) | 2" _{ft.} | |
| Sinuosity: | Water velo | city: | Bank height | | Bank slope | |
| (check one) | (Approx.) | | Right: | 2. | Right: | |
| V Meandering | , | 22_{fps} | Left- | | - ۱ eft: - | |
| | | | | <u> </u> | | (D_degrees |
| Qualitative Attributes | na sa manang manang manang mang kanang | | | and a superstanting of the second | 1979 - 1977 - 1979 ⁻ 1979 - 1970 - 1979 - 1979 - 1970 | |
| (check one) | er 📉 Clear [| Turbid Shee | en Surface urface scum | Algal C (mats |)ther: | |
| Substrate: Kall that apply) | K K Gravel | X Sand | Silt/clay |] Organic |)ther: | |
| % of Substrate: <u>20</u> | % 60_% | <u>(Ô</u> % | <u>10</u> % | % | | % |
| Width of Riparian Zone: | Vegetative Layer (check all that apply) | rs: KITrees: | | X Shrubs: | | Herbs |
| <u>20</u> ft. | Avg. DBH of Dor | ninants: | in. | <u>KN</u> | in. | K |
| Dominant Bank Vegetation: | -ra, Carp | sinces corch | niana, Po | hysticherma | crostoiles | , ROSA |
| Aquatic Habitats (ex: submerged (1/st) [1] + e, poor | s or emerged aquatic veg | etation, overhanging banks/ro | ots, leaf packs, large subme | rged wood, riffles, deep poo | s); | <u>, marti,</u> |
| Aquatic Organisms Observe (1151) 5 mall in ver | elsonotes | | | | | an an de ferre an |
| Invasive and/or T&E Species (1850) RO312 Mulfifl | s Observed: OTA | | | | | |
| Tributary is: (check one) | Natural | Artificial, man-ma | de 🔲 Manipulate | d | | |
| Disturbances: (check all that apply) | Livestock access | Manure in waterbody | Waste discharge pipes | e Other: | | |
| Stream Quality ^b : (check one) | High | Moderate | Low | | | |

Waterbody ID:



styg002



Waterbody styg002 facing upstream



Waterbody styg002 facing downstream

styg002



Waterbody styg002 facing upline cross stream

SUPPLY HEADER PROJECT ENVIRONMENTAL SURVEY

Waterbody Datasheets and Photo Pages

TL-635

Wetzel County

West Virginia

| aterbody Data S | Sheet | | | | | | |
|--|--------------------------|---|--|--|---|---|---|
| urvey Descriptio | n . | | | | | | |
| roject Name: | | Waterbody Name: | 000 | D | Waterbody ID: | Da | te: |
| DTI supplu | Hender | UNT TO | (Suthak | o Kun | SWZG | 024 | 5-13-15 |
| tate: County: NV Wet | tze(| Company DDe | UEST | Crew Men | nber Initials: Ph JG | oto ID(s): | |
| ract Number(s): 33-001-# | 7007_ | Milepost I 24 | Entry: Milep 3 Z | ost Exit: 4,3 | Associated Wetle $\mathcal{W}\mathcal{W}\mathcal{W}\mathcal{Z}$ | and ID(s): 6003- | f <u>w</u> |
| urvey Type: heck one) | | Re-Route | | ess Road | Other: | | |
| Physical Attribute | 35 | | | | Erg (2007 E | | |
| itream Classification | : | al 🚺 Intermitter | nt 🕅 Per | ənnial | | | |
| Naterbody Typer check one) | Stream [] Riv | er Ditch | Pond L | ake | ecting swale a | Other: | |
| DHWM Width: 15 ft | OHWM In (check all th | ndicator: at apply) | Clear line on bank | Shelving | Wrested | | Water staining |
| Height: 6 ¹¹ ft. | | nt, matted, or b sing vegetation | Wrack line | Litter and debris | Abrupt pla | ant Sy change | Soil characteristic change |
| Width of Waterbody - | Top of Bank to | Width of Wa | terbody - Water | Edge to | Depth of Wate | r at Centerline: | |
| 2 | D_{4} | water coge | at Centerine: | | (Alph Or.) | ft. | |
| Sinuosity: | IL. | Vater velocity: | <u> </u> | ank height | | Bank slope | |
| (check one) | aight | Approx.) | | Right: | <u>}fi.</u> | Right: | $\frac{30}{20}$ degrees |
| 🕅 Me | andering | <u></u> fp: | 5 | Left: 2 |)ft. | Left | LS degrees |
| Qualitative Attrib | outes | | | | | | |
| Water Appearance: (check one) | No water | Clear 🚺 Turbid | Sheen on surface | Surface scum | Algai mats | Other: | |
| Substrate: | Bedrock | Gravel Sa | nd 🕅 s | ilt/clay | Organic | Other: | |
| % of Substrate: | <u>10</u> % | (~ ~ () ~ | E % 7 | <u>0</u> % | % | | % |
| Width of Riparian Zo | one: Veget (check a | Ative Layers: | | <u> </u> | K Shrubs: | | Herbs |
| ft. | Avg. C (approx. | BH of Dominants: | 10 | _in. | | in. | |
| Dominant Bank Veg | etation: | Pholos | - | A D: F | | a. Elia | Athyring |
| HCEA D | Hr Britch | ~ TATA NUO | OCCI CLUM | pala, n | leguo gy A | no 180 ma | Jelix-Sim |
| Pods, M | Ples | a adams regentest ereind | | pacital iniĝo antinoi | geo 11000, 111100, 400p (| | |
| Aquatic Organisms | poserved: frog 5 + | small fis | h | | | <i>0.0000000000000000000000000000000</i> | |
| Invasive and/or T&E | Species Obser | ved: | n na analan ing kanang kan | 1996 - The Control of The | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | a Q den weren en geste de ^{fer} tion en den yn geste Chen en de en | |
| Tributary is: (check one) | | | al, man-made | Manipulated | d | | ana da ana ang ang ang ang ang ang ang ang an |
| Disturbances: (check all that apply) | Livesto access | ck Manur waterb | e in in ody | Waste discharge bipes | Oth | Br: NON | E |
| Stream Quality ^b : (check one) | High | Moder | ate | Low | | | |
| | | | | | | | |

Waterbody ID:

SW26024

* Connecting swales are water features that do not meet the definition of a waterbody (not an ephemeral waterbody) in that there is not a defined bed, bank, and ordinary high water mark, however, it is a water conveyance feature that is characterized by flow volume, frequency, and duration to make it more than just an erosional feature and connects two potential waters of the U.S. and thereby may be subject to Section 404 permitting. ^b High Quality: Natural channel, natural vegetation extends at least one or two active channel widths on each side; banks stable and protected by

roots; water color is clear to tea-colored; no barriers to fish movement; many fish cover types available; diverse and stable aquatic habitat; no disturbance by livestock or man.

Moderate Quality: Altered channel evidenced by rip-rap; natural vegetation extends 1/3-1/2 of the active channel width on each side; filtering function or riparian vegetation only moderately compromised; banks moderately unstable, water color is cloudy, submerged objects covered with greenish film; moderate odor; minor barriers to fish movement; fair aquatic habitat; minimum disturbance by livestock or man.

Low Quality: Channel is actively down cutting or widening; rip rap and channelization excessive; natural vegetation less than 1/3 of the active channel width on each side; lack of regeneration; filtering function severely compromised; banks unstable (eroding); water color is muddy and turbid; obvious pollutants (algal mats, surface scum, surface sheen); heavy odor; severe barriers to fish movement; little to no aquatic habitat; severe disturbance from livestock or man.

Notes

Waterbody Sketch



swzg024



Waterbody swzg024 facing upstream



Waterbody swzg024 facing downstream

Swzg024



Waterbody swzg024 facing upline cross stream

| aterbody Data S | Sheet | | | <u></u> | | | | | |
|--|-----------------------------|----------------------------|--|---------------------|--|--|-----------------------|---------------------|-------------------|
| urvey Descriptio | n . | | | | | | • | | л. А |
| roject Name: | | Waterbody | Name: 1/N | r 70 | | Waterbody ID: | | Date: | |
| Since 14 | after | COOT | HOOS | RICERA | SIM) | SWZH | 025 | 7-1 | 24-1 |
| tate: County: | Male | | ompany: | SOPPHI | Crew Me | mber Initials: | Photo ID(s): | | |
| JU WETZ | EL | | DDh DEST | - | m | DD | | | |
| ract Number(s): | | M | ilepost Entry: | Milepost | | Associated W | etiand ID(s): | 47 | |
| 33-001 | - A002 | - | MA | N | 4 | NON | 5 | | |
| urvey Type: theck one) | Centerline | | s-Route | | Road | Other: | | | |
| Physical Attribute | 25 | | San Angel an ann an Anna an An | | ernalmer før entry | an Continue a Carlon a | | | |
| tream Classification | Ephemeral | 2 Lir | itermittent | Perennia | ul | a den grand adarrent en Skaldfree Ean Annan en | | | |
| Vaterbody Type: | Stream | r 🔲 Dit | ch 🔲 Pond | Lake | Conr | necting swale a | Other: | | |
| Width: <u></u> ft. | OHWM Ind (check all that | licator: apply) | Clear on ba | nk | Shelving | Wreste | d Sco tion | ouring | Water staining |
| Height: <u>\</u> ft. | Bent, missi | matted, or ng vegetatio | n Wrac | k | Litter and debris | Abrupt | plant Inity change | Soil char change | racteristic |
| Width of Waterbody - Ton of Bank at Cente | Top of Bank to | Widt | h of Waterbody | - Water Edg | e to | Depth of Wa | iter at Centerli | ne: | |
| | 7. | Wate | | | | (r spin only | Ô | # | |
| <u> </u> | <u>-</u> 1t. | ter velociti | | ft. | eight | | Bank slor | ¹⁶ | |
| (check one) | ainht (Ap) | prox.) | • | Can | Right: / | 16 | R | light: Zn | |
| | aigin | ۲ | 1. | | - [| 1. | | - 20 | degrees |
| X Me | andering | | fps | | Left: | 2 . | | Left: 3 | |
| Auglitativo Attrik | | | | | | | | <u> </u> | degrees |
| Water Appearance | 7 | | ****** | | | an a | | | |
| (Check ons) | No water | iear 🔲 | Furbid S or | heen | Surface scum | Algal mats | Other: | | |
| Substrate: | Bedrock | Gravel | Sand | X silt/cl | y [| Organic | Other: | | |
| % of Substrate: | % | 20 % | (0 % | 20 |) _% | % | | | % |
| Width of Riparian Zo | ne: Vegetati | ve Layers: | 1771 | | | | | F7. | z |
| 750tt. | (Check all the Avg. DB | H of Domin | ants: | s: in. | | Shrubs: | in. | | Herbs |
| Dominant Bank Veg | etation: Juli | oikern, | Platane | A OCCI | Ionfa | lis, Crar | pines c | molin | a |
| Aquatic Habitats (ex: | submerged or emerged | aquatic vegetati | on, overhanging bank | s/roots, leaf packs | , large subme | rged wood, riffles, de | ep pools): | » Uma | mea |
| pouls | | | | | | | | | |
| Aquatic Organisms | Observed: | | | | | | | | |
| NONE | | | | | | | | | |
| Invasive and/or T&E | Species Observe | ed: | | | a an | | , | | |
| (ilist) M | / | **** | ~ | | | | | | |
| Tributary is: (check one) | Natural | <u>imino</u> | Artificial man-r | made 🗂 | Vanipulate | | | | |
| Disturbances: (check all that apply) | Livestock | | Manure in waterbody | Wast | e discharge | e []C | ther: | ZX J | |
| Stream Quality ^b : (check one) | High | K | Moderate | Low | | | | | |
| J | | | | | | | | | |

| Form Rev. 2/. |
|---------------|
|---------------|



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Moderate Quality: Altered channel evidenced by rip-rap; natural vegetation extends 1/3-1/2 of the active channel width on each side; filtering function or riparian vegetation only moderately compromised; banks moderately unstable; water color is cloudy, submerged objects covered with greenish film; moderate odor; minor barriers to fish movement; fair aquatic habitat; minimum disturbance by livestock or man.

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Notes

Waterbody Sketch

Include north arrow, centerline, distance from centerline, photo locations, survey boundary, and unique IDs of associated features.

swzh025



Waterbody swzh025 facing upstream



Waterbody swzh025 facing downstream

Swzh025



Waterbody swzh025 facing upline cross stream

| terbody Data | Sheet | | | | | |
|--|--|---|---|---|-------------------------|---|
| urvey Descripti | on . | | | | ••••• | |
| oject Name: | - In | Vaterbody Name: | | Waterbody ID: | Date: | على حزورة الشيرانية موالماجاني، يو موسوي يورد |
| supply be | nder | UNT TO BUILT | lo Run | SWZHOZ | 3 7. | -241-15 |
| iate: Set inty: NV We | tzel | Company: DDWEST | - Crew Me | PP | o ID(s): | |
| ract Number(s): | | Milepost Entry: | Milepost Exit: | Associated Wetlan | d ID(s): | |
| 33-001 | -A002 | NA | MA | NONS | 5 | |
| urvey Type: heckone) | Centerline | Re-Route | Access Road | Other: | | |
| hysical Attribu | tes | | | | | |
| tream Classificatio | n: Ephemeral | | Perennial | | | |
| Vaterbody Type: | Stream | Ditch Pond | | ecting swale * |] Other: | |
| Width: <u>/5</u> ft | OHWM India (check all that a) | cator: (Pb) Clear lin on bank | ne Shelving | Wrested | Scouring | EXTVater staining |
| Height:fi | Bent, r missin | natted, or Wrack g vegetation | Litter and debris | Abrupt plant | change Cha | characteristic nge |
| Width of Waterbody | - Top of Bank to terline: | Width of Waterbody - Water Edge at Center | Water Edge to | Depth of Water a | t Centerline: | **** |
| 2 | 5 ft. | 6 | ft. | | <u>6</u> n . | |
| Sinuosity: | Wat | er velocity: | Bank height | | Bank slope | |
| | traight | 12 | Right: | 4 _{ft.} | Right: | <u>30</u> degrees |
| | leandering | Δ_{fps} | Left: | / | Left: | <u>}</u> |
| | | | | <u>Ø_</u> ft. | | <u>/O</u> degrees |
| Water Appearance: | iputes | | | | | |
| (check one) | No water Cl | ear 🛛 Turbid 🔲 She on a | en Surface scum | Algai C mats | Other: | |
| Substrate: | Bedrock K Gr | avel 🔣 Sand | Silt/clay | Organic 0 | Other: | |
| % of Substrate: | %[| 10 % 11 % | 20 % | % | | % |
| Width of Riperian 2 750 ft. | Zone: Vegetativ (check all the Avg. DBH (approx.) | e Layers: tapphy) I Trees: tof Dominants: | <u>12</u> in. | Shrube: | _in. | Herbs |
| Dominant Bank Ve Platune | getation: o ozcident | strs, Rosame | lfithom, | Microsta | gin UI | ninez. |
| Aquatic Habitats (e) $P_O \Delta B_{S}$ | x submensed or emerged a RI HES 01 | quatic vegetetion, overhanging banks/r | oots, leaf packs, large subme nksq veq | rged wood, riffles, deep poo | is): | |
| Aquatic Organism | s Observed: | s, invertebra | tes | | | |
| (11st) R54-14 | iz Species Observed | K. Muranda | · · · · | Mal | | |
| Tributary is: (check one) | Natural | Artificial, man-ma | ade \mathbf{X} Manipulate | ed and the second se | | |
| Disturbances: (oheok all that apply) | Livestock | Manure in waterbody | Waste discharg | e 🛛 🔀 Other: | Access i two 24 | "ond "Culver |
| Stream Quality ^b : (check one) | High | Moderate | Low | | PIPES | |

Connecting swales are water features that do not meet the definition of a waterbody (not an ephemeral waterbody) in that there is not a defined bed, bank, and ordinary high water mark, however, it is a water conveyance feature that is characterized by flow volume, frequency, and duration to make it more than just an erosional feature and connects two potential waters of the U.S. and thereby may be subject to Section 404 permitting.

Waterbody ID:

51117 HOZ

^b High Quality: Natural ohannel, natural vegetation extends at least one or two active channel widths on each side; banks stable and protected by roots; water color is clear to tea-colored; no barriers to fish movement; many fish cover types available; diverse and stable aquatic habitat; no disturbance by livestock or man.

Moderate Quality: Altered channel evidenced by rip-rap; natural vegetation extends 1/3-1/2 of the active channel width on each side; filtering function or riparian vegetation only moderately compromised; banks moderately unstable, water color is cloudy, submerged objects covered with greenish film; moderate odor; minor barriers to fish movement; fair aquatic habitat; minimum disturbance by livestock or man.

Low Quality: Channel is actively down cutting or widening; rip rap and channelization excessive; natural vegetation less than 1/3 of the active channel width on each side; lack of regeneration; filtering function severely compromised; banks unstable (eroding); water color is muddy and turbid; obvious pollutants (algal mats, surface scum, surface sheen); heavy odor; severe barriers to fish movement; little to no aquatic habitat; severe disturbance from livestock or man.

Notes

Waterbody Sketch

Include north arrow, centerline, distance from centerline, photo locations, survey boundary, and unique IDs of associated features.



swzh023



Waterbody swzh023 facing upstream



Waterbody swzh023 facing downstream

Swzh023



Waterbody swzh023 facing upline cross stream

| terbody Da | ata Sheet | | | | | | | | | | | |
|--------------------------------------|-----------------------|-------------------------------|-------------------------------------|----------------------------------|--------------------------|----------------|--------------------|-------------------------|---------------------|------------------|-----------------------|---------------------------|
| urvey Desci | ription | | | | | | | | | | · • | |
| oject Name: | | | Waterbod | y Name: | | | | Waterboo | y ID: | | Date | : |
| Supph | , blend | lor | UNT | TO BUF | FAL | s R | SN | SWZ | LHO | 24 | 7 | -241-13 |
| tate: Cou | nty: | > [| C | iompany: | 5 | ſ | Crew Me | mber Initi PP | als: Ph | oto ID(s): | - | |
| ract Number(s) | | -1 | | Allenost Entry | | nost Fr | | Associat | ed Weth | and ID(s) | | |
| 33-0 | | 002 | _ | NA | | ŇK | 7 | N | DV2 | <u> </u> | | |
| urvey Type: heck one) | | Centerline | ر م | Re-Route | X Ac | cess Ro | bad | C Other | | | | |
| Physical Att | ributes | | | | | | ****** | | | | | |
| itream Classifi check.one) | cation: | Ephemeral | | ntermittent | Pe | rennial | | | | | | |
| Vaterbody Typ sheak one) | e: X Stream | River | ום | itch 🔲 Pon | nd | Lake | Conn | necting swa | le ª | Other | • | |
| DHWM Width: | 0 ⁴ | OHWM Ind (check all that a | icator: npply) | | ear line bank | Ø | helving | Wy | /rested | | Scouring | E Water staining |
| Height: 6 | Aft. | Bent, missir | matted, or ng vegetati | | rack Ie | | itter and ebris | | brupt pli ommuni | ant ly change | □ So ch | il characteristic ange |
| Width of Water Top of Bank at | Centerline: | Bank to | Wid Wa | lth of Waterbo ter Edge at Ce | ody - Wate enterline: | r Edge | to | Depth (Approx.) | of Wate | r at Cente | erline: / t ft. | |
| Sinuosity: | | Wa | ter veloci | ly: 1 | | Bank he | aight | | | Banks | lope | |
| (check one) | Straight | (Арр | YOX.) | < 2 | | F | light _ | <u>3</u> _{ft.} | | | Right: | |
| Ľ | X Meanderin | 9 | | (ps | | | Left: | <u>L. 11.</u> | | | Left: | 20 degrees |
| Qualitative | Attributes | · | | | | | | | | | | |
| Water Appears (check one) | No wat | er V | lear | Turbid | Sheen on surfac | » | Surface scum | Ak ma | jai C |] Other: | | |
| Substrate: (check all that apply) | Bedroo | k 🚺 | | Sand | | Silt/clay | | Organic | L | Other: | | |
| % of Substrate | . 9 | % | | <u>15</u> , | % | 15 | % | | % | - | | % |
| Width of Ripar | Dft. | (check all the Avg. DB | ve Layers: etepply) H of Domi | nants: | rees: <u>/</u> 7 | ín. | | Shru | bs: | in. | | Herbs |
| Dominant Bar neg /r/D | k Vegetation | ulph | ra, P | hatanes c | الحديك | viel | \$,6 | aspen | esco: | rolinia | ona, l | Microstag |
| Aquatic Habit | ets (ex: submerge | or emerged i Over/ | aquatic vegeta | ation, overhanging to MS BAAN | banks/roots, ie | af packs, i | arge subme | arged wood, ril | iles, deep |); (20018); | | |
| Aquatic Organ | ll fish, | anozs | In | orlebri | tes | | | | | | | |
| | crosteg | · · | nine | a | | | | | | | | |
| Tributary is: (check one) | Ĕ | Watural | Γ | Artificial, ma | an-made | Шм | anipulate | ∋d | | | | |
| Disturbances (check all that epp) | | Livestock access | | Manure in waterbody | | Waste pipęs | discharg | e | Oth | ər: | | Decertite |
| Stream Qualit (check one) | ty ⁶ : | High | Þ | Moderate | | Low | | | | | | |

Waterbody ID:

124024



swzh024



Waterbody swzh024 facing upstream



Waterbody swzh024 facing downstream

Swzh024



Waterbody swzh024 facing upline cross stream

| terbody Data Sh | eet | • | | | | | | | |
|--|------------------------------------|---|----------------------|--------------------|-------------------|--------------------|---------------------------|--|-----------------------|
| urvey Description | • | | . • | | | | · . | | |
| oject Name: | | Waterbody | Name: | | 1 | Waterbody II |): | Date: | |
| Supply (back | R | UNTT | O BUFFA | no pu | W | 5 wz | 4022 | _ 7 | -24-15 |
| WV Weta | zel | | mpany: DDWES | τ | 2D | PP | rioto (D(8). | | |
| ract Number(s): | | M | lepost Entry: | Milepost | Exit: | Associated \ | Netland ID(s): | | |
| 33-001-A | 002 | | NA | N | 4 | NO | rZ | | |
| urvey Type: hock one) | Centerline | R | a-Route | Access i | Road | Other: | | | |
| Physical Attributes | | | | | | | | | |
| itream Classification: wheek.one) | Ephemera | i 🔲 in | termittent | K Perenni | al | | | | |
| Vaterbody Type: shock ono) | ream 🌅 Rive | er Ø Dito | ch 🚺 Pond | | Conne | ecting swale * | Other: | | |
| Width: 3 ft. | OHWM In (check ell the | dicator: tapply) | Clear on ba | line | Shelving | | ted S tation | couring | Mater staining |
| Height: 6 ft. | | , matted, or ling vegetatio | n Wrack | k 🛄 | Litter and debris | Abru | pt plant nunity change | Soi cha | characteristic nge |
| Width of Waterbody - To Top of Bank at Centerii | op of Bank to | Widt | h of Waterbody | - Water Edg | e to | Depth of V | Vater at Center | line: | |
| ĸ | 4 | | / | A. | | | 2' | ft | |
| Sinuasity: | ^{II.} | ater velocity | <u> </u> | II. Rank | height | | Banksl | 000 | |
| (check one) | aht (4) | oprox.) | 1 | Wain | Right: | <u>2</u> ti. | | Right: | <u>30</u> degrees |
| Mear | ndering | <u> </u> | fps | | Left: | <u>2-11.</u> | | Left: | <u>30</u> degrees |
| Qualitative Attribu | tes | | | | | | | | |
| Water Appearance: (check one) | o water | Ciear 🕅 1 | Furbld Asi | heen | Surface | Aigai mate | Other: | | |
| Substrate: B | iedrock 🕅 | Gravel | Sand | Silt/cl | ay |] Organic | Other: | | |
| % of Substrate: _ | % | 20 % | 20% | 62 |)% | % | ***** | ······································ | % |
| Width of Riparian Zone | e: Vegeta (check all Avg. Di | tive Layers: thetepply) BH of Domin | Trees | s: ín. | | Shrubs: | in. | | Herbs |
| Dominant Bank Vegets | ation: | ninec | Splix | nigra | | ishu u | n crest f | On lun | Turens |
| Aquatia Habitata (m | | | / | 0 | <u> </u> | | | · ") | 10110-56 |
| Pools | initie:Bec of eueide | a aquatic vəgetəti | on, overhanging bank | s/roots, leat pack | s, large submer | rged wood, nilles, | (geb bools): | | |
| Aquatic Organisms Ol | bserved: | nta | nno I | | ····· | | | ***** | |
| Invasive and/or T&E S | ipecies Observ | red: | h | <u>-</u> | | | | | <u></u> |
| Tributary is: (check one) | Natural | IX | Artificial, man-r | nade 🛄 | Manipulate | d | | | |
| Disturbances: (check ell that epply) | Livestoc access | ĸ | Manure in waterbody | Was piper | te discharge | | Other: AJ | scars | f rong |
| Stream Quality ^b : (check one) | High | 2 | Moderate | Low | | 427- <u></u> | gast | ine y | Ard, |

Form Rev. 2/21/2014

Waterbody ID: 24127

^a Connecting swales are water features that do not meet the definition of a waterbody (not an ephemeral waterbody) in that there is not a defined bed, bank, and ordinary high water mark, however, it is a water conveyance feature that is characterized by flow volume, frequency, and duration to make it more than just an erosional feature and connects two potential waters of the U.S. and thereby may be subject to Section 404 permitting.

^b High Quality: Natural channel, natural vegetation extends at least one or two active channel widths on each side; banks stable and protected by roots; water color is clear to tea-colored; no barriers to fish movement; many fish cover types available; diverse and stable aquatic habitat; no disturbance by livestock or man.

Moderate Quality: Altered channel evidenced by rip-rap; natural vegetation extends 1/3-1/2 of the active channel width on each side; filtering function or riparian vegetation only moderately compromised; banks moderately unstable; water color is cloudy, submerged objects covered with greenish film; moderate odor; minor barriers to fish movement; fair aquatic habitat; minimum disturbance by livestock or man.

Low Quality: Channel is actively down cutting or widening; rip rap and channelization excessive; natural vegetation less than 1/3 of the active channel width on each side; lack of regeneration; filtering function severely compromised; banks unstable (eroding); water color is muddy and turbid; obvious pollutants (algal mats, surface scum, surface sheen); heavy odor; severe barriers to fish movement; little to no aquatic habitat; severe disturbance from livestock or man.

Notes

Waterbody Sketch

Include north arrow, centerline, distance from centerline, photo locations, survey boundary, and unique IDs of associated features.



swzh022



Waterbody swzh022 facing upstream



Waterbody swzh022 facing downstream

Swzh022



Waterbody swzh022 facing upline cross stream

| aterbody Data S | iheet | | | | | | |
|--|---|---|-----------------------|---|---------------------------------------|---------------|--|
| urvey Description | n. | | | | | - - | |
| roject Name: | | Waterbody Nam | e: | | Waterbody ID: | | Date: |
| Supphy ! | Ender | UNT | TO BL | Anto Run | SWZHO | 02.6 | 7-24-15 |
| W We | tzell | Compa | ny: DWES | T JD | PP | oto (D(8): | |
| ract Number(s): | | Milepos | st Entry: | Milepost Exit: | Associated Wetla | nd ID(s): | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |
| 33-001 | - A002 | _ | AN | MA | NONS | 2 | |
| urvey Type: heckone) | Centerline | Re-Rou | te 🔀 | Access Road | Other: | | |
| hysical Attribute | : S | | | | 4+C_212288899424249 | | |
| tream Classification: heck.one) | Ephemeral | | itent | Perennial | | | |
| Vaterbody Type: theck one) | Stream | Ditch | Pond | Lake Conr | necting swale a | Other: | |
| Width: $3_{ft.}$ | OHWM Ind (check all that | icator: apply) | Clear line on bank | Shelving | Wrested | Scou | ring 🕅 Water staining |
| Height:ft. | Bent, missi | matted, or | Wrack line | Litter and debris | Abrupt plat | nt Change | Soil characteristic |
| Nidth of Waterbody - | Top of Bank to | Width of V | Vaterbody - V | Vater Edge to | Depth of Water | at Centerline | 2: |
| E C | | water wat | | 4 | | 1 | ft |
| | <u> </u> | iter velocity: | | _ II. Bank beight | | Bank slope | . it. |
| check one) | aight (Ap) | prox.) | | Right: | 6 ft. | Rig | ght: 60 degrees |
| Me | andering | <[| fps | Left: | 6. | L. | eft: 62 degrees |
| Qualitative Attrib | utes | | | | | | |
| Water Appearance: (check one) | No water | lear 🕅 Turbid | Shee on si | n Surface | Algai | Other: | |
| Substrate: | Bedrock 🔣 G | iravel 📉 | Sand | Silt/clay | Organic | Other: | |
| % of Substrate: | % 2_ | 0 % | 20% | 60% | % | | % |
| Width of Riparlan Zo | ne: Vegetati (check all the Avg. DB | ve Layers: ^{satapply)} H of Dominants: | Trees: | ín. | Shrubs: | in. | Herbs |
| Dominant Bank Vege | (epprox.) | | | ************************************** | | Ro | ca mult. Al |
| Ulbornum | dontate | n, M.zro | stegin | ~ vinine | a, Impati | ens co | ponsis |
| Aquatic Habitats (ex: | submerged or emerged | aquatic vegetation, ove | rhanging banks/roc | its, leaf packs, large subme | rged wood, riffles, deep po | ols): | |
| Aquatic Organisms | Observed: Invertel | brates | **** | an 19 16 16 16 16 16 17 17 16 16 17 17 18 17 18 18 18 18 18 18 18 18 18 18 18 18 18 | | | |
| Invasive and/or T&E | Species Observe | ninen 1 | Rosa 1 | nullifle | · · · · · · · · · · · · · · · · · · · | | |
| Tributary is: (check one) | Natural | Artif | icial, man-mac | le Manipulate | ed | | |
| Disturbances: (check all that apply) | Livestock access | Man wate | ure in erbody | Waste discharg | e 🚺 Othe | " Ad | ment Ros |
| Stream Quality ^b : (check one) | High | Mod | lerate | Low | | Culu | ert Pipe |

| Form Rev | . 2/21/2014 |
|----------|-------------|
|----------|-------------|

Waterbody ID:



swzh026



Waterbody swzh026 facing upstream



Waterbody swzh026 facing downstream

Swzh026



Waterbody swzh026 facing upline cross stream

Waterbody Data Sheet

| Survey Description | n, | | ·. · | | | | • • • | | |
|--|---------------------------------------|-----------------------------|---|-----------------------|---------------------|-----------------------------------|-------------------------|------------------|----------------------|
| Project Name: | ~ | Waterbody | Name: | 710 | V | Vaterbody ID: | | Date: | |
| Supply H | encer | UNT | 70 But | th 10 kg | un | SWZH | 012 | 7- | 23-15 |
| State: County: | · · · · · · · · · · · · · · · · · · · | Co | mpany: | | Crew Merr | ber Initials: | Photo ID(s): | | |
| W WET | LEL | A | DUEST | | 50,1 | PP | | | |
| Fract Number(s): | | MI | epost Entry: | Milepost E | xit: | Associated W | etland ID(s): | | |
| 33-001- | 1500A | [1 | | ATA | | NOUS | | | |
| Survey Type: check one) | Centerline | Re | -Route | | toad [| Other: | | | |
| Physical Attribute | 95 | | 999 (C. C. C | | ₽ `~^_`` | aring Shipici Shiriston - anim | | | |
| Stream Classification: (check.one) | Ephemeral | J Ini | ermittent | Perennia | 1 | | | | |
| Waterbody Type: (check one) | Stream | Dite | h Dond | Lake | Conne | ecting swale * | Other: | | |
| OHWM | OHWM Ind | icator: | | [r | 0.h e.h da e | 1177 1 A lun - h | | | ITZIA (alar |
| Width:ft. | | י אישיאי | on ban | ine L | Sneiving | vegeta | ation | unng | staining |
| Height <u>3"</u> ft. | Bent, missi | matted, or ng vegetation | Wrack line | | Litter and debris | Abrupt | t plant unity change | Soil o chan | characteristic ge |
| Width of Waterbody - Top of Bank at Cente | Top of Bank to rline: | Width Wate | of Waterbody | - Water Edg rline: | e to | Depth of Wi (Approx.) | ater at Centerlin | ie: | |
| 8 | ۲ ft. | | 1 | ft. | | | <u>/4</u> " | _ ft. | |
| Sinuosity: | Wa | ter velocity: | | Bank I | neight | | Bank slop | e | |
| (check one) | aight (Ap) | nox.) | | | Right (| " | R | ight: | 70 degrees |
| | andering | <u><</u> | fps | | l offr 1 | | | | |
| | | | | | Leit. | <u></u> ft. | | 7 | 0degrees |
| Qualitative Attrib | utes | | | | | | | | |
| Water Appearance: (check one) | No water | lear 🔲 T | urbid Sh | | Surface | Algai mate | Other: | | |
| Substrate: | Bedrock 🕅 G | iravel | Sand | Silt/cia | iy 🗖 | Organic | Other: | | |
| % of Substrate: | 20 % | 7D % | % | 10 | _% | | | | % |
| Width of Riparian Zo | ne: Vegetati | ve Layers: | | | Γ | Stephenike. | <u></u> | | |
| <u> </u> | Avg. DB (epprox.) | H of Domina | ants: | in. | L | | in. | | |
| Dominant Bank Veg | etation: | | | | 1. (| 1 ~ ~ . | F | | C. D. In |
| Impa-116 | ins cape | n515, | Doerm | eria c | yino | (TICH) | ragus g | mane | VINONA |
| (184) R. HIQS | anpweißeq ot eweißeg | aqualic vegetatio | n, overhanging banks | /roots, leaf pack | , iarge submerç | ged wood, riffies, da | sep pools): | | |
| Aquatic Organisms | Observed: | | | | • | | | d.g. (ullularia) | ***** |
| Invasive and/or T&F | Species Ohserve | d: | | | | | | | |
| Midros | tegrim 1 12 | nines | L. | | | | | | |
| Tributary is: (check one) | Netural | X | Artificial, man-m | nade 🛄 | Manipulatec | ± | | | |
| Disturbances: (check all that apply) | Livestock | | Manure in waterbody | Wast pipes | e discharge | × لک | Other: NDA | dsid | e dith |
| Stream Quality ^b : (check one) | High | Z | Moderate | Low | | | | | |

| - | _ | _ | | _ | | |
|---|-----|--------|----|----|------|------------|
| ł | la! | mar | hr | vi | e li | 3. |
| х | | <- i i | wu | ~ | | . . |

^a Connecting swales are water features that do not meet the definition of a waterbody (not an ephemeral waterbody) in that there is not a defined bed, bank, and ordinary high water mark, however, it is a water conveyance feature that is characterized by flow volume, frequency, and duration to make it more than just an erostonal feature and connects two potential waters of the U.S. and thereby may be subject to Section 404 permitting.

^b High Quality: Natural channel, natural vegetation extends at least one or two active channel widths on each side; banks stable and protected by roots; water color is clear to tea-colored; no barriers to fish movement; many fish cover types available; diverse and stable aquatic habitat; no disturbance by livestock or man.

Moderate Quality: Altered channel evidenced by rip-rap; natural vegetation extends 1/3-1/2 of the active channel width on each side; filtering function or riparian vegetation only moderately compromised; banks moderately unstable; water color is cloudy, submerged objects covered with greenish film; moderate odor; minor barriers to fish movement; fair aquatic habitat; minimum disturbance by livestock or man.

Low Quality: Channel is actively down cutting or widening; rip rap and channelization excessive; natural vegetation less than 1/3 of the active channel width on each side; lack of regeneration; filtering function severely compromised; banks unstable (eroding); water color is muddy and turbid; obvious pollutants (algal mats, surface scum, surface sheen); heavy odor; severe barriers to fish movement; little to no aquatic habitat; severe disturbance from livestock or man.

Notes

Waterbody Sketch

Include north arrow, centerline, distance from centerline, photo locations, survey boundary, and unique IDs of associated features.

4K


Waterbody swzh012 facing upstream



Waterbody swzh012 facing downstream



Waterbody swzh012 facing upline cross stream

| V | Vate | rbo | dy | Data | Sheet |
|---|------|-----|----|------|-------|
| | | | | | |

| Survey Description | • | | | | | |
|---|---|---|------------------------------|---|----------------------|----------------------------|
| Project Name: DTI Supply | wendere UNT | dy Name: VO BUFFAL | DRUN | Waterbody ID: 5WZGO | 25 | Date: 5-13-(5- |
| State: County: WV Wefz | rel | Company: DONEST | Crew Mer | mber Initials: Pho JG | to ID(s): | |
| Fract Number(s): 33-601 - 140 | 6 2 | Milepost Entry: 24.9 | Milepost Exit: 24.9 | Associated Wetla | nd ID(s): | |
| Survey Type: (check one) | | Re-Route | Access Road | Other: | | |
| Physical Attributes | | | | | | |
| Stream Classification: | Ephemeral | Intermittent | Perennial | | | |
| (check one) | eam 🔲 River 🔲 🛙 | Ditch Dend | Lake Conne | ecting swale * | Other: | |
| OHWM Width: 4/ | OHWM Indicator: (check all that apply) | Clear line on bank | Shelving | Wrested | Scou | ring Water staining |
| Height:ft. | Bent, matted, o missing vegeta | tion Wrack | Litter and debris | Abrupt plar community | t change | Soil characteristic change |
| Width of Waterbody - To Top of Bank at Centerlin | p of Bank to Wi e: Wa | dth of Waterbody - W ater Edge at Centerlin 2 - 5 | /ater Edge to | Depth of Water ((Approx.) | at Centerline (" | ft |
| Sinuosity: (check one) Straigh | tt. Water veloc (Approx.) | ity: | Bank height Right: | ft. | Bank slope Rig | ght: <u>ZO</u> degrees |
| A Meano | tering | | | <u> </u> | L | eff: <u>30</u> degrees |
| Qualitative Attribute Water Appearance: | es | patistoy | joneraj | | | |
| (checkone) No | water 🔏 Clear | Turbid Shee on su | n Surface | Algal Mats | Other: | |
| Substrate: | drock 🕅 Gravel | Sand | Silt/clay | Organic | Other: | |
| % of Substrate: | 0% 60% | 10 % | 20% | % | | % |
| Width of Riparian Zone: $725_{\text{ft.}}$ | Vegetative Layers (check all that apply) Avg. DBH of Dom (approx.) | inants: | <u>)</u> in. | K Shrubs: | _ in. | Herbs |
| Dominant Bank Vegetat | ion: ccidentalis, | Liniodendro | n tulipitera | Fraxinus | 2neilur | in inac |
| Aquatic Habitats (ex: subr (11st) (11 | merged or emerged aquatic vegei | ation, overhanging banks/roo | is, leaf packs, large submer | ed wood, riffles, deep poo | ls): | <u></u> |
| Aquatic Organisms Obs (1151) SMAUING | served: prfebrate, sm | all frozs | | | | |
| Invasive and/or T&E Sp | ecies Observed: Uiminea | | | Malada an | | |
| Tributary is: (check one) | | Artificial, man-mad | e 🔲 Manipulated | ************************************** | <u></u> | |
| Disturbances: (check all that apply) | Livestock [| Manure in waterbody | Waste discharge | Other | Eras | ement. |
| Stream Quality ^b : (check one) | High | Moderate | Low | | | |



Form Rev. 2/21/2014

swzg025



Waterbody swzg025 facing upstream



Waterbody swzg025 facing downstream

Swzg025



Waterbody swzg025 facing upline cross stream

Waterbody Data Sheet

| Survey Description | | | | |
|--|---|---|--------------------------------|-------------------------------|
| Project Name: | Waterbody Name: 00.1- | Q | Waterbody ID: | Date: |
| DTI Supply Hender | UNT 10 BUDALO | Run | 5026026 | 5-13-15 |
| State: County: | Company: | Crew Men | ber Initials: Photo ID | (\$): |
| WV Wetze | DDWEST | JD J | 6 | |
| Tract Number(s): | Milepost Entry: Mil | epost Exit: | Associated Wetland ID | (s): |
| 33-001- A002 | 749 | DHG | NONE | (0). |
| | 21.1 2 | - 1. 7 | * | |
| Centerline | Re-Route | ccess Road | Other: | |
| Physical Attributes | | | | |
| Stream Classification: (check.one) Ephemeral | | erennial | | |
| Waterbody Type: | | | 500000 | |
| (check one) | r Ditch Pond | Lake Conne | cting swale * | her: |
| OHWM OHWM Inc | licator: | h Kehahijaa | Mainsted 17 | Assouring Mater |
| Width: 12 ft. | on bank | Manelving | vegetation | staining |
| Height: | matted, or Wrack ng vegetation Tine | Litter and debris | Abrupt plant | Soil characteristic ge change |
| Width of Waterbody - Top of Bank to | Width of Waterbody - Water Water Edge at Contorline: | er Edge to | Depth of Water at Ce | nterline: |
| fop of Bank at Centerine. | | | | 7 ¹¹ |
| <u> </u> | | Dank balabi | 4 | n. |
| (check one) | prox.) | Bank neight Right: / 7 | | Right: 7Λ |
| Straight | 1 | <u>[</u> | <u></u> ft. | degrees |
| Meandering | fps | Left: | 7 " | Left: 70 degrees |
| Qualitative Attributes | | | <u> </u> | |
| Water Appearance: | | Currence - | | |
| | on surfa | ce scum | mats | · |
| Substrate: 🛛 Bedrock 🕅 G | Gravel Sand | Silt/clay | Organic Other | |
| (check all that apply) | a a a | <u>っ</u> し | - | |
| % of Substrate: <u>0</u> % <u>6</u> | $\underline{20\%}$ $\underline{10\%}$ | <u> </u> | % | % |
| Width of Riparian Zone: Vegetati | ve Layers: KTrees | L. | Z Shubs | Herbs |
| $\frac{23}{\text{ft.}}$ ft. Avg. DB (approx.) | H of Dominants: | ín. | in. | |
| Dominant Bank Vegetation: | les Fraxmus per | nsyranica | a, Linopono | Oron Julips Fora |
| Aquatic Habitits (ex: submerged or emerged (188) VT THE PEOLS | aquatic vegetation, overhanging banks/roots, le | <u>45 FICHUL</u> ear packs, large submerge | ed wood, riffles, deep pools): | -5 |
| Aquatic Organisms Observed: | ebrates, small | frozp | <u></u> | |
| Invasive and/or T&E Species Observe | it: rinea | | | |
| Tributary is: (check one) Natural | Artificial, man-made | Manipulated | | |
| Disturbances: (check all that apply) Livestock access | Manure in waterbody | Waste discharge pipes | Other: | Beenent |
| Stream Quality ^b : (check one) High | Moderate | Low | | |

| | Waterbody ID: |
|---|---|
| | SW26026 |
| ^a Connecting swales are water features that do not meet the definition of a waterbody (not an ephemeral waterbody) in tha and ordinary high water mark, however, it is a water conveyance feature that is characterized by flow volume, frequency, and an erosional feature and connects two potential waters of the U.S. and thereby may be subject to Section 404 permitting. | t there is not a defined bed, bank, I duration to make it more than just |
| ^b High Quality: Natural channel, natural vegetation extends at least one or two active channel widths on each side; i roots; water color is clear to tea-colored; no barriers to fish movement; many fish cover types available; diverse and disturbance by livestock or man. | panks stable and protected by stable aquatic habitat; no |
| Moderate Quality: Altered channel evidenced by rip-rap; natural vegetation extends 1/3-1/2 of the active channel v function or riparian vegetation only moderately compromised; banks moderately unstable; water color is cloudy, su greenish film; moderate odor; minor barriers to fish movement; fair aquatic habitat; minimum disturbance by livesto | vidth on each side; filtering omerged objects covered with ck or man. |
| Low Quality: Channel is actively down cutting or widening; rip rap and channelization excessive; natural vegetatio channel width on each side; lack of regeneration; filtering function severely compromised; banks unstable (eroding turbid; obvious pollutants (algal mats, surface scum, surface sheen); heavy odor; severe barriers to fish movement severe disturbance from livestock or man. | n less than 1/3 of the active); water color is muddy and ; little to no aquatic habitat; |
| Notes | |
| Waterbody Sketch Include north errow, centerline, distance from centerline, photo locations, survey boundary, and unique IDs of associat | sd foatures. |
| 5WZE0265 5WZ | ELOW C |
| A FLOW | |
| DIRT ROAD AND | |
| Lost | |
| | |
| | FLOR 1 |
| | |
| | |
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| | |
| | / |

T

swzg026



Waterbody swzg026 facing upstream



Waterbody swzg026 facing downstream

Swzg026



Waterbody swzg026 facing upline cross stream

| and the state of the | · · · | | |
|--|---|--|-------------------------|
| oject Name: | Waterbody Name: | Waterbody ID: | Date: |
| Supply Hendor | UNT TO BUFFALD R | UN SWZHOI | 0 7/23/15 |
| tate: County: | Company: | Crew Member Initials: Phot | o ID(s): |
| W Wetzel | DDWESY | JD, PP | L MAR A |
| ract Number(s): | Milepost Entry: Milepost | Exit: Associated Wetland | d ID(\$): |
| 33-001-A002 | - MA N | A NAE | |
| treck one) | Re-Route Access | Road Other: | |
| Physical Attributes | | | |
| itream Classification: Ephemera | | al | |
| Vaterbody Type: phock one) IXI Stream Rive | er Ditch Pond DLake | Connecting swale * | Other: |
| | hour hour | | 9] |
| Width: 9 ft. | (apply) Clear line Don bank | Shelving Wrested vegetation | Scouring Water staining |
| Height: Height: | i, matted, or Wrack C | Litter and Abrupt plant debris community | Soil characteristic |
| Width of Waterbody - Top of Bank to Top of Bank at Centerline | Width of Waterbody - Water Edg | je to Depth of Water a | t Centerline: |
| <u>15</u> ft. | t. | | ft. |
| Sinuosity: W | ater velocity: Bank | height | Bank slope |
| (A4 | аргок.) | Right: 11/2 | Right: 7,0 degrees |
| X Meandering | < L fps | | Laft. |
| K Wood Working | | 1/2 R. | 45_degrees |
| Qualitative Attributes | | | |
| Water Appearance: (check one) No water | Clear Turbid Sheen on surface | Surface Algai (scum mats | Diher: |
| Substrate: Bedrock | Gravel Sand Silt/c | isy 🗌 Organic 🔲 C | Diher: |
| % of Substrate: <u>10</u> % | 70 % 5 % 15 | %% | % |
| Width of Riparian Zone: Vegetat | tive Layers: that epply) X Trees: | Shrube: | Herbs |
| 7 LD A. OTR Avg. DI | BH of Dominants: in | kolumo J | _ in. |
| Dominant Bank Vegetation: | ······································ | | |
| 1000 Photomus occidente | alles, Juglians right | , Carpinus, M | icrostegium um |
| Aquatic Habitats (ex: submerged or emerged | d aquatic vegetation, overhanging banks/roots, leaf pac | ks, large subinenged wood, rifiles, deep poo | is): |
| 1 KIHA DUL M | verhanine mosts | | |
| Wes TOOLSI L | | | |
| Aquatic Organisms Observed: | | | |
| Aquatic Organisms Observed: (18) SMALL INVERCED AN Investive and/or T&E Species Observ | <u>දේ</u> ed: | | |
| Aquatic Organisms Observed: (App SMALL Invertebrate Invasive and/or T&E Species Observ (App Microstegium Vi | es red: MUNDA | | |
| Aquatic Organisms Observed: (ast) SMALL INVERSE Species Observ (ast) Invasive and/or T&E Species Observ (ast) MCDStegum VI Tributary is: (observed) Natural | ed: MUNIC Artificial, man-made | Manipulated | |
| Aquatic Organisms Observed: (180) SMAU INVERSIONAL Invasive and/or T&E Species Observ (180) MICOSTORY (check one) Disturbances: (check ell that epply) Livestoc access | ed: MUNCC Artificial, man-made k Manure in Was waterbody pipe | Manipulated te discharge | Adjament Road |

Waterbody ID:



^a Connecting swales are water features that do not meet the definition of a waterbody (not an ephemeral waterbody) in that there is not a defined bed, bank, and ordinary high water mark, however, it is a water conveyance feature that is characterized by flow volume, frequency, and duration to make it more than just an erosional feature and connects two potential waters of the U.S. and thereby may be subject to Section 404 permitting.

^b High Quality: Natural channel, natural vegetation extends at least one or two active channel widths on each side; banks stable and protected by roots; water color is clear to tea-colored; no barriers to fish movement; many fish cover types available; diverse and stable aquatic habitat; no disturbance by livestook or man.

Moderate Quality: Altered channel evidenced by rip-rap; natural vegetation extends 1/3-1/2 of the active channel width on each side; filtering function or riparian vegetation only moderately compromised; banks moderately unstable; water color is cloudy, submerged objects covered with greenish film; moderate odor; minor barriers to fish movement; fair aquatic habitat; minimum disturbance by livestock or man.

Low Quality: Channel is actively down cutting or widening; rip rap and channelization excessive; natural vegetation less than 1/3 of the active channel width on each side; lack of regeneration; filtering function severely compromised; banks unstable (eroding); water color is muddy and turbid; obvious pollutants (algal mats, surface scum, surface sheen); heavy odor; severe barriers to fish movement; little to no aquatic habitat; severe disturbance from livestock or man.

Notes

Waterbody Sketch

Include north arrow, centerline, distance from centerline, photo locations, survey boundary, and unique IDs of associated features.





Waterbody swzh010 facing upstream



Waterbody swzh010 facing downstream



Waterbody swzh010 facing upline cross stream

Waterbody Data Sheet

| urvey Description | • | | | | |
|--|-------------------------------|------------------------------------|--|---|----------------------------|
| roject Name: | | Waterbody Name: | | Waterbody ID: | Date: |
| Supply H | epder | UNT TO BU | ffalo run | SWZHOII | 2-23-15 |
| tate: County: | | Company: | Crew Me | ember Initials: Photo ID | (8): |
| WV WET | ZEL | DDUE: | ST JD | , PP | |
| ract Number(s): | | Milepost Entry: | Milepost Exit: | Associated Wetland ID | (8): |
| 33-001- | -A002 | IV A | NA | NOVE | |
| urvey Type: hock one) | Centerline | Re-Route | Access Road | Other: | |
| 'hysical Attributes | | | ing the second of the second | ۲۰۰۰ - ۲۵ کار این | |
| itream Classification: wheek.one) | Ephemeral | | Perennial | | |
| Vaterbody Type: check one) | ream [] River | Ditch Pond | Lake Con | necting swale ^a | her: |
| DHWM | OHWM Ind (check all that a | icator: | r line Shelving | Wrested | Scouring Water |
| Height A | F Bent. | matted, or TTAWra | ank 🗖 Litter and | Vegetation | Soil characteristic |
| 100 ft. | missi | ng vegetation | debris | community char | nge ^{Land} change |
| Top of Bank at Centerii | ne: | Water Edge at Cen | y - water Loge to terline: | (Approx.) | |
| Sinuosity: | Wa | ter velocity: | π. Bank height | Bar | ik slope |
| (check one) Strai | ght (App | хок.) | Right | | Right: |
| IV Man | ndering | | - | ft. | degrees |
| | Mornig | | | ft. | degrees |
| Qualitative Attribu | tes | | | | |
| Water Appearance: (check one) | lo water 🔲 C | lear 🛄 Turbid 🛄 | Sheen Surfac | e Algai Othe mats | :r. |
| Substrate: | ledrock XC | iravel XSand | Z Silt/clay | Organic Othe | r: |
| % of Substrate: | 20 * 7 | 0 * 5 * | 5 % | % | |
| Width of Riparian Zon | e: Vegetati | ve Layers: | | L'Ushruhe: | Herbs |
| 725 _{ft.} | Avg. DB | H of Dominants: | in. | in. | |
| Dominant Bapk Veget | ation: ful f | ilern, Acer Br | stbatum, Fa | gus grondido | ha, Bochmerica |
| Aquatic Habitats (ex. a | ubmerged or emerged | equalic vecetation overhanging bar | Nakonta leat packa large subr | CIDSKY/Um | cy/Indrica |
| (IM) DOD'S, F | 1 Alles | ndamua LoGormont a Lottim Burß wai | | leigen moor, muss, anep possy. | |
| Aquatic Organisms O | bserved: | | | | |
| None | | | | | |
| Invasive and/or T&E \$ | Species Observe | d: / | | ************************************** | |
| Tributary is: (check one) | | Artificial, man | -made XManipula | ted | |
| Disturbances: (check ell thet epply) | Livestock | Manure in | Waste dischar | ge 🚺 Other: | Den Den |
| Stream Quality ^b : (check one) | High | Moderate | | <u>۲ ۲</u> ط | regenerat rold |

Waterbody ID:



^a Connecting swales are water features that do not meet the definition of a waterbody (not an ephemeral waterbody) in that there is not a defined bed, bank, and ordinary high water mark, however, it is a water conveyance feature that is characterized by flow volume, frequency, and duration to make it more than just an erosional feature and connects two potential waters of the U.S. and thereby may be subject to Section 404 permitting.

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Moderate Quality: Altered channel evidenced by rip-rap; natural vegetation extends 1/3-1/2 of the active channel width on each side; filtering function or riparian vegetation only moderately compromised; banks moderately unstable; water color is cloudy, submerged objects covered with greenish film; moderate odor; minor barriers to fish movement; fair aquatic habitat; minimum disturbance by livestock or man.

Low Quality: Channel is actively down cutting or widening; rip rap and channelization excessive; natural vegetation less than 1/3 of the active channel width on each side; lack of regeneration; filtering function severely compromised; banks unstable (eroding); water color is muddy and turbid; obvious pollutants (algal mate, surface scum, surface sheen); heavy odor; severe barriers to fish movement; little to no aquatic habitat; severe disturbance from livestock or man.

Notes

Waterbody Sketch





Waterbody swzh011 facing upstream



Waterbody swzh011 facing downstream



Waterbody swzh011 facing upline cross stream

| aterbody Data S | iheet | | | | | |
|--|---|---|---|--|----------------------|--|
| urvey Descriptio | n | | | | | |
| roject Name: | Wate | rbody Name: | | Waterbody ID: | Dat | e: |
| supply less | Sor UI | JT 70 | 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - | SWZHOO | 8 | 1-22-15 |
| tate: County: \mathcal{WV} | ETZEL | Company: DDWES | T Crew Me | ember Initials: Photo | o ID(s): | |
| ract Number(s): | | Milepost Entry: | Milepost Exit: | Associated Wetland | I ID(s): | |
| NO PARCEC . | ID NUMBER | NA | NA | NONE | • | |
| urvey Type: heck one) | Centerline | Re-Route | Access Road | Other: | | |
| Physical Attribute | 25 | ŢŢŶŶĸĊĊŦŶĬŎ ĸĸĸŢŎĊŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎ | | ĸŢĸġĊĸĬŢĊŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢ | | |
| Itream Classification | Ephemeral | | Perennial | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | <u>,</u> | |
| Vaterbody Type: | Stream 🛄 River 🚺 | Ditch Pond | | necting swale * | Other: | |
| Width: 4 | OHWM Indicator (check all that apply) | Clear li On ban | ne Shelving k | Wrested | Scouring | Water |
| Height: | Bent, matter missing veg | d, or Wrack Jetation line | Litter and debris | Abrupt plant | hange c | oil characteristic hange |
| Nidth of Waterbody - Top of Bank at Cente | Top of Bank to rline: | Width of Waterbody - Water Edge at Center | Water Edge to line: | Depth of Water at (Approx.) | Centerline: | ###################################### |
| 4 | 2 ft. | | ft. | | ft. | |
| inuosity: check one) | aight | elocity: | Bank height Right: | 4 | Bank slope Right: | 80 |
| Me | andering | fps fps | Left: | <u> </u> | Left: | 60 degrees |
| Qualitative Attrib | outes | | | <u> </u> | | <u> </u> |
| Water Appearance; (check one) | No water 📃 Clear | Turbid Sho | een Surface | e Algai C mats | ther: | |
| Substrate: | Bedrock K Gravel | Sand | Silt/clay | Organic O | ther: | |
| % of Substrate: | 10 % 70 | %% | 10 % | % | | % |
| Width of Riparian Zo | one: Vegetative La (check all that appl) | yers: | 8 1 | Shrubs: | 715 | Herbs |
| | (approx.) | | In. | | - H1. | |
| Dominant Bank Veg | etation: O pengens | Linderdy | ontulipit | ern, Micr | oskçin | ~ VININ |
| Aquatic Habitats (ex: | submerged or emerged equatic | vegetation, overhanging banks/ | roots, leaf packs, large subm | erged wood, riffles, deep pools | 3): | |
| Aquatic Organisms | Observed: | | ang sang pang sang sang sang sang sang sang sang s | <u>ى ئى ئى</u> | | |
| Invasive and/or T&E | Species Observed: | | | | 9 | |
| Tributary is: (check one) | Natural | Artificial man-m | ade Manipulat | ed | vora | |
| Disturbances: (check all that apply) | | Manure in waterbody | Waste discharg | ge XOther: | אמנה | side d'i |
| Stream Quality ^b : (check one) | High | Moderate | Low | - 2 Maintin marakan tina manakan kana kana kana kana kana kana | / | |

Waterbody ID:



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^b High Quality: Natural channel, natural vegetation extends at least one or two active channel widths on each side; banks stable and protected by roots; water color is clear to tea-colored; no barriers to fish movement; many fish cover types available; diverse and stable aquatic habitat; no disturbance by livestock or man.

Moderate Quality: Altered channel evidenced by rip-rap; natural vegetation extends 1/3-1/2 of the active channel width on each side; filtering function or riparian vegetation only moderately compromised; banks moderately unstable; water color is cloudy, submerged objects covered with greenish film; moderate odor; minor barriers to fish movement; fair aquatic habitat; minimum disturbance by livestock or man.

Low Quality: Channel is actively down cutting or widening; rip rap and channelization excessive; natural vegetation less than 1/3 of the active channel width on each side; lack of regeneration; filtering function severely compromised; banks unstable (eroding); water color is muddy and turbid; obvious pollutants (algal mats, surface scum, surface sheen); heavy odor; severe barriers to fish movement; little to no aquatic habitat; severe disturbance from livestock or man.

Notes

Waterbody Sketch

Include north arrow, centerline, distance from centerline, photo locations, survey boundary, and unique IDs of associated features.





Waterbody swzh008 facing upstream



Waterbody swzh008 facing downstream



Waterbody swzh008 facing upline cross stream

Survey Description Project Name: Waterbody Name: Waterbody ID: Date: 7 -22-(S UNT TO 1)7 Crew Member Initials: Company: Photo ID(s): DDWEST PP ΔĽ Milepost Entry: Milepost Exit: Associated Wetland ID(s): Tract Number(s): NO PARCEL ID NUMBER NINS ĸЛА ЛА Survey Type: (check one) Centerline Re-Route X Access Road Other: Physical Attributes Stream Classification: X Intermittent (check one) Ephemeral Perennial Waterbody Type X Stream River (check one) Ditch Connecting swale * Other: Pond Lake OHWM **OHWM Indicator:** Water check all that apply) Clear line Wrested Shelving Scouring Width: Vegetation staining on bank Bent, matted, or Height: Wrack Litter and Abrupt plant Soil characteristic missing vegetation line change debris community change Width of Waterbody - Water Edge to Width of Waterbody - Top of Bank to Depth of Water at Centerline: Top of Bank at Centerline: Water Edge at Centerline: (Approx.) X fř ft. Sinuosity: Water velocity: Bank height Bank slope check one (Approx.) **Right:** Right: Straight (a) degrees fŕ. $<|_{fps}$ Meandering Left: Left: e) dearees **Qualitative Attributes** Water Appearance (check one) X Clear Other: No water Turbid Sheen Surface Algal on surface scum mats Bedrock X Gravel Substrate: Sand Silt/clay Organic Other: (check all that apply) % of Substrate: % % Width of Riparian Zone: Vegetative Layers: (check all that apply) X Trees: X Shrubs: K Herbs 15 in. IU Avg. DBH of Dominants: ft. in. (approx.) Dominant Bank Vegetation: Platmus occidentalis, Ulmus americana Immo. Aquatic Habrats (ex: submerged or emerged equatic vegetation, overhanging banks/roots, leaf packs, large submerged wood, riffles, deep pools): (iisi) rines Aquatic Organisms Observed: (list) NONE Invasive and/or T&E Species Abserved: crostegum Jor IMINOA Tributary is: Natural Manipulated (check one) Artificial, man-made Disturbances: Other: A DISECULT FOREST Waste discharge heck all that apply) Livestock Manure in access waterbody pipes Stream Quality^b: (check one) K Moderate High Low

Waterbody Data Sheet

Waterbody ID:

SWZHOD9

^a Connecting swales are water features that do not meet the definition of a waterbody (not an ephemeral waterbody) in that there is not a defined bed, bank, and ordinary high water mark, however, it is a water conveyance feature that is characterized by flow volume, frequency, and duration to make it more than just an erosional feature and connects two potential waters of the U.S. and thereby may be subject to Section 404 permitting.

^b High Quality: Natural channel, natural vegetation extends at least one or two active channel widths on each side; banks stable and protected by roots; water color is clear to tea-colored; no barriers to fish movement; many fish cover types available; diverse and stable aquatic habitat; no disturbance by livestock or man.

Moderate Quality: Altered channel evidenced by rip-rap; natural vegetation extends 1/3-1/2 of the active channel width on each side; filtering function or riparian vegetation only moderately compromised; banks moderately unstable; water color is cloudy, submerged objects covered with greenish film; moderate odor; minor barriers to fish movement; fair aquatic habitat; minimum disturbance by livestock or man.

Low Quality: Channel is actively down cutting or widening; rip rap and channelization excessive; natural vegetation less than 1/3 of the active channel width on each side; lack of regeneration; filtering function severely compromised; banks unstable (eroding); water color is muddy and turbid; obvious pollutants (algal mats, surface scum, surface sheen); heavy odor; severe barriers to fish movement; little to no aquatic habitat; severe disturbance from livestock or man.

Notes

Waterbody Sketch

Include north arrow, centerline, distance from centerline, photo locations, survey boundary, and unique IDs of associated features.





Waterbody swzh009 facing upstream



Waterbody swzh009 facing downstream



Waterbody swzh009 facing upline cross stream

| terbody Data Sl | neet | | | | | |
|--|---|---|---|--|------------------|-----------------------------|
| urvey Description | • | · · · | | · | | |
| oject Name: | Wat | erbody Name: | (| Waterbody ID: | Dat | æ: |
| upply Her | Ador U | NT TO Arc | hes Fork | SWZHOI | 3 7 | 1-23-15 |
| tate: County: ルイ いど | TZEL | Company: AD WEST | - Crew Men | nber Initials: Phot | o (D(s): | |
| ract Number(s): | | Milepost Entry: | Milepost Exit: | Associated Wetlan | d ID(s): | |
| 33-001- | -A002 | NA | NA | NONE | | |
| urvey Type: hook one) | Centerline | Re-Route | Access Road | Other: | | |
| hysical Attribute: | 5 | | | | | |
| itream Classification: check.one) | Ephemeral | | Perennial | | | |
| Vaterbody Type: | tream 🔲 River | Ditch Dond | Lake Conne | ecting swale " | Other: | |
| Width: 3 | OHWM Indicato (check all that epply) | er: Clear lin on bank | e Shelving | Wrested vegetation | Scouring | Water staining |
| Height: \int_{π}^{π} ft. | Bent, matt missing ve | ed, or Wrack getation line | Litter and debris | Abrupt plan | t s change cl | oil characteristic nange |
| Width of Waterbody - | Top of Bank to | Width of Waterbody - 1 | Nater Edge to | Depth of Water a | t Centerline: | |
| Top of Bank at Center 5 | line: ft. | Water Edge at Centerl | ft. | (Approx.) | | |
| Sinuosity: | Water v | elocity: | Bank height | | Bank slope | |
| (check one) | ight (Approx.) | < 1 | Right | <u>3</u> _{ft.} | Right: | 80 degrees |
| | indering | fps | Left: |)ft. | Left: | 70_degrees |
| Qualitative Attrib | utes | | | | | |
| Water Appearance: (check one) | No water 🚺 Clear | Turbid She on s | en Surface urface scum | Algai a mats | Other: | |
| Substrate: X | Bedrock 🛛 Grave | Sand | Silt/clay | Organic | Other: | |
| % of Substrate: | <u>10 % 70</u> | <u>* 5</u> * | 15 % | | | % |
| Width of Riparian Zor | ne: Vegetative L (check all that epg | ayers: (h) Trees: | | Shrubs: | #.* | Herbs |
| <u> </u> | Avg, DBH of (approx.) | Dominants: | in. | | _in. | - |
| Dominant Bank Vege | tation: | ws carolini | sua, Mi | crostegi | _ v mer | لعم |
| Aquatic Habitats (at a (161) Papis | submenged or emerged equati | c vegetation, overhanging banks/ro | oots, leaf packs, large submen | ged wood, rifles, deep poo | vis): | <u></u> |
| Aquatic Organisms C | Observed: | | | | | |
| PUZ | | وروبي ويرف ويوار ومناسباتهم من والما الموارك والمروا المروا | a de la companya de l | | | |
| MICRD SY | Species Observed: | rinea | | | | |
| Tributary is: (check one) | Natural | Artificial, man-ma | de 🔲 Manipulate | d | | |
| Disturbances: (check ell that apply) | Livestock access | Manure in waterbody | Waste discharge | Other | rond | side |
| Stream Quality ^b : (check one) | High | Moderate | Low | ······································ | dit | ek |

| Connecting swales are water features that do not meet the definition of a waterbody (not an ephemeral waterbody) in that there is not a defined bed, bank, and ordinary high water mark, however, it is a water conveyance feature that is characterized by flow volume, frequency, and duration to make it more than just an erosional feature and connects two potential waters of the U.S. and thereby may be subject to Section 404 permitting. ^b High Quality: Natural channel, natural vegetation extends at least one or two active channel widths on each side; banks stable and protected by roots; water color is clear to tea-colored; no barriers to fish movement; many fish cover types available; diverse and stable aquatic habitat; no disturbance by livestock or man. Moderate Quality: Altered channel evidenced by rip-rap; natural vegetation extends 1/3-1/2 of the active channel width on each side; filtering function or riparian vegetation only moderately compromised; banks moderately unstable; water color is cloudy, submerged objects covered with greenish film; moderate door, minor barriers to fish movement; fair aquatic habitat; minimum disturbance by livestock or man. Low Quality: Channel is actively down cutting or widening; rip rap and channelization excessive; natural vegetation less than 1/3 of the active channel width on each side; lack of regeneration; lifeting function severely compromised; barlies unstable (cording); water color is nutual vegetation less than 1/3 of the active channel width on each side; lack of regeneration; lifeting function severely compromised; barlies unstable (cording); water color is nutual vegetation less than 1/3 of the active channel width on each side; lack of regeneration; lifeting function severely compromised; barlies unstable (cording); water color is nutual vegetation less than 1/3 of the active evaluate the sufficience source); heavy odor; severe barriers to fish movement; liftie to no aquatic habitat; severe disturbance from lives |
|---|
| Connecting swates are water features that do not meet the definition of a waterbody (not an ephemeral waterbody) in that there is not a defined bed, bank, and ordinary high water mark, however, it is a water conveyance feature that is characterized by flow volume, frequency, and duration to make it more than just an erosional feature and connects two potential waters of the U.S. and thereby may be subject to Section 404 permitting. ^b High Quality: Natural ohannel, natural vegetation extends at least one or two active channel widths on each side; banks atable and protected by roots; water color is cloudy, submerged objects covered by involvestock or man. Moderate Quality: Altered channel evidenced by rip-rap; natural vegetation extends 1/3-1/2 of the active channel width on each side; filtering function or riparian vegetation only moderately compromised; banks moderately unstable; water color is cloudy, submerged objects covered with greenish film; moderate door, minor barriers to fish movement; fair aquatic habitat; minimum disturbance by livestock or man. Low Quality: Channel is actively down cutting or widening; rip rap and channelization excessive; natural vegetation less than 1/3 of the active channel width on each side; lack of regeneration; filtering nucleion excessive; natural vegetation less than 1/3 of the active channel is actively down cutting or widening; rip rap and channelization excessive; natural vegetation less than 1/3 of the active channel width on each side; lack of regeneration; filtering nucleion excessive; severe barriers to fish movement; the average objects covered with urbid; obvious pollutants (algal mats, surface scum, surface sheen); heavy odor; severe barriers to fish movement; little to no aquatic habitat; severe disturbance from livestock or man. |
| ^b High Quality: Natural ohannel, natural vegetation extends at least one or two active channel widths on each side; banks stable and protected by noots; water color is clear to tea-colored; no barriers to fish movement; many fish cover types available; diverse and stable aquatic habitat; no disturbance by livestock or man. Moderate Quality: Altered channel evidenced by rip-rap; natural vegetation extends 1/3-1/2 of the active channel width on each side; filtering function or riparian vegetation only moderately compromised; banks moderately unstable; water color is cloudy, submerged objects covered with greenish film; moderate odor; minor barriers to fish movement; fair aquatic habitat; minimum disturbance by livestock or man. Low Quality: Channel is actively down cutting or widening; rip rap and channelization excessive; natural vegetation less than 1/3 of the active channel width on each side; lack of regeneration; filtering function severely compromised; barks unstable (cording); water color is muddy and turbid; obvious pollutants (algal mats, surface scum, surface sheen); heavy odor; severe barriers to fish movement; little to no aquatic habitat; severe disturbance from livestock or man. |
| Moderate Quality: Allered channel evidenced by rip-rap; natural vegetation extends 1/3-1/2 of the active channel width on each side; filtering function or riparian vegetation only moderately compromised; banks moderately unstable; water color is cloudy, submerged objects covered with greenish film; moderate odor; minor barriers to fish movement; fair aquatic habitat; minimum disturbance by livestock or man. Low Quality: Channel is actively down cutting or widening; rip rap and channelization excessive; natural vegetation less than 1/3 of the active channel width on each side; lack of regeneration; filtering function severely compromised; banks unstable (eroding); water color is muddy and turbid; obvious pollutants (algal mats, surface scum, surface sheen); heavy odor; severe barriers to fish movement; little to no aquatic habitat; severe disturbance from livestock or man. |
| Low Quality: Channel is actively down cutting or widening; rip rap and channelization excessive; natural vegetation less than 1/3 of the active channel width on each side; lack of regeneration; filtering function severely compromised; banks unstable (eroding); water color is muddy and turbid; obvious pollutants (algal mats, surface scum, surface sheen); heavy odor; severe barriers to fish movement; little to no aquetic habitat; severe disturbance from livestock or man. |
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| faterbody Sketch Islude parth arrow centerline, distance from centerline, whole locations, survey boundary, and unique IDs of associated features |
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Waterbody swzh013 facing upstream



Waterbody swzh013 facing downstream



Waterbody swzh013 facing upline cross stream

| terbody Data Sheet | | | | | |
|---|---|--|--|---------------------|--------------------|
| Irvey Description | | • | · | | |
| oject Name: | Waterbody Name: | . We | terbody ID: | Date: | |
| Supply labordop | UNT TO ATC | hes Fork | SWZHO | 15 7-2 | 23-15 |
| ate: County: | Company: | Crew Memb | er Initials: Photo | ID(s): | |
| ~V Wetzel | DOWEST | JD, P | P | | |
| act Number(s): | Milepost Entry: | Milepost Exit: As | sociated Wetland | ID(s): | |
| 33-001-A00 | 2 NA | NA | NONE | | |
| urvey Type: leok one) Centerl | ine 🔲 Re-Route | Access Road |] Other: | | |
| hysical Attributes | | | ###################################### | | |
| tream Classification: | eral 🔲 Intermittent 🙎 | Perennial | | | |
| faterbody Type: Ack one) | River Ditch Pond | | ing swale * | Other: | |
| | I Indicator: I thet epply) | ne Shelving | Wrested | | Water |
| R. | tont matted or | | vegetation | — | staining |
| feight: | nissing vegetation | debris | community ch | ange change | |
| Vidth of Waterbody - Top of Bank 1 op of Bank at Centerline: | to Width of Waterbody - Water Edge at Centeri | Water Edge to ine: | Depth of Water at ((Approx.) | Centerline: | |
| //\ # | | A | | ft. | |
| Sinuosity: | Water velocity: | Bank height | B | ank slope | |
| theck one) | (Approx.) | Right 5 | | Right: 8 | 0 |
| | 2L ma | | n. | | degrees |
| Meandering | | | ft. | | Odegrees |
| Qualitative Attributes | | | | | |
| Nater Appearance: | | | | | |
| INO Water U | Clear L Turbia L She | en LjSumace Burface scum | Mats | ner: | |
| Substrate: 🛛 Bedrock 🛛 | Gravel Zisand | Silt/clay | Organic 🔲 Ot | her: | |
| % of Substrate: 30 % | <u>60 % 5 %</u> | 15% | | | _% |
| Width of Riparian Zone: Veg | etative Layers: | | Shnibe: | $\overline{\nabla}$ | 7 _{Herbs} |
| $725_{\text{ft.}}$ Avg. | . DBH of Dominants: | <u> </u> | | in. | Augus |
| Dominant Bank Vegetation: | 1/ Manunelis V | wainza 1/2 | phoena | Scen-Compel | lia |
| Illia Americar | a, asim- | | A BEBING | | |
| Aquatic Habitats (ex submerged or eme | nged aquatic vegetation, overhanging banks/m | oola, leaf packa, large submerged | l wood, riffles, deep pools; |). | |
| Aquatic Organisms Observed: | | **** | | | |
| " Smallinerteb | notes | | | | |
| Invasive and/or T&E Species Obs | erved: | an a | | | |
| Tributary is: (check ane) Natur | ral Artificial, man-ma | ide 🔲 Manipulated | | | |
| Disturbances: (check ell thet apply) | tock Manure in | Waste discharge | Other: | Adjacant | -PJ |
| 8000 | ss waterbody | pipes | | 0 | |

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| SWZ | 1401 | 5 |

" Connecting swales are water features that do not meet the definition of a waterbody (not an ephemeral waterbody) in that there is not a defined bed, bank, and ordinary high water mark, however, it is a water conveyance feature that is characterized by flow volume, frequency, and duration to make it more than just an erosional feature and connects two potential waters of the U.S. and thereby may be subject to Section 404 permitting.

^b High Quality: Natural channel, natural vegetation extends at least one or two active channel widths on each side; banks stable and protected by roots; water color is clear to tea-colored; no barriers to fish movement; many fish cover types available; diverse and stable aquatic habitat; no disturbance by livestock or man.

Moderate Quality: Altered channel evidenced by rip-rap; natural vegetation extends 1/3-1/2 of the active channel width on each side; filtering function or riparian vegetation only moderately compromised; banks moderately unstable; water color is cloudy, submerged objects covered with greenish film; moderate odor; minor barriers to fish movement; fair aquatic habitat; minimum disturbance by livestock or man.

Low Quality: Channel is actively down cutting or widening; rip rap and channelization excessive; natural vegetation less than 1/3 of the active channel width on each side; lack of regeneration; filtering function severely compromised; banks unstable (eroding); water color is muddy and turbid; obvious pollutants (algal mats, surface scum, surface sheen); heavy odor; severe barriers to fish movement; little to no aquatic habitat; severe disturbance from livestock or man.

Notes

Waterbody Sketch

Include north arrow, centerline, distance from centerline, photo locations, survey boundary, and unique IDs of associated features.

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Waterbody swzh015 facing upstream



Waterbody swzh015 facing downstream



Waterbody swzh015 facing upline cross stream

| terbody Data Sl | neet | | | | |
|--|----------------------------|-------------------------------------|--|--|---|
| urvey Description |) | · · · · · | | | |
| oject Name: | | Waterbody Name: | | Waterbody ID: | Date: |
| Sur Il | () | UNT TAN | the Early | SWZHO | 16 7-23-18 |
| supply to have | wr | Company | | Member initials: Phot | o ID(s): |
| N WET | ZEL | DOWE | 57 11 | > PP | |
| ract Number(s): | | Milepost Entry | : Milepost Exit: | Associated Wetlan | d ID(s): |
| 33-001- | AUDZ | - NA | NA | NOWE | |
| urvey Type: heck one) | Centerline | Re-Route | Access Road | Other: | |
| hysical Attribute: | 5 | | artaf i Die Souli di Childref - one forger in fersion i franklik i forste bester | ۲ | |
| tream Classification: shock.one) | Ephemera | I Intermittent | Perenniai | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | |
| Vaterbody Type: sheck one) | itream 🛄 Rive | er Ditch Por | nd Lake CC | onnecting swale " |] Other: |
| Width:ft. | OHWM In (check all that | dicator: (epply) | ear line Shelvir | ng Wrested vegetation | Scouring Water |
| Height: 4 ^r ft. | | , matted, or Wing vegetation | rack Litter a le debris | nd Abrupt plant | change Soil characteristic |
| Width of Waterbody - | Top of Bank to | Width of Waterbo | ody - Water Edge to | Depth of Water a | t Centerline: |
| op of bank at center | line: | water Edge at Ce | entenine: | (Approx.) | 2". |
| 0 | ft. | | ft. | | π. |
| Sinuosity: (check one) | ight VV | ater velocity: | Bank height Right | 2. | Right: 70 degrees |
| | Indering | <2 fps | Left | 2. | Left: 30 |
| Qualitative Attrib | lites | | <u>l</u> | <u> </u> | |
| Water Appearance: | | | | | می در می وارد از می از باری از این می وارد از این می وارد از می و |
| (check one) | No water | Clear Turbid | Sheen Surf on surface scur | ace Algai () n mats | Other: |
| Substrate: | Bedrock | Gravel Sand | R Silt/clay | Organic 0 | Other: |
| % of Substrate: | % | 70 % 10, | % <u>20</u> % | | % |
| Width of Riparian Zor | ne: Vegeta | tive Layers: | | Del anno | Trata |
| <u>725</u> _{ft.} | Avg. Di | BH of Dominants: | rees: | | _in. |
| Dominant Bank Vege | tation: | ipitera, Poh | 1strehun ac | rostriclas, (| Protoegus sp. |
| Aquatic Habitats (ex.) | numberged or emerged | d aquatic vegetation, overhanging i | banks/roots, leaf packs, large su | ibimergad wood, riffes, deep poo | is): |
| Aquatic Organisms C | Deserved; | stes | | | |
| Invasive and/or T&F | Species Ohsen | ed: | | | |
| Micro Sta | Egium VI | minea | | | |
| Tributary is: (check one) | | Artificial, m | an-made 🕅 Manipu | lated | *************************************** |
| Disturbances: (oneck all that apply) | Livestoc access | k Manure in waterbody | Waste disch | arge | Adjacat Ron |
| Stream Quality ^b : (check one) | High | Moderate | Low | | |

| | SWZH016 |
|---|-------------|
| • Connecting swales are water features that do not meet the definition of a waterbody (not an ophemeral waterbody) in that there is not a defined bed, bank, and ordinary high water mark, however, it is a water conveyance feature that is characterized by flow volume, frequency, and duration to make it more than just an erosional feature and connects two potential waters of the U.S. and thereby may be subject to Section 404 permitting. | |
| ^b High Quality: Natural channel, natural vegetation extends at least one or two active channel widths on each side; banks stable and protected by roots; water color is clear to tea-colored; no barriers to fish movement; many fish cover types available; diverse and stable aquatic habitat; no disturbance by livestock or man. | |
| Moderate Quality: Altered channel evidenced by rip-rap; natural vegetation extends 1/3-1/2 of the active channel width on each side; filtering function or riparian vegetation only moderately compromised; banks moderately unstable; water color is cloudy, submerged objects covered with greenish film; moderate odor; minor barriers to fish movement; fair aquatic habitat; minimum disturbance by livestock or man. | |
| Low Quality: Channel is actively down cutting or widening; rip rap and channelization excessive; natural vegetation less than 1/3 of the active channel width on each side; lack of regeneration; filtering function severely compromised; banks unstable (eroding); water color is muddy and turbid; obvious pollutants (algal mats, surface scum, surface sheen); heavy odor; severe barriers to fish movement; little to no aquatic habitat; severe disturbance from livestock or man. | |
| Notes | |
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| Waterbody Sketch | <u> </u> |
| Include north arrow, centerline, distance from centerline, photo locations, sorvey boundary, and unique IDs of associate | d features. |
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Waterbody ID:


Waterbody swzh016 facing upstream



Waterbody swzh016 facing downstream



Waterbody swzh016 facing upline cross stream

| terbody Data S | iheet | • | | | | |
|---|---------------------------------------|---|----------------------------------|---------------------------------------|---------------|---------------------------|
| urvey Descriptio | n | · · · · | | | | |
| oject Name: | | Waterbody Name: | | Waterbody ID: | Date | : |
| Suml. H | entro | UNT TO AL | chos Fort- | SW2HO1 | 4 7 | -23-15 |
| ate: County: | | Company: | Crew Me | mber Initials: Phot | o ID(s): | |
| NU WET | ZEL | DD WES | V JD | PP | d 1(3(e). | |
| 33 - 001 - | A007 | | Milepost Exit. | NOVE | u (w(a). | |
| urvey Type: heckone) | Centerline | Re-Route | Access Road | Other: | | |
| hysical Attribute | 95 | | , | | | <u> </u> |
| tream Classification | : Ephemera | | Perennial | **** | | |
| Vaterbody Type: ineck one) | Stream 门 Rive | r Ditch Pond | | ecting swale * | Other: | |
| Width: (Oft. | OHWM in (check ell the | dicator: (epply) Clear on ba | line Shelving | Wrested | Scouring | Water |
| Height: | | , matted, or Wrack | k Litter and debris | Abrupt plant | change So | il characteristic ange |
| Nidth of Waterbody - | - Top of Bank to rline: | Width of Waterbody Water Edge at Center | - Water Edge to arline: | Depth of Water a | t Centerline: | |
| 11 | <u></u> | | (ft. | | 2 ft. | |
| Sinuosity: check ane) | W | ater velocity: pprox.) | Bank height | \sim | Bank slope | 2. |
| Str | aight | 22 | | Lfi. | rugni. | <u>35</u> degrees |
| DXI Me | andering | | Left: | <u>2</u> tt. | Left: | <u>35</u> degrees |
| Qualitative Attrib | outes | | | | | |
| Water Appearance: (check one) | No water | Clear Turbid Si or | heen Surface surface scum | Algai (mats | Other: | |
| Substrate: (check ell thet apply) | Bedrock | Gravel Sand | Silt/clay |] Organic | Other: | |
| % of Substrate: | 10 % | <u>70 % 5 %</u> | 15 % | % | | % |
| Width of Riparian Zc $\frac{725}{\text{ft.}}$ | one: Vegetal (check all Avg. Di | tive Layers: thet epply) Trees BH of Dominants: | s:in. | Shrubs: | _ in. | Herbs |
| Dominant Bank Veg | etation: gnande | olia, Corpin | us carolmia | ma, Polysi | hehur ac | rostorel |
| Aquatic Habitats (ex | submerged or emerged | l aquatic vegetation, overhanging bank | s/roots, leaf packs, large subme | rged wood, riffies, deep poo | is): | |
| Aquatic Organisms | Observed: | Inot | | ₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩ | | |
| Invasive and/or T&E | Species Observ | | | | | |
| Tributary is: (check one) | Naturai | Artificial manu | nade Maninulata | юd | | |
| Disturbances: (check all that apply) | | k Manure in waterbody | Waste discharg | e Xtother: | Adjac | nt rome |
| Stream Quality ⁵ : (check one) | High | Moderate | | | | |

Waterbody ID:

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Connecting awales are water features that do not meet the definition of a waterbody (not an ephemeral waterbody) in that there is not a defined bed, bank, and ordinary high water mark, however, it is a water conveyance feature that is characterized by flow volume, frequency, and duration to make it more than just an erosional feature and connects two potential waters of the U.S. and thereby may be subject to Section 404 permitting.

^b High Quality: Natural ohannel, natural vegetation extends at least one or two active channel widths on each side; banks stable and protected by roots; water color is clear to tea-colored; no barriers to fish movement; many fish cover types available; diverse and stable aquatic habitat; no disturbance by livestock or man.

Moderate Quality: Altered channel evidenced by rip-rap; natural vegetation extends 1/3-1/2 of the active channel width on each side; filtering function or riparian vegetation only moderately compromised; banks moderately unstable; water color is cloudy, submerged objects covered with greenish film; moderate odor; minor barriers to fish movement; fair aquatic habitat; minimum disturbance by livestock or man.

Low Quality: Channel is actively down cutting or widening; rip rap and channelization excessive; natural vegetation less than 1/3 of the active channel width on each side; lack of regeneration; filtering function severely compromised; banks unstable (eroding); water color is muddy and turbid; obvious pollutants (algal mats, surface scum, surface sheen); heavy odor; severe barriers to fish movement; little to no aquatic habitat; severe disturbance from livestock or man.

Notes

Waterbody Sketch





Waterbody swzh014 facing upstream



Waterbody swzh014 facing downstream



Waterbody swzh014 facing upline cross stream

| terbody Data S | heet | | | | | | |
|--|---|-----------------------------------|--|---------------------------------|------------------------------|---------------------|------------------|
| rvey Description |). | | | | • | · · · | |
| oject Name: | <u></u> | Waterbody Name: | | Waterbody | ID: | Date: | |
| supply blood | br | UNT TO A | rches Fan | 1 SWZ | HO17 | 7-2 | -3-15 |
| ate: County: | | Company: | C | ew Member Initial | s: Photo ID(s): | | |
| NV WEI | 757 | DANE | 51 2 | TD, PP | | | |
| act Number(s): | | Milepost Entr | ry: Milepost Exi | Associated | i Wetland ID(s): アドヘファ | eW | |
| 33-001- | A002 | AN A | NA | lau | ENCEE | | |
| urvey Type: hook one) | Centerline | Re-Route | Access Roa | d Other: | | ***** | |
| hysical Attribute | 5 | ***** | | | | | |
| tream Classification: heck.one) | Ephemera | i Intermittent | Perenniai | | | | |
| /aterbody Type: heck one) | stream | er XDitch Po | ond Lake | Connecting swale | • Other: | | , ,,,,,,, |
| HWM | OHWM In | dicator: | | akina IT7 1.0/m | | ouring II | ⊼∆/ator |
| Width: <u>3</u> ft. | | KI C | on bank | | | | staining |
| Height:ft. | | t, matted, or | Nrack Lit ine de | ter and Abi | rupt plant nmunity change | Soil char change | racteristic |
| Vidth of Waterbody - op of Bank at Center | Top of Bank to | Width of Water Water Edge at 0 | oody - Water Edge to Centerline: | Depth of (Approx.) | Water at Centeri | ine: 1 | |
| 5 | ft. | | 1 _{ft.} | | 2 | ft. | |
| Sinuosity: | M | ater velocity: | Bank hei | ght | Bank slo | pe | |
| Stra | aight | | RI | yht: | | Right: 70 |) degrees |
| | andering | fps | | .eft: / | | Left: 77 |) |
| | | | | ft. | | | degrees |
| Qualitative Attrib | utes | | | | | | |
| (check one) | No water | Clear 🚺 Turbid [| Sheen on surface | Surface Alga scum mate | 0 Other: | | |
| Substrate: | Bedrock | Gravel 🕅 Sand | Silt/clay | Organic | Other: | | |
| % of Substrate: | | 20, 20 | · 50 | 6 % | | | % |
| Width of Riparian Zoi | ne: Vegeta | tive Layers: | | | | | 7 |
| D_ft. | Avg. D | BH of Dominants: | in | LAShrube | in in | | Herbe |
| Dominant Bank Voge | (approx.) | | ⁿⁱ . | | | | |
| Platanuse | occidenta | lis Linolond | from trulipité | ra, Micro. | stegiun u | imined | 2 |
| Aquatic Habitats (ex. (100) $Pools$ | anpweiðeq or eweiðe | d aquatic vegetation, overhanging | g banks/roots, leaf packs, la | ge submerged wood, riffie | s, dsep pools): | | |
| Aquatic Organisms | Observed: | -0 | | | | | |
| Small : | nuertebr | otes | | | | | |
| Invasive and/or T&E | Species Observinging UW | red: ninea | # 12 1 10 12 1 2 2 2 2 2 2 2 2 2 2 2 2 2 | ******************************* | | | |
| Tributary is: (check one) | Natural | Artificiel, r | nan-made 🔲 Ma | nipulated | | | |
| Disturbances: (check ell that epply) | | k Manure in waterbody | / Waste d | ischarge | Other: AC | read | ronal |
| Stream Quality ^b : (check one) | High | | | | 4 | | P |
| L | · • • • • • • • • • • • • • • • • • • • | Bend motorello | Lund LVM | | C | w/ver | <u>p.i./</u> |

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| Form | Rev. | 2/21 | /20 |

| | Waterbody ID: SWZH017 |
|---|---|
| Connecting awales are water features that do not meet the definition of a waterbody (not an ephemer and ordinary high water mark, however, it is a water conveyance feature that is characterized by flow volu an erosional feature and connects two potential waters of the U.S. and thereby may be subject to Sectio | al waterbody) in that there is not a defined bed, bank, ume, frequency, and duration to make it more than just n 404 permitting. |
| ^b High Quality: Natural channel, natural vegetation extends at least one or two active channel wid roots; water color is clear to tea-colored; no barriers to fish movement; many fish cover types availability disturbance by livestock or man. | ths on each side; banks stable and protected by illable; diverse and stable aquatic habitat; no |
| Moderate Quality: Altered channel evidenced by rip-rap; natural vegetation extends 1/3-1/2 of the function or riparian vegetation only moderately compromised; banks moderately unstable; water greenish film; moderate odor; minor barriers to fish movement; fair aquatic habitat; minimum dist | te active channel width on each side; filtering color is cloudy, submerged objects covered with urbance by livestock or man. |
| Low Quality: Channel is actively down cutting or widening; rip rap and channelization excessive channel width on each side; lack of regeneration; filtering function severely compromised; banks turbid; obvious pollutants (algal mats, surface scum, surface sheen); heavy odor; severe barriers severe disturbance from livestock or man. | ; natural vegetation less than 1/3 of the active unstable (eroding); water color is muddy and to fish movement; little to no aquatic habitat; |
| lotes | |
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| Waterbody Sketch include north arrow, centerline, distance from centerline, photo locations, survey boundary, and uniq | ue IDs of associated features. |
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Waterbody swzh017 facing upstream



Waterbody swzh017 facing downstream



Waterbody swzh017 facing upline cross stream

| urvey Description | | · · | | | • • | |
|--|--|---------------------------------------|--|---|-----------------|---|
| oject Name: | | Waterbody Name: | Δ | Waterbody ID: | | Date: |
| Supphy Henry | | UNT TO AM | ches Fort | SWZHO | 18 | 7-23-15 |
| tate: County: | | Company: | Crew M | ember Initials: P | hoto ID(s): | -L |
| WV We | tzel | DOWES | 7 30 | , PP | | |
| ract Number(s): | برویده مید اکارکانی وی برای بارد شوهید ا | Milepost Entry: | Milepost Exit: | Associated Wet | land ID(s): | |
| 33-001- | AUDZ | NA | NA | NONE | - | |
| urvey Type; | | | | 1 | | |
| heck one) | Centerline | Re-Route | Access Road | Other: | | |
| Physical Attribute: | 5 | | a na manana ang kanang kana Kanang kanang | WWQUI <u>95588</u> 918800 (Jowe w. Jowers | | |
| tream Classification: | Ephemeral | Intermittent | Perennial | | , | |
| Vaterbody Type: | | | 1.000 Marca | | | |
| check one) | tream | Ditch Pond | Lake Cor | necting swale * | Other: | |
| DHWM | | icator: | | Minested | | |
| Width: | | on bar | nk Sonewing | vegetatio | n Lioco | staining |
| Height: | Bent, | matted, or Wracl | k 🗍 Litter and | Abrupt p | lant | Soil characteristic |
| ft. Width of Waterbody - " | Top of Bank to | Width of Waterbody | depris - Water Edge to | Depth of Wate | ar at Centerlin | change le; |
| Top of Bank at Center | line: | Water Edge at Cente | arline: | (Approx.) | ア | |
| 6 | ft. | <u> </u> | <u>) ft.</u> | | <u> </u> | ft. |
| Sinuosity: (check one) | Wa (App | ter velocity: ^{wox.)} | Bank height | 8 | Bank slop | ight: //C |
| Stra | ight | < 1 | | | | |
| Mea | Indering | fps | Left: |) . | | Left: 20. |
| A | <u>_</u> | | | <u> </u> | | <u> </u> |
| | utes | | | | | |
| (check one) | No water 🔲 C | lear 🔲 Turbid 🔲 Si | heen Surfac | e 🔲 Algai [| Other: | |
| | | or | n surface scum | mats | | |
| Substrate: | Bedrock 🛛 G | iravel Sand | Silt/clay | Organic | Other: | |
| % of Substrato | | 70, 5. | 15- | A 1 | | <u>مريد مريد مريد مريد مريد مريد مريد مريد </u> |
| Width of Riparian Zon | ne: Vegetati | ve Layers:% | % | <u> </u> | | % |
| 725 0 | ne (chock all th | at apply) | a: | Shrubs: | | Herbs |
| ft. 5 | AVG. DB | H of Dominants: | | | in. | |
| Dominant Bank Vege | tation: | 00 / 1 | Don ha - | | | RI. |
| Flation | B accial | ertains, Lina | ura penzon | ~, +mpa | tions CK | ponsis 10 ygi |
| Aquatic Habitats (ex i | submarged or emerged | aqualic vegetation, overhanging banks | skoota, leaf packs, large subr | nerged wood, riffles, deep | pools): | |
| pook, | r | | - | | | |
| Aquatic Organisms C | Dbserved: | 11 1 | | | | |
| Sma | ll Inver | tebrates | | • | | |
| Invasive and/or T&E | Species Observe | rd: | <u>, , , , , , , , , , , , , , , , , , , </u> | | | |
| Micros | fegure v | Iminea | | | | • |
| Tributary is: (check one) | Natural | Artificial, man-r | made 🕅 Manipula | ted | | |
| Disturbances: (check ell that apply) | Livestock | Manure in waterbody | Waste dischar pipes | ge Øot | ner: Ad | yorcont Rom |
| Stream Quality ^b : (cheok one) | High | Moderate | Low | · · · · · · · · · · · · · · · · · · · | | |
| L | | - ···· | | | | |

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^a Connecting swales are water features that do not meet the definition of a waterbody (not an ephemeral waterbody) in that there is not a defined bed, bank, and ordinary high water mark, however, it is a water conveyance feature that is characterized by flow volume, frequency, and duration to make it more than just an erosional feature and connects two potential waters of the U.S. and thereby may be subject to Section 404 permitting.

Waterbody ID:

SWZHOIS

^b High Quality: Natural channel, natural vegetation extends at least one or two active channel widths on each side; banks stable and protected by roots; water color is clear to tea-colored; no barriers to fish movement; many fish cover types available; diverse and stable aquatic habitat; no disturbance by livestock or man.

Moderate Quality: Altered channel evidenced by rip-rap; natural vegetation extends 1/3-1/2 of the active channel width on each side; filtering function or riparian vegetation only moderately compromised; banks moderately unstable; water color is cloudy, submerged objects covered with greenish film; moderate odor; minor barriers to fish movement; fair aquatic habitat; minimum disturbance by livestock or man.

Low Quality: Channel is actively down cutting or widening; rip rap and channelization excessive; natural vegetation less than 1/3 of the active channel width on each side; lack of regeneration; filtering function severely compromised; banks unstable (eroding); water color is muddy and turbid; obvious pollutants (algal mats, surface scum, surface sheen); heavy odor; severe barriers to fish movement; little to no aquatic habitat; severe disturbance from livestock or man.

Notes

Waterbody Sketch





Waterbody swzh018 facing upstream



Waterbody swzh018 facing downstream



Waterbody swzh018 facing upline cross stream

| terbody Data S | heet | | | | | | |
|--|---------------------|-------------------------------|---|---------------------------------------|---------------------|------------------|----------------------------|
| urvey Description |) , | · · · · | | | | • | • |
| oject Name: | | Waterbody Name: | | N | Waterbody ID: | | Date: |
| supply likes | ler | UNT TO | Arches 1 | ork | SWZHON | A | 7-23-15 |
| tate: County: | ······ | Company: | - Ann an an Ann an A | Crew Men | nber Initials: | Photo ID(s): | |
| NU WET | 282 | DDW | ÉST | 2D' | PP | | |
| ract Number(s): | | Milepost E | ntry: Milepos | t Exit: | Associated We | etland ID(s): | |
| 33-001- | A009 | MA | s N | Ð | NONE | | |
| urvey Type: hook ono) | Centerline | Re-Route | Access | Road | Other: | | |
| Physical Attribute | 5 | | | <u>416167-40222-6825-687-68</u> 7-116 | | | |
| itream Classification: | Ephemera | I Intermitten | | nial | | ***** | |
| Vaterbody Type: | Stream | er Ditch D | Pond Lak | Conne | ecting swale * | Other: | |
| DHWM | OHWM In | dicator: | | | | | |
| Width: <u>8</u> ft. | (check all the | teppiy) | Clear line on bank | Shelving | Wreste | d Scou tion | uring Water staining |
| Height: ft. | | t, matted, or |]Wrack [| Litter and debris | | plant [| Soil characteristic change |
| Width of Waterbody - | Top of Bank to | Width of Wate | arbody - Water Ed | ige to | Depth of Wa | ter at Centerlin | e; |
| | inite: | water coge a | | | (Approx.) | | ÷ |
| | <u>π.</u> | Inter volación | ft. | k holeht | | Book slop | |
| (check one) | A sight | pprox.) | Dan | Right | 1 | Bank Siop | ight: |
| | argini | < 1 | | | [ft. | | ZO degrees |
| Me: | andering | <u>≻</u> fps | | Left: | 1 1. | | Left: 20 degree |
| Qualitative Attrib | utes | **** | | | | | |
| Water Appearance: (check one) | No water | Clear 🔲 Turbid | Sheen on surface | Surface scum | Algai mats | Other: | |
| Substrate: | Bedrock | Gravel San | nd 🕅 silt/ | clay | Organic | Other: | 4- <i>2</i> |
| % of Substrate: | 15% | 80 % _ | _% | , % | % | | % |
| Width of Riparian Zo | ne: Vegeta | tive Layers: | 7 | ٢ | X Shruha | | Kilerbe |
| <u>225</u> n. | Avg. D | BH of Dominants: | i | n. | <u> </u> | in. | |
| Dominant Bank Vege | occillento | lis, Robinia | spseudoa | cacia, | Impati | ons cope | wsis, Linder |
| Aquatic Habitats (ex. | submerged or emerge | d aquatic vegetation, overhan | ding banks/roots, leaf pa | cka, ierce submer | and wood riffles de | | Danzou |
| Riples. | pools | , General erenner | | | | | |
| Aquatic Organisms | Observed: | notes sm | Offich | | | | |
| Invasive and/or T&E | Species Obser | red: VIMINEA | | - | | | <u> </u> |
| Tributary is: (check one) | Natural | Artificia | man-made | Maninutate | d | | |
| Disturbances: (check all that apply) | | k Manure waterbo | in Wa | ste discharge | | ther: Ady | acut Road |
| Stream Quality ^b : (check one) | High | | ite Lo | ······ | | | |

Waterbody ID:

Connecting swales are water features that do not meet the definition of a waterbody (not an ephemeral waterbody) in that there is not a defined bed, bank, and ordinary high water mark, however, it is a water conveyance feature that is characterized by flow volume, frequency, and duration to make it more than just an erosional feature and connects two potential waters of the U.S. and thereby may be subject to Section 404 permitting.
^b High Quality: Natural channel, natural vegetation extends at least one or two active channel widths on each side; banks stable and protected by

"High Quality: Natural channel, natural vegetation extends at least one or two active channel widths on each side; banks stable and protected by roots; water color is clear to tea-colored; no barriers to fish movement; many fish cover types available; diverse and stable aquatic habitat; no disturbance by livestock or man.

Moderate Quality: Altered channel evidenced by rip-rap; natural vegetation extends 1/3-1/2 of the active channel width on each side; filtering function or riparian vegetation only moderately compromised; banks moderately unstable; water color is cloudy, submerged objects covered with greenish film; moderate odor; minor barriers to fish movement; fair aquatic habitat; minimum disturbance by livestock or man.

Low Quality: Channel is actively down cutting or widening; rip rap and channelization excessive; natural vegetation less than 1/3 of the active channel width on each side; lack of regeneration; filtering function severely compromised; banks unstable (eroding); water color is muddy and turbid; obvious pollutants (algal mats, surface scum, surface sheen); heavy odor; severe barriers to fish movement; little to no aquatic habitat; severe disturbance from livestock or man.

Notes

Waterbody Sketch





Waterbody swzh019 facing upstream



Waterbody swzh019 facing downstream



Waterbody swzh019 facing upline cross stream

| urvey Description |) | | . • | | | · · | |
|---|--------------------------|-----------------------------------|---------------------------------------|------------------------------|---|---|----------------------------|
| oject Name: | | Waterbody | Name: | ···· | Waterbody ID: | | Date: |
| Supphy Lend | lare | UNT | TO Arc | hes Fork | SWZHO | 20 | 7-23-15 |
| tate: County: WV WET | ZEL | Co | ompany: DDWEST | | Nember Initials: | Photo ID(s): | |
| ract Number(s): | | M | lepost Entry: | Milepost Exit: | Associated We | atland ID(s): | |
| No parcel | number_lis | sted | NA | NA | NONE | | |
| urvey Type: heck one) | Centerlin | e 🛄 R | ə-Route | Access Road | Other: | | |
| hysical Attribute: | 5 | | | | | | |
| itream Classification: wheck.one) | Ephemer | ai 🗌 In | termittent | Perennial | | | |
| Vaterbody Type: Neack one) | tream 🔲 Rh | ver 🛄 Dite | ch 🚺 Pond | | onnecting swale * | Other: | |
| DHWM Width: X ft. | OHWM In (check all th | ndicator: at apply) | Clear lir on bank | ne Shelvin | g X Wreste | d 3co lion | uring Water staining |
| Height:ft. | | nt, matted, or ising vegetatio | n Wrack | Litter ar debris | nd Abrupt | plant Inity change | Soil characteristic change |
| Width of Waterbody - Top of Bank at Center | Top of Benk to line: | Widt Wate | h of Waterbody - r Edge at Centerl | Water Edge to ine: | Depth of Wa (Approx.) | ter at Centerlin | ne: /(|
| 10 | <u>)</u> ff. | | <u>5</u> | ft. | | | ft. |
| Sinuosity: (check one) | | Vater velocity Approx.) | • | Bank height | | Bank slop | |
| Stra | ight | | 2 | Right | LT. | R | Ignt: <u>55</u> degrees |
| | Indering | - | fps | Left: | 1 # | | Left: 20 degrees |
| Qualitative Attrib | utes | | | <u></u> | <u> </u> | | |
| Water Appearance: (check ono) | No water | Ciear | furbid She | en Surfa | ice Algai | Other: | |
| Substrate: | Bedrock 🛛 | Gravel | Sand Sand | Silt/clay | | Other: | |
| % of Substrate: | 10 % | 60 % | <u>10</u> % | 20 % | % | | % |
| Width of Riparlan Zor 725 | e: Veget L (check e | ative Layers: #thatepply) | Irees: | | K Shrubs: | | Herbs |
| n. 5 | AVg. L (epprox. |)) | ants: | in. | | in. | |
| Plater Plater | tation: WOOCC | . Inta | lis, Lond | lera benz | ioin, @ | Ver hest | ing all all |
| Aquatic Habitats (ex. (| submerged or emerg | ed aquatic vegetati | on, overhanging banks/n | oots, leaf pacios, large suk | omerged wood, riflies, de | ap pools): | |
| Aquatic Organisms C | pserved: | retebr | ites | | e de 1970 - 1989 - 1989 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1 | | |
| Invasive and/or T&E | Species Obser | ved: | | ****** | | | |
| Tributary is: (check one) | K Natural | rmene | Artificial man-ma | ide Manipul | ated | an guy Angana dagan yan tu'u tu ka alkatan sebu | |
| Disturbances: (check all that epply) | | ck | Manure in | Waste discha | irge | ther: A.A. | and erra |
| Stream Quality ^b : (check one) | High | t | Moderate | | | | |
| L | | | <u> </u> | | | | |

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Form Rev. 2/21/2014

| | Waterbody ID: |
|--|--|
| | SWZH020 |
| Connecting swales are water features that do not meet and ordinary high water mark, however, it is a water conve an erosional feature and connects two potential waters of | the definition of a waterbody (not an ophemeral waterbody) in that there is not a defined bed, bank, evance feature that is characterized by flow volume, frequency, and duration to make it more than just the U.S. and thereby may be subject to Section 404 permitting. |
| ^b High Quality: Natural ohannel, natural vegetation extroots; water color is clear to tea-colored; no barriers to disturbance by livestock or man. | ends at least one or two active channel widths on each side; banks stable and protected by o fish movement; many fish cover types available; diverse and stable aquatic habitat; no |
| Moderate Quality: Allered channel evidenced by rip- function or riparian vegetation only moderately compr greenish film; moderate odor; minor barriers to fish m | rap; natural vegetation extends 1/3-1/2 of the active channel width on each side; filtering omised; banks moderately unstable; water color is cloudy, submerged objects covered with ovement: fair aquatic babitat: minimum disturbance by livestock or man |
| Low Quality: Channel is actively down cutting or wid channel width on each side; lack of regeneration; filte turbld; obvious pollutants (algal mats, surface scum, a severe disturbance from livestock or man. | ening; rip rap and channelization excessive; natural vegetation less than 1/3 of the active ring function severely compromised; banks unstable (eroding); water color is muddy and surface sheen); heavy odor; severe barriers to fish movement; little to no aquatic habitat; |
| otes | |
| | |
| | |
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| | |
| | |
| laterbody Sketch | |
| clude north arrow, centerline, distance from centerline, | photo locations, survey boundary, and unique IDs of associated features. |
| | 1 |
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| The second secon | $\cdot \alpha \rangle$ |
| | |
| • | |



Waterbody swzh020 facing upstream



Waterbody swzh020 facing downstream



Waterbody swzh020 facing upline cross stream

| aterbody Data S | heet | | | | | | | - <u></u> | |
|--|--------------------|----------------------------------|---|---|-----------------------|---|--|-------------------|-------------------|
| urvey Description | n . | | | | | | | | |
| roject Name: | | Waterbo | dy Name: | (11.22) | N PIN! | Waterbody ID: | | Date: | |
| DM Supply | benda | e UNA | TO RIC | HWCO | | 56266 | 220 | 5~ | 1 - 15 |
| tate: County: | | | Company: | ~ T | Crew I | Viember Initials: | Photo ID(s): | | |
| NV We- | tzel | | DDWE | 51 | 150 | 136 | | | |
| ract Number(s): | | | Milepost Entry: | Milep | ost Exit: | Associated W | etland ID(s): | | |
| | | | 30.2 | 13 |).2 | Nor | ~~ | | |
| urvey Type: heck one) | | ne 🕅 | Re-Route | | ss Road | Other: | | | |
| hysical Attribute | S | | | | | ************************************** | | | |
| Stream Classification: | Epheme | eral 🔲 | Intermittent | | nnial | ganning) tin pagnagan iki ti tining pinan nining tining tining tining tining tining tining tining tining tining | | | |
| Vaterbody Type: check one) | Stream | iver | Ditch Ditch | Le | ike CCo | nnecting swale * | Other: | | |
| Width: <u>3</u> ft. | OHWM (check all | Indicator: that apply) | Clea on b | ar line bank | Shelvin | g X Wreste vegeta | tion | ouring | Water staining |
| Height: / ft. | Be | ent, matted, o issing vegeta | r 🔲 Wra tion line | ick | Litter ar debris | nd Abrupt | plant unity change | Soil ch change | aracteristic |
| Width of Waterbody - | Top of Bank t | o Wi | dth of Waterbod | y - Water I | Edge to | Depth of Wa | ater at Centerli | ne: | |
| .5 | # | | nei zage at oon | 4 | | | | ft. | |
| Sinuosity: | | Water veloc | ity: | It. Ba | nk height | | Bank slo | pe | |
| check one) | aight | (Approx.) | | | Right: | 1/2 11 | F | Right: | 6 30 degrees |
| Me | andering | | ∠ ∫ fps | | Left: | 1/2- | | Left: | 6,30 |
| Qualitative Attrib | utes | <u>l</u> | | | | | | | uegiee |
| Water Appearance: (check one) | No water | Clear | Turbid | Sheen on surface | Surfa | ce Algal mats | Other: | | |
| Substrate: | Bedrock | Gravel | Sand | 🕅 si | lt/clay | Organic | Other: | | |
| % of Substrate: | <u>D</u> % | 70% | % | 2 | <u>_</u> % | % | | | % |
| Width of Riparian Zoi | ne: Vege (check | tative Layers all that apply) | : Tree | es: | | Shrubs: | | 5 | Herbs |
| ft. | Avg. | DBH of Dom | inants: | all provide the second s | _in. | Interpopulations) | in. | Leby. | and a second |
| Dominant Bank Vege | etation: | ata, Fe | stuca pr | atense | , Tay | oxa Ellin | N. Leo, 2 | , De | |
| Aquatic Habitats (ex: | submerged or emer | ged aquatic vege | tation, overhanging bar | nks/roots, leaf |) backs, large sub | merged wood, riffles, de | ep pools): | | |
| Aquatic Organisme (| 50K | | | | | | | | |
| (1/si) NONE | Juserveu. | | | | | | | | |
| Invasive and/or T&E | Species Obse | rved: | 99 Mar - Mar - Bar - Ba | | | *** | Q-47,940,000,000,000,000,000,000,000,000,000 | ********** | |
| NUNZ Tributary is: | Farand | | | | | | | | |
| (check one) | Natura | u [| Artificial, man | -made | ZManipula | ated | | | |
| Disturbances: (check all that apply) | Livest acces | ock [| Manure in waterbody | □v p | /aste discha pes | rge 🖾 | other: Ray | Iside | SUN C |
| Stream Quality ^b : (check one) | High | | Moderate | | ow | | | | |

- ^a Connecting swales are water features that do not meet the definition of a waterbody (not an ephemeral waterbody) in that there is not a defined bed, bank, and ordinary high water mark, however, it is a water conveyance feature that is characterized by flow volume, frequency, and duration to make it more than just an erosional feature and connects two potential waters of the U.S. and thereby may be subject to Section 404 permitting.
- ^b High Quality: Natural channel, natural vegetation extends at least one or two active channel widths on each side; banks stable and protected by roots; water color is clear to tea-colored; no barriers to fish movement; many fish cover types available; diverse and stable aquatic habitat; no disturbance by livestock or man.

Moderate Quality: Altered channel evidenced by rip-rap; natural vegetation extends 1/3-1/2 of the active channel width on each side; filtering function or riparian vegetation only moderately compromised; banks moderately unstable; water color is cloudy, submerged objects covered with greenish film; moderate odor; minor barriers to fish movement; fair aquatic habitat; minimum disturbance by livestock or man.

Low Quality: Channel is actively down cutting or widening; rip rap and channelization excessive; natural vegetation less than 1/3 of the active channel width on each side; lack of regeneration; filtering function severely compromised; banks unstable (eroding); water color is muddy and turbid; obvious pollutants (algal mats, surface scum, surface sheen); heavy odor; severe barriers to fish movement; little to no aquatic habitat; severe disturbance from livestock or man.

Notes

Waterbody Sketch



swzg020



Waterbody swzg020 facing upstream



Waterbody swzg020 facing downstream

Swzg020



Waterbody swzg020 facing upline cross stream

| terbody Data | Sheet | | | | |
|--|-----------------------------|---|---------------------------------|-----------------------------------|-------------------------|
| urvey Descriptio | on . | | | | |
| oject Name: | W | aterbody Name: | -(<u>~</u> 1 | Waterbody ID: | Date: |
| supply He | neer | SCHOOL AN | ches fork | EUSWZHO: | 21 7-23-15 |
| ate: County: | L_(1 | Company: | | ember Initials: Photo | D(s): |
| | szell | Milenost Entry | | Associated Wetland | 13/01. |
| | umber listed | | | ADD P | w(a). |
| | | 104 | MA | 10012 | |
| urvey type: heckone) | Centerline | Re-Route | Access Road | Other: | |
| hysical Attribut | tes | | | | |
| tream Classification | n: | | Perennial | | |
| Vaterbody Type: | Stream River | Ditch Pond | Lake Cor | necting swale * | Other: |
| DHWM | OHWM Indica | ator: | | | |
| Width: 25 # | (check ell that epp | on bar | line KlShelving | Vrested vegetation | Scouring Water staining |
| Height: 3 ft | Bent, m missing | atted, or Wrack vegetation Tine | Litter and debris | d Abrupt plant | Soil characteristic |
| Width of Waterbody | - Top of Bank to erline: | Width of Waterbody Water Edge at Cente | - Water Edge to | Depth of Water at (| Centerline: |
| 3 | Σīt. | 9 | Ϋ́π. | | 8 ¹¹ ft. |
| Sinuosity: | Wate | r velocity: | Bank height | B | ank slope |
| (check one) | traight (Approx | a) / [] | Right | 5. | Right: SO degrees |
| ™ 1 м | leandering | ≤ 5 fps | - left | <u> </u> | |
| | | | | <u></u> | <u>70</u> degrees |
| Qualitative Attri | butes | | | | |
| (check one) | No water Clea | ar 🖄 Turbid 🔲 sh on | neen 🛄 Surtac I surface scum | e Algai Oti mats | 1er: |
| Substrate: | Bedrock 🕅 Gre | vel X Sand | Silt/clay | Organic Ot | 1 0 7: |
| (check ell that epply) | | | | | <u> </u> |
| % of Substrate: | 10% 101 | <u>0%</u> <u>5</u> % | <u>() %</u> | % | % |
| 915 ft. | check all thet | of Dominants: | " | Shrubs: | Herbs |
| Dominant Bank Ve $Acern$ | getation: equindo, I | Photonuo oza | , dentalis | , Microster | jus Vimenea |
| Aquatic Habitats (e | x submerged or emerged aqu | atic vegetation, overhanging banks | s/roots, leaf packs, large subr | nerged wood, riflies, deep pools) | |
| Pools, | rittles, o | verhienering | Ves | | |
| Aquatic Organisms (181) SmAll | s Observed: Jish, SM | all invertes | mates | | |
| Invasive and/or T& | E Species Observed | iminea | | | |
| Tributary is: (check one) | | Artificial. man-n | nade XManipula | ted | |
| Disturbances: (check ell thet apply) | | Manure in waterbody | Waste dischal | ge 🛛 Other: | Adjacant Rom |
| Stream Quality ^b : (check one) | High | Moderate | Low | | |

| | Waterbody ID: |
|---|--|
| | SWZHOZI |
| Connecting swales are water features that do not meet the definition of a waterbody (not an ephemeral waterbody) in that and ordinary high water mark, however, it is a water conveyance feature that is characterized by flow volume, frequency, and an erostonal feature and connects two potential waters of the U.S. and thereby may be subject to Section 404 permitting. | there is not a defined bed, bank, duration to make it more than just |
| ^b High Quality: Natural channel, natural vegetation extends at least one or two active channel widths on each side; b roots; water color is clear to tea-colored; no barriers to fish movement; many fish cover types available; diverse and disturbance by livestock or man. | anks stable and protected by stable aquatic habitat; no |
| Moderate Quality: Altered channel evidenced by rip-rap; natural vegetation extends 1/3-1/2 of the active channel w function or riparian vegetation only moderately compromised; banks moderately unstable; water color is cloudy, sub greenish film; moderate odor; minor barriers to fish movement; fair aquatic habitat; minimum disturbance by livestoc | idth on each side; filtering merged objects covered with k or man. |
| Low Quality: Channel is actively down cutting or widening; rip rap and channelization excessive; natural vegetation channel width on each side; lack of regeneration; filtering function severely compromised; banks unstable (eroding); turbid; obvious pollutants (algal mats, surface scum, surface sheen); heavy odor; severe barriers to fish movement; severe disturbance from livestock or man. | less than 1/3 of the active water color is muddy and little to no aquatic habitat; |
| Notes | |
| Waterbody Sketch Include north errow, centerline, distance from centerline, photo locations, survey boundary, and unique IDs of associate | od feetures. |
| ALLESS ROWL SWZHOIN FLOW Y | |



Waterbody swzh021 facing upstream



Waterbody swzh021 facing downstream



Waterbody swzh021 facing upline cross stream

Waterbody Data Sheet

| Survey Description | n, | | ·. · | | | | • • • | | |
|--|--------------------------|-----------------------------|---|-----------------------|---------------------|-----------------------------------|-------------------------|------------------|----------------------|
| Project Name: | ~ | Waterbody | Name: | 710 | V | Naterbody ID: | | Date: | |
| Supply H | encer | UNT | 70 But | 14 10 (K | un | SWZH | 012 | 7- | 23-15 |
| State: County: | , | Co | mpany: | | Crew Merr | ber Initials: | Photo ID(s): | | |
| W WET | LEL | A | DUEST | | 50,1 | PP | | | |
| Fract Number(s): | | MI | epost Entry: | Milepost E | xit: | Associated W | etland ID(s): | | |
| 33-001- | 1500A | [1 | | ATA | | NOUS | | | |
| Survey Type: check one) | Centerline | Re | -Route | | toad [| Other: | | | |
| Physical Attribute | 95 | | 999 (C. C. C | | ₽ `~^_`` | aring Shipici Shiriston - anim | | | |
| Stream Classification: (check.one) | Ephemeral | J Ini | ermittent | Perennia | 1 | | | | |
| Waterbody Type: (check one) | Stream | Dite | h Dond | Lake | Conne | ecting swale * | Other: | | |
| OHWM | OHWM Ind | icator: | | [r | 0.h e.h da e | 1177 1 A lun - h | | | ITZIA (alar |
| Width:ft. | | י אישיאי | on ban | ine L | Sneiving | vegeta | ation | unng | staining |
| Height <u>3"</u> ft. | Bent, missi | matted, or ng vegetation | Wrack line | | Litter and debris | Abrupt | t plant unity change | Soil o chan | characteristic ge |
| Width of Waterbody - Top of Bank at Cente | Top of Bank to rline: | Width Wate | of Waterbody | - Water Edg rline: | e to | Depth of Wi (Approx.) | ater at Centerlin | ie: | |
| 8 | ۲ ft. | | 1 | ft. | | | <u>/4</u> " | _ ft. | |
| Sinuosity: | Wa | ter velocity: | | Bank I | neight | | Bank slop | e | |
| (check one) | aight (Ap) | nox.) | | | Right (| " | R | ight: | 70 degrees |
| | andering | <u><</u> | fps | | l offr 1 | | | | |
| | | | | | Leit. | <u></u> ft. | | 7 | 0degrees |
| Qualitative Attrib | utes | | | | | | | | |
| Water Appearance: (check one) | No water | lear 🔲 T | urbid Sh | | Surface | Algai mate | Other: | | |
| Substrate: | Bedrock X G | iravel | Sand | Silt/cia | iy 🗖 | Organic | Other: | | |
| % of Substrate: | 20 % | 7D % | % | 10 | _% | | | | % |
| Width of Riparian Zo | ne: Vegetati | ve Layers: | | | Γ | Stephenike. | <u></u> | | |
| <u> </u> | Avg. DB (epprox.) | H of Domina | ants: | in. | L | | in. | | |
| Dominant Bank Veg | etation: | | | | 1. (| 1 ~ ~ . | F | | C. D. In |
| Impa-116 | ins cape | n515, | Doerm | eria c | yino | (TICH) | ragus g | mane | VINONA |
| (184) R. HIQS | anpweißeq ot eweißeg | aqualic vegetatio | n, overhanging banks | /roots, leaf pack | , iarge submerç | ged wood, riffies, da | sep pools): | | |
| Aquatic Organisms | Observed: | | | | • | | | d.g. (ullularia) | ***** |
| Invasive and/or T&F | Species Ohserve | d: | | | | | | | |
| Midros | tegrim 1 12 | nines | L. | | | | | | |
| Tributary is: (check one) | | X | Artificial, man-m | nade 🛄 | Manipulatec | ± | | | |
| Disturbances: (check all that apply) | Livestock | | Manure in waterbody | Wast pipes | e discharge | × لک | Other: NDA | dsid | e dith |
| Stream Quality ^b : (check one) | High | Z | Moderate | Low | | | | | |

| - | _ | _ | | _ | | |
|---|-----|--------|----|-----|------|------------|
| ł | Ini | mar | hr | vin | e li | 3. |
| х | | <- i i | wu | ~ | | . . |

^a Connecting swales are water features that do not meet the definition of a waterbody (not an ephemeral waterbody) in that there is not a defined bed, bank, and ordinary high water mark, however, it is a water conveyance feature that is characterized by flow volume, frequency, and duration to make it more than just an erostonal feature and connects two potential waters of the U.S. and thereby may be subject to Section 404 permitting.

^b High Quality: Natural channel, natural vegetation extends at least one or two active channel widths on each side; banks stable and protected by roots; water color is clear to tea-colored; no barriers to fish movement; many fish cover types available; diverse and stable aquatic habitat; no disturbance by livestock or man.

Moderate Quality: Altered channel evidenced by rip-rap; natural vegetation extends 1/3-1/2 of the active channel width on each side; filtering function or riparian vegetation only moderately compromised; banks moderately unstable; water color is cloudy, submerged objects covered with greenish film; moderate odor; minor barriers to fish movement; fair aquatic habitat; minimum disturbance by livestock or man.

Low Quality: Channel is actively down cutting or widening; rip rap and channelization excessive; natural vegetation less than 1/3 of the active channel width on each side; lack of regeneration; filtering function severely compromised; banks unstable (eroding); water color is muddy and turbid; obvious pollutants (algal mats, surface scum, surface sheen); heavy odor; severe barriers to fish movement; little to no aquatic habitat; severe disturbance from livestock or man.

Notes

Waterbody Sketch

4K



Waterbody swzh012 facing upstream



Waterbody swzh012 facing downstream



Waterbody swzh012 facing upline cross stream

| aterbody Data Sheet | | | | مىيىنى بەر يىلىرىنىيە ، بىرىنىڭ ئىزىنىڭ بىرىنىڭ بىرىنىڭ بىرىنىڭ بىرىنىڭ بىرىنىڭ بىرىنىڭ بىلىكى بىرىنىڭ بىرىنىڭ | | |
|---|--|---|---|--|--|---|
| urvey Description | | | | | | · . |
| roject Name: | Waterb | ody Name: | 4 | Waterbody ID: | E | Date: |
| Supphy Hender | UN | UNT TO BUFFALO RUN | | SWZHO | 02 | 7-22-15 |
| tate: County: | สารมากการสารสารสารสารสารสารสาร | Company: | Crev | v Member Initials: P | hoto ID(s): | |
| WV WETZE | | DDWES | て しこ | TD, PP | | |
| ract Number(s): | an dan dia 1990 kang bahar dan san sa sa sa sa | Milepost Entry: | Milepost Exit: | Associated We | land ID(s): | a an |
| NO NUMBER LISTE | D | NA | NA | NON | 1E | |
| Urvey Type: heckone) | terline | Re-Route | | Other: | | |
| hysical Attributes | agradore Queene enconstant leve areas une | | | | 1 | |
| itream Classification: | emeral | Intermittent | | | | |
| Vaterbody Type: check one) Stream | River | Ditch Pond | Lake | Connecting swale ^a | Other: | |
| Chec Width: | VM Indicator: k all that apply) | | ne XShelv | ing Wrested | Scouri | ng Water |
| ft. | heart matted | or On bank | | , vegetation | on | Soil characteristic |
| fieight: | missing veget | ation Kine | debri | s commur | ity change | change |
| Nidth of Waterbody - Top of Bar Fop of Bank at Centerline: | nkto M M | /idth of Waterbody - /ater Edge at Centerl | Water Edge to line: | Depth of Wate (Approx.) | er at Centerline: | |
| <u>12</u> ñ. | | F C | 5ft. | | <u>Z″</u> " | , |
| Sinuosity: | Water velo | city: | Bank heigh | | Bank slope | |
| Straight | (Approx.) | 17 | Righ | t: Z_ _{ft.} | Righ | it: 60 degrees |
| 7 Meandering | | fps | Lef | t: | Le | ft: A > |
| (Mer) | | | l | ft. | | <u>GO</u> degrees |
| Qualitative Attributes | | | | | | anda waxaya waxaya waxaa ahaa ahaa ahaa ahaa ahaa ahaa ah |
| (check one) No water | Clear | Turbid She | en 门 Sur surface scu | rface 🔲 Algal 🕻 im mats | Other: | |
| Substrate: Substrate: Bedrock | X Gravel | Sand | X Silt/clay | Organic | Other: | |
| % of Substrate: <u>30</u> % | 60 % | <u>5</u> % | <u>5</u> % | % | | <u> </u> |
| Width of Riparian Zone: | egetative Laye | | | 1 Chruha | | |
| 225 th Side A | vg. DBH of Doi pprox.) | ninants: | % | Shirdbe. | in. | |
| Dominant Bank Vegetation: | Ulm | us america | ma Ro | an mieltit | tro Mi | crostegin |
| Aquatic Habiter (ex. submerged or (list) | emerged aquatic veg | etation, overhanging banks/re | oots, leaf packs, large | submerged wood, riffles, deep | pools); | Junipec |
| Aquatic Organisms Observed: | ortolaria | ta. | | | ىرىپ يەكەرىكە بىرى دۆكرىكە كەلەك كەرىپ كەرىرى قارار | |
| Invasive and/or T&E Species O | bserved: | | ana ann an Stàinean An Stài | | an g an | |
| Tributary is: | itural | Artificial, man-ma | ide 🕅 Manip | ulated | | a Mana Tabahata Ang Mana Nang Kapata yang Kababatan |
| Disturbances: (check all that apply) | restock cess | Manure in waterbody | Waste discl | harge 🔀 Oth | ner: adia | ent Rone |
| Stream Quality ^b : (check one) | gh | Moderate | Low | | | |





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Notes

Waterbody Sketch

Alton 25

APAN JUN HOOM BUFFEALD RUN ROAD
swzh002



Waterbody swzh002 facing upstream



Waterbody swzh002 facing downstream

Swzh002



Waterbody swzh002 facing upline cross stream

| Waterbody | Data | Sheet |
|------------|---------|--------|
| VUILLINGAY | Loco or | 000000 |

| alernouy Data Street | | | | |
|--|--|--|--|--|
| Survey Description | 、 | | | |
| Project Name: | Waterbody Name: | and and the community of the state | Waterbody ID: | Date: |
| Simply Der Der | UNT TO | | 5W2H003 | 7-22-15 |
| State: County: | Company: | Crew Me | mber Initials: Photo ID | (\$): |
| WV Wetzel | 2DWE5 | T JN | PP | |
| Tract Number(s): | Milepost Entry: | Milepost Exit: | Associated Wetland ID |)(S); |
| 33-001-A004 | NA | NA | NONE | |
| Survey Type: (check one) | line 🛄 Re-Route | Access Road | Other: | |
| Physical Attributes | | | 1 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 1 | |
| Stream Classification: | neral 🔲 Intermittent Ď | Perennial | | |
| (check one) | River Ditch Pond | Lake Conr | necting swale a DOt | her: |
| | A Indicator: | ne Shelving | Wrested | Scouring Water |
| Height: 4 | Sent, matted, or Wivrack | k Litter and | Vegetation | Soil characteristic |
| Width of Waterbody - Top of Bank | nissing vegetation Iine to Width of Waterbody - | Water Edge to | Depth of Water at Ce | ige change Interline: |
| Top of Bank at Centerline: | Water Edge at Center | line: | (Approx.) | /2 ["] |
| Sinuosity: | Water velocity: | Bank height | Ban | k slope |
| (check one) | (Approx.) | Right: | Z _{ft.} | Right: 60 degrees |
| Meandering | Zfps | Left: | 1 ft. | Left: <u>30</u> degrees |
| Qualitative Attributes | | | | |
| Water Appearance: (check one) No water | Clear Turbid She | een 门 Surface surface scum | Algai Othe | r: |
| Substrate: (check all that apply) | Gravel 🕅 Sand | Silt/clay | Organic Othe | r: |
| % of Substrate: <u> </u> | 70% 10% | 10 % | <u> </u> | <u> </u> |
| Width of Riparian Zone: Veg | etative Layers: k all that apply) | 10 | Shrubs: | Herbs |
| Sile (appril | ox.) | <u>10</u> in. | in, | |
| (181) A Lino Conor | on tulipiders, | FAGUS GrA | mdi Bolia, | Microsstegin |
| Aquatic Habitets (ex: submerged or eme | arged aquatic vegetation, overhanging banks/r | roots, leaf packs, large subme | rged wood, riffies, deep pools): | |
| Aquatic Organisms Observed: | (1) | | | ₩₩.₩.₩.₩.₩.₩.₩.₩.₩.₩.₩.₩.₩.₩.₩.₩.₩.₩.₩ |
| Invasive and/or T&E Species Obs | televates | | | |
| Microstecium | Viminea | | | |
| Tribufary is: | ral Artificial, man-ma | ade XManipulate | d | an da Gundan e gente del functione de anno 1995 d'un constructor de 2015 (da de un anno 1996). |
| Disturbances: (check all that apply) | tock Manure in ss waterbody | Waste discharge | e X Other: | Adjacent fores |
| Stream Quality ^b : (check one) | Moderate | Low | میں میں ہوتا ہوتا ہوتا ہوتا ہوتا ہوتا ہوتا ہوتا | rowd |

Waterbody ID:



^a Connecting swales are water features that do not meet the definition of a waterbody (not an ephemeral waterbody) in that there is not a defined bed, bank, and ordinary high water mark, however, it is a water conveyance feature that is characterized by flow volume, frequency, and duration to make it more than just an erosional feature and connects two potential waters of the U.S. and thereby may be subject to Section 404 permitting.

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Low Quality: Channel is actively down cutting or widening; rip rap and channelization excessive; natural vegetation less than 1/3 of the active channel width on each side; lack of regeneration; filtering function severely compromised; banks unstable (eroding); water color is muddy and turbid; obvious pollutants (algal mats, surface scum, surface sheen); heavy odor; severe barriers to fish movement; little to no aquatic habitat; severe disturbance from livestock or man.

Notes

Waterbody Sketch

Include north arrow, centerline, distance from centerline, photo locations, survey boundary, and unique IDs of associated features.



swzh003



Waterbody swzh003 facing upstream



Waterbody swzh003 facing downstream

Swzh003



Waterbody swzh003 facing upline cross stream

Waterbody Data Sheet

| aternouy Data an | 661 | | al an | ····· | ···· | | | |
|---|--|----------------------------------|---|---|--|--|---|---|
| urvey Description | | | | | | | | |
| roject Name: | | Waterboo | ly Name: | | | aterbody ID: | | Date: |
| Supply 11 | endo | UN | NT IS | | e | SWZH | 004 | 7-22-15 |
| tate: County: | | K | Company: | | Crew Memb | per Initials: Ph | ioto ID(s): | |
| WV WET | TZEL | | DDWE | ST | TD | PP | | |
| ract Number(s): | Nagang pang pang pang dalam na pang dan pang pang dalam dalam dalam pang dalam dalam dalam dalam dalam dalam d | | Wilepost Entry: | Milepost | Exit: A | ssociated Wetl | and ID(s): | an a |
| 77-171-427 | 521 | | NA | λ | TA | ٨J | ms. | |
| 33-WI-AUC | 7 | | | | | | | |
| nurvey Type: sheckone) | Centerline | | Re-Route | Access F | toad | Other: | | |
| Physical Attributes | an dia kata manja mangana kata kata da | na jaakaan maran 2000°inaa yikin | and an | n water in the second of the second secon | anan karangan karang | an a suite ann an 1900 ann | : : | |
| Stream Classification: | | | | | a ar ana, 1997 na Cal-30 400 na 7- 1980 na Cal- | ر در در بین است. در در بین است. - | | |
| sheck one) | Ephemeral | | Intermittent | Perennia Perennia | 1 | | | |
| Naterbody Type: check one) Str | eam Rive | r 🚺D | itch Pond | Lake | Connect | ting swale ^a | Other: | |
| 7 | CHIMA Inc | licator | hasserd | hears-1 | knacol | | | |
| Width: | (check all that | apply) | Clear | line | Shelving | Wrested | KScou | ring XWater |
| ft. | | | •••••••••••••••••••••••••••••••••••••• | nk ===- | | Vegetation | יי ח | staining |
| Height: 4 [#] # | Bent, missi | matted, or | · Wrack | < 🗌 | Litter and debris | Abrupt pla | ant [ty change | Soil characteristic change |
| Width of Waterbody - Te | op of Bank to | Wic | Ith of Waterbody | - Water Edge | e to | Depth of Wate | r at Centerline | |
| Top of Bank at Centerli | ne: | Wa | ter Edge at Cente | erline: | | (Approx.) | 15 " | |
| 4 | ft. | | | <u>/</u> ft | | | 17 | ft. |
| Sinuosity: check one) | Wa (Ap | ater veloci prox.) | ty: | Bank | neight Right | | Bank slope | |
| Straig | iht É | - | /1 | | rvignt: | ft. | PCIQ | degrees |
| Mean | idering | 4 | fps | | Left: | | L L | eft: |
| berce si | | + | | | | ft. | | degrees |
| Qualitative Attribut | tes | | | | | | | |
| Water Appearance: | owater Ma | lear 17 | Turbid TVe | ioon [| Surface | | Other | |
| | | | or | surface | scum | mats | | |
| Substrate: | edrock | Gravel | X sand | X silt/cla | | Organic | Other: | |
| (check all that apply) | | Jidver | UKS Galia | | y bazer.l | organito tour | | ₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩ |
| % of Substrate: | % | <u>30 %</u> | <u>20</u> % | 50 | _ % | % | | <u> </u> |
| Width of Riparian Zone | : Vegetat | ive Layers | • 177 | مى يىلى بىلىك تۇرىپى يىلىك يېچى بىلىرى يالىكى يېچى يېچى يېچى يېچى يېچى يېچى يېچى يېچ | L | Tehnika: | 9 m. T. FLAN (99,999) - 1 mil an t-sta an 100 first | KHartha |
| 725 . 6 | AVG DE | H of Dom | | i D. | | Surupe: | • | rierbs |
| <u></u> | de (approx.) | | A | <u></u> in. | | | in. | |
| Dominant Bank Vegeta | Oron fu | lipite | era, Miz | rostegi | in Un | ninea, | Boehn | erracyfind |
| Aquatic Habitats (ex: su | bmerged or emarged | aquatic veget | ation, overhanging banks | /roots, leaf packs | , large submerged | d wood, riffles, deep | pools): | an a |
| Propla | | | | | | | | |
| Aquatic Organisms Of | served: / | | | والارتيان وسير والمحافظة وسير والمراجع | | | **** | |
| (IISI) small | inverte | Sonta | 0 | | | | | |
| Invasive and/or T&E S | pecies Observe | ed: | | | 8-8 | and and a second se | | ŢŢŎĊĸĊĊĸĹĸĊĸĸŦŦŦŦĬĬŦĸĸĬŦĸĸŎŎĊŎŢĊĿĿŎĸĊŦŖŦŎŦĸŢŦŎĿĊŀŢŎŎĬĬĬŢĸĸŢŎŎ |
| | * | | - | | | | | |
| (ist) Milan | Joch | 1 1 1 10 | | | | | | |
| Tributary is: | stegin | Uin | <u>nne</u> | N71 - | and the Database of the Construction of the | ي روي ويونيو ويونيو ويوني وي | | |
| (IIst) Milero = Tributary is: (check one) | Natural | Uin | Artificial, man-n | nade 🕅 | Manipulated | ۲۵۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ ۱۹۹۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ | | |
| (list) Tributary is: (check one) Disturbances: (check all that apply) | Natural | | Artificial, man-n | nade 🕅 I | Manipulated e discharde | | ər: ΛΛ | I fore |
| (list) Miles = Tributary is: (check one) Disturbances: (check all that apply) | Natural | | Artificial, man-n Manure in waterbody | nade X | Manipulated e discharge | X Oth | ər: Adı | ient fore |

Form Rev. 2/21/2014

Waterbody ID:

SWZHOOY

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Notes

Waterbody Sketch

Include north arrow, conterline, distance from conterline, photo locations, survey boundary, and unique IDs of associated features.



swzh004



Waterbody swzh004 facing upstream



Waterbody swzh004 facing downstream

Swzh004



Waterbody swzh004 facing upline cross stream

| aterbody Data S | heet | | | | | | | |
|---|--|------------------------|--|---|--|--|---|--|
| urvey Description | n. | | | | | | | |
| roject Name: | | Waterbo | dy Name: | N. N | | Waterbody ID: | | Date: |
| Supply her | der | UN | TO | | | SWZH | 005 | 2-22-15 |
| tate: County: | | | Company: | n a state of the local state of the state of t | Crew Mei | mber Initials: Pho | oto ID(s): | |
| WV WE | TZEL | | DDUES | T | JD. | PP | | |
| ract Number(s): | ana - Pinnan Pan Angal Madata di Pananin e Tana Madata | | Milepost Entry: | Milepost E | xit: | Associated Wetla | nd ID(s): | ۲۳، میں 1993 کی 20 کی 1997 کی 1 - |
| 33-001-AC | 04 | | NA | N | 4 | wwz | H 02 | ٥ |
| urvey Type: sheck one) | Centerline | | Re-Route | Access R | oad | Other: | | |
| Physical Attribute | 15 | | | | | | : | |
| Stream Classification: check.one) | Ephemeral | | Intermittent | Z Perennia | I | | | |
| Naterbody Type: check one) | Stream | [] C | Ditch Pond | Lake | Conn | ecting swale a | Other: | |
| DHWM | OHWM Indi | cator: | ++ | | | pitra . | | |
| Width: $5_{ft.}$ | (check all that a | рріу) | Clear lir on ban | ne | Shelving | Wrested vegetation | Scou | ring K vvater staining |
| Height: <u>6'</u> ft. | Bent, missir | matted, o ig vegeta | tion Wrack | | Litter and debris | Abrupt plan community | nt Change | Soil characteristic change |
| Width of Waterbody - Top of Bank at Center | Top of Bank to rline: | Wi Wa | dth of Waterbody - ater Edge at Centerl | Water Edge line: | e to | Depth of Water (Approx.) | at Centerline | 2: |
| 17 |) 🕈 | | 2 | - n | | | <u> </u> | ft. |
| Sinuosity: | Wa | ter veloc | ity: | Bank h | eight | | Bank slope | |
| (check one) | aight (App | rox.) | • | | Right: | 2 | Rig | int: 40 dooroop |
| Me | andering | • | <i fps<="" td=""><td></td><td>Left:</td><td><u> </u></td><td>L.</td><td>eft: 40</td></i> | | Left: | <u> </u> | L. | eft: 40 |
| Jean J | | | | | | <u><u> </u></u> | <u> </u> | <u> </u> |
| Qualitative Attrib | utes | | | | | | | |
| Water Appearance: (check one) | No water 🚺 Cl | ear | Turbid She | en [|] Surface scum | Algal mats | Other: | |
| Substrate: | Bedrock 🕅 G | ravel | Sand | X Silt/cla | у [|] Organic | Other: | |
| % of Substrate: | 10 % 4 | 20_% | <u>/0</u> % | 20 |) % | % | | <u> </u> |
| Width of Riparian Zoi | ne: Vegetativ | (e Layers | | | | Shrubs: | # UNIX | Herbs |
| ft. | Avg. DBI | l of Dom | inants: | in. | ٥ | | in. | |
| Dominant Bank Vege | etation: | | - Linger | | - fr. 1 | A Page | R | |
| Chipin | | 11000 | a, Linoa | | | ·p····· | soume | 1 va cymore |
| Aquatic Habitats (ex: | submerged or emerged a | iquatic vege | tation, overhanging banks/n | oots, leaf packs, | large submer | rged wood, riffles, deep po | ools): | |
| Aquatic Organisms (| bserved: | | | anan danané ng pangkan pangkan di kangkan di | | | ***** | |
| Small | ineerle | 500 | tes | | | | | |
| Invasive and/or T&E | Species Observe | d: | 0.4 | anna an an Anna an Anna an Anna an Anna | ¥.₩Y.*==*Y.¥y.4,5 ²² , ² .888,188,88 | n an | € | ტილერი კარი მომის მოია და კავატარი თა მოფი და და და მი მომის მომის მომის მომის მომის მომის მომის მომის მომის მ |
| Tributary is: | Natural | nen I | Artificial man-ma | | Aaninulato | d | andra in an an ann an an an an an an an an an a | |
| Disturbances: (check all that apply) | | <u>ו</u> [| Manure in | Waste | discharge | | r ΔΩ. | and Sorest 1 |
| Stream Quality ^b : | access | | waterbody | pipes | | an fan de sen an de s En an de sen an de se | Hay | a lh a |
| (cneck one) | High | | Moderate | Low | | | 191 | perne |
| | | | | | | | | |

Form Rev. 2/21/2014

- -

Waterbody ID:



swzh005



Waterbody swzh005 facing upstream



Waterbody swzh005 facing downstream

Swzh005



Waterbody swzh005 facing upline cross stream

Waterbody Data Sheet

| aterbody Data Si |) | and a state of a second state of the second seco | ۵۰۰۰۰۰ | ar an | | | | | |
|--|---|---|--|---|---|---|--|--|------|
| oject Name: | · | Waterbo | dy Name: | | and any a service of the | Waterbody ID: | Angla balan ay an tir birdin ara an tir birdi bara ar | Date: | |
| Kingle, 1 Jan | (A D D | UN | 7 70 | | | SWZH | 006 | 7-22- | 15 |
| tate: County: | | | Company: | | Crew Me | mber Initials: | Photo ID(s): | | |
| iv We | tre((| | DDWE | 57- | JD | ,PP | | وجماعته ومساوي والجافا الماجين والواقع والمحافظ والمحافظ والمحافظ والمحافظ | |
| ract Number(s): | | NA MARINA AND AN OWNER | Milepost Entry: | Milepost E | xit: | Associated W | etland ID(s): | | |
| 33-701-A | 204 | an a bina mainta da an sistema | NA | WK | 4 | NC | ne. | | |
| neck one) | Centerline | | Re-Route | Access R | oad | Other: | | | |
| hysical Attribute | 5 | | an and a sub-train party set an an article and | | anderen sont hat two for the coupling for a | Non-second and the second statements | | a Mala tan nga manghi sa ta ang nga mga ka Mala mang nga mga pangangan | |
| tream Classification: heck.one) | Ephemera | N N | intermittent | Perennia | | | n tanya ay Garaga Managa Managa Sana | | |
| heck one) K | tream 🔲 Rive | ər 🛄 🛛 | Ditch Dond | Lake | Conn | ecting swale * | Other: | | _ |
| HWM Width: 7 | OHWM In (check all tha | dicator: tapply) | Clear li | ine | Shelving | Wreste | ed Sco | ouring Water | |
| Height: 3^{H} ft. | | t, matted, c sing vegeta | or Wrack | | .itter and lebris | | plant unity change | Soil characteristic change | 2 |
| Vidth of Waterbody - | Top of Bank to | Wi | dth of Waterbody - | - Water Edge | to | Depth of Wa | ater at Centerlin | 16: | |
| op of Bank at Celler | | 441 | ater Edge at Center | riine: | | (Approx.) | NONE | - - | |
| inuosity: | ft | ater veloc | ifv: | ft. Bank h | eight | | Bank slot |)e | |
| theck one) | iaht (A | pprox.) | | | Right: | 1 | R | ight: 20 | |
| 64444 | | | く (| | ••• | <u>l</u> ft. | | <u>20</u> degree | ès |
| Mea | Indering | | ips | | Left: | ft. | | Left: <u>30</u> degree | es |
| Jualitative Attribu | ites | | | | | | | , | |
| Nater Appearance: check one) | No water | Clear |] Turbid 🔲 Sh | een | Surface | Algai | Other: | | |
| Substrate: | Bedrock | Gravel | | Silt/cla | | Organic | Other: | | |
| % of Substrate: | | <u>e0</u> % | <u>5</u> % | 15 | - _% | % | | % | |
| Nidth of Riparian Zon | ie: Vegeta | tive Layers | | | | Mehrube: | | 12 Hortes | |
| 725 ft. | Avg. D | BH of Dom | ninants: | in. | I | | in. | 4 J Herbs | |
| Dominant Bank Veger | tation: | alis, | Asimina | fribe | in, L | indern . | benzoin | , Athynun | n, |
| Aquatic Habitats (ex. s | submerged or emerge | d aquatic vege | tation, overhanging banks/ | roots, leaf packs, | large subme | rged wood, riffles, de | ep pools): | <u></u> | m |
| Aquatic Organisms C | bserved: | | والمحاوية المحاوية والمحاوية والمحاوية والمحاوية والمحاوية والمحاوية والمحاوية والمحاوية والمحاوية والمحاوية و | | nan in senatis ananga | | المركز المحدود (ما الم <mark>تحديث المركز المركز الم</mark> ركز المركز الم | | |
| (IIST) NONE | | | | | | | | | |
| Invasive and/or T&E | Species Observ | red: | annan a san a san annan fi ai basa na san anna fi a san anna anna anna anna anna anna an | | an a shara a Maraka ka sa | an y mailleadh an a' ann an t-Arlin - C do a' a' ann an C | | مستقار الكافر الكافر المستعدية المراد المستعدية المراد المراد المستعدية المراد المراد المراد المراد الم | |
| ("SO NTR | Content to an acception of Completance can your advancement | | | | | | | The wild data barry party of the Statistican and the state of the state of the state of the state of the State | |
| Tributary is: (check one) | Natural | | Artificial, man-m | ade 🔼 | lanipulate | d | | | |
| Disturbances: (check all that apply) | Livestoc access | к [| Manure in waterbody | Waste | discharge | | other: Ob | nest rond | عهرت |
| Stream Quality ^b : (check one) | High | | Moderate | Low | | | | | |

SWZAOOG

^a Connecting swales are water features that do not meet the definition of a waterbody (not an ephemeral waterbody) in that there is not a defined bed, bank, and ordinary high water mark, however, it is a water conveyance feature that is characterized by flow volume, frequency, and duration to make it more than just an erosional feature and connects two potential waters of the U.S. and thereby may be subject to Section 404 permitting.

^b High Quality: Natural channel, natural vegetation extends at least one or two active channel widths on each side; banks stable and protected by roots; water color is clear to tea-colored; no barriers to fish movement; many fish cover types available; diverse and stable aquatic habitat; no disturbance by livestock or man.

Moderate Quality: Altered channel evidenced by rip-rap; natural vegetation extends 1/3-1/2 of the active channel width on each side; filtering function or riparian vegetation only moderately compromised; banks moderately unstable; water color is cloudy, submerged objects covered with greenish film; moderate odor; minor barriers to fish movement; fair aquatic habitat; minimum disturbance by livestock or man.

Low Quality: Channel is actively down cutting or widening; rip rap and channelization excessive; natural vegetation less than 1/3 of the active channel width on each side; lack of regeneration; filtering function severely compromised; banks unstable (eroding); water color is muddy and turbid; obvious pollutants (algal mats, surface scum, surface sheen); heavy odor; severe barriers to fish movement; little to no aquatic habitat; severe disturbance from livestock or man.

Notes

Waterbody Sketch

Include north arrow, centerline, distance from centerline, photo locations, survey boundary, and unique IDs of associated features.



swzh006



Waterbody swzh006 facing upstream



Waterbody swzh006 facing downstream

Swzh006



Waterbody swzh006 facing upline cross stream

Waterbody Data Sheet **Survey Description** Project Name: Waterbody Name: Waterbody ID: Date: UNT TO Supply Hender SWZ 4007 -22-15 Company: Crew Member Initials: Photo ID(s): State: County: 5 WETZEL DDWEXT PP 2D Milepost Entry: Associated Wetland ID(s): Tract Number(s): Milepost Exit: NONE 33-001-AUDY NA NA Survey Type: Access Road (check one) Centerline Re-Route Other: **Physical Attributes** Stream Classification: (check.one) Ephemeral M Intermittent Perennial Waterbody Type: Stream River (check one) Ditch Pond Lake Other: Connecting swale * OHWM OHWM Indicator: **W**ater (check all that apply) Clear line Shelving Wrested Scouring Width: on bank vegetation staining Bent, matted, or Wrack Litter and Abrupt plant Soil characteristic Height: missing vegetation line debris community change change Depth of Water at Centerline: Width of Waterbody - Top of Bank to Width of Waterbody - Water Edge to Top of Bank at Centerline: Water Edge at Centerline: (Approx.) ţ۴t. ft. Sinuosity: Water velocity: Bank height Bank slope (check one) (Approx.) **Right**: Right: 2.6 degrees Straight Meandering Left: Left dearees **Qualitative Attributes** Water Appearance Clear (check one) X No water Turbid Sheen Surface Algal Other: on surface seum mate Silt/clay **K**Gravel Sand X Bedrock Substrate: Organic Other: (check all that apply) 20 % 0' % of Substrate: % % Width of Riparian Zone: Vegetative Layers: X Trees: Herbs X Shrubs: (check all that apply) $72S_{ft}$ Avg. DBH of Dominants: in. in. (approx.) Dominant Bank Vegetation: Platamus occidenta (list) s, FAgues grand Altri そりいし Aquatig tabitats (ex: submerged or emerged aquatic vegetation, overhanging banks/roots, leaf packs, large submerged wood, riffies, deep pools): ""THE Aquatic Organisms Observed: (list) NONZ Invasive and/or T&E Species Observed: Uminea Microsi Tributary is: Natural (check one) Artificial, man-made Manipulated Disturbances: Mother: Adyscont (check all that apply) Livestock Manure in Waste discharge access waterbody pipes Stream Qualityb: (check one) High Moderate Low

Waterbody ID:



^a Connecting swales are water features that do not meet the definition of a waterbody (not an ephemeral waterbody) in that there is not a defined bed, bank, and ordinary high water mark, however, it is a water conveyance feature that is characterized by flow volume, frequency, and duration to make it more than just an erosional feature and connects two potential waters of the U.S. and thereby may be subject to Section 404 permitting. ^b High Quality: Natural channel, natural vegetation extends at least one or two active channel widths on each side; banks stable and protected by roots; water color is clear to tea-colored; no barriers to fish movement; many fish cover types available; diverse and stable aquatic habitat; no disturbance by livestock or man. Moderate Quality: Altered channel evidenced by rip-rap; natural vegetation extends 1/3-1/2 of the active channel width on each side; filtering function or riparian vegetation only moderately compromised; banks moderately unstable; water color is cloudy, submerged objects covered with greenish film; moderate odor; minor barriers to fish movement; fair aquatic habitat; minimum disturbance by livestock or man. Low Quality: Channel is actively down cutting or widening; rip rap and channelization excessive; natural vegetation less than 1/3 of the active channel width on each side; lack of regeneration; filtering function severely compromised; banks unstable (eroding); water color is muddy and turbid; obvious pollutants (algal mats, surface scum, surface sheen); heavy odor; severe barriers to fish movement; little to no aquatic habitat; severe disturbance from livestock or man, Notes Waterbody Sketch Include north arrow, centerline, distance from centerline, photo locations, survey boundary, and unique IDs of associated features. SWZHOOR 5WZH006 ess Rue Form Rev. 2/21/2014 swzh007



Waterbody swzh007 facing upstream



Waterbody swzh007 facing downstream

Swzh007



Waterbody swzh007 facing upline cross stream

| urvey Description |) . | | | | | |
|---|--------------------------------------|--|--------------------------------------|--|--------------------------|--|
| roject Name: DTT Supple | stender L | aterbody Name: INT 40 CPMP | orters Run | Waterbody ID: $S W 2 G O_{2}$ | 28 | Date: 5-13-13 |
| itate: County: | fzel | Company: DDWEST | - Crew Me | mber Initials: Pho 56 | oto ID(s): | |
| Fract Number(s): 33 - 009 - 14 | 1001 | $\frac{\text{Milepost Entry:}}{26.3}$ | $\frac{\text{Milepost Exit:}}{26.3}$ | Associated Wetla | nd ID(s): いいて | 6004P |
| Survey Type: check one) | | Re-Route | Access Road | Other: | | |
| Physical Attribute | 5 | | | | | |
| Stream Classification: check.one) | Ephemeral | Intermittent | Perennial | | | |
| (check one) | Stream | Ditch Pond | Lake Conr | necting swale * | Other: | |
| онwм Width: <u> </u> | OHWM Indica (check all that apply | が Clear lin on bani | ne Shelving | Wrested vegetation | Scouri | ng Water staining |
| Height: | Bent, ma missing | tted, or Wrack line | Litter and debris | Abrupt plar community | nt change | Soil characteristic change |
| Width of Waterbody - Top of Bank at Center | Top of Bank to fline: 7ft | Width of Waterbody - Water Edge at Center | Water Edge to line: ft. | (Approx.) | at Centerline: | <u>.</u> |
| Sinuosity: (check one) | Water (Approx. | velocity: | Bank height Right: C | <u></u> ti. | Bank slope Rigi | it: <u>80</u> degrees |
| | andering | fps | Left: | 10 ft. | Le | ft: AD_degrees |
| Qualitative Attrib | utes | | | | | |
| Water Appearance: (check one) | No water K Clean | r Turbid She | een 🛄 Surface surface scum | Algal mats | Other: | |
| Substrate: | Bedrock 🕅 Grav | el XSand | Silt/clay | Organic | Other: | |
| % of Substrate: | <u>20 % 1(</u> | 2% <u>5</u> % | <u> 5 %</u> | % | | % |
| $\frac{1000}{\text{ft.}}$ | ne: Vegetative (check all that a) | f Dominants: | in. | Shrubs: | in. | Herbs |
| Dominant Bank Vege | etation:) CArolman | re, Acer rubr | rım, Faqi | escondit | Poha, Pa | lystichun |
| Aquatic Habitats (ex. | submerged or emerged aqua | tic vegetation, overhanging banks/r | oots, leaf packs, large subme | rged wood, rifiles, deep po | ois): | 9031010005 |
| Aquatic Organisms (1/st) Smal | Doserved: Q inverte | mates | | | | an man an a |
| Invasive and/or T&E | Species Observed: | γ4 | | ₩ <u>₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩</u> | ₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩ | |
| Tributary is: (check one) | Natural | Artificial, man-ma | ade 🛄 Manipulate | d | | Ada, 1977 - 19 - 199 - 199 - 199 - 199 - 199 - 199 - 199 - 199 - 199 - 199 - 199 - 199 - 199 - 199 - 199 - 199 |
| Disturbances: (check all thet apply) | Livestock access | Manure in waterbody | Waste discharge pipes | e 🚺 Other | N | NE |
| Stream Quality ^b : (check one) | High | Moderate | Low | ************************************** | | |

Waterbody Data Sheet

| | Waterbody ID: |
|---|--|
| | 5626028 |
| ^a Connecting swales are water features that do not meet the definition of a waterbody (not an ophemeral waterbody) in that and ordinary high water mark, however, it is a water conveyance feature that is characterized by flow volume, frequency, and an erosional feature and connects two potential waters of the U.S. and thereby may be subject to Section 404 permitting. | there is not a defined bed, bank, duration to make it more than just |
| ^b High Quality: Natural channel, natural vegetation extends at least one or two active channel widths on each side; b roots; water color is clear to tea-colored; no barriers to fish movement; many fish cover types available; diverse and disturbance by livestock or man. | anks stable and protected by stable aquatic habitat; no |
| Moderate Quality: Altered channel evidenced by rip-rap; natural vegetation extends 1/3-1/2 of the active channel w function or riparian vegetation only moderately compromised; banks moderately unstable; water color is cloudy, sub greenish film; moderate odor; minor barriers to fish movement; fair aquatic habitat; minimum disturbance by livestoc | ridth on each side; filtering pmerged objects covered with ek or man. |
| Low Quality: Channel is actively down cutting or widening; rip rap and channelization excessive; natural vegetation channel width on each side; lack of regeneration; filtering function severely compromised; banks unstable (eroding); turbid; obvious pollutants (algal mats, surface scum, surface sheen); heavy odor; severe barriers to fish movement; severe disturbance from livestock or man. | i less than 1/3 of the active ; water color is muddy and little to no aquatic habitat; |
| Notes | |
| Waterbody Sketch Include north arrow, centerline, distance from centerline, photo locations, gurvey boundary, and unique IDs of associate | nd features. |
| N M Suizeo27 WWZGOO4FW Sivie | SUES (SO) |

swzg028



Waterbody swzg028 facing upstream



Waterbody swzg028 facing downstream

Swzg028



Waterbody swzg028 facing upline cross stream

Survey Description Waterbody ID: Project Name: Waterbody Name: Date: 5-13-15 Carpenters Run DTI Supplu Shoz6027 Sucher Crew Member Initials: Photo ID(s): State: County: Company: WV letze DUEST JD JC, Milepost Entry: Associated Wetland ID(s): Tract Number(s): Milepost Exit: WWZGOO4fW 33-009 · A001 26.3 26.3Survey Type: Re-Route (check one) Centerline Other: Access Road Physical Attributes Stream Classification: (check one) Perennial Ephemeral Intermittent M Waterbody Type: Pond River Ditch Connecting swale * Other: Lake OHWM OHWM Indicator: (check all that apply) Clear line Shelving Wrested Scouring Water Width: vegetation on bank staining Bent, matted, or missing vegetation Wrack Litter and Soil characteristic Height: X Abrupt plant line debris community change change Width of Waterbody - Top of Bank to Width of Waterbody - Water Edge to Depth of Water at Centerline: Top of Bank at Centerline: Water Edge at Centerline: (Approx.) Д ft ft Δ ft Sinuosity: Water velocity: Bank height Bank slope (check one) (Approx.) **Right: Right:** Straight 60 degrees Meandering Left: Left degrees **Qualitative Attributes** Water Appearance: (check one) I Clear Turbid No water Sheen Surface Other: Algal on surface scum mats Sand C Gravel Substrate: Bedrock Other: Silt/clay Organic check all that apply) % of Substrate: % % Width of Riparian Zone: Vegetative Layers: (check all that apply) X Trees: Shrubs: Herbs $lOO_{\mathfrak{ft}}$ Avg. DBH of Dominants: 1 D in. in. (approx.) Dominant Bank Vegetation: ROBA gues grand "teer (mine Arbinus utrania Arex Aquatic Habitats (ex: subr rged or emerged aquatic vecetation a hanke/mote packs, large submerged wood, riffles, deep pools) n Dron Aquatic Organisms Observed list inverte Sma Invasive and/or T&E Species Observed: (list) 084 aN Tributary is: (check one) Natural Artificial, man-made Manipulated Disturbances: (check all that apply) Livestock Manure in Waste discharge Other: access waterbody pipes Stream Qualityb: check one) High Moderate Low

Waterbody Data Sheet

Waterbody ID: SWZGONT * Connecting swales are water features that do not meet the definition of a waterbody (not an ephemeral waterbody) in that there is not a defined bed, bank, and ordinary high water mark, however, it is a water conveyance feature that is characterized by flow volume, frequency, and duration to make it more than just an erosional feature and connects two potential waters of the U.S. and thereby may be subject to Section 404 permitting. ^b High Quality: Natural channel, natural vegetation extends at least one or two active channel widths on each side; banks stable and protected by roots; water color is clear to tea-colored; no barriers to fish movement; many fish cover types available; diverse and stable aquatic habitat; no disturbance by livestock or man. Moderate Quality: Altered channel evidenced by rip-rap; natural vegetation extends 1/3-1/2 of the active channel width on each side; filtering function or riparian vegetation only moderately compromised; banks moderately unstable, water color is cloudy, submerged objects covered with greenish film; moderate odor; minor barriers to fish movement; fair aquatic habitat; minimum disturbance by livestock or man. Low Quality: Channel is actively down cutting or widening; rip rap and channelization excessive; natural vegetation less than 1/3 of the active channel width on each side; lack of regeneration; filtering function severely compromised; banks unstable (eroding); water color is muddy and turbid; obvious pollutants (algal mats, surface scum, surface sheen); heavy odor; severe barriers to fish movement; little to no aquatic habitat; severe disturbance from livestock or man. Notes Waterbody Sketch Include north arrow, centerline, distance from centerline, photo locations, survey boundary, and unique IDs of associated features. 5W2602 FLOW 1600 RA CO.

Form Rev. 2/21/2014

swzg027



Waterbody swzg027 facing upstream



Waterbody swzg027 facing downstream

Swzg027



Waterbody swzg027 facing upline cross stream

Waterbody Data Sheet

| Description | | | | | | | | | | | |
|---|-----------------------|------------------------|-------------------|--------------------|--------------|--------------------|-----------------------|-------------------------|--------------|---------------------------------|---------------|
| Project Name: | | | | | | Date: | | | Waterbo | ody Survey ID: | |
| Supply Header Project | | | | | | 06/02/2016 | i | | swza002 | | |
| State: County/Parish: | | | | | | USGS Wat | erbody Name |): | • | | |
| WV Wetzel | | | | | | Ash Camp | Run | | | | |
| Company: | | Crew M | ember Ini | tials: | | Latitude: | | | Longitue | de: | |
| Dominion Transmission, | Inc. | KTC, L | CE | | | | | | | | |
| Survey Type: | Center | ine | 🗆 Re-Ro | oute | | Access Road | I □Facility | □Other | 1 | | |
| Waterbody Type: | River | | Stream | n | | Ditch | Swale | 🗆 Cana | | □ Other | |
| Water Appearance: | No Wa | ter | Clear | | | Turbid | □ Sheen or Surface | n 🗆 Surfac | e Scum | □Algal Mats | □Other |
| Feature Quality ^a : | High | | Moder | ate | | Low | | | | | |
| Feature Description: | Natural | | □ Artifici | al, man-mad | e 🗆 | Manipulated | | | | | |
| Flow Regime: | Ephem | eral | | nittent | \checkmark | Perennial | Connec Swale | cting | | | |
| Sinuosity within Survey Corridor: (check one) | Straigh | nt | Meano | dering | | | | | | | |
| Description Notes: | | | | | | | | | | | |
| | | | | | | | | | | | |
| Measurements | | | | | | | | | | | |
| Depth of Water: _0.2_ f | t. | N/A 🗆 | Unknov | wn 🗆 🛛 Wate | er Edge | e to Water E | dge: 7_ft | . N/A□ | онwм | Width: 9 | ft. |
| | CI | ear line | on bank | Shelving | 9 | □Wrested | vegetation | Scouring | <u> </u> | □Water | staining |
| | ⊡ Be miss | ent, matte ing vege | ed, or etation | □Wrack li | ne | ✓Litter and | debris | □ Abrupt plar change | it commu | nity I Soil cl change | haracteristic |
| Dominant Substrate: (check all that apply) | □ Be | edrock | 🗹 Bo | oulder 🔽 | Cobb | ole 🗹 | Gravel | Sand | □ Silt | / clay □ | Organic |
| Observations | | | | | | | | | | | |
| Riparian Zone Present: (check one) | ∎ Ye | es | | No | | | | | | | |
| Vegetation Layers: (check all that apply) | ☑ Tr | ees | | Saplings/Shr | ubs | 🗹 Herb | S | | | | |
| Dominant Bank Vegetat | ion (list | :): | | | | | | | | | |
| grass, forbs, ferns, moss | ; spiceb | ush, hop | o-hornbear | m, hornbeam | i, black | k walnut; bas | swood, hemlo | ock, box elder, s | sycamore | , elm | |
| Aquatic Habitats (ex: subr riffles, overhanging bank | merged or s/roots. | emerged a | quatic vegeta | ition, overhanging | g banks/r | roots, leaf packs, | large submerged | wood, riffles, deep p | ools, etc.): | | |
| Aquatic Organisms Obs | served | (list): | -,, - | | | | | | | | |
| fish, insects | | 100) | | | | | | | | | |
| Disturbances (ex: livesto | ck acces | s, manure | in waterbo | dy, waste disc | harge p | ipes): | | | | | |
| Adjacent two-track. | | | | | | | | | | | |
| Observation Notes: | | | | | | | | | | | |
| Riparian area with divers | e flora a | and faun | a. | | | | | | | | |
| | | | | | | | | | | | |

swaa002



Waterbody swza002 facing upstream



Waterbody swza002 facing downstream

swza002



Waterbody swza002 cross stream

Waterbody Data Sheet

| Description | | | | | | | | | | | |
|---|--------------|-----------|-------------------|-------------------|--------------------|-----------|-----------------------|-------------------------|--------------|-----------------------|------------|
| Project Name: | | | | | Date: | | | | Waterbody S | Survey ID: | |
| Supply Header Project | | | | | 06/02/ | 2016 | | | swza001 | | |
| State: | | County | /Parish: | | USGS | Water | body Name | : | | | |
| WV | | Wetzel | | | Unnar | ned trit | outary | | | | |
| Company: | | Crew M | ember Initia | als: | Latitud | de: | | | Longitude: | | |
| Dominion Transmission, | Inc. | KTC, L | CE | | | | | | | | |
| Survey Type: | Centerl | ine | □ Re-Rout | e | | Road | □Facility | Other | | | |
| Waterbody Type: | River | | Stream | | □ Ditch | | Swale | 🗆 Cana | | Other | |
| Water Appearance: | No Wa | ter | Clear | | □Turbid | | □ Sheen or Surface | n ⊡Surfac | ce Scum □A | Algal Mats | □Other |
| Feature Quality ^a : | High | | Moderat | е | □ Low | | | | | | |
| Feature Description: | Natural | | □ Artificial, | , man-made | 🗆 Manipu | lated | | | | | |
| Flow Regime: | Ephem | eral | □ Intermitt | tent | Perenn | ial | Connec Swale | ting | | | |
| Sinuosity within Survey Corridor: | Straigh | it | Meande | ring | | | | | | | |
| Description Notes: | | | | | | | | | | | |
| | ows into | , bereini | | w2a002. | | | | | | | |
| Measurements | | | | | | | | | | | |
| Depth of Water: f | t. | N/A ☑ | Unknowr | n⊡ Water E | Edge to Wat | ter Edo | ge: ft. | N/A ∑ | OHWM Widtl | h: <u>1</u> ft. | |
| OHWM Indicator: (check all that apply) | | ear line | on bank | Shelving | □Wre | sted ve | getation | □Scouring | 1 | □Water sta | aining |
| | □Be missi | nt, matte | ed, or etation | □Wrack line | ✓Litte | r and d | lebris | □ Abrupt plar change | nt community | I Soil char change | acteristic |
| Dominant Substrate: (check all that apply) | □ Be | edrock | Boul | der 🗹 C | Cobble | I G | ravel | □ Sand | Silt/ clay | / ₫0 | rganic |
| Observations | | | | | | | | | | | |
| Riparian Zone Present: (check one) | □ Ye | es | 🗹 No | C | | | | | | | |
| Vegetation Layers: (check all that apply) | ∎ Tr | ees | 🗹 Sa | aplings/Shrub | s 🗹 | Herbs | | | | | |
| Dominant Bank Vegetat | ion (list |): | | | | | | | | | |
| grass, forbs, ferns, moss | ; spiceb | ush, bee | ech; maple, o | oak, beech | | | | | | | |
| Aquatic Habitats (ex: subr n/a | merged or | emerged a | iquatic vegetatio | n, overhanging ba | anks/roots, leaf p | packs, la | rge submerged v | wood, riffles, deep p | ools, etc.): | | |
| Aquatic Organisms Obs | erved (| (list): | | | | | | | | | |
| n/a | · | | | | | | | | | | |
| Disturbances (ex: livestoo | ck acces | s, manure | e in waterbody | , waste dischar | ge pipes): | | | | | | |
| n/a | | | | | | | | | | | |
| Observation Notes: | | | | | | | | | | | |
| steep slope; flow appears | s rare | | | | | | | | | | |

swza001



Waterbody swza001 facing upstream



Waterbody swza001 facing downstream

swza001



Waterbody swza001 cross stream
Waterbody Data Sheet

| Description | | | | | | | | | | | |
|---|---------------------------|--------------|----------------------------------|--------------------------------------|-----------------|-------------|-------------------------|-------------------------|--------------|-----------------|---------------|
| Project Name: | | | | | Date: | | | | Waterbo | dy Survey ID: | |
| Supply Header Project | | | | | 06/02 | 2/2016 | | | swza003 | | |
| State: | | County/P | 'arish: | | USGS | S Wate | rbody Name | : | | | |
| WV | | Wetzel | | | unna | med tril | outary | | | | |
| Company: | | Crew Me | mber Initia | ls: | Latitu | ıde: | | | Longitud | le: | |
| Dominion Transmission | i, Inc. | KTC, LCE | E | | | | | | | | |
| Survey Type: | Center | line [| ☐ Re-Route | e | Access | Road | □Facility | □Other | • | | |
| Waterbody Type: | River | | ✓ Stream | | Ditch | | □ Swale | 🗆 Cana | I | □ Other | |
| Water Appearance: [(check one) | 🗆 No Wa | ter | Clear | | | | □Sheen or Surface | n ⊡Surfac | ce Scum | □Algal Mats | □Other |
| Feature Quality ^a : (check one) | 🛛 High | [| ☐ Moderate | 9 | □ Low | | | | | | |
| Feature Description: | Natura | [| ☐ Artificial, | man-made | 🗆 Manipi | ulated | | | | | |
| Flow Regime: [(check one) | Epher | ieral | ✓ Intermitte | ent | Peren | nial | Connec Swale | ting | | | |
| Sinuosity within Survey Corridor: | Z Straigh | nt [| ☐ Meander | ring | | | | | | | |
| Description Notes: | | | | | | | | | | | |
| | | | | | | | | | | | |
| Measurements | | | | | | | | | | | |
| Depth of Water: 0.1 | ft. | N/A□ | Unknown | U Water E | Edge to Wa | ater Ed | ge: <u>2</u>ft . | N/A | OHWM W | Vidth: <u>3</u> | ft. |
| OHWM Indicator: | I C | lear line or | n bank [| Shelving | □Wre | ested v | egetation | □Scouring | | □Water | staining |
| | ⊠ Be miss | ent, matted | 1, or [ation | □Wrack line | e | er and o | debris | □ Abrupt plar change | nt commun | nity | naracteristic |
| Dominant Substrate: (check all that apply) | ∎ B | edrock | I Bould | der IÍC | Cobble | ₫ 0 | Gravel | Sand | □ Silt/ | clay 🗌 | Organic |
| Observations | | | | | | | | | | | |
| Riparian Zone Present (check one) | : 🗆 Y | es | □ No | , | | | | | | | |
| Vegetation Layers: (check all that apply) | ⊠ Ti | ees | 🗹 Sa | plings/Shrub | os 🗹 | Herbs | | | | | |
| Dominant Bank Vegeta | ation (lis | t): | | | | | | | | | |
| grass, forbs, ferns, mos | s; spicet | oush, mapl | ie; maple, h | emlock, syca | amore, elm | 1 | | | | | |
| Aquatic Habitats (ex: su riffles, overhanging ban | ibmerged or Iks/roots, | emerged aqu | atic vegetation s, bars, step | i, overhanging ba D -pools | anks/roots, lea | f packs, la | rge submerged v | wood, riffles, deep p | ools, etc.): | | |
| Aquatic Organisms Ol | oserved | (list): | | | | | | | | | |
| insects, salamander, cr | awfish | | | | | | | | | | |
| Disturbances (ex: livest | ock acces | s, manure ii | n waterbody, | waste dischar | rge pipes): | | | | | | |
| Observation Notes: | | | | | | | | | | | |
| Very nice intermittent s | tream wit | h cascadir | ng pools an | d seeping ro | ocky banks. | | | | | | |
| | | | | | | | | | | | |

swza003



Waterbody swza003 facing upstream



Waterbody swza003 facing downstream

swza003



Waterbody swza003 cross stream

| roject Name: Supply H state: Icounty: | Water | | | | |
|---|---|---|------------------------------|---------------------------------|-------------------------|
| Supply H | | oody Name: | | Waterbody ID: | Date: |
| JUPPIN P | $\log \Omega_{\rm e} = 1$ | INT TO BUF | PALD RUN | 51.97 12100 | 1 7-77-6 |
| nale. County. | temper v | Company | Crow Mo | mbar Initiale: Photo II | D/e): |
| | | Company. | | Noe miliais. Photo ii | 5(8). |
| WV WE | YZEL | DENEST | DD_{f} | FP | S/->. |
| ract Number(s): | | Milepost Entry: $\Lambda \vdash \Lambda$ | | Associated Wetland II | D(8): |
| 33-004 | | NA | NR | NONE | |
| Survey Type: check one) | Centerline | Re-Route | Access Road | Other: | |
| Physical Attribut | es | | | | |
| Stream Classification | Ephemeral | | Perennial | | |
| Waterbody Type: (check one) | Stream River | Ditch Pond | Lake Conn | ecting swale * | ther: |
| Width: 3 ft | OHWM Indicator: (check all that apply) | Clear line on bank | Shelving | Wrested | Scouring Water |
| Height: | Bent, matted missing vege | , or Wrack | Litter and debris | Abrupt plant community cha | Soil characteristic |
| Width of Waterbody | - Top of Bank to | Width of Waterbody - V | Vater Edge to | Depth of Water at C | enterline: |
| | nine. | | 16. | (rup) or y | 14" - |
| |)ft. | <u> </u> | ft. | Ba | |
| (check one) | aight (Approx.) | <1 | Right: 2 | fi. | Right: <u>70</u> degree |
| Me | andering | | Left: | <u>2 ft.</u> | Left: 60_degree |
| Qualitative Attrib | outes | | | | |
| Water Appearance: (check one) | No water 🔲 Clear [| Turbid X Shee | n Surface Irface scum | Algai Othe mats | ər: |
| Substrate: | Bedrock 🕅 Gravel | Sand | X Silt/clay |] Organic 🔲 Othe | ər: |
| % of Substrate: | 80 % 15, | 6% | 5% | % | % |
| Width of Riparian Zo | Avg. DBH of Dc | ers: Trees: ominants: | in. | Shrubs: | Herbs |
| Dominant Rank Vor | (epprox.) | ••• | | \$1 is | |
| (160) Rosa m | ultitorn, , | nærssbegu | m, # D | anens car | rola |
| Aquatic Habitats (ex: | submerged or emerged aquatic ve | getation, overhanging banks/roo | ts, leaf packs, large submer | ged wood, riffles, deep pools): | |
| Aquatic Organisms | Observed: | | | | |
| Invasive and/or T&E | Species Observed: | , Microste | gum Um | unea, A | alanthas al |
| Tributary is: (check one) | Natural | Artificial, man-mad | e 🔲 Manipulated | 1 | |
| Disturbances: | Livestock | Manure in | Waste discharge | X Other: | 2 0 |
| (спеская тагарру) | access | waterbody | pipes | | 10March |

-

Waterbody ID:

WZHM

^a Connecting swales are water features that do not meet the definition of a waterbody (not an ephemeral waterbody) in that there is not a defined bed, bank, and ordinary high water mark, however, it is a water conveyance feature that is characterized by flow volume, frequency, and duration to make it more than just an erosional feature and connects two potential waters of the U.S. and thereby may be subject to Section 404 permitting.

^b High Quality: Natural channel, natural vegetation extends at least one or two active channel widths on each side; banks stable and protected by roots; water color is clear to tea-colored; no barriers to fish movement; many fish cover types available; diverse and stable aquatic habitat; no disturbance by livestock or man.

Moderate Quality: Altered channel evidenced by rip-rap; natural vegetation extends 1/3-1/2 of the active channel width on each side; filtering function or riparian vegetation only moderately compromised; banks moderately unstable; water color is cloudy, submerged objects covered with greenish film; moderate odor; minor barriers to fish movement; fair aquatic habitat; minimum disturbance by livestock or man.

Low Quality: Channel is actively down cutting or widening; rip rap and channelization excessive; natural vegetation less than 1/3 of the active channel width on each side; lack of regeneration; filtering function severely compromised; banks unstable (eroding); water color is muddy and turbid; obvious pollutants (algal mats, surface scum, surface sheen); heavy odor; severe barriers to fish movement; little to no aquatic habitat; severe disturbance from livestock or man.

Notes

Waterbody Sketch

Include north arrow, centerline, distance from centerline, photo locations, survey boundary, and unique IDs of associated features.

| | Buffalo Run RD |
|---------|----------------|
| | |
| PT FLOW | |
| 5.0.240 | |
| | |

swzh001



Waterbody swzh001 facing upstream



Waterbody swzh001 facing downstream

Swzh001



Waterbody swzh001 facing upline cross stream

| aterbody Data Sheet | |
|---|---|
| Survey Description | |
| roject Name: // Waterbody Name: Exclassical Waterbody ID: Date: | |
| Supply Nender SOZOO Creek SW2H028 7. | -29-15 |
| itate: County: Company: Crew Member Initials: Photo ID(s): | |
| DOV CET CET BRUEST JD. DB | |
| 33-009-COO2 33-004 Winepost Entry: Winepost Extr. Associated Wetland ID(s). | |
| 53-009-001 29.4 29.4 29.4 | |
| check one) | |
| Physical Attributes | |
| Stream Classification: ^{check.one} Ephemeral Intermittent X Perennial | |
| Type: Naterbody Type: (check one) Stream River Ditch Pond Lake Connecting swale a Other: | |
| DHWM Indicator: (check ell that apply) XClear line Schelving Wrested Scouring | Water |
| width: | staining |
| Height: ft. Bent, matted, or Wrack Litter and Abrupt plant Soil of the Soil of | characteristic Ige |
| Width of Waterbody - Top of Bank to Width of Waterbody - Water Edge to Depth of Water at Centerline: | |
| $90_{\rm ft}$ | |
| Sinuosity: Water velocity: Bank height Bank slope | |
| Interce oney Straight (Approx.) Right: S ft. Right: | 30 _{degrees} |
| Meandering | 41 |
| | degrees |
| | Cardina an air ann an Stainn Stainn Stainn St |
| (check one) No water Clear Turbid Sheen Surface Algal Other: | |
| | |
| Substrate: X Bedrock X Gravel X Sand X Silt/clay Organic Other: | |
| % of Substrate: $10\% 60\% 5\% 15\% -\%$ | % |
| Width of Riparian Zone: Vegetative Layers: (check all that apply) | Herbs |
| ft. Avg. DBH of Dominants: | |
| Dominant Bank Vegetation: | fittera |
| (180) Acer regundo, Rolygonum cuspidatum, Elacognus um | belleta |
| Aquatic Handratis (ex: submerged or emerged aquatic vegetation, overhanging banks/roots, leaf packs, large submerged wood, riffles, deep pools): (781) Riffles, puols, overhanging beg + banks, submerge | cel |
| Aquatic Organism's Observed: (1151) Fish + invertebrates | · Ulm |
| (18) ROSA multiplors, Rohegonum anspidatum, Chacagnus um | leleta |
| Tributary is: (check one) Natural Artificial, man-made Manipulated | - N |
| Disturbances: (check all that apply) Livestock Manure in Waste discharge Other: Avagentic access waterbody pipes | + y pro |
| Stream Quality ^b : (check one) High Moderate Low | t |



SWZH028



Waterbody SWZH028 facing upstream



Waterbody *SWZH028* facing downstream

SWZH028



Waterbody SWZH028 facing upline cross stream

| terbody Data She | et | | وموماته ويوما المراجع | | | | |
|--|--|---|---------------------------------------|-----------------------------|--|---------------|---|
| urvey Description | ` | | | | | | |
| oject Name: | | Waterbody N | ame: | <u> </u> | Waterbody ID: | Da | te: |
| upply land | R | UNTT | O Fishi | ng Creek | SWZHE | 927 | 7-29-15 |
| ate: JCounty: UV Wetz | لم | Com | pany: DWEST | | $\mathcal{O}, \mathcal{PB}$ | o ID(s): | |
| act Number(s): 33 3-009-0001 33 | -009 A01 | S Mile | post Entry: | Milepost Exit: | Associated Wetlan | d ID(s): | de an |
| Irvey Type: eckone) | | e 📈 Re-F | Route | Access Road | Other: | **** | an a |
| hysical Attributes | ************************************** | anna an | ۲ | | 2010-000 | | |
| ream Classification: | Ephemer | al 🚺 Inter | mittent | Perennial | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | |
| aterbody Type: werk one) X Stre | am 门 Riv | er Ditch | Pond | Lake Con | necting swale * |] Other: | |
| Width: | OHWM In (check all th | ndicator: et apply) | Clear line on bank | Shelving | Wrested vegetation | Scouring | Water staining |
| Height:ft. | | nt, matted, or sing vegetation | Wrack line | Litter and debris | Abrupt plan community | t Change | Soil characteristic change |
| idth of Waterbody - To op of Bank at Centerlin X | p of Bank to e: ft. | Width o Water I | of Waterbody - W Edge at Centerlin | /ater Edge to ne: ft. | Depth of Water a (Approx.) | t Centerline: | ar frei fan skynster fan skriften |
| nuosity: | IV IV | Vater velocity: | | Bank height | | Bank slope | ····· |
| heck one) | nt o | Approx.) | 1 | Right: | <u>3</u> fi. | Right | 40 degree |
| X Meand | lering | \leq | fps | Left: | <u>3</u> tt. | Left | |
| Qualitative Attribute | 25 | | | | | | |
| Vater Appearance: iheck one) | water | Clear 🚺 Tu | bid Shee on su | n Surface | e Algal C | Other: | |
| ubstrate: Be | drock | Gravel | Sand | Silt/clay | Organic 🔲 🤇 | Other: | |
| of Substrate: | % | 70 % | 10_% | 20_% | | | % |
| Vidth of Riparian Zone: | Vegeta (check a) Avg. D | ntive Layers: / that apply) BH of Dominan | Trees: | ín | Shrubs: | in | Herbs |
| Dominant Bank Vegetat | (approx.) | Clate. | Fringes Se | rotina. | Jma- k. | - "" | 4515 |
| Aquatic Habitats (ex: subi | merged or emerge | ed aquatic vegetation, | overhanging banks/roo | ts, leaf packs, large subm | erged wood, riffles, deep poo | | |
| Aquatic Organisms Obs | served: | | | | | | |
| nvasive and/or T&E Sp | ecies Obser | ved: | Rusan | Alla | Miscasta | m crim | ince |
| Tributary is: Crieck one) | Natural | A | rtificial, man-mad | ie Manipulat | ed | | |
| Disturbances: chook all that apply) | Livestor access | | lanure in vaterbody | Waste discharg | ie 🕅 Other: | Action | mber vie |
| Stream Quality ^b : (check one) | High | | Aoderate | Low | | | |

| | Waterbody ID: SIJZH027 |
|--|--|
| Connecting swales are water features that do not meet the definition of a waterbody (not an ephemeral waterbody) in that and ordinary high water mark, however, it is a water conveyance feature that is characterized by flow volume, frequency, and an erosional feature and connects two potential waters of the U.S. and thereby may be subject to Section 404 permitting. | t there is not a defined bed, bank, duration to make it more than just |
| ^b High Quality: Natural channel, natural vegetation extends at least one or two active channel widths on each side; to roots; water color is clear to tea-colored; no barriers to fish movement; many fish cover types available; diverse and disturbance by livestock or man. | anks stable and protected by stable aquatic habitat; no |
| Moderate Quality: Altered channel evidenced by rip-rap; natural vegetation extends 1/3-1/2 of the active channel v function or riparian vegetation only moderately compromised; banks moderately unstable; water color is cloudy, su greenish film; moderate odor; minor barriers to fish movement; fair aquatic habitat; minimum disturbance by livestor | vidth on each side; filtering omerged objects covered with ck or man. |
| Low Quality: Channel is actively down cutting or widening; rip rap and channelization excessive; natural vegetation channel width on each side; lack of regeneration; filtering function severely compromised; banks unstable (eroding) turbid; obvious pollutants (algal mats, surface scum, surface sheen); heavy odor; severe barriers to fish movement; severe disturbance from livestock or man. | n less than 1/3 of the active ; water color is muddy and ; little to no aquatic habitat; |
| Notes | |
| | |
| | |
| | |
| Waterbody Sketch Include north arrow, centerline, distance from centerline, photo locations, survey boundary, and unique IDs of associate | od features. |
| ř) \ | |
| Hury 20 | |
| E E E | |
| S SFLOW | Fishing Creek |

SWZH027



Waterbody *SWZH027* facing downstream

SWZH027



Waterbody SWZH027 facing upline cross stream

| <u>iterbody Data S</u> | heet | | | | ***** | | | | |
|---|--------------------------|--|---|---------------------|--|---|--|---------------------------------|---|
| urvey Description |) . | | | | | | | | |
| roject Name: | | Waterbo | dy Name: | | ······································ | Waterbody ID: | 14 | Date: | ~ 1 T. ~ |
| DTI Supply | Hender | UN | 17 70 500 FI | & v 5 H i I | -ORK VG CREEK | SWZC | 600 | A S | 5/1/15 |
| tate: County: | 1 | | Company: | | Crew Me | mber Initials: | Photo ID(s): | | |
| NY Wet | zel | | DOWES | 7 | [JD] | JG | | | |
| ract Number(s): | 19 | | Milepost Entry: | Mile | epost Exit: | Associated W | etland ID(s): | | |
| 33-009-AC | 58 | | 28.9 | 2 | _ 8.9 | NOM | JE | | |
| urvey Type: heck one) | Centerlir | ne 🔀 | Re-Route | C Ac | cess Road | Other: | | | |
| hysical Attribute | 15 | and an | αταδήται που από του τη τη ματά τη της τη | | an a | | | | |
| tream Classification: | Epheme | val 💭 | Intermittent | P P | erennial | | | | |
| Vaterbody Type: | Stream | iver | Ditch Pond | [] | Lake | necting swale * | X Other: | HANNE | CIZED |
| Width: 3 | OHWM (check all t | Indicator; hat apply) | X Clear on ba | r line ank | Shelving | Wreste | d Sc tion | ouring | Water staining |
| Height: 6 " | L Be | ent, matted, o ssing vegeta | r 🕅 Wrad line | ok | Litter and debris | Abrupt | plant Inity change | Soil chang | aracteristic e |
| Nidth of Waterbody - Top of Bank at Center | Top of Bank to rline: | o Wi Wa | dth of Waterbody iter Edge at Cent | y - Wate erline: | er Edge to | Depth of Wa (Approx.) | iter at Centerli | ne: | ۵. ایس این از این |
| 5 | ft. | | < | 2 11. | | | 7 | ft. | |
| Sinuosity: | | Water veloc | ity: | | Bank height | | Bank slo | pe | ***** |
| check one) | aight | (Approx.) | / } | | Right: | (ft. | f | Right: 3 | <u>∂</u> degrees |
| Mei | andering | | fps | | Left: |) « | | Left: 30 |) degrees |
| Qualitative Attrib | utes | | | | | | | | |
| Water Appearance: (check one) | No water | Clear | Turbid S | Sheen on surfac | Surface | Algai mats | Other: | | |
| Substrate: | Bedrock 🕅 | Gravel | Sand | الX | Silt/clay | Organic | Other: | | ***** |
| % of Substrate: | % | 20 % | % | (| <u>30 %</u> | % | | | <u>.</u> % |
| Width of Riparian Zo | ne: Vege | tative Layers | | s. | | Shruhs. | | ľ | Herbs |
| <u> </u> | Avg. | DBH of Dom | inants: | | in. | <u></u> | in. | L4 | ineard |
| Dominant Bank Vege | etation: | n Elar | caques l | mbe | alta, D | nactules g | bmerat | - A | |
| Aquatic Habitats (ex: | submerged or emer | ged aquatic vege | tation, overhanging ban | ks/roots, le | eaf packs, large subme | erged wood, riffles, de | ep pools): | | |
| Aquatic Ornanisms (| Observed | 1 | | | | | | | |
| (1151) Small W | workbr | ates | | | | | | | |
| Invasive and/or T&E | Species Obse | nved: | laeagnus | um | sellata | 999) 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1 | 1) ann a-cluin e 1999 anns a dharail an Shine a shara a sh | | Annones France & San Anna Stevenson and a second systematic |
| Tributary is: (cheak one) | [] Natura | al [| Artificial, man- | -made | | ed | | | |
| Disturbances: (check all that apply) | Livest | ock (| Manure in waterbody | |]Waste discharg | e 🕅 C | other: Chan | nneliz | el/ner |
| Stream Quality ^b : (check one) | High | ***** | Moderate | Z | Low | | | in and the second second second | |

^a Connecting swales are water features that do not meet the definition of a waterbody (not an ephemeral waterbody) in that there is not a defined bed, bank, and ordinary high water mark, however, it is a water conveyance feature that is characterized by flow volume, frequency, and duration to make it more than just an erosional feature and connects two potential waters of the U.S. and thereby may be subject to Section 404 permitting.

Waterbody ID:

SWZG 0014

^b High Quality: Natural channel, natural vegetation extends at least one or two active channel widths on each side; banks stable and protected by roots; water color is clear to tea-colored; no barriers to fish movement; many fish cover types available; diverse and stable aquatic habitat; no disturbance by livestock or man.

Moderate Quality: Altered channel evidenced by rip-rap; natural vegetation extends 1/3-1/2 of the active channel width on each side; filtering function or riparian vegetation only moderately compromised; banks moderately unstable; water color is cloudy, submerged objects covered with greenish film; moderate odor; minor barriers to fish movement; fair aquatic habitat; minimum disturbance by livestock or man.

Low Quality: Channel is actively down cutting or widening; rip rap and channelization excessive; natural vegetation less than 1/3 of the active channel width on each side; lack of regeneration; filtering function severely compromised; banks unstable (eroding); water color is muddy and turbid; obvious pollutants (algal mats, surface scum, surface sheen); heavy odor; severe barriers to fish movement; little to no aquatic habitat; severe disturbance from livestock or man.

Notes

Waterbody Sketch

Include north arrow, conterline, distance from conterline, photo locations, survey boundary, and unique IDs of associated features.



swzg014



Waterbody swzg014 facing upstream



Waterbody swzg014 facing downstream

Swzg014



Waterbody swzg014 facing upline cross stream

| aterbody Data Sh | leet | | | | |
|---|--|---|--|---|---|
| urvey Description | | | | | |
| roject Name: | Wat | erbody Name: | | Waterbody ID: | Date: |
| DTI Supply 1 | Hender U | NTTO SOUTH A FISHIN | FORK NG CREEK | SWZGOIG | 19-1-15 |
| tate: County: | 201 | Company: | Crew Me | ember Initials: Photo ID(s) | : |
| ract Number(s): | | Milepost Entry: | Milepost Exit: | Associated Wetland ID(s) | |
| 33-009-BC 33-009-BC | 012 | 29.1 | 29.1 | NONE | |
| Survey Type: Sheck one) | Centerline | Re-Route | Access Road | Other: | *************************************** |
| Physical Attributes | 8 M A 1999 A 2019 A | 9-9-7 - 1-1-1-7 - 1-1-1-1-1-1-1-1-1-1-1-1-1 | 44 MILLION - MILLION - MILLION - DAMA MARKAN - MILLION - 98 (C | | |
| Stream Classification: check one) | Ephemeral | | Perennial | | |
| Naterbody Type: check one) | ream 门 River | Ditch Pond | Lake Con | necting swale ^a | |
| OHWM Width: ∠(ft. | OHWM Indicato (check all that apply) | or: Clear lin on bank | e Shelving | Wrested vegetation | Scouring Water staining |
| Height:ft. | Bent, matt missing ve | ed, or X Wrack getation line | Litter and debris | Abrupt plant community change | Soil characteristic change |
| Width of Waterbody - T Top of Bank at Centerli | op of Bank to ne: | Width of Waterbody - V Water Edge at Centerl | Nater Edge to ine: | Depth of Water at Cente (Approx.) | erline: |
| 6 | _ ft. | | ft. | | ft. |
| Sinuosity: | Water v | elocity: | Bank height | Bank s | lope |
| Check one) | ght | 2 6 | Right: | <u>3ft.</u> | Right: 40 degrees |
| K Mear | ndering | fps | Left: | <u>3</u> ft. | Left: <u>70</u> degrees |
| Qualitative Attribu | tes | an fan gener fan skrief | | an an an ann an Annaichte ann an Annaichte an an Annaichte an Annaichte ann Annaichte ann an Annaichte an Annai | |
| Water Appearance: (check one) | o water 🔀 Clear | Turbid Shew | en Surface urface scum | e Algal Other: mats | |
| Substrate: B | edrock | Sand | Silt/clay | Organic Other: | |
| % of Substrate: | <u>10 % 80</u> | % <u>5</u> % | <u> </u> | % | % |
| Width of Riparian Zone 726 | e: Vegetative La (check all that app | yyers: y) Trees: | | K Shrubs: | Herbs |
| π. | AVG, DBM of (approx.) | Dominants: | in. | in. | |
| Dominant Bank Vegeta | ation: i cen bellat | k, Vibla sp | | ······································ | |
| Aquatic Habitats (ex: su | bmerged or emerged aquatic $\mathcal{OOO}(5)$ | vegetation, overhanging banks/ro | ots, leaf packs, large subme | rged wood, rifiles, deep pools): | |
| Aquatic Organisms Ok (^{//st)} NDWE | oserved: | | | | |
| Invasive and/or T&E S | pecies Observed: s cembella | fa | | | ******** |
| Tributary is: (check one) | Natural | Artificial, man-ma | de 🕅 Manipulate | | |
| Disturbances: (check all thet apply) | Livestock access | Manure in waterbody | Waste discharg | e 🛛 Other: Ne | arby rond |
| Stream Quality ^b : (check one) | High | Moderate | Low | | |



^a Connecting swales are water features that do not meet the definition of a waterbody (not an ephemeral waterbody) in that there is not a defined bed, bank, and ordinary high water mark, however, it is a water conveyance feature that is characterized by flow volume, frequency, and duration to make it more than just an erosional feature and connects two potential waters of the U.S. and thereby may be subject to Section 404 permitting.

^b High Quality: Natural channel, natural vegetation extends at least one or two active channel widths on each side; banks stable and protected by roots; water color is clear to tea-colored; no barriers to fish movement; many fish cover types available; diverse and stable aquatic habitat; no disturbance by livestock or man.

Moderate Quality: Altered channel evidenced by rip-rap; natural vegetation extends 1/3-1/2 of the active channel width on each side; filtering function or riparian vegetation only moderately compromised; banks moderately unstable; water color is cloudy, submerged objects covered with greenish film; moderate odor; minor barriers to fish movement; fair aquatic habitat; minimum disturbance by livestock or man.

Low Quality: Channel is actively down cutting or widening; rip rap and channelization excessive; natural vegetation less than 1/3 of the active channel width on each side; lack of regeneration; filtering function severely compromised; banks unstable (eroding); water color is muddy and turbid; obvious pollutants (algal mats, surface scum, surface sheen); heavy odor; severe barriers to fish movement; little to no aquatic habitat; severe disturbance from livestock or man.

Notes

Waterbody Sketch

Include north arrow, centerline, distance from centerline, photo locations, survey boundary, and unique IDs of associated features.



Form Rev. 2/21/2014

swzg016



Waterbody swzg016 facing upstream



Waterbody swzg016 facing downstream

Swzg016



Waterbody swzg016 facing upline cross stream

| terbody Data St | <u>ieet</u> | | | | | | |
|--|--|------------------------------|---|---|--|--|----------------------------|
| urvey Description | | | | | | | |
| oject Name: | V | Vaterbody Name: | TALL IZ | πĸ | Waterbody ID: | al | ate: |
| DM Suppla | n bus love | FI | SHING | RES R | JWZG | 55 | 5-1-15 |
| tate: County: - | Justician | Company: | | Crew Me | mber Initials: Pho | to ID(s): | |
| wv Wet | 201 | DOWE | ST- | JD. | TG | | |
| ract Number(s): | | Milepost Enti | ry: Milep | ost Exit: | Associated Wetlar | nd ID(s): | |
| 33-009-B 33-009-B | 018 | 29.1 | 29 | 7. 1 | NONE | | 19 1 1 1 1 1 1 1 |
| urvey Type: heck one) | | Ke-Route | | ss Road | Other: | | |
| hysical Attributes | ****** ******************************* | | | | | | |
| tream Classification: heck one) | Ephemeral | Intermittent | Pere | nnial | | | |
| Vaterbody Type: | tream | Ditch Ditch | ond La | ike | ecting swale * | Other: CH | HIWELCZ & |
| Width: 3 ft | OHWNI Indic (check all that ap | ator: p(y) | Clear line on bank | Shelving | Wrested vegetation | Scourir Scouri | ng Water staining |
| Height: | Bent, n missing | natted, or | Wrack ine | Litter and debris | Abrupt plar community | t change | Soil characteristic change |
| Nidth of Waterbody - 1 | op of Bank to | Width of Waterk | ody - Water | Edge to | Depth of Water | at Centerline: | |
| op of bank at center | 6 6 | water coye at t | | | (())) | 3″ _{ft} | |
| Sinuosity: | Wate | er velocity: | | ink height | | Bank slope | |
| check one) X Strai | ght (Appro | ox.) | | Right: | # | Righ | t: 20 degrees |
| [] Mea | ndering | < fps | | i.eft: | (₁₁ | Le | ft: <u>30</u> degrees |
| Qualitative Attribu | ites | | | | , 444-1949 - 294 | 4 | |
| Water Appearance: (check one) | vo water | ar Turbid | Sheen | Surface | Algal | Other: | ********** |
| | | | on surface | scum | mats | ، | |
| Substrate: | Bedrock | avel Sand | ⊠s | lt/clay | Organic | Other: | |
| % of Substrate: | <u>% 1(</u> | <u>)</u> % | <u>%</u> <u>9</u> | 0_% | % | | % |
| Width of Riparian Zon | e: Vegetativ | e Layers: | Trees: | nad Palapana Markol (Jak Mg. Langon Panas, Markova na | Shrubs: | , 99, 39, 39, 39, 39, 39, 39, 39, 39, 39 | Herbs |
| <u> </u> | Avg. DBH | of Dominants: | | _ in. | <u>.</u> | in. | Kannad |
| Dominant Bank Vegel (1/51) Rosa v | tation: frflor | A, Elacag | press c | unbell | ata, 7 Da | chylisgh | mercha |
| Aquatic Habitats (ex: s | ubmerged or emerged ac | uatic vegetation, overhangin | g banks/roots, leaf | packs, large subme | rged wood, riffles, deep po | ols): | |
| Aquatic Organisms O | bservad: | | ₩ 48 ₩ 49 ₩ 477 ₩ 49 € 10 € 10 € 10 € 10 € 10 € 10 € 10 € 1 | | | *** | |
| NONE | | | | | | | |
| Invasive and/or T&E \$ | species Observed | ; Elaoaque | s umb | ellata | 1 | | |
| Tributary is: (check one) | Natural | Artificial, r | nan-made | Manipulate | ·d | ***** | ******* |
| Disturbances: (check all that apply) | Livestock access | Manure in waterbody | ۷ [] ۷ ۹ | Vaste discharg | e 🕅 Other | " Next | to road. |
| Stream Quality ^b : (check one) | High | Moderate | 124 | .ow | | | |

Form Rev. 2/21/2014

Waterbody ID:

SINZGOIS * Connecting swales are water features that do not meet the definition of a waterbody (not an ophemeral waterbody) in that there is not a defined bed, bank, and ordinary high water mark, however, it is a water conveyance feature that is characterized by flow volume, frequency, and duration to make it more than just an erosional feature and connects two potential waters of the U.S. and thereby may be subject to Section 404 permitting. ^b High Quality: Natural channel, natural vegetation extends at least one or two active channel widths on each side; banks stable and protected by roots; water color is clear to tea-colored; no barriers to fish movement; many fish cover types available; diverse and stable aquatic habitat; no disturbance by livestock or man. Moderate Quality: Altered channel evidenced by rip-rap; natural vegetation extends 1/3-1/2 of the active channel width on each side; filtering function or riparian vegetation only moderately compromised; banks moderately unstable; water color is cloudy, submerged objects covered with greenish film; moderate odor; minor barriers to fish movement; fair aquatic habitat; minimum disturbance by livestock or man. Low Quality: Channel is actively down cutting or widening; rip rap and channelization excessive; natural vegetation less than 1/3 of the active channel width on each side; lack of regeneration; filtering function severely compromised; banks unstable (eroding); water color is muddy and turbid; obvious pollutants (algal mats, surface scum, surface sheen); heavy odor; severe barriers to fish movement; little to no aquatic habitat; severe disturbance from livestock or man. Notes Waterbody Sketch Include north arrow, conterline, distance from centerline, photo locations, survey boundary, and unique IDs of associated features. 12936-06 and SIDDIMS

swzg015



Waterbody swzg015 facing upstream



Waterbody swzg015 facing downstream

Swzg015



Waterbody swzg015 facing upline cross stream

| urvey Description | ************************************** | ، ۳۰۵۳ پیلی کار در | a alan da ga dini kati mang ti ban si mang tina ka ying kati tana kana mang dini da si | ************************************** | антаритери (рокультание) (рокулитери) (рокулитери) (рокулитери) (рокулитери) (рокулитери) (рокулитери) (рокулит | |
|---|--|--|---|--|---|-----------------------|
| roject Name: | | Waterbody Name: | | Waterbody ID: | Date: | |
| DTT Supply H | encor | UNT TO SOUTH | HUK-CRSEV | 562601- | ז 5 | -1-15 |
| tate: County: | | Company: | Crew Me | mber Initials: Phot | o ID(s): | |
| NV Wetz | e | DISUEST | JD, | 56 | | |
| ract Number(s): | | Milepost Entry: | Milepost Exit: | Associated Wetlan | d ID(s): | |
| 33-009-B | 018 | 29.1 | 29.1 | NONE | ****** | |
| hackone) | | X Re-Route | Access Road | Other: | | |
| hysical Attributes | | ور من | | | | |
| fream Classification: | Ephemeral | Intermittent | Perennial | | | |
| sheck one) | am 💭 River | Ditch Pond | Lake Conn | ecting swale a |] Other: | |
| Width: 4 | OHWM Indi | cator: ()))//) Clear on bai | line Shelving | K Wrested vegetation | Scouring | Water staining |
| Height: _/ft. | Bent, r missin | natted, or Wraci g vegetation line | د الله Litter and debris | Abrupt plant | t Soil change cha | characteristic nge |
| Nidth of Waterbody - Top Top of Bank at Centerling | of Bank to | Width of Waterbody Water Edge at Conte | - Water Edge to | Depth of Water a | t Centerline: | |
| | ** | | 4 | | 1/4 ft. | |
| Sinuosity: | wat | er velocity: | Bank height | | Bank slope | |
| (check one) | t (Appi | rox.) | Right: - | 2. | Right: | 60 |
| KZ Maand | ouina | K fps | | π. | - | |
| | ering | anna a 11° - | L.en: | <u></u> n. | Len. (| degrees |
| Qualitative Attribute | :5 | | | | | |
| Water Appearance: (check one) | water XCl | ear [] Turbid [] SI | neen [Surface | Algal [] | Other: | |
| Substrate: | Irock 🛛 🖾 Gi | ravel Sand | Silt/clay | Organic | Other: | |
| % of Substrate: | Don 30 | <u>> % %</u> | /ð % | 0/ | | . % |
| Width of Riparian Zone: | Vegetativ | re Layers: | /0 | | | fromments |
| <u>750</u> m. | (check all the Avg. DBH | nt apply) [X] Trees | :: in, | Shrubs: | _ in. | Herbs |
| Dominant Bank Vegetati | on: DA, Aru | nues seratina, | Rosa mul | Uriflora, p | olystiche | macrostoik |
| Aquatic Habitats (ex: subn | nerged or emerged a | quatic vegetation, overhanging banks | s/roots, leaf packs, large subme | rged wood, rifiles, deep poo | /s): | |
| Aquatic Organisms Obs | arvad' | **** * ** * *************************** | | | | |
| | civau. | | | | | |
| Invasive and/or T&E Sn | ecies_Observed | 1: | an ("Mar magnetic and a state interpreter and a series sport rate and a state of the series of the series and | | موسود المراجع ا المراجع المراجع المراجع المراجع المراجع | 944 M |
| (1151) ROSA MU | ll. Flor | <u>کر</u> | | | | |
| Tributary is: (check one) | 区 Natural | Artificial, man-n | nade 🔲 Manipulate | d | | |
| check all that apply) | Livestock access | Manure in waterbody | Waste discharge pipes | e X Other: | NZARBY | ROAD |
| Stream Quality ^b : (check one) | 🔲 High | X Moderate | Low | 994 994 99 99 99 99 99 99 99 99 99 99 99 | ***** | |

Waterborly Data Sheet

| | | Waterbody ID: | |
|---|--|--|--|
| | | 5WZC | ,017 |
| ^a Connecting and ordinar an erosiona | g swales are water features that do not meet the definition of a waterbody (not an ophemer y high water mark, however, it is a water conveyance feature that is characterized by flow vol al feature and connects two potential waters of the U.S. and thereby may be subject to Section | al waterbody) in that there is not a d ime, frequency, and duration to mak n 404 permitting. | efined bed, bank, e it more than just |
| ^b High Qual roots; wate disturbanc | ity: Natural channel, natural vegetation extends at least one or two active channel wid er color is clear to tea-colored; no barriers to fish movement; many fish cover types ava e by livestock or man. | ths on each side; banks stable an ilable; diverse and stable aquatic | d protected by habitat; no |
| Moderate function or | Quality: Altered channel evidenced by rip-rap; natural vegetation extends 1/3-1/2 of the riparian vegetation only moderately compromised; banks moderately unstable; water | ne active channel width on each si color is cloudy, submerged object | de; filtering s covered with |
| greenish ti | im; moderate odor, minor barriers to fish movement; fair aquatic habitat; minimum dist | urbance by livestock or man. | of the active |
| channel wi turbid; obv severe dis | idth on each side; lack of regeneration; filtering function severely compromised; banks vious pollutants (algal mats, surface scum, surface sheen); heavy odor; severe barriers durbance from livestock or man. | to fish movement; little to no aqui | muddy and atic habitat; |
| otes | | | |
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| aterbody clude north (| r Sketch arrow, centerline, distance from centerline, photo locations, survey boundary, and uniq | ue IDs of associated features. | SOUTH FOR |
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| 804 Mining 700 1997 Mary 2000 | | | Form Rev. 2/21/2014 |
| | | | |

swzg017



Waterbody swzg017 facing upstream



Waterbody swzg017 facing downstream

Swzg017



Waterbody swzg017 facing upline cross stream

| aterbody Data S | Sheet | | | | | | | | |
|--|---------------------------------|-----------------------------------|------------------------|------------------|-------------------|---------------------------------|--------------------|---------------------|---|
| urvey Descriptio | F? . | | | | | | | | |
| roject Name: | | Waterbody | Name: | | | Waterbody ID: | | Date: | |
| DTI Supply | Jender | South | Fork Fi | shing(| red | SWZG | 810 | 5- | 1-15 |
| tate: County: WV We | fze(| Co | ompany: DDWEST | | | nber Initials: P JG | hoto ID(s): | | |
| ract Number(s): | 33-009-0 | -004 M | ilepost Entry: | Milepost | Exit: | Associated We | tland ID(s): | | **** |
| 23-009-BU17 33-009 B018 | | | 29.1 | 29. | 21 | | | | |
| urvey Type: heck one) | 🔀 Centerlin | e 🕅 R | e-Route | Access | Road | Other: | | | |
| hysical Attribute | 35 | **************** | | | | | | | |
| itream Classification | : 🙀 Epheme | ral 🗍 In | termittent D | J Perenni | al | | | | |
| Vaterbody Type: Sheck one) | Stream | ver Dito | ch | Lake | Conne | acting swale a | Other: | | |
| Width: 45 | OHWM I (check all II | ndicator: uat apply) | Clear li on ban | ne 🕅 | Shelving | Wrested | Sco Sn | uring |]Water staining |
| Height: ft. | | nt, matted, or ssing vegetatio | n Wrack | | Litter and debris | Abrupt p | lant ity change | Soil chai change | racteristic |
| Width of Waterbody - | Top of Bank to | Widt | h of Waterbody - | Water Edg | e to | Depth of Wat | er at Centerlin | ie: | |
| op of Bank at Cente | ft. | Wate | r Edge at Center ろ | fine: | | (Approx.) | 3 | _ ft. | |
| Sinuosity: | | Nater velocity | المن | Bank | height | | Bank slop | e | |
| check one) | aight | Approx.) | 17 | | Right: | ð ft. | R | lght: <u>37</u> |) degree |
| X Me | andering | / | 10 fps | | Left: | <u></u> ft. | | Left: <u>50</u> | <u>)</u> degree |
| Qualitative Attrib | utes | | | | | | | | |
| Water Appearance: (check one) | No water | Clear [] 1 | furbid She | een [surface | Surface | Algal Mats |] Other: | | |
| Substrate: | Bedrock | Gravel | Sand | Silt/cl | ay [| Organic | Other: | | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |
| % of Substrate: | 20 % | 50% | 5 % | 25 | % | | | | _% |
| Width of Riparian Zo | ne: Veget (check a | ative Layers: # that apply) | Trees: | | [| Shrubs: | | R | Herbs |
| <u>55</u> ft. | Avg. [(approx | DBH of Domin) | ants: | <u> </u> | Læ | anument Approximation | in. | Lebeneze | *ni |
| Dominant Bank Vege (1161) Acer neg | etation: undo, 1 | Dectul | occidente | efeis, | Polygo | num Ci | ispida | tan | Roz |
| Aquatic Habitats (ex (181) Pool, M | sybmerged or emerged er emerged | ed aquatic vegetati | on, overhanging banks/ | oots, leaf pack | s, large submerg | jed wood, rifiles, deep Luce | pools): | | |
| Aquatic Organisms | Opserved: Hish | | <u>,</u> | | | | | | HTT:::///////////////////////////////// |
| Invasive and/or T&E | Species Obser | ved: | | | | **** | | ····· | |
| Ross ML | elli Hora | , Poly | gonum c | uspi | Staties | m | | | |
| (check one) | Natural | Ē. | Artificial, man-ma | ade 🔲 | Manipulated | I | | | |
| LISTUIDANCES: (check all that apply) | | ck | Manure in waterbody | Wast | e discharge | Ctl Otl | ner: | | |
| Stream Quality ^b : (check one) | High | \triangleright | Moderate | Low | | | | | |

| | Waterbody ID: SW ZG さぼ |
|--|--|
| ^a Connecting swales are water features that do not meet the definition of a waterbody (not an ephemeral waterbody) in that and ordinary high water mark, however, it is a water conveyance feature that is characterized by flow volume, frequency, and an erosional feature and connects two potential waters of the U.S. and thereby may be subject to Section 404 permitting. | t there is not a defined bed, bank, duration to make it more than just |
| ^b High Quality: Natural channel, natural vegetation extends at least one or two active channel widths on each side; b roots; water color is clear to tea-colored; no barriers to fish movement; many fish cover types available; diverse and disturbance by livestock or man. | anks stable and protected by stable aquatic habitat; no |
| Moderate Quality: Altered channel evidenced by rip-rap; natural vegetation extends 1/3-1/2 of the active channel w function or riparian vegetation only moderately compromised; banks moderately unstable; water color is cloudy, sub greenish film; moderate odor; minor barriers to fish movement; fair aquatic habitat; minimum disturbance by livestoc | vidth on each side; filtering omerged objects covered with sk or man. |
| Low Quality: Channel is actively down cutting or widening; rip rap and channelization excessive; natural vegetatior channel width on each side; lack of regeneration; filtering function severely compromised; banks unstable (eroding); turbid; obvious pollutants (algal mats, surface scum, surface sheen); heavy odor; severe barriers to fish movement; severe disturbance from livestock or man. | n less than 1/3 of the active ; water color is muddy and little to no aquatic habitat; |
| Notes | |
| | |
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| | **** |
| Waterbody Sketch Include north arrow, centerline, distance from centerline, photo lecetions, survey boundary, and unique IDs of associate | od features, |
| T J | |



swzg018



Waterbody swzg018 facing upstream



Waterbody swzg018 facing downstream

Swzg018



Waterbody swzg018 facing upline cross stream

Waterbody Data Sheet

| Survey Description | | | · · · · |
|---|---|--|--|
| Project Name: V | Naterbody Name: | Waterbody ID | Date: |
| DTI Supply the for | Richwood Ru | n $ 5\omega^2$ | 6019 5-1-15 |
| State: County: | Company: | Crew Member Initials: | Photo ID(s): |
| WV Wetzel | DDWEST | JDJG | |
| Tract Number(s): | Milepost Entry: | Milepost Exit: Associated V | l Vetland ID(s): |
| | 30.2 | 30.2 NR | INC |
| Survey Type: (check one) | EX Re-Route | Access Road | |
| Physical Attributes | | | |
| Stream Classification: (check one) Ephemeral | Intermittent | Perennial | |
| Waterbody Type: (check one) | Ditch Pond | Lake Connecting swale a | Other: |
| OHWM Indic (check all that ap) | cator: (Clear lin on bank | e Shelving Wrest | ed Scouring Water |
| Height: | natted, or Wrack | Litter and Abrup debris | t plant Soil characteristic unity change change |
| Width of Waterbody - Top of Bank to | Width of Waterbody - \ | Nater Edge to Depth of W | ater at Centerline: |
| Top of Bank at Centerline: | Water Edge at Centerli | ne: (Approx.) | ~ |
| <u> </u> | | ft. | |
| Sinuosity: Wate (check one) (Appro | er velocity: _{ox.)} | Bank height | Bank slope |
| Straight | $\overline{}$ | tright. | degrees |
| Meandering | fps | Left: | Left: 45 degrees |
| Qualitative Attributes | | | |
| Water Appearance: (check one) No water Cle | ear []] Turbid []] Shee on si | en Surface Algal urface scum mats | Other: |
| Substrate: Bedrock SGra | avel Sand | Silt/clay Organic | Other: |
| % of Substrate: $(\bigcirc_{\%} 3)$ | <u>6</u> %% | 10%_% | % |
| Width of Riparian Zone: Vegetative | e Layers: | Shrube. | 1 Herbs |
| ft. Avg. DBH | of Dominants: | Leasers Children - | in. |
| Dominant Bank Vegetation: | nale, Operty | lis ghomerata. I | Pestula prálinse Brassila napus |
| Aquatic Habitats (ex: submerged or emerged aq | quatic vegetation, overhanging banks/ro | ots, leaf packs, large submerged wood, riffles, di | sep pools): |
| (1150) Riffle, pools | | | |
| Aquatic Organisms Observed: | | ٠ | |
| Small fish | | | |
| Invasive and/or T&E Species Observed | j | | |
| Tributary is: (check one) | Artificial, man-ma | de Manipulated | |
| Disturbances: (check all that apply) | Manure in waterbody | Waste discharge | Dther: |
| Stream Quality ^b : (check one) | Moderate | TLow | |
SWZGOLG * Connecting swales are water features that do not meet the definition of a waterbody (not an ephemeral waterbody) in that there is not a defined bed, bank, and ordinary high water mark, however, it is a water conveyance feature that is characterized by flow volume, frequency, and duration to make it more than just an erosional feature and connects two potential waters of the U.S. and thereby may be subject to Section 404 permitting.

Waterbody ID:

^b High Quality: Natural channel, natural vegetation extends at least one or two active channel widths on each side; banks stable and protected by roots; water color is clear to tea-colored; no barriers to fish movement; many fish cover types available; diverse and stable aquatic habitat; no disturbance by livestock or man.

Moderate Quality: Altered channel evidenced by rip-rap; natural vegetation extends 1/3-1/2 of the active channel width on each side; filtering function or riparian vegetation only moderately compromised; banks moderately unstable; water color is cloudy, submerged objects covered with greenish film; moderate odor; minor barriers to fish movement; fair aquatic habitat; minimum disturbance by livestock or man.

Low Quality: Channel is actively down cutting or widening; rip rap and channelization excessive; natural vegetation less than 1/3 of the active channel width on each side; lack of regeneration; filtering function severely compromised; banks unstable (eroding); water color is muddy and turbid; obvious pollutants (algal mats, surface scum, surface sheen); heavy odor; severe barriers to fish movement; little to no aquatic habitat; severe disturbance from livestock or man.

Notes

Waterbody Sketch

Include north arrow, conterline, distance from centerline, photo locations, survey boundary, and unique IDs of associated features.





Waterbody swzg019 facing upstream



Waterbody swzg019 facing downstream

Swzg019



Waterbody swzg019 facing upline cross stream

| aterbody Data S | heet | | | | | | | - <u></u> | |
|--|--------------------|----------------------------------|---|---|-----------------------|---|--|-------------------|-------------------|
| urvey Description | n . | | | | | | | | |
| roject Name: | | Waterbo | dy Name: | (11.22) | N PIN! | Waterbody ID: | | Date: | |
| DM Supply | benda | e UNA | TO RIC | HWCO | | 5602-66 | 220 | 5~ | 1 - 15 |
| tate: County: | | | Company: | ~ T | Crew I | Viember Initials: | Photo ID(s): | | |
| NV We- | tzel | | DDWE | 51 | 150 | 136 | | | |
| ract Number(s): | | | Milepost Entry: | Milep | ost Exit: | Associated W | etland ID(s): | | |
| | | | 30.2 | 13 |).2 | Nor | ~~ | | |
| urvey Type: heck one) | | ne 🕅 | Re-Route | | ss Road | Other: | | | |
| hysical Attribute | S | | | | | ************************************** | | | |
| Stream Classification: | Epheme | eral 🔲 | Intermittent | | nnial | ganning) tin pagnagan iki ti tining pinan nining tining tining tining tining tining tining tining tining tining | | | |
| Vaterbody Type: check one) | Stream | iver | Ditch Ditch | Le | ike CCo | nnecting swale * | Other: | | |
| Width: <u>3</u> ft. | OHWM (check all | Indicator: that apply) | Clea on b | ar line bank | Shelvin | g X Wreste vegeta | tion | ouring | Water staining |
| Height: / ft. | Be | ent, matted, o issing vegeta | r 🔲 Wra tion line | ick | Litter ar debris | nd Abrupt | plant unity change | Soil ch change | aracteristic |
| Width of Waterbody - | Top of Bank t | o Wi | dth of Waterbod | y - Water I | Edge to | Depth of Wa | ater at Centerli | ne: | |
| .5 | # | | nei zage at oon | 4 | | | | ft. | |
| Sinuosity: | | Water veloc | ity: | It. Ba | nk height | | Bank slo | pe | |
| check one) | aight | (Approx.) | | | Right: | 1/2 11 | F | Right: | 6 30 degrees |
| Me | andering | | ∠ ∫ fps | | Left: | 1/2- | | Left: | 6,30 |
| Qualitative Attrib | utes | <u>l</u> | | | | | | | uegiee |
| Water Appearance: (check one) | No water | Clear | Turbid | Sheen on surface | Surfa | ce Algal mats | Other: | | |
| Substrate: | Bedrock | Gravel | Sand | 🕅 si | lt/clay | Organic | Other: | | |
| % of Substrate: | <u>D</u> % | 70% | % | 2 | <u>_</u> % | % | | | % |
| Width of Riparian Zoi | ne: Vege (check | tative Layers all that apply) | : Tree | es: | | Shrubs: | | 5 | Herbs |
| ft. | Avg. | DBH of Dom | inants: | all provide the second s | _in. | Interpopulations) | in. | Leby. | and a second |
| Dominant Bank Vege | etation: | ata, Fe | stuca pr | atense | , Tay | oxa Ellin | N Leo in | , De | |
| Aquatic Habitats (ex: | submerged or emer | ged aquatic vege | tation, overhanging bar | nks/roots, leaf |) backs, large sub | merged wood, riffles, de | ep pools): | | |
| Aquatic Organisme (| 50K | | | | | | | | |
| (1/si) NONE | Juserveu. | | | | | | | | |
| Invasive and/or T&E | Species Obse | rved: | 99 Mar - Mar - Bar - Ba | | | *** | Q-47,940,000,000,000,000,000,000,000,000,000 | *********** | |
| NUNZ Tributary is: | Farand | | | | | | | | |
| (check one) | Natura | u [| Artificial, man | -made | ZManipula | ated | | | |
| Disturbances: (check all that apply) | Livest acces | ock [s | Manure in waterbody | □v p | /aste discha pes | rge 🖾 | other: Ray | Iside | SUN C |
| Stream Quality ^b : (check one) | High | | Moderate | | ow | | | | |

- ^a Connecting swales are water features that do not meet the definition of a waterbody (not an ephemeral waterbody) in that there is not a defined bed, bank, and ordinary high water mark, however, it is a water conveyance feature that is characterized by flow volume, frequency, and duration to make it more than just an erosional feature and connects two potential waters of the U.S. and thereby may be subject to Section 404 permitting.
- ^b High Quality: Natural channel, natural vegetation extends at least one or two active channel widths on each side; banks stable and protected by roots; water color is clear to tea-colored; no barriers to fish movement; many fish cover types available; diverse and stable aquatic habitat; no disturbance by livestock or man.

Moderate Quality: Altered channel evidenced by rip-rap; natural vegetation extends 1/3-1/2 of the active channel width on each side; filtering function or riparian vegetation only moderately compromised; banks moderately unstable; water color is cloudy, submerged objects covered with greenish film; moderate odor; minor barriers to fish movement; fair aquatic habitat; minimum disturbance by livestock or man.

Low Quality: Channel is actively down cutting or widening; rip rap and channelization excessive; natural vegetation less than 1/3 of the active channel width on each side; lack of regeneration; filtering function severely compromised; banks unstable (eroding); water color is muddy and turbid; obvious pollutants (algal mats, surface scum, surface sheen); heavy odor; severe barriers to fish movement; little to no aquatic habitat; severe disturbance from livestock or man.

Notes

Waterbody Sketch

Include north arrow, centerline, distance from centerline, photo locations, survey boundary, and unique IDs of associated features.





Waterbody swzg020 facing upstream



Waterbody swzg020 facing downstream

Swzg020



Waterbody swzg020 facing upline cross stream

Waterbody Data Sheet

| Description | | | | | | | | | |
|---|-----------------------|--------------------------|--------------------|----------------------|----------------------|-------------------------|--------------|-----------------|------------|
| Project Name: | | | | Date: | | | Waterbody S | urvey ID: | |
| Supply Header Project | | | | 06/03/2016 | | | swza006 | | |
| State: | Co | unty/Parish: | | USGS Wate | erbody Name |): | | | |
| WV | We | etzel | | Unnamed t | ributary | | | | |
| Company: | Cre | ew Member Initia | s: | Latitude: | | | Longitude: | | |
| Dominion Transmission, In- | ic. KT | C, LCE | | | | | | | |
| Survey Type: I C (check one) | enterline | □ Re-Route | • | □Access Road | □Facility | □Other | | | |
| Waterbody Type: R (check one) | liver | ✓ Stream | | Ditch | Swale | 🗆 Canal | | Other | |
| Water Appearance: IN (check one) | lo Water | □ Clear | | □Turbid | □Sheen or Surface | n ⊡Surfac | e Scum □A | lgal Mats | □Other |
| Feature Quality ^a : □ H | ligh | ✓ Moderate | | Low | | | | | |
| Feature Description: IN (check one) | latural | □ Artificial, | man-made | Manipulated | | | | | |
| Flow Regime: E (check one) | phemera | al 🗌 Intermitte | ent 🗌 | Perennial | Connec Swale | ting | | | |
| Sinuosity within Survey Corridor: | straight | Meander | ing | | | | | | |
| Description Notes: | | | | | | | | | |
| | | | | | | | | | |
| Measurements | | | | | | | | | |
| Depth of Water: ft. | N/A | A⊠ Unknown | U Water Ed | ge to Water E | dge: ft. | . N/A ⊻ | OHWM Width | n: <u>2</u> ft. | |
| OHWM Indicator: (check all that apply) | Clear | r line on bank | Shelving | □Wrested | vegetation | □Scouring | | □Water sta | aining |
| | ∎ Bent, missing | matted, or | □Wrack line | Litter and | debris | □ Abrupt plan change | t community | Soil char | acteristic |
| Dominant Substrate: (check all that apply) | □ Bedro | ock 🗌 Bould | ler 🗹 Col | bble 🗹 | Gravel | □ Sand | Silt/ clay | | rganic |
| Observations | | | | | | | | | |
| Riparian Zone Present: (check one) | □ Yes | 🗹 No | | | | | | | |
| Vegetation Layers: (check all that apply) | Trees | s 🗹 Sa | plings/Shrubs | ☑ Herb | 6 | | | | |
| Dominant Bank Vegetatio | on (list): | | | | | | | | |
| forbs, fern; maple, dogwoo | d; maple | , tuliptree | | | | | | | |
| Aquatic Habitats (ex: submer n/a | rged or eme | erged aquatic vegetation | , overhanging bank | s/roots, leaf packs, | large submerged v | wood, riffles, deep po | ools, etc.): | | |
| Aquatic Organisms Obser | rved (list |): | | | | | | | |
| n/a | | /- | | | | | | | |
| Disturbances (ex: livestock | access, m | nanure in waterbody, | waste discharge | pipes): | | | | | |
| n/a | | | | | | | | | |
| Observation Notes: | | | | | | | | | |
| Upland drainage ephemera | al stream | | | | | | | | |

swza006



Waterbody swza006 facing upstream



Waterbody swza006 facing downstream

swza006



Waterbody swza006 cross stream

Waterbody Data Sheet

| Description | | | |
|---|---|--|---|
| Project Name: | | Date: | Waterbody Survey ID: |
| Supply Header Project | | 06/03/2016 | swza007 |
| State: | County/Parish: | USGS Waterbody Name: | · |
| WV | Wetzel | Unnamed tributary | |
| Company: | Crew Member Initials: | Latitude: | Longitude: |
| Dominion Transmission, Inc. | KTC, LCE | | |
| Survey Type: Centerl | ine 🗆 Re-Route | Access Road Facility Other | · |
| Waterbody Type: River (check one) | Stream | Ditch Swale Cana | I Other |
| Water Appearance: 🗹 No Wat (check one) | ter 🗆 Clear | Turbid Sheen on Surface | ce Scum □Algal Mats □Other |
| Feature Quality ^a : High (check one) | Moderate |] Low | |
| Feature Description: 🗹 Natural | Artificial, man-made |] Manipulated | |
| Flow Regime: Flow Regime: | eral 🗆 Intermittent | Perennial Connecting | |
| Sinuosity within Survey Corridor: | t 🛛 Meandering | | |
| Description Notes: | | | |
| | | | |
| Measurements | | | |
| Depth of Water: ft. | N/A 🗹 Unknown 🗆 Water Edg | ge to Water Edge: ft. N/A⊠ | OHWM Width: <u>1</u> ft. |
| OHWM Indicator: | ear line on bank Shelving | □Wrested vegetation □Scouring | □Water staining |
| I Be missi | nt, matted, or □Wrack line | ✓Litter and debris □Abrupt plar change | nt community Soil characteristic change |
| Dominant Substrate: Be (check all that apply) | edrock 🗆 Boulder 🗆 Cok | ble 🗌 Gravel 🗌 Sand | I Silt/ clay I Organic |
| Observations | | | |
| Riparian Zone Present: Ye | es 🗹 No | | |
| Vegetation Layers: 🗹 Tr (check all that apply) | ees 🗹 Saplings/Shrubs | ☑ Herbs | |
| Dominant Bank Vegetation (list |): | | |
| forbs; black gum, maple, rose; m | iaple, beech | | |
| Aquatic Habitats (ex: submerged or n/a | emerged aquatic vegetation, overhanging banks | s/roots, leaf packs, large submerged wood, riffles, deep p | pools, etc.): |
| Aquatic Organisms Observed | (list): | | |
| n/a | | | |
| Disturbances (ex: livestock access | s, manure in waterbody, waste discharge | pipes): | |
| n/a | | | |
| Observation Notes: | | | |
| Upland drainage ephemeral stre | am; confluence with swza008. | | |

swza007



Waterbody swza007 facing upstream



Waterbody swza007 facing downstream

swza007



Waterbody swza007 cross stream

Waterbody Data Sheet

| Description | | | | | | | | | |
|---|-------------|--------------------------|---------------------|---------------------|-----------------------|------------------------|--------------|------------------------|-----------|
| Project Name: | | | | Date: | | | Waterbody S | urvey ID: | |
| Supply Header Project | | | | 06/03/2016 | | | swza008 | | |
| State: | Co | ounty/Parish: | | USGS Wate | erbody Name | : | | | |
| WV | W | etzel | | Unnamed ti | ributary | | | | |
| Company: | Cr | ew Member Initial | s: | Latitude: | | | Longitude: | | |
| Dominion Transmission, In | ic. K | TC, LCE | | | | | | | |
| Survey Type: I C | Centerline | e 🗆 Re-Route | • | Access Road | □Facility | □Other | | | |
| Waterbody Type: R (check one) | River | ✓ Stream | | Ditch | Swale | 🗆 Canal | | Other | |
| Water Appearance: IN (check one) | lo Water | □ Clear | | Turbid | □ Sheen or Surface | n ⊡Surfac | e Scum □A | Igal Mats | □Other |
| Feature Quality ^a : DH | ligh | Moderate | | Low | | | | | |
| Feature Description: IN N (check one) | latural | □ Artificial, | man-made 🗆 | Manipulated | | | | | |
| Flow Regime: E (check one) | phemera | al 🗌 Intermitte | ent 🗆 | Perennial | Connec Swale | ting | | | |
| Sinuosity within Survey Corridor: | Straight | Meander | ing | | | | | | |
| Description Notes: | | | | | | | | | |
| Ephemeral stream that dra | iins upiar | | | | | | | | |
| Measurements | | | | | | | | | |
| Depth of Water: ft. | N/. | A I Unknown | Water Edg | je to Water Eo | dge: ft. | N/A 🗹 | OHWM Width | n: <u>2</u> ft. | |
| OHWM Indicator: (check all that apply) | Clea | r line on bank | Shelving | □Wrested v | egetation | Scouring | | □Water sta | ining |
| | Bent, | matted, or | Wrack line | ✓Litter and | debris | □Abrupt plan change | t community | □Soil chara | cteristic |
| Dominant Substrate: (check all that apply) | □ Bedr | ock 🗌 Bould | er 🗹 Cob | ble 🗹 | Gravel | Sand | Silt/ clay | | ganic |
| Observations | | | | | | | | | |
| Riparian Zone Present: (check one) | □ Yes | 🗹 No | | | | | | | |
| Vegetation Layers: (check all that apply) | Tree: | s 🗹 Saj | olings/Shrubs | I Herbs | 3 | | | | |
| Dominant Bank Vegetatio | on (list): | | | | | | | | |
| forbs, fern; beech, rose, ma | aple, hor | mbeam; black gum | , maple, oaks | | | | | | |
| Aquatic Habitats (ex: subme n/a | erged or em | erged aquatic vegetation | , overhanging banks | /roots, leaf packs, | large submerged v | vood, riffles, deep po | ools, etc.): | | |
| Aquatic Organisms Obse | rved (lis | t): | | | | | | | |
| n/a | , | , | | | | | | | |
| Disturbances (ex: livestock | access, n | nanure in waterbody, | waste discharge | pipes): | | | | | |
| n/a | | | | | | | | | |
| Observation Notes: | | | | | | | | | |
| Upland drainage ephemera | al stream | 1 | | | | | | | |

swza008



Waterbody swza008 facing upstream



Waterbody swza008 facing downstream

swza008



Waterbody swza008 cross stream

Waterbody Data Sheet

| Survey Description | | | | | |
|---|---|--|---|-------------|---|
| Project Name: | Waterbody Name: | Įv | Vaterbody ID: | Da | ite: |
| DTI Supply Hendlor | Upper Run | | 5 @ WZ60 | 2 (| 3/12/1-15 |
| State: County: | Company: | Crew Mem | ber Initials: Photo | ID(s): | |
| WV Wetzel | DOWEST | JD,: | JG | | |
| Tract Number(s): 33 - 0.09 - C025 32 - 0.09 - R(1) + 7 | Milepost Entry: Mi 29.9 | lepost Exit: 4 29.9 | Associated Wetland | ID(s): | |
| Survey Type: (check one) Centerline | Re-Route A | ccess Road | Other: | | |
| Physical Attributes | na mailte ann an Mailte ann an Annaichean ann ann an Annaichean an Annaichean Annaichean an Annaichean an Annai | in This is a second | <u>الي بالمالية المالية بينامين</u> | | |
| Stream Classification: | | Perennial | | | |
| Waterbody Type: | | | | Other | : •••••••••••••••••••••••••••••••••••• |
| | | | cting swale " | | |
| Width: $2\hat{O}_{\text{ft.}}$ | (Clear line (pply) Clear line on bank | Shelving | Wrested vegetation | Scouring | Water staining |
| Height:ftBent, _Bent, _Bent | matted, or Wrack ng vegetation | Litter and debris | Abrupt plant community ch | ange | Soil characteristic change |
| Width of Waterbody - Top of Bank to Top of Bank at Centerline: | Width of Waterbody - Wat Water Edge at Centerline: | ter Edge to | Depth of Water at ((Approx.) | Centerline: | |
| <u>30</u> t. | f | t. | | ft. | |
| Sinuosity: Wa | ter velocity: | Bank height | B | ank slope | |
| Straight | $\sim \zeta$ | Right: C | <u> </u> | Right | <u>30</u> degrees |
| 🖄 Meandering | <u>/ _></u> fps | Left: <u>/</u> | <u>_</u> ft. | Left | 30 degrees |
| Qualitative Attributes | | | | | |
| Water Appearance: (check one) No water X C | ear Turbid Sheen on surfa | Surface scum | Algai Oti mats | ner: | |
| Substrate: K Bedrock K G | ravel 🕅 Sand | Silt/clay | Organic Oth | ner. | |
| % of Substrate: 40 % | <u>10 % 10 %</u> | 10% | % | | % |
| Width of Riparian Zone: Vegetation (check all the | /e Layers: at apply) Trees: | 17 | Shrubs: | | Herbs |
| Avg. DBI | 1 of Dominants: | in. | i | ٦. | frazywałą |
| Dominant Bank Vegetation: (1817 Platanus acidenta/15 | Acer rates, Rhus | glabra, Roz | sa multipor | A Heli | on thees sp. |
| Aquatic Habitats (ex: submerged or emerged a (180) PODIS, over Manying ro | equatic vegetation, overhanging banks/roots, is $813 4 \text{ veg}$, $RiHlos$, I | leaf packa, large submerge 0147 pracks | ed wood, riffles, deep pools): | | <u> </u> |
| Aquatic Organisms Observed: (181) Several Species of | f small fish, = | some thai | ing breeding | gactiv | ity |
| Invasive and/or T&E Species Observed | 1: 4 | | | 1997 | |
| Tributary is: (check one) Natural | Artificial, man-made | Manipulated | | | |
| Disturbances: (check all thet apply) | Manure in waterbody | Waste discharge | Other: | | |
| Stream Quality ^b : (check one) High | Moderate | Low | *************************************** | | |

| | Waterbody ID: |
|--|--|
| | SWZG021 |
| ^a Connecting swales are water features that do not meet the definition of a waterbody (not an ephemeral waterbody) in the and ordinary high water mark, however, it is a water conveyance feature that is characterized by flow volume, frequency, as an erosional feature and connects two potential waters of the U.S. and thereby may be subject to Section 404 permitting. | nat there is not a defined bed, bank, nd duration to make it more than just |
| ^b High Quality: Natural channel, natural vegetation extends at least one or two active channel widths on each side roots; water color is clear to tea-colored; no barriers to fish movement; many fish cover types available; diverse an disturbance by livestock or man. | ; banks stable and protected by nd stable aquatic habitat; no |
| Moderate Quality: Altered channel evidenced by rip-rap; natural vegetation extends 1/3-1/2 of the active channe function or riparian vegetation only moderately compromised; banks moderately unstable; water color is cloudy, s greenish film; moderate odor; minor barriers to fish movement; fair aquatic habitat; minimum disturbance by lives | l width on each side; filtering ubmerged objects covered with tock or man. |
| Low Quality: Channel is actively down cutting or widening; rip rap and channelization excessive; natural vegetati channel width on each side; lack of regeneration; filtering function severely compromised; banks unstable (erodin turbid; obvious pollutants (algal mats, surface scum, surface sheen); heavy odor; severe barriers to fish movemen severe disturbance from livestock or man. | on less than 1/3 of the active g); water color is muddy and nt; little to no aquatic habitat; |
| Notes | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| Waterbody Sketch | |
| Include north arrow, centerline, distance from centerline, photo locations, survey boundary, and unique IDs of associations | ated features. |
| | |
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| LIPPER DUI | Contraction of the local data and the local data an |
| E KUN ROAD | DA INCIDE DE LA CONTRACTÓNICA D |
| | |
| | |
| SWZGDZ | |
| UPPER RUN | |
| ~ FLOW | |
| | |

Form Rev. 2/21/2014



Waterbody swzg021 facing upstream



Waterbody swzg021 facing downstream

Swzg021



Waterbody swzg021 facing upline cross stream

Waterbody Data Sheet Survey Description Project Name: Waterbody Name: Waterbody ID: Date: 22 15 DTISUPPLY Hender SWZGOLO INT TO UPPER RUN State: Crew Member Initials: Photo ID(s): Count Company: W Wetze DDWEST JD,DB Milepost Exit: Milepost Entry: Associated Wetland ID(s): Tract Number(s): 33-011 N NA NONS 33-009-AC Survey Type: (check one) 100 Acre Mockingberd Site Centerline Re-Route Access Road Physical Attributes Stream Classification: Perennial Intermittent (check one) Ephemeral Waterbody Type: (Angle Stream River Pond Other: Ditch Lake Connecting swale * OHWM OHWM Indicator: check all that apply) Clear line Shelving Wrested Scouring Water Width: vegetation staining on bank Bent, matted, or Wrack Soil characteristic Litter and Abrupt plant Height: C community change change missing vegetation line debris Depth of Water at Centerline: Width of Waterbody - Water Edge to Width of Waterbody - Top of Bank to Top of Bank at Centerline: Water Edge at Centerline: (Approx.) 3' ft. ft. ft. Bank height Sinuosity: Water velocity: Bank slope (check one) (Approx,) Right: Right: Straight degrees X Meandering Left: Left: degrees Qualitative Attributes Water Appearance: Clear K Turbid (check one) No water Sheen Surface Algai Other: on surface scum mats K Gravel X Sand X Silt/clay X Bedrock Other: Substrate: Organic (check all that apply) 15 % of Substrate: % % Width of Riparian Zone: Vegetative Layers: 又 Trees: X Shrubs: X Herbs (check all that apply) 750 ft \mathcal{D} in Avg. DBH of Dominants: (approx.) Dominant Bank Vegetation: Elacagnus umbellada, Rosa multiflora, Equisetum hymale (list) Acer regundo, Aquatic Habitats (ex: submerged or emerged aquatic vegetation, overhanging banks/roots, leaf packs, large submerged wood, riffies, deep pools); Posls, rittles Aquatic Organisms Observed: (list) NONS Invasive and/or T&E Species Observed: (list) Rosa multiflora, Elacagnus umbellata Tributary is: X Natural Manipulated (check one) Artificial, man-made Disturbances: (check all that apply) Other: Livestock Manure in Waste discharge TRUS access waterbody pipes Stream Qualityb: X Moderate (check one) High Low

| Form | Rev. | 2/21/2014 | |
|------|------|-----------|--|
| | | | |

Waterbody ID:

SWZ6010

^a Connecting swales are water features that do not meet the definition of a waterbody (not an ephemeral waterbody) in that there is not a defined bed, bank, and ordinary high water mark, however, it is a water conveyance feature that is characterized by flow volume, frequency, and duration to make it more than just an erosional feature and connects two potential waters of the U.S. and thereby may be subject to Section 404 permitting.

^b High Quality: Natural channel, natural vegetation extends at least one or two active channel widths on each side; banks stable and protected by roots; water color is clear to tea-colored; no barriers to fish movement; many fish cover types available; diverse and stable aquatic habitat; no disturbance by livestock or man.

Moderate Quality: Altered channel evidenced by rip-rap; natural vegetation extends 1/3-1/2 of the active channel width on each side; filtering function or riparian vegetation only moderately compromised; banks moderately unstable; water color is cloudy, submerged objects covered with greenish film; moderate odor; minor barriers to fish movement; fair aquatic habitat; minimum disturbance by livestock or man.

Low Quality: Channel is actively down cutting or widening; rip rap and channelization excessive; natural vegetation less than 1/3 of the active channel width on each side; lack of regeneration; filtering function severely compromised; banks unstable (eroding); water color is muddy and turbid; obvious pollutants (algal mats, surface scum, surface sheen); heavy odor; severe barriers to fish movement; little to no aquatic habitat; severe disturbance from livestock or man.

Notes

Waterbody Sketch

Include north arrow, centerline, distance from centerline, photo locations, survey boundary, and unique IDs of associated features.





Waterbody *swzg010* facing upstream



Waterbody *swzg010* downstream



Waterbody swzg010 facing upline cross stream

| terbody Data Sh | leet | | ······································ | | |
|--|---|---|--|--|---------------------------|
| urvey Description | | | | | |
| oject Name: | Wate | rbody Name: | ER RUAL | Waterbody ID: | Date: |
| STI Supply | Leveler V | | | SWZGO | 522 5/1211 |
| iate: County: NV Wetz | ell | Company: DEWEST | Crew Me | J_{J} | to ID(s): |
| ract Number(s): | | Milepost Entry: | Milepost Exit: | Associated Wetlan | id ID(s): |
| 33-009-A01 33-009-A07 | | 31.3 | 31.3 | NON | ٤ |
| urvey Type: heck one) | | Re-Route | Access Road | Other: | |
| hysical Attributes | | | | | |
| tream Classification: heck.one) | Ephemeral | Intermittent | Perennial | | |
| Vaterbody Type: wheak one) | ream | Ditch Pond | Lake COn | necting swale * | Other: |
| HWM Width: رح _{ft.} | OHWW Indicato (check all that apply) | r: Clear li on ban | ne KShelving k | Wrested vegetation | Scouring Water stainin |
| Height: | Bent, matter missing ve | ed, or Wrack getation | Litter and debris | Abrupt plan | t Soil characterist |
| Width of Waterbody - T | op of Bank to | Width of Waterbody - | Water Edge to | Depth of Water | at Centerline: |
| op of Bank at Centeril | ne: | Water Edge at Center | line: ft. | (Approx.) | |
| Sinuosity: | Water v | elocity: | Bank height | | Bank slope |
| check one) | ght (Approx.) | 、 , | Right: | 2 | Right: 60deare |
| Mean | ndering | <u> </u> | Left: | 2 # | |
| Qualitative Attribu | tes | | | | |
| Water Appearance: (check one) | lo water 🕅 Clear | Turbid Sho | een Surface | e 🔲 Algal 🔲 mats | Other: |
| Substrate: | iedrock KGravel | Sand | Zksilt/clay | Organic | Other: |
| % of Substrate: | <u>60 % 30</u> | <u>% 5</u> % | 5_% | % | % |
| Width of Riparian Zone $710D_{\rm ft}$ | e: Vegetative La (check all that appl Avg, DBH of | vyers: y) Trees: Dominants: | in | Shrubs: | Herbs |
| Dominant Bank Veget | (approx.) | | ······································ | 114 | -"" Col: p |
| (180) Carpin | us constmi | ana, Acert | earbatum, | Angrium | icita-funine |
| Aquatic Habitats (ex: si (181) Pools Ri | Ibmerged or emerged aquatic | vegetation, overhanging banks/ | roots, leaf packs, large subm | erged wood, riffles, deep poo | sis): |
| Aquatic Organisms O | bserved: Sh amp | hibians | 999 - 490 - 490 - 490 - 490 - 490 - 490 - 490 - 490 - 490 - 490 - 490 - 490 - 490 - 490 - 490 - 490 - 490 - 49 | | |
| Invasive and/or T&E S | pecies Observed: | Takan geli na na galan gent kara a na galan ya panang galan | 19-20-20-20-20-20-20-20-20-20-20-20-20-20- | 2000 yr Charlen ar | |
| Tributary is: (check one) | | Artificial, man-m | ade Manipulat | ed | |
| Disturbances: (check all that apply) | Livestock access | Manure in waterbody | Waste discharg | ge 🚺 Other | NONE |
| Stream Quality ^b : (check one) | High | Moderate | Low | | |

| | Waterbody ID: |
|--|--|
| | SWZ6022 |
| ^a Connecting swales are water features that do not meet the definition of a waterbody (not an ephemeral waterbody) in that and ordinary high water mark, however, it is a water conveyance feature that is characterized by flow volume, frequency, and an erosional feature and connects two potential waters of the U.S. and thereby may be subject to Section 404 permitting. | there is not a defined bed, bank, duration to make it more than just |
| ^b High Quality: Natural channel, natural vegetation extends at least one or two active channel widths on each side; k roots; water color is clear to tea-colored; no barriers to fish movement; many fish cover types available; diverse and disturbance by livestock or man. | anks stable and protected by stable aquatic habitat; no |
| Moderate Quality: Altered channel evidenced by rip-rap; natural vegetation extends 1/3-1/2 of the active channel v function or riparian vegetation only moderately compromised; banks moderately unstable; water color is cloudy, sul greenish film; moderate odor; minor barriers to fish movement; fair aquatic habitat; minimum disturbance by livestor | vidth on each side; filtering omerged objects covered with ok or man. |
| Low Quality: Channel is actively down cutting or widening; rip rap and channelization excessive; natural vegetation channel width on each side; lack of regeneration; filtering function severely compromised; banks unstable (eroding) turbid; obvious pollutants (algal mats, surface scum, surface sheen); heavy odor; severe barriers to fish movement; severe disturbance from livestock or man. |) less than 1/3 of the active ; water color is muddy and little to no aquatic habitat; |
| Notes | |
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| Waterbody Sketch Include north errow, centerline, distance from centerline, photo locations, survey boundary, and unique IDs of associate | ad features. |
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Waterbody swzg022 facing upstream



Waterbody swzg022 facing downstream

Swzg022



Waterbody swzg022 facing upline cross stream

| terbody Data S | heet | | | | | |
|---|--|--|---|---|------------------------------------|--|
| urvey Description | | | | | | |
| oject Name: | | Waterbody Name: | in a shine in the second s | Waterbody ID: | Da | te: |
| JT Supply | Verseer | Lower Ru | п | SWZG0 | z3 | 5/12/15 |
| tate: County: | - 01 | Company: | - Crew Me | mber Initials: Phot | to ID(s): | |
| ract Number(s): | | Milepost Entry: | Milepost Exit: | Associated Wetlan | d ID(s): | <u>ۇر 1944-يەر 1940-يەر 1940-يەر 1940-يەر 1940-يەر 1940-يەر 1940-يەر 1940-يەر 1940-يەر 1940-يەر 1940-</u> يەر 1940-يەر |
| 33- <i>00</i> 9-CE | 128 | 32.3 | 32.3 | NONE | - | |
| urvey Type: heck one) | | Re-Route | Access Road | Other: | | |
| hysical Attribute | 5 | | | ****** | | |
| tream Classification: heck.one) | Ephemeral | Intermittent | Perennial | | | |
| Vaterbody Type: where one) | itream 🚺 River | Ditch Pond | | ecting swale * | Other: | |
| Width: <u><u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u></u> | OHWM Ind (check all that a | cator: PPhy) Clear on bar | line Shelving | Wrested vegetation | Scouring | Water staining |
| Height: $2^{(1)}$ ft. | Bent, missir | matted, or Wrack ng vegetation | k Litter and debris | Abrupt plan community | t Change | Soil characteristic change |
| Nidth of Waterbody - Fop of Bank at Center | Top of Bank to line: | Width of Waterbody Water Edge at Cente | - Water Edge to Infine: | Depth of Water a | t Centerline: | ************** |
| 14 | ft. | 1 | ∠ft. | | ft. | |
| Sinuosity: ^(check one) | Wa (App | ter velocity: rox.) | Bank height Right: | 1 | Bank slope Right: | 15 |
| IXI Mea | andering | $Z2_{fps}$ | Left: | ft. | Left | degrees |
| | | | | [ft | | <u> ></u> degrees |
| | | | | | | |
| (check one) | No water 🛛 🕅 C | ear 🚺 Turbid 🚺 Sh on | neen Surface surface scum | Algai Algai mats | Other: | |
| Substrate: | Bedrock 🕅 G | ravel 🔀 Sand | Silt/clay |] Organic | Other: | |
| % of Substrate: | <u>20 %</u> Z | $0_{\%}$ $5_{\%}$ | 5_% | | | % |
| Width of Riparian Zor 20 ft. | ne: Vegetati (check all th Avg. DB | ve Layers: at apply) H of Dominants: | : ín. | Shrubs: | _in, | Herbs |
| Dominant Bank Vege | tation: CCI Sen ta | lis ZArpinus | , carolmian | na, Fraxin | us pensyl | VANICIOUR |
| Aquatic Habitats (ex: | submerged or emerged i | Aquatic vegetation, overhanging banks | /roots, leaf packs, large subme | rged wood, riffles, deep poo | 15): | |
| Aquatic Organisms C | observed: 15h + fro | 15 | <u>.</u> | | | , <u> </u> |
| Invasive and/or T&E | Species Observe | d: | 1999 - 1999 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - | na filmala di na ang na filmang na filmang ng tang ng tang tang ng tang ng tang ng tang ng tang ng tang ng tang | ݠݾݘݵݵݹݖݰݾݙݡݿݕݯݬݥݕݖݛݵݸݵݵݵݕݜݷݕݛ ݾ | |
| Tributary is: (check one) | Natural | Artificial, man-n | nade 🛄 Manipulate | d | | ٨ |
| Disturbances: (check all that apply) | Livestock access | Manure in waterbody | Waste discharge | e 🗹 Other | Ady | and the |
| Stream Quality ^b : (check one) | High | Moderate | Low | | | |

| | | | | Waterbody ID: |
|---|--|---|---|--|
| | | | | JWZ6023 |
| Connecting swales are water feature and ordinary high water mark, how an erosional feature and connects | atures that do not meet the defin vever, it is a water conveyance fe two potential waters of the U.S. | ition of a waterbody (not an ephen ature that is characterized by flow v and thereby may be subject to Ser | neral waterbody) in tha volume, frequency, and ction 404 permitting. | t there is not a defined bed, bank duration to make it more than jus |
| ^b High Quality: Natural channel, roots; water color is clear to tea disturbance by livestock or mar | natural vegetation extends at -colored; no barriers to fish mo | east one or two active channel we we were the second | widths on each side; k available; diverse and | anks stable and protected by stable aquatic habitat; no |
| Moderate Quality: Altered cha function or riparian vegetation o greenish film: moderate odor: n | nnel evidenced by rip-rap; natu mly moderately compromised; ninor barriers to fish movement | iral vegetation extends 1/3-1/2 o banks moderately unstable; wat | If the active channel v er color is cloudy, sul listurbance by livestor | vidth on each side; filtering omerged objects covered with sk or man. |
| Low Quality: Channel is active channel width on each side; lac turbid; obvious pollutants (algal severe disturbance from livesto | ly down cutting or widening; rij k of regeneration; filtering func mats, surface scum, surface s ck or man. | o rap and channelization excess tion severely compromised; bar heen); heavy odor; severe barri | ive; natural vegetation iks unstable (eroding) ers to fish movement; | h less than 1/3 of the active ; water color is muddy and little to no aquatic habitat; |
| otes | | | | |
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| aterbody Sketch | | | | |
| lude north arrow, centerline, dist | ance from centerline, photo loc | ations, survey boundary, and u | nique IDs of associate | d features. |
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Waterbody swzg023 facing upstream



Waterbody swzg023 facing downstream

Swzg023



Waterbody swzg023 facing upline cross stream

| aurey Description Materbody Name: Materbody Name: Materbody Name: TI Supply Render Materbody Name: Supply Render Provide Materbody Name: TI Supply Render Company: Company: Company: Company: WW Wetzzel Dob WEST JD DB Proto ID(a): WW Wetzzel Dob WEST JD DB Proto ID(a): Water Vogetation: Contentine Re-Route Access Read Other: Work Materbody Name: Water Vogetation: Ephonsmal Interretioned Access Read Other: Work Materbody Name: Work Materbo | aterbody Data Sheet | | | | | | or av av Definitier varanty soz≢ there an | |
|---|--|--|---|---------------------------------------|--|---|---|---|
| Right Nume: Waterbody Name: Waterbody Diversion Date: '1/2.2/1 Strike County: Company: Drew Menders initials: Photo 10(a): '1/2.2/1 WW Wetzel Dowest initials: Photo 10(a): '1/2.2/1 WW Wetzel Dowest initials: Photo 10(a): '1/2.2/1 WW Wetzel Dowest initials: Photo 10(a): '1/2.2/1 Witer County: Company: Dowest initials: Photo 10(a): 'Wety Top: Centerline Re-Route Access Read Other: Work: 'Wety Stat Attributes Experimal Intermiliant Preminial Waterbody Type: Other: Down interminial 'Waterbody: Discher Intermiliant Preminial Company: Discher Interminial Discher Interminial 'Waterbody: 'Discher Intermiliant Preminial Discher Interminial Discher Interminial 'Waterbody: 'Discher Intermiliant 'Discher Intermiliant Discher Intermiliant Discher Intermiliant 'Waterbody: 'Discher Intermiliant 'Discher Intermiliant 'Discher Intermiliant Discher Intermiliant Discherintermiliant | Survey Description | `````````````````````````````````````` | | | | | | |
| AT 1 Supply Kender Image: Public Company: Dew Will Supply Kender 1/22/1 Late: Company: Dew SST Dew Kenheer Initiate: Photo 10(s): WW Wetzel De WEST Dew Company: Dew Kenheer Initiate: Photo 10(s): Standammetric: Milepost Entry: Milepost Entry: NA NONE Intree Type: Controlline Re-Route Access Read Other NONE Physical Attributes Tream Classification: Entromonal Intermittent Perennial Variendory Type: Benker metal Intermittent Perennial Other: None Variendory Type: Other metal Intermittent Perennial Other: Other: Variendory Type: Other metal Intermittent Perennial Other: Other: Variendory Type: Other metal Other metal Other: Other: Other: Variendory Type: Other metal Other metal Other: Other: Other: Variendory Type: Main Catherine: Weter valendory: Weter valendory: Other: Other: | roject Name: | Waterbo | ody Name: | Sound States of States and States and | | Waterbody ID: | Date | e: |
| Latte: Goungany: Drew Member Initials: Photo ID(s): LWV Wetzel Dowest ID, DG S3-011 Milepost Exit; Associated Wetland TD(s): Witer Status Drew Member Initials: Photo ID(s): S3-011 MA MA Witer Status Drew Member Initials: Photo ID(s): Status Drew Member Initials: Photo ID(s): System Classification: Ephemeral Intermittent Physical Attributes Market Difference Difference Weethood Providend Photo ID(s): Difference Weethood Providend Photo Difference Weethod Difference Difference Width of Weethod Ofference Difference Width of Weethod Or Woethod Weethod Status Difference Difference Status Difference </td <td>ITI Supply Hender</td> <td>1920</td> <td>RUN RUN</td> <td></td> <td></td> <td>SWZGO</td> <td>08 L</td> <td>1/22/15</td> | ITI Supply Hender | 1920 | RUN RUN | | | SWZGO | 08 L | 1/22/15 |
| WW Wetzel Db WEST ID, DB 33-011 NA NA NADZ Integroat Entry: Milepost Entry: Masociated Wetland (D(s): 33-011 NA NA NDZ Integroat Entry: NA NDZ Integroat Entry: NA NDZ Integroat Entry: NA NDZ Integroat Entry: NO Pace MacLinghand (S) No Pace MacLinghand (S) Physical Attributes Extern (Sastification: Integroat (Sastification: Integroat (Sastification: Wethical (J_n. Extern (Sastification: Integroat (Sastification: Integroat (Sastification: Integroat (Sastification: Wethical (J_n. Imac (Sastification: Integroat (Sastification: Integroat (Sastification: Integroat (Sastification: Wethical (Water Edge (Sastification: Integroat (Sastification: Integroat (Sastification: Integroat (Sastification: Integroat (Sastification: Wethical (Water Edge (Sastification: Integroat (Sastification: Integroat (Sastification: Integroat (Sastification: Integroat (Sastification: Wethin: Integroat (Sastification: Integroat (Sastification: Integroat (Sastification: | itate: County: | | Company: | | Crew Me | mber Initials: Photo | DID(s): | |
| Tack Humber(s): Milepost Entry: MilepostEntry: Milepost Entry: M | WV Wetzel | | DOWEST | | JD. | DB | | |
| 33 - Oll NR NA NDXE unrege Type: Centerline Re-Route Access Road Other: We Bure ModLinghind S Physical Attributes Witter Classification: Ephemonal Intermittent Perennial Weterbody Type: Stream River Ditter Stream Right: Stream Right: Stream Right: Stream Right: Stream Right: Stream Marce Marce Marce Right: Stream Marce Marce Marce Marce Marce Marce Marce <td>ract Number(s):</td> <td>TO ORIGE BARRING CONTRACTOR OF COMPANY AND AND AND AND AND AND AND AND AND AND</td> <td>Milepost Entry:</td> <td>Milepost E</td> <td>xit:</td> <td>Associated Wetland</td> <td>i ID(s):</td> <td>alan sama ana ang ang ang ang ang ang ang ang an</td> | ract Number(s): | TO ORIGE BARRING CONTRACTOR OF COMPANY AND | Milepost Entry: | Milepost E | xit: | Associated Wetland | i ID(s): | alan sama ana ang ang ang ang ang ang ang ang an |
| unree Type: □ Centerline □ Re-Route □ Access Road I Other: <u>Work Recre Model vary Array</u> Stream Physical Attributes tream Classification: □ Ephemeral □ Intermittent Perennial Varetody Type: □ Stream □ Re-Route Perennial Varetody Type: □ Stream □ River □ Ditch □ Pand □ Lake □ Connecting swale* □ Other: Width: <u>11</u> n □ Ditch □ Pand □ Lake □ Connecting swale* □ Other: Width: <u>11</u> n □ Ditch □ Pand □ Lake □ Connecting swale* □ Other: Width: <u>11</u> n □ Ditch □ Pand □ Lake □ Connecting swale* □ Other: Width: <u>12</u> n <u>12</u> n □ Ditch □ Pant □ Ditch □ Pant Sinucetty: Water dope at Contenting: Water dope at Contenting: □ Pant □ Ditch 0 degree Note at the apply: □ Straight <u>12</u> n <u>12</u> n Left: <u>14</u> degree Sinucetty: □ Straight <u>12</u> < | 33-011 | | NA | N | 4 | NONE | | |
| Physical Attributes intraen Dissification: beck own Vaterbody Type: Stream River Ditch Pond Lako Connecting evale* Other: With: Yespectation Microsoft With: Yespectation With: With of Waterbody: Water Edge at Centerline: With: Water Properation Straight Straight Straight Mater Appearance Nowater Straight Straight Straight Straight Straight Straight Straight Straight< | Survey Type: | terline | Re-Route | Access Ro | ⊃ad | Other: WO Ac | re Mozlew | ubird Si |
| ittraem Classification: ittraem Cla | Physical Attributes | £2£2224€7427427427427427427427427427427427427427 | an na mar an Agamer ann a' dar ann an Agamer an Ann an Agamer an Ann an Agamer an Ann an Ann an Ann an Ann an A | | n, - 4.) Mar i ya pomono gye i 1772 e T | and the second secon | | 5 |
| Valetaboly Type: Stream River Ditch Pond Lake Connecting swale* Other: DHWM OHWM Indicator: OHWM Indicator: Other: Within and the tappy: Clear line Wheeland Burk to the tappy: Clear line Clear line Wheeland Burk to the tappy: Clear line Cl | Stream Classification: | emeral | Intermittent | Perennial | 1941 - Handrid Cong, and Cong (1949 - 1949 | ݣ ݥݒݸݸݵݔ ݦݛݥݣݿݖݜݠݠݤݷݤݱݠݫݵݸݡݷ <u>ݥݛ</u> ݠݐݸݵݿݜݿݱݶݿݿݛݿݤݿݿݕݿݿݷݸݯݷݯݛݿݿݿݖ | an a fan fer | na a sa na indicio di un dicargona del Ministra di fono |
| OHWM Indicator: OHWM Indicator: Image: Clear line on bank | Naterbody Type: check one) X Stream | River | Ditch Pond | Lake | Conn | ecting swale ^a | Other: | |
| Height: Image: Soli characteristic missing vegetation Inter of Watch of Watc | DHWM OHV Width: (L) ft. | VM Indicator: k all that apply) | Clear lin on bank | ie 🕅 S | helving | Wrested vegetation | Scouring Scouring | Water staining |
| Width of Waterbody - Top of Bank to Fop of Bank at Centerline: Midth of Waterbody - Water Edge to Water Edge at Centerline: Dop th of Water at Centerline: Image: Straight Image: Image: Straight Image: Image | Height: | Bent, matted, of missing vegeta | or Wrack | | itter and ebris | Abrupt plant | hange CSc | oil characteristic ange |
| Iop of Bank at Centerline: Water Edge at Centerline: 20 n. 12 n. Strucestry: Image: Straight 12 n. Meandering 25 fps Bank height Right: 3 ft. Meandering 25 fps Rultitie: 2 ft. Caulitative Attributes Water Appearance: Check and) No water Clear Mater Appearance: Check and apply No water Clear Mater Appearance: Check and Substrate: Degetative Layers: Check at Met apply! % of Substrate: Downiant Bank Vegetation: Check at Met apply! Midth of Riparian Zone: Vegetative Layers: Check at Met apply! Width of Riparian Zone: Vegetation: Check at Met apply! Midth of Riparian Zone: Vegetation: Check at Met apply! Midth of Riparian Sone: Vegetation: Check at Met apply! Mater Apply: Dominant Bank Vegetation: Check | Width of Waterbody - Top of Bar | nk to W | idth of Waterbody - \ | Water Edge | to | Depth of Water at | Centerline: | |
| Sinuosity: | 20 ff | VV. | ater Edge at Centerli | ine: 2fi | | (Approx.) | 4″ _{ft.} | |
| check and Image: Straight image: | Sinuosity: | Water veloc | ity: | Bank he | eight | | ank slope | |
| Meandering 25 fps Left: 2 ft. Left: 40 degree Qualitative Attributes Water Appearance: (Inter& Angpearance: (Inter& Angpearance: (Inter& Angpearance: (Inter& Angpearance: (Inter& Angpearance: (Inter& all Met apply) No water Clear Turbid Sheen on surface Surface Algai Other: mats Substrate: (Inter& all Met apply) No water Clear Sand Slit/clay Organic Other: % of Substrate: 10 % 70 % 10 % 9% -% Width of Riparian Zone: (Vegetative Layers: (Inter all mat apply) Trees: Shrubs: Meroskerian Z50 ft. Avg. DBH of Dominants: 15 % in. | check one) Straight | (Approx.) | - - | R | tight: | 3 _{ft.} | Right: | <u>90</u> degrees |
| Qualitative Attributes Water Appearance: (here and) No water Clear Autification: (enter all that apply) % of Substrate: D % of Substrate: Noward (not state apply) Width of Riparian Zone: Vegetative Layers: (check all that apply) Muter Apple and the apply) The Bank Vegetation: (her bank Ve | Meandering | | 2 <u>5</u> fps | | Left: | 2 " | Left: | 40 degrees |
| Water Appearance: (theck one) No water Clear I Turbid Sheen on surface Surface Algai scum Other: mats Substrate: (check all that apply) I Bedrock Gravel Sand Sitt/clay Organic Other: mats % of Substrate: 0 % 70 % 10 % % % % of Substrate: 0 % 70 % 10 % % % % of Substrate: 0 % 70 % 10 % % % % of Substrate: 0 % 70 % 10 % % % % of Substrate: 0 % 10 % % % % ZSD ft. Avg. DBH of Dominants: 15 In. In. In. Dominant Bank Vegetation: (dow prov.) Avg. Rosca multifloora, Elacagnus umbellade, Microstegium U inin Aquatic Organisms Observed: (dow prov.) Dath of the spools): Mature in Mature in (fib Small floora, Elacagnus umbellade, Sittres, deep pools): Invasive and/or TRE Spe | Qualitative Attributes | | | | | | | |
| Substrate: Bedrock Gravel Sand Silt/clay Organic Other: (check all that apply) A Yegetative Layers: Silt/clay Organic Other: % of Substrate: 10 % 70 % 10 % | Water Appearance: (check one) No water | Ciear K | Turbid Shee | en [] urface | Surface scum | Algai O mats | iher: | |
| % of Substrate: 0 70 10 % 0 % Width of Riparian Zone: Vegetative Layers: Check all that apply) Trees: Z50 ft. Avg. DBH of Dominants: 15 in. In. Dominant Bank Vegetation: (10) % (10) % Muth of Riparian Zone: Vegetative Layers: (10) (11) Trees: Shrubs: Muth of Riparian Zone: Vegetative Layers: (check all that apply) Avg. DBH of Dominants: IS IS In. Dominant Bank Vegetation: (avg. DBH of Dominants: IS Stream Quality ^b : (check one) High Muth of Riparian Zone: (check one) Muth of Riparian Zone: (check all that apply) Rowship Contains the served: (avg. DBH of Dominants: IS IS In. Stream Quality ^b : (check one) High Muderate In. <td>Substrate: Redrock</td> <td>Gravel</td> <td>Sand</td> <td>Silt/clay</td> <td>Ľ</td> <td>Organic Of</td> <td>her:</td> <td></td> | Substrate: Redrock | Gravel | Sand | Silt/clay | Ľ | Organic Of | her: | |
| Width of Riparian Zone: Vegetative Layers: Shrubs: Image: Charact all that apply) Z50 ft. Avg. DBH of Dominants: IS in. | % of Substrate: 10 % | <u> 70 %</u> | 10 % | 10 | % | % | | % |
| 250 ft. Avg. DBH of Dominants: 15 in in in | Width of Riparian Zone: Ve | egetative Layers | s: XTrees: | | | Shrubs: | an a | Herbs |
| Dominant Bank Vegetation: (181) Placenus occidentalis, Rosa multiflorra, Elacagnus umbellatu, Microstegium uimin Aquatic Habitats (ex. submerged or emerged aquatic vegetation, overhanging banks/roots, leaf packs, large submerged wood, riffles, deep pools): (180) Pools, R. Hlas, overhanging banks/roots, leaf packs, large submerged wood, riffles, deep pools): Pools, R. Hlas, overhanging banks/roots, leaf packs, large submerged wood, riffles, deep pools): Pools, R. Hlas, overhanging banks/roots, leaf packs, large submerged wood, riffles, deep pools): Pools, R. Hlas, overhanging banks/roots, leaf packs, large submerged wood, riffles, deep pools): Pools, R. Hlas, overhanging banks/roots, leaf packs, large submerged wood, riffles, deep pools): Small fish Invasive and/or T&E Species Observed: (181) Roots and for T&E Species Observed: (181) | $\frac{250}{(a)}$ ft. | /g. DBH of Dom | ninants: 15 | in. | | | in. | ACCESSION. |
| Aquatic Habitats (ex. submerged or emerged aquatic vegetation, overhanging banks/roots, leaf packs, large submerged wood, riffles, deep pools): Dacry is grower action (list) Picks, R. Hles, overhaver branks/roots, leaf packs, large submerged wood, riffles, deep pools): Aquatic Organisms Observed: (list) Small fish Invasive and/or T&E Species Observed: (list) R DSA multiflora, Elacaquus umballata Tributary is: (check one) Natural Artificial, man-made Manipulated Disturbances: (check all that apply) Livestock access Manure in Manure in pipes Stream Quality ^b : (check one) High Moderate Maderate Moderate Maderate Moderate | Dominant Bank Vegetation: (1151) Pleetcenus occ iden | kelis, Ro: | sa multiflor | A, Elace | agnus | umbellater, N | licrostegim | Umine |
| Aquatic Organisms Observed: (list) Small Fish Invasive and/or T&E Species Observed: (list) R DSA multiflora, Elacaquus unbellata Tributary is: (check and in that apply) Livestock Manure in access (check all that apply) Livestock access Stream Qualityb: (check one) High | Aquatic Habitats (ex: submerged or e | emerged aquatic vege | itation, overhanging banks/roo | ots, leaf packs, la | arge submerg | ged wood, riffles, deep pools | xcryps z | Jonerala |
| Invasive and/or T&E Species Observed: (<i>list</i>) R DSA multiflora, Elaeaquus umbellata Tributary is: (check one) Natural Artificial, man-made Manipulated Disturbances: (check all that apply) Livestock Manure in Waste discharge Other: (check all that apply) Livestock Manure in waterbody Pipes | Aquatic Organisms Observed: | | 3-111- | 0 | | | | teatron af the annual third survey and a state the states |
| North Function (Check one) Natural Artificial, man-made Manipulated Disturbances: (check all that apply) Livestock access Manure in waterbody Waste discharge pipes Other: Stream Qualityb: (check one) High Moderate Low | Thread out the species of the specie | bserved: | | , f. | | | | |
| Disturbances: (check all that apply) Livestock access Manure in waterbody Waste discharge pipes Other: Stream Qualityb: (check one) High Moderate Low | Tributary is: | hural [| Artificial man-may | | aninulator | | unani ang akang kang kang kang kang kang kang | n na ang ini Bara na mang karing ini Tang tang kang kang kang kang kang kang kang k |
| Stream Quality ^b : (check one) High Woderate TLow | Disturbances: (check all that apply) | estock [| Manure in waterbody | Waste of pines | discharge | Cther: | nin mananan dari da da da yang da yang da | |
| | Stream Quality ^b : | Jh | Moderate | Low | | | | |

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^a Connecting swales are water features that do not meet the definition of a waterbody (not an ephemeral waterbody) in that there is not a defined bed, bank, and ordinary high water mark, however, it is a water conveyance feature that is characterized by flow volume, frequency, and duration to make it more than just an erosional feature and connects two potential waters of the U.S. and thereby may be subject to Section 404 permitting.

^b High Quality: Natural channel, natural vegetation extends at least one or two active channel widths on each side; banks stable and protected by roots; water color is clear to tea-colored; no barriers to fish movement; many fish cover types available; diverse and stable aquatic habitat; no disturbance by livestock or man.

Moderate Quality: Altered channel evidenced by rip-rap; natural vegetation extends 1/3-1/2 of the active channel width on each side; filtering function or riparian vegetation only moderately compromised; banks moderately unstable; water color is cloudy, submerged objects covered with greenish film; moderate odor; minor barriers to fish movement; fair aquatic habitat; minimum disturbance by livestock or man.

Low Quality: Channel is actively down cutting or widening; rip rap and channelization excessive; natural vegetation less than 1/3 of the active channel width on each side; lack of regeneration; filtering function severely compromised; banks unstable (eroding); water color is muddy and turbid; obvious pollutants (algal mats, surface scum, surface sheen); heavy odor; severe barriers to fish movement; little to no aquatic habitat; severe disturbance from livestock or man.

Notes

Waterbody Sketch

Include north arrow, centerline, distance from centerline, photo locations, survey boundary, and unique IDs of associated features.

| والمحمد والمحمد المحمد المحمد والمحمد و | | |
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| | 5 m 6200 | |
| | Tron Tron | |
| | No contraction of the second s | |



Waterbody *swzg008* facing upstream



Waterbody *swzg008* downstream



Waterbody swzg008 facing upline cross stream
| aterbody Data Sheet | | | | | |
|---|--|---|---|---|--|
| Survey Description | na – | | ayor u yer vakil titkine takin ayo ki ka | | |
| roject Name: W | aterbody Name: | | Waterbody ID: | Da | ite: |
| DTI Supplu Hender | UNT TO DEPER | RUN | SWZGOO | 9 4 | 1/22/15 |
| State: County. | Company: | Crew Me | mber Initials: Pho | to ID(s): | |
| WV Wetzel | DDWEST | JD, | DB | | |
| Tract Number(s): | Milepost Entry: | Milepost Exit: | Associated Wetlar | id ID(s): | |
| 33-009-A034 | ND | NA | WWZG | $\infty 2$ | |
| Survey Type: check one) Centerline | Re-Route | Access Road | Other: | re Mockin | rabind Site |
| Physical Attributes | | | Ming and Street Manual Association of the second street and the second street and the second street as a second | | J |
| Stream Classification: check one) Ephemeral | | Perennial | an an a' sharadan a faran ƙwara ƙasar ƙ | | a yayan daga karang daga daga yang karang |
| Naterbody Type: | | | | 1 Oddana | anga matangga Palangga Salay Minanggangga Sa |
| | | Lake Conn | ecting swale * | | |
| Width: | tor: | e Shelving | Wrested | | Water |
| <u>15</u> ñ. | | pineterity | vegetation | (university of the second s | stairing |
| Height: <u>6</u> ft. Bent, ma missing | itted, or Wrack vegetation | Litter and debris | Abrupt plan community | change | Soil characteristic change |
| Width of Waterbody - Top of Bank to Top of Bank at Centerline: | Width of Waterbody - V Water Edge at Centerli | Vater Edge to ne: | Depth of Water a | t Centerline: | |
| 20 # | | ft | | 6 <u>ft</u> . | |
| Sinuosity: Water | velocity: | Bank height | | Bank slope | |
| (Approx. |) | Right: | ei. | Right: | 15 diagram |
| A Meandoring | $>2_{\rm fps}$ | L off: | IL. | l off | |
| | | | lft | | degrees |
| Qualitative Attributes | | | | | instant for the state of the st |
| Water Appearance: (check one) | Turbid Shee | n Surface | Algal C (mats | Other: | |
| Substrate: K Bedrock K Grav | el 🛛 Sand | X Silt/clay | Organic C |)ther: | |
| % of Substrate: $\frac{20}{5}\%$ $\frac{72}{5}$ | 2% 5% | 5% | % | | % |
| Width of Riparian Zone: Vegetative I | ayers: | ľ | X Shrubs: | 47000 (1120-0-000 (00-000 (00-000 (00-000 (00-000 (00-000 (00-000 (00-000 (00-000 (00-000 (00-000 (00-000 (00-0 | Herbs |
| 750 ft. Avg. DBH o | f Dominants: | <u>12</u> in. | feerer. | _in. | E |
| Dominant Bank Vegetation: (181) Plastances OCC, Don failing | , Acer negund | b, Rosa mi | ultifloroz, Lien | nium pur | rpureun |
| Aquatic Habitats (ex: submerged or emerged aqua | tic vegetation, overhanging banks/roc | ts, leaf packs, large submer | ged wood, riffles, deep pool | s): | |
| Aquatic Organism's Observed. (181) NDVE | | | | аронный Лансар, Косанць, на см., с жала у с жала на М | |
| Invasive and/or T&E Species Observed: (IIIII) Rosa multiflora | | delen ga fanter sy genere en sin de negeral de services y services y services y | | | ୧୦୦୦ ୧୬ ୫୦୦୩ ମଧ୍ୟ ଅନେକ ଅନେକ ଅନେକ ଅନେକ ଅନେକ ଅନେକ ଅନେକ ଅନେକ |
| Tributary Is: (cfieck one) Natural | Artificial, man-mad | le Manipulated | | n, Milan yang Milan Yang Kalila Jalap + 600 kanan ¹ 999 (kan M | |
| Disturbances: (check all that apply) Livestock access | Manure in waterbody | Waste discharge | Other: | NONE | |
| Stream Quality ^b : (check one) High | Moderate | Low | + ۵۰۰۰ میں بار در ایک م یریا السی و استی و ا | | |

| an en en an | a substantion of the local division of the l | | |
|---|--|------|----|
| Nate | rbo | dv I | D: |

WZ6009

^a Connecting swales are water features that do not meet the definition of a waterbody (not an ephemeral waterbody) in that there is not a defined bed, bank, and ordinary high water mark, however, it is a water conveyance feature that is characterized by flow volume, frequency, and duration to make it more than just an erosional feature and connects two potential waters of the U.S. and thereby may be subject to Section 404 permitting.

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Notes

Waterbody Sketch

Include north arrow, centerline, distance from centerline, photo locations, survey boundary, and unique IDs of associated features.





Waterbody *swzg009* facing upstream



Waterbody *swzg009* downstream



Waterbody swzg009 facing upline cross stream

Waterbody Data Sheet

| Survey De | escription | fri adalih sa ya Misang Pistangki | ᠳᢁᡣᠿ᠁ ᠳ᠆ᡄᡄ᠅ᠴ <mark>ᡇ</mark> ᠆ᡔ᠄ᡯᠫᡛᢒᡉᡄ᠆ᡣᢙᢩᡄᡦ᠆ᡠᡁᡂ᠆᠕ᡮᠥᠥ᠘᠁ | | ana ang ang ang ang ang ang ang ang ang | and a second set of the second set of the second | | |
|---------------------------------|--|-----------------------------------|---|-------------------|--|---|---|---|
| Project Nam | 8; | Waterbo | ody Name: | | (DCC/2 | Waterbody ID: | an a | Date: |
| DISUP | by Hender | Sou | th fork fa | SHING | (احليك الر | SWZG | ,003 | 4/22/15 |
| State: | County: | οαμα, αν <i>ίαι</i> επιπ | Company: | | Crew Mer | mber Initials: | Photo ID(s): | ₩ ₩₩ ₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩ |
| い V | Wetzel | | PDWEST | - | J.D. | DB | | |
| Tract Numbe | er(s): | | Milepost Entry: | Milepost E | xìt: | Associated We | etland ID(s): | |
| 33- | -011 | | NA | NK | £ | Non | ٤ | ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - |
| Survey Type (check one) | 2: | ne | Re-Route |] Access R | oad | C Other: | Acre Mach | Emplored Site |
| Physical <i>I</i> | Attributes | | | | | | | 9 |
| Stream Clas | ssification: | iral | Intermittent | Perennial | | | | |
| Waterbody | Stream R | ver | Ditch Ditch | Lake | Conne | ecting swale * | Other: | ويستخفون والمعاور والمعاول والمعاور والمعاور والمعاور والمعاور |
| OHWM Width: | (check all 1 | Indicator: hat apply) | Clear lin on bank | • 🆄 | helving | Wrestevegetat | d Scou ion | uring Water staining |
| Height: | | ent, matted, o ssing vegeta | or Wrack ation Wrack | | itter and lebris | Abrupt commu | plant [nity change | Soil characteristic change |
| Width of Wa Top of Banl | aterbody - Top of Bank to k at Centerline: | o W W | idth of Waterbody - V ater Edge at Centerli | Vater Edge ne: | to | Depth of Wa (Approx.) | ter at Centerlin / | 6; |
| | <u>(30 m</u> | | 100 | ft. | | | 6 | ft. |
| Sinuosity: (check one) | Straight | Water veloc (Approx.) | sity: | Bank h | eight Right: S | 2 | Bank slope Ri | ght: Do |
| | Nondarian | - | 75 _{fps} | | | <u>π</u> . | | <u><u><u>a</u></u> degrees</u> |
| | Meandering | ····· | | | Len: (| £ft. | | degrees |
| Qualitativ | ve Attributes | | | | | | | |
| Water Appe (check one) | Barance: No water | Clear 🛛 | Turbid Shee | en L | Surface scum | Algal [mats | Other: | |
| Substrate: (check all that a | Bedrock | Gravel | Sand | Silt/clay | |] Organic | Other: | |
| % of Subst | rate:% | 20% | 40% | 40 | % | % | | <u> </u> |
| Width of Ri | iparian Zone: Veget | ative Layer | | ~ | ĺ | X Shrubs: | | Herbs |
| - | (approx | .) | | <u> </u> | | nender | in. | |
| (list) | Bank Vegetation: | . 1 | 011 0. | | | 0 | | |
| Aquatic Ha | r negundo, la | | station overhandlag hanker | Mata | nus O | ccibbuto | RES, KIN | ex crispus |
| (IIST) P | the second s | | L L L | ols, ieai packs, | arge submer | gea wooa, nines, aee | h hoois). | |
| Aquatic Or | ganisms Observed: | 3 hee | + DANE | | North The Contraction of States | | | |
| (1151) | all fish. | tal | nales | | | | | |
| Invasive a | nd/or T&E Species Obse | rved: | | | | an a | 17 (m) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d | = #160==================================== |
| NZ | ME | | ····· | | | | | |
| Tributary is (check one) | s: Natura | ı [| Artificial, man-ma | te 🗌 M | anipulatec | 1 | | an a |
| Disturband (check all that | ces: apply) X Livesto access | ock | Manure in waterbody | Waste | discharge | | ther: | |
| Stream Qu (check one) | ialíty ⁵ : | | Moderate | Low | an a | | | , |

Form Rev. 2/21/2014

Waterbody ID:

SWZGOOZ

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Notes

Waterbody Sketch

Include north arrow, centerline, distance from centerline, photo locations, survey boundary, and unique IDs of associated features.

FISHING CREEK SWZGOO3 SOUTH FORK



Waterbody *swzg003* facing upstream



Waterbody *swzg003* downstream



Waterbody swzg003 facing upline cross stream

| Waterbody | Data | Sheet |
|-----------|------|-------|
| | | |

| Survey Description | ین بوده ایران این میراند. به میراند ایران میراند و با میرانید و برای این میراند ایران میراند ایران میراند و با | ĸŦĸĊĸĬŦŦŦŦŦ₩ŦĸĊĬĸŔŦŦĬĊijŔĬĊĬŔţĊĬĊĬijijŎŔĸĸĸĿĔĸĸĸŔŦ | | n an | n an |
|--|---|--|---|--|---|
| roject Name: | Waterbo | ody Name: | | Waterbody ID: | Date: |
| STISupply Hender | 2 UNT | TO SOUTH FO | TRIC PISHINC | SWZGOO | 4 4/22/15 |
| State: County: | | Company: | Crew Me | ember Initials: Photo | ID(s): |
| WV Wetzel | | DAVEST | - JD | , DB | |
| Tract Number(s): | a na 2011 in line ar ref view ge in 1 af re ann 27 a rang | Milepost Entry: | Milepost Exit: | Associated Wetland | (D(s): |
| 33-011 | | NA | NA | NONE | |
| Survey Type: check one) | nterline | Re-Route | Access Road | Cother: | e Mackingburd site |
| Physical Attributes | | | | | 90,972 |
| Stream Classification: | hemeral | Intermittent | Perennial | | |
| check one) | River | Ditch | Lake Con | necting swale * | Other: |
| IO MWHC | WW Indicator: | 57 7 1 | FALL | | |
| Width: | eor an matapply) | Clear li on ban | ine LiShelving Ik | vegetation | staining |
| Height: 0.5 ft. | Bent, matted, missing veget | or Wrack ation line | Litter and debris | Abrupt plant | Soil characteristic |
| Width of Waterbody - Top of B | ank to W | idth of Waterbody - | - Water Edge to | Depth of Water at ((Approx.) | Centerline: |
| | I V V | | . 4 | () provid | ft. |
| Sinuosity: | Water velo | city: | Bank height | Ba | ank slope |
| (check one) Straight | (Approx.) | - | Right: | 4 | Right: So doman |
| Maandaring | | $>2_{fps}$ | - | π. | |
| | | ······································ | L.ent: | <u>S</u> ft. | degrees |
| Qualitative Attributes | | | | | |
| Water Appearance: (check one) No water | Clear D | Turbid Tsh | een 🗍 Surface | Algal Oth | 10r: |
| Lernus | tread | on | surface scum | mats | |
| Substrate: Eedrock | Gravel | Sand | Silt/clay | Organic Otr | er: |
| % of Substrate: $\underline{30}$ % | 6 <u>60</u> % | 5_% | 5 % | % | % |
| Width of Riparian Zone: | Vegetative Layer (check all that apply) | | ann a an fair ann a' fachaigh dhe pholain ga cail bhaile a san Than a san a | Shrubs: | Herbs |
| > 2 <u>0</u> ft. | Avg. DBH of Dor (approx.) | ninants: | in. | <u>K</u> | 1. |
| Dominant Bank Vegetation: | na Acer | - recurdo | Elecaonu | sumbollat. | Durch lung acrost |
| Lonicera | aponica | -0- |) <u> </u> | j j | 19750 ichum a |
| Aquatic Habitats (ex: submerged) | or emerged aquatic veg | etation, overhanging banks/ | roots, leaf packs, large subm | erged wood, riffles, deep pools): | |
| Kittle, 20013 | | | | | an ya ya Managi ya kung managangangan ya sa si kata an kata an akata ya mana ya mana ya mana kata ya kata ya ka |
| (1161) A TAN K | 1; | | | | |
| Investive and/on TOP Creation | Obennedi | an a | ing ang distance of the state of the | Rughter Construction Construction | ann an gall fri ann a 1947 an 1947 ann an 1940 ann an 1940 ann an 1947 anns an anns ann an 1940 anns an 1940 an |
| (list) (alacanus // | unserved: | ā. | | | |
| Tributary is: (check one) | Vatural | Artificial, man-m | ade Manipulate | ed | |
| Disturbances: (check all that apply) | Livestock | Manure in waterbody | Waste discharg | ie 🕅 Other: | ipeline eresement |
| Stream Quality ^b : (check one) | High | Moderate | Low | , | • • •••••••••••••••••••••••••••••••••• |

Waterbody ID:

SIJZ(

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Notes

Waterbody Sketch

Include north arrow, centerline, distance from centerline, photo locations, survey boundary, and unique IDs of associated features.



Waterbody *swzg004* facing upstream



Waterbody *swzg004* downstream



Waterbody swzg004 facing upline cross stream

| urvey Description | | | | | | | | | ан 1917 - Э |
|---|-------------------------------|---------------------------------------|---------------------------------------|---|-------------------|--------------------------|--|--|------------------------|
| roject Name: | | Waterbody Na | me: | | Ĩ | Waterbody ID: | | Date: | در بر الجمع الحريم الم |
| DTI Supply t | londer | UNT TO SO | UTHFORK 13HING CI | REEK | | SWZG | 001 | 14/22/1 | 5 |
| tate: County: | _ | Comp | any: | | Crew Men | nber Initials: | Photo ID(s): | | |
| WV Wetz | 2e-1 | | JWESI | MilanastE | 197° | D.B. | atland (D(a)) | an a | |
| 33-011 | | wittep | | M T | n_ | Associated W | | | |
| <u>33 - 009 - A</u> jurvev Type: | 036 | / | UR | | AT | 1001 | | | |
| sheck one) | Centerline | Re-Ro | pute |] Access R | oad | Other: 10 | O Here M | locking bord | Site |
| hysical Attribute: | \$ | | | | | | | <u> </u> | |
| Stream Classification: check.one) | Ephemeral | | nittent 🕅 | Perennial | | alers, | | | |
| Vaterbody Type: ^{check one)} X S | tream 门 River | Ditch | Pond | Lake | Conne | ecting swale * | Other: | | |
| DHWM Width: L/ ft. | OHWM Ind (check all that e | icator: apply) | Clear lin on bank | е [] | Shelving | Wreste | d Sco tion | ouring Water staining | r ng |
| Height: <u>6"</u> ft. | Bent, missi | matted, or ng vegetation | Wrack line | | Litter and debris | | plant inity change | Soil characteris change | tic |
| Nidth of Waterbody - 1 Top of Bank at Centerl K | Fop of Bank to line: | Width of Water Ec | Waterbody - N Ige at Centerli 2 | Water Edge ne: | to | Depth of Wa (Approx.) | ter at Centerlir 2 ^{''} | ne: ft. | |
| Sinuosity: | | ter velocity: | | Bank h | eight | | Bank slop | 6 | |
| (check one) | ight (Ap) | rox.) | | 1 | Right: | 3 _{ft.} | R | ight: 90 degre | ees |
| X Mea | Indering | 22 | fps | | Left: | 2 | | Left: 90 | |
| Analisativa Attaila | | | | | | <u>ft.</u> | | degr | 208 |
| Water Appearance: | nes | | | | | | | Q. I. T | فالأذريه علا الجها |
| (check one) | Vo water 🔲 C | lear 🛛 Turbi | id Shee on s | en L | Surface | Algal mats | Other: | | |
| Substrate: X E | Bedrock 🕅 G | ravel | Sand | Silt/clay | y Ľ | Organic [| Other: | | |
| % of Substrate: | 70 % 7 | 20 % | 5% | 5 | . % | % | | <u> </u> | |
| Width of Riparian Zon | e: Vegetati | ve Layers: at apply) | Trees: | and and a state of the second s | ľ | Shrubs: | | Herbs | 3 |
| <u>250</u> tt. | Avg. DB | H of Dominants | ₩ ~~~~ \$: | <u>8</u> in. | 1é | | in. | hand | |
| Dominant Bank Veget | tation: | · · · · · · · · · · · · · · · · · · · | | | | | | 1.6 | |
| Acer negund | e, Elaeag | nus umbe | llata, R | ubus l | encod | brmis, G | eraniumm Rosn | multi Hors | |
| Aquatic Habitats (ex. s | submerged or emerged : | aquatic vegetation, ov | verhanging banks/ro | ots, leaf packs, | large submerg | ged wood, riffles, der | ap pools); | | |
| Aquatic Organisms O | bserved: | | | | | | | | |
| Invasive and/or T&E s (1/51) Rosa mul | Species Observe | d: | | | | | | | |
| Tributary is: (check one) | | Art | ificial, man-ma | de 🔲 N | lanipulated | 1 | 97 - Languar Arada Wagyin Cing Double Canada (19 | | confficientaio |
| Disturbances: (check all that apply) | Livestock access | Ma wa | inure in terbody | Waste | discharge | | ther: | E | |
| Stream Quality ^b : (check one) | Hiah | Пмс | oderate | Tlow | | | _ | | تىن بىر بىر سىرىيى |

Low

Moderate

Waterbody Data Sheet

High

Waterbody ID: Swz**G**00 | ^a Connecting swales are water features that do not meet the definition of a waterbody (not an ephemeral waterbody) in that there is not a defined bed, bank, and ordinary high water mark, however, it is a water conveyance feature that is characterized by flow volume, frequency, and duration to make it more than just an erosional feature and connects two potential waters of the U.S. and thereby may be subject to Section 404 permitting. ^b High Quality: Natural channel, natural vegetation extends at least one or two active channel widths on each side; banks stable and protected by roots; water color is clear to tea-colored; no barriers to fish movement; many fish cover types available; diverse and stable aquatic habitat; no disturbance by livestock or man. Moderate Quality: Altered channel evidenced by rip-rap; natural vegetation extends 1/3-1/2 of the active channel width on each side; filtering function or riparian vegetation only moderately compromised; banks moderately unstable; water color is cloudy, submerged objects covered with greenish film; moderate odor; minor barriers to fish movement; fair aquatic habitat; minimum disturbance by livestock or man. Low Quality: Channel is actively down cutting or widening; rip rap and channelization excessive; natural vegetation less than 1/3 of the active channel width on each side; lack of regeneration; filtering function severely compromised; banks unstable (eroding); water color is muddy and turbid; obvious pollutants (algal mats, surface scum, surface sheen); heavy odor; severe barriers to fish movement; little to no aquatic habitat; severe disturbance from livestock or man. Notes Waterbody Sketch Include north arrow, centerline, distance from centerline, photo locations, survey boundary, and unique IDs of associated features. 12600 24-ULVERT HWY Genevert South FORK FISHING CREEK



Waterbody *swzg001* facing upstream



Waterbody *swzg001* downstream



Waterbody swzg001 facing upline cross stream

| Waterbody I | Data Sheet |
|-------------|------------|
|-------------|------------|

| Survey Description |) , | ۵ | αφη τοπολογίαται από το που τη τη τότη το Ποδιαματί Το Έγιαμαγία το ματρά Πογια. Το ποριατικό που τη | | | an a |
|--|-----------------------------|---|---|---|--|--|
| roject Name: | | Waterbody Name: | an an an 22 ann an 26 an an 26 an Anna an 26 an an 26 an Anna an 26 an Anna an Anna an Anna an Anna an Anna an | Waterbody ID: | a, <u>1999 - 1999</u> - 1997 - 19 | Date: |
| VI Sugal Ila | u Co co | UNT TO SOUTH | FORK | SWZGC | 02 | 4/22/15 |
| tate: County: | r r | Company: | Crew Me | ember Initials: | Photo ID(s): | |
| UV/1.2h | | DDWEST | - JD. | DB. | | |
| ract Number(s): | . | Milepost Entry: | Milepost Exit: | Associated We | etland ID(s): | |
| 33-011 | • | NA | NA | | MIC | |
| <u>33-004-A0.</u> | <u>Sc</u> | | | <u> </u> | ONC | دور بالمرجول الروسيون المرجول |
| heck one) | Centerline | Re-Route | Access Road | Other: | Acre Ma | Kingburd Site |
| Physical Attribute: | | مرون المرون ا | an Pilo Administrativa da Calego a Marco da Manterio da Manterio da Manterio da Marco da Marco da Marco da Marc | ur vonageskihn al i to-aanja fijna ta'naa navali tajajajak | | · · |
| tream Glassification: | Ephemeral | Intermittent | Perennial | | - Min-Minor Minor Manager Langer | |
| check one) | tream 🛄 Rive | r Ditch Pond | Lake Conr | necting swale ^a | Other: | |
| Width: 4 | OHWM Inc (check all that | dicator: apply) KClear on ba | line Shelving | K Wrestervegetat | ion K Sco | ouring Water staining |
| Height: | [_]Bent missi | , matted, or Wrac ing vegetation | k Litter and debris | Abrupt | plant nity change | Soil characteristic change |
| Nidth of Waterbody - 1 | op of Bank to | Width of Waterbody | - Water Edge to | Depth of Wa | ter at Centerlin | 16: |
| | nie, | water Edge at Cente | erine: | ((Approx.) | 1" | 6 4 |
| | ft. | | ft. | C Order & Community of College and Constants of Co | Bank clor | II. |
| check one) | (Ap | prox.) | Right: | | R R | ight: Cr |
| ୍ରୁ ତାକ୍ଷା | Gur | < 1 | | <u> </u> | | $\frac{OO}{OO}$ degrees |
| Mea | ndering | fps | Left: - | <u>2</u> _{ft.} | | Left:70_degrees |
| Qualitative Attribu | ites | | | | | |
| Water Appearance: (check one) | lo water | Clear 🕅 Turbid 🔲 SI | heen Surface | Algai [mats | Other: | |
| Substrate: | Bedrock 🕅 G | Gravel 🕅 Sand | X Silt/clay | Organic | Other: | |
| % of Substrate: | $\omega 0 \% = \frac{1}{2}$ | 35 % 2 % | 3 % | % | | <u> </u> |
| Width of Riparian Zon | e: Vegetat | Ive Layers: | | TT Charles | | |
| 7 <u>50</u> ft. | Avg. DB (approx.) | H of Dominants: | <u>10</u> ín. | | in. | riends . |
| Dominant Bank Veget | ation: | as, Cornus Abr | ida, Elazagn | es umbella | ta Polys | Hichum acrostoide |
| Aquatic Habitats (ex: si | ubmerged or emerged | aquatic vegetation, overhanging banks | s/roots, leaf packs, large subme | arged wood, riffles, dee | p pools): | ىرى بەر بىرىمىيە بىرىمىيە بىرىمىيە بىرىمىيە بەر يېرىمىيە تەرىپىلەر تەرىپىلەر تەرىپىيە تەرىپىيە بىرىمىيە بىرىمىي تەرىپىيە بىرىمىيە بىرىمىيە بىرىمىيە بىرىمىيە بىرىمىيە بىرىمىيە بىرىمىيە تەرىپىيە تەرىپىيە بىرىمىيە بىرىمىيە بىر |
| rittle, po | ols | | | | | |
| Aquatic Organisms O | bserved: | | ی در این می این می این می این می این می این می این می این می این م این این این این این این این این این این | Ů ^ĸ Ŧĸĸĸĸ ^ĸ ĦĸĸŗĸŢĦĔſĬĸĸŗŊĬĔĬĊĸġŊĬĬŶŎŔIJĬĸĊĸŢĸŢĿĿĸ | | <u></u> |
| NONE | | | | | | |
| Invasive and/or T&E \$ | species Observe | ed: ata | | aranan (Jana) | a faith an faith an | |
| Tributary is: (check one) | | Artificial, man-r | nade 🛄 Manipulate | ed | ىرى يەرىپىرىغى بىرى يەرىپىرى بىرىغىرىغى يەرىپى يەرىپىرىغى يەرىپىرىغى يەرىپىرىغى يەرىپىرىغى يەرىپىرىغى يەرىپىرى | |
| Disturbances: (check all that apply) | Livestock | Manure in waterbody | Waste discharg | | her: Q | ent/Site Decreba |
| Stream Quality ^b : (check one) | Hiah | Moderate | TLow | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | | |

Waterbody ID:

(WZ6007

^a Connecting swales are water features that do not meet the definition of a waterbody (not an ephemeral waterbody) in that there is not a defined bed, bank, and ordinary high water mark, however, it is a water conveyance feature that is characterized by flow volume, frequency, and duration to make it more than just an erosional feature and connects two potential waters of the U.S. and thereby may be subject to Section 404 permitting.

^b High Quality: Natural channel, natural vegetation extends at least one or two active channel widths on each side; banks stable and protected by roots; water color is clear to tea-colored; no barriers to fish movement; many fish cover types available; diverse and stable aquatic habitat; no disturbance by livestock or man.

Moderate Quality: Altered channel evidenced by rip-rap; natural vegetation extends 1/3-1/2 of the active channel width on each side; filtering function or riparian vegetation only moderately compromised; banks moderately unstable; water color is cloudy, submerged objects covered with greenish film; moderate odor; minor barriers to fish movement; fair aquatic habitat; minimum disturbance by livestock or man.

Low Quality: Channel is actively down cutting or widening; rip rap and channelization excessive; natural vegetation less than 1/3 of the active channel width on each side; lack of regeneration; filtering function severely compromised; banks unstable (eroding); water color is muddy and turbid; obvious pollutants (algal mats, surface scum, surface sheen); heavy odor; severe barriers to fish movement; little to no aquatic habitat; severe disturbance from livestock or man.

Notes

Waterbody Sketch

Include north arrow, centerline, distance from centerline, photo locations, survey boundary, and unique IDs of associated features.





Waterbody *swzg002* facing upstream



Waterbody *swzg002* downstream



Waterbody swzg002 facing upline cross stream

Waterbody Data Sheet

| Survey Description | | | | | an ng dan kanangang panangan na sang pangang pangang pangang pangang pangang pangang pangang pangang pangang pa T |
|--|--|---|---|--|--|
| Project Name: | Waterbody Name: | ana ja marta ana aka mpina ana mpina mana mana mana mana ana a | Waterbody ID: | | Page 4 |
| DTI Supply Hender | UNT TO UPPER RUI | V | SWZGO | 507 | L1(22/15 |
| WV 11197781 | Company: | Crew Me | mber Initials: | Photo ID(s): | |
| Tract Number(s): | DDWEST | JD, | DB | | |
| 33-011 | Nilepost Entry: Mil | epost Exit: | Associated We | tland ID(s): | na ya ana ana ana ana ana ana ana ana an |
| <u>33-009-14034,33-00</u> Survey Type: | 1-4036 1014 | IVA | NON | ٤ | |
| (check one) Centerline | Re-Route Ac | cess Road | Other: | Acre Mock | inatural Site |
| Physical Attributes | | | a in an ann an a | Construction of the second | J |
| Stream Classification: (check one) Ephemeral | | rennial | алан алуун аулаа сайтай та уургаа дагуулуу уулага сайт | | |
| (Check one) | Ditch Pond | Lake | cting swale * | Other: | |
| OHWM OHWM India | ator: | Portan - | | and a second | |
| Width: | clear line on bank | Shelving | Wrested vegetatio | n Scourin | g Water staining |
| Width of Waterbody - Top of Bank to | Natted, or Wrack | Litter and debris | Abrupt pla communi | ant D | Soil characteristic change |
| Top of Bank at Centerline: | Water Edge at Centerline: | Edge to | Depth of Wate (Approx.) | r at Centerline: | an a |
| ft. | <u> </u> | | | 2" _{ft.} | |
| Check one) (Appro | r velocity: B | ank height | | Bank slope | |
| Straight | 17 | Right: 2 | 7 一 _能 | Right: | (0) domas |
| X Meandering | <u> </u> | Left: 🔿 | | Left | degrees |
| Qualitative Attributes | | | <u>ft.</u> | | <u> </u> |
| Water Appearance: | and a sub- of the state of the sub-state of the sub- | | | | |
| (check one) No water Clea | r X Turbid Sheen on surface | Surface scum | Algai mats | Other: | |
| Substrate: 🛛 🕅 Bedrock 🛛 Grav | rel 🛛 Sand 🖾 Si | it/clay | Drganic | Other: | |
| % of Substrate: 35 % 50 |) % () % <u>-</u> | - | 07 | | |
| Width of Riparian Zone: Vegetative | ayers: | 70 | % | | % |
| 250 ft. Avg. DBH o | f Dominants: | ín. | Shrubs: | _ in, | Herbs |
| Dominant Bank Vegetation: (161) Platenus occidentalis, | Acer negundo, Po | pulus del | Hordes, 7 | Frilliumg | mad.flora |
| Aquatic Habitats (ex: submerged or emerged aquat | ic vegetation, overhanging banks/roots, leaf p | acks, large submerged v | Nood, riffles, deep poo | ophylun p | peltntum |
| Aquatic Organisms Observed: | | and a constant of the second state of the second state of the second state of the second state of the second st | n fan de ferste skriver oan de ferste skriver op de fananske skriver fan skriver op de fananske skriver af de f | | |
| nvasive and/or T&E Species Observed: ^{1/60} ROSA multitura | | | | | |
| ributary is: X Natural | Artificial, man-made | Manipulated | n - Y. Sala ang a sala ya manaka ina manaka ina ma | | |
| Jisturbances: heck all that apply) Livestock access | Manure in waterbody | ste discharge | Other: | 65 7 | |
| itream Quality ^b : <i>check one)</i> High | Moderate Lov | | | | |

| | Waterbody ID: らいてGOO7 |
|--|---|
| ^a Connecting swales are water features that do not meet the definition of a waterbody (not an ephemeral w and ordinary high water mark, however, it is a water conveyance feature that is characterized by flow volume an erosional feature and connects two potential waters of the U.S. and thereby may be subject to Section 40 | vaterbody) in that there is not a defined bed, bank, p, frequency, and duration to make it more than just 04 permitting. |
| ^b High Quality: Natural channel, natural vegetation extends at least one or two active channel widths roots; water color is clear to tea-colored; no barriers to fish movement; many fish cover types availab disturbance by livestock or man. | on each side; banks stable and protected by le; diverse and stable aquatic habitat; no |
| Moderate Quality: Altered channel evidenced by rip-rap; natural vegetation extends 1/3-1/2 of the a function or riparian vegetation only moderately compromised; banks moderately unstable; water colo greenish film; moderate odor; minor barriers to fish movement; fair aquatic habitat; minimum disturba | ictive channel width on each side; filtering or is cloudy, submerged objects covered with ance by livestock or man. |
| Low Quality: Channel is actively down cutting or widening; rip rap and channelization excessive; nat channel width on each side; lack of regeneration; filtering function severely compromised; banks uns turbid; obvious pollutants (algal mats, surface scum, surface sheen); heavy odor; severe barriers to fi severe disturbance from livestock or man. | tural vegetation less than 1/3 of the active stable (eroding); water color is muddy and ish movement; little to no aquatic habitat; |
| Notes | |
| | · . |
| | |
| Waterbody Sketch Include north arrow, centerline, distance from centerline, photo locations, survey boundary, and unique ID | Ds of associated features |
| NA Storago Row N AL | |
| 53250 | |
| | |

1



Waterbody *swzg007* facing upstream



Waterbody *swzg007* downstream



Waterbody swzg007 facing upline cross stream

| Naterbody Data Sheet | | | | | | | |
|--|---|--|--|--------------------------------|--|--|--|
| Survey Description | 1 | na forun de l'anne anna anna an Càir an Càir ann an Anna anna an an Anna anna | | | an a | | |
| Project Name; | Waterb | ody Name: | and the substrate strategy of the subscription | | Matoub a du ID. | a and a subscription of the subscription of th | a a faith and the set of the |
| DTT Supply Hender | 00 | TO LOWE | r run |) | SWZG(| 700 | Date: |
| State: County: | er or an and a second secon | Company: | | Crew Mei | nber Initials: | hoto ID(s) | 1/22/13 |
| WV Wetzel | | DOWEST | | th a |)B | | |
| 73-01) 33-009-1 | 4035 | Milepost Entry: | Milepost E | $\frac{2}{xit}$ | Associated We | tland ID(s): | an da manana karang mangar mangar pada da manganang an ing panganang sa ing panganang sa ing panganang sa ing p |
| 33-009-A034 | | NA | $ \mathcal{N} $ | 74- | NOT | VE. | |
| Survey Type: (check one) | ine | Re-Route | Access R | bad | Other: | <u>σ</u> 1Δ/ | |
| Physical Attributes | a fallen og en sterne i men forsen fan sterne of state | Palakon ya Angeron, Ingeron, | an mar i an geologi ar an ann | and a summary states and a sum | <u>l</u> OL | Here W | locking bird Si |
| Stream Classification: | ind it | | | - | | arana, canana kalengipatra 1. antara ya katang k | |
| Waterbody Type: | anan M | Intermittent | Perennial | | | | |
| (^{check one)} X Stream | liver | itch Pond | Lake | Conne | cting swale * | Other: | |
| Width: 3 ft. | that apply) | Clear line on bank | e []s | nelving | Wrested | | ring Water |
| Height: <u>ft.</u> Width of Weight | ent, matted, or ssing vegetati | on KWrack | | ter and bris | Abrupt pla | ant | Soil characteristic |
| Top of Bank at Centerline: | D Wid Wat | th of Waterbody - W er Edge at Centerlin | /ater Edge t | 0 | Depth of Wate | at Centerline | cust) û e |
| <u> </u> | | 1 | ft. | | | I'' | 6 . |
| Sinuosity: check ane) | Nater velocit | y: | Bank hei | ght | | Bank slope | IL. |
| Straight | 1.1 | 11 | RI | ght: 6" | 64 | Rig | ht: 15 |
| | - | fps | 1 | .eft: , | | | degrees |
| Qualitative Attributes | | | | 6 | <u> </u> | | IS_degrees |
| Nater Appearance: | a a far a | | | | | | |
| sheck one) No water | Clear | Furbid Sheen on surf | face s | urface | Algai mats | Other: | ander an |
| Substrate: K Bedrock | Gravel | Asand P | Silt/clay | | Drganic [] | Other: | |
| 6 of Substrate: <u>10</u> % | 70% | (0 % 7 | ro " | | <u>.</u> | | |
| Vidth of Riparian Zone: Vegeta | tive Layers: | | 70 | | % 1 | | ·% |
| <u>750</u> ft. Avg. DI (approx.) | BH of Domina | ants: | in. | K | Shrubs: | _ in. | Herbs |
| Ominant Bank Vegetation: | ola rotu | ndi folice, Carol | Amine | bul | bosa, | Cercis | candensis |
| quatic Mabitats (ex: submerged of emerged | l aquatic vegetatic | n, overhanging banks/roots, | leaf packs, large | submerged v | vood, riffles, deep poo | ls): | |
| quatic Organisms Observed: | | 19 - Zarmany Lange, Victor Victoria y an dia dia 2014 metatra dia 4000 metatra. | | ******* | | | |
| Ivasive and/or T&E Species Observe | ad: | | | | | | |
| 10 POBEE ROSA | melti | flons | | | | China and a state of the state | antiki pingata, Umaran, mangaran d <u>anamining pana</u> ing pangangan pangangan pangangan pangangan pangangan pangang |
| ributary is: heck one) Natural | Π, | Artificial, man-made | Manip | ulated | in an fairt a fairt a chuir ann an ann an fairt an chuir | | |
| Isturbances: Teck all that apply) Livestock access | | Manure in | Waste disc | narge | Other: | A 17D | NF |
| tream Quality ^b : teck one) X High | | Noderate | Low | | | | |

Waterbody ID: WZGOD * Connecting swales are water features that do not meet the definition of a waterbody (not an ephemeral waterbody) in that there is not a defined bed, bank, and ordinary high water mark, however, it is a water conveyance feature that is characterized by flow volume, frequency, and duration to make it more than just an erosional feature and connects two potential waters of the U.S. and thereby may be subject to Section 404 permitting. ^b High Quality: Natural channel, natural vegetation extends at least one or two active channel widths on each side; banks stable and protected by roots; water color is clear to tea-colored; no barriers to fish movement; many fish cover types available; diverse and stable aquatic habitat; no disturbance by livestock or man. Moderate Quality: Altered channel evidenced by rip-rap; natural vegetation extends 1/3-1/2 of the active channel width on each side; filtering function or riparian vegetation only moderately compromised; banks moderately unstable; water color is cloudy, submerged objects covered with greenish film; moderate odor; minor barriers to fish movement; fair aquatic habitat; minimum disturbance by livestock or man. Low Quality: Channel is actively down cutting or widening; rip rap and channelization excessive; natural vegetation less than 1/3 of the active channel width on each side; lack of regeneration; filtering function severely compromised; banks unstable (eroding); water color is muddy and turbid; obvious pollutants (algal mats, surface scum, surface sheen); heavy odor; severe barriers to fish movement; little to no aquatic habitat; severe disturbance from livestock or man. Notes Water ody Sketch Include porth arrow, centerline, distance from centerline, photo locations, survey boundary, and unique IDs of associated features. 10031

Swzg007 intermittent



Waterbody *swzg007 intermittent* facing upstream



Waterbody *swzg007 intermittent* downstream

Swzg007 intermittent



Waterbody swzg007 facing upline cross stream

| Waterbody Data Sheet | | | | | | |
|--|--|--|--|--|---|---|
| Survey Description | | | | | | |
| Project Name: | Waterbo | ody Name: | inan an Mangala Kalang Propinsi Kalang Kalang Kalang | Waterbody ID | | Date: |
| DTI Supply Hender | UNT | TO UPPER RL | N | SWZG | ,00 (| 4/22/15 |
| | | Company: | Crew | Member Initials: | Photo ID(s): | |
| WV Wetzel | | DDWEST | 20 | D, DB | | |
| 1ract Number(s): 33-009-40 | 34 | Milepost Entry: | Milepost Exit: | Associated W | etland ID(s): | angen) pie fant we genante die oore en die 1-40 aante die die eerste gena |
| 53-011 33-009-40 Survey Type: | -35 | NA | NA | WWZC | -001e | \sim |
| (check one) | e 🗍 | Re-Route | Access Road | Other: | Aero Mod | Lingbird Site |
| Physical Attributes | | | | an a | | J |
| Stream Classification: (check one) | al 门 | Intermittent | Perennial | | n yn af Bale, waarin y de lat yn de lat yn de lat Barwer yn Angyng affi | |
| (Check cne) | er [][| Ditch Pond | Lake CC | onnecting swale * | Other: | |
| OHWM OHWM Ir Width: | ndicator: at apply) | Clear line | Shelvir | ng Wrested | Scou | ring Water |
| Height: | t, matted, or | r Wrack | Litter a | nd Abrupt p | on 👘 | Soil characteristic |
| Width of Waterbody - Top of Bank to | Wic | ion line Ith of Waterbody - W | debris ater Edge to | Commun | nity change | change |
| I op of Bank at Centerline: | Wa | ter Edge at Centerlin | e: | (Approx.) | | |
| Sinuosity: | atervelocit | <u> </u> | ft. | | <u> </u> | ft. |
| (check one) (A) | pprox.) | ty. | Bank height Right: | 1 | Bank slope | ht |
| 17X1 Meandaring | > | >Z_fps | | | | TO degrees |
| | | | Left: | <u> </u> | Le | eft: <u>&</u> degrees |
| Qualitative Attributes | | | | | | |
| (check one) | Clear 🕅 | Turbid Sheen on sur | face scum | ce Algal mats | Other: | |
| Substrate: Bedrock | Gravel | Sand X | Silt/clay | Organic | Other: | |
| % of Substrate: _[0_% | 5 % | 10 % | \leq $_{\circ\prime}$ | 0/ | | |
| Width of Riparian Zone: Vegetati | ve Layers: | <u>~</u> | // | <u> </u> | a na ann an Aonaichtean an Aonaichtean an Aonaichtean an Aonaichtean an Aonaichtean an Aonaichtean an Aonaichte | % |
| <u>750</u> ft. Avg. DB (approx.) | H of Domin | ants: |) in. | Shrubs: | in. | Herbs |
| Dominant Bank Vegetation: (151) PLAFAMUS OCCIDENTAL | s, Pode | phylleim pe | (tratium, A | cer regund | o, Phlox a | aroliniana |
| Aquatic Habitats (ex: submerged or emerged a | aquatic vegetati | on, overhanging banks/roots, | leaf packs, large subm | U erged wood, riffles, deep p | ools): | |
| Aquatic Organisms Observed: | an a | Med geläkken en er och Kankley - versen köndalar i Angel Chymer Amerika. | | | | |
| NONE | | | | | | |
| (1/si) Rosa nulfif | d: lota | | ************************************** | an fill a suit of the suit | n ann an tha ann ann an tha ann an | |
| Tributary is: (check one) XNatural | | Artificial, man-made | Manipulate | 2d | 2015 Mg 1994 yang 2010 kang panahad _{an} mangkang pang | |
| (check all that apply) | | Manure in waterbody | Waste discharg | e Other | · · · | |
| Stream Quality ^b : (check one) High | R | Moderate | Low | | | |
| | | | | | | |

Waterbody ID: SWZGOD6 * Connecting swales are water features that do not meet the definition of a waterbody (not an ephemeral waterbody) in that there is not a defined bed, bank, and ordinary high water mark, however, it is a water conveyance feature that is characterized by flow volume, frequency, and duration to make it more than just an erosional feature and connects two potential waters of the U.S. and thereby may be subject to Section 404 permitting. * High Quality: Natural channel, natural vegetation extends at least one or two active channel widths on each side; banks stable and protected by roots; water color is clear to tea-colored; no barriers to fish movement; many fish cover types available; diverse and stable aquatic habitat; no disturbance by livestock or man. Moderate Quality: Altered channel evidenced by rip-rap; natural vegetation extends 1/3-1/2 of the active channel width on each side; filtering function or riparian vegetation only moderately compromised; banks moderately unstable; water color is cloudy, submerged objects covered with greenish film; moderate odor; minor barriers to fish movement; fair aquatic habitat; minimum disturbance by livestock or man. Low Quality: Channel is actively down cutting or widening; rip rap and channelization excessive; natural vegetation less than 1/3 of the active channel width on each side; lack of regeneration; filtering function severely compromised; banks unstable (eroding); water color is muddy and turbid; obvious pollutants (algal mats, surface scum, surface sheen); heavy odor; severe barriers to fish movement; little to no aquatic habitat; severe disturbance from livestock or man. Notes Waterbody Sketch Include north arrow, centerline, distance from centerline, photo locations, survey boundary, and unique IDs of associated features.



Waterbody *swzg006* facing upstream



Waterbody *swzg006* downstream



Waterbody swzg006 facing upline cross stream

| Naterbody D | ata Sheet | | | | | | | |
|--|-------------------------|--|---|---|--|--|---|---|
| Survey Desci | ription | 1. | | dang Group Court has the other | | | an a | |
| Project Name: | | Waterb | ody Name: | | Cruster, States to Antonio and | Waterbody ID: | a a hindu that a state of the second seco | Date |
| Di supply Hender | | | UNT | | | 51.170 | 0 f (| 11/22/10- |
| State: Cour | nty: | and a second | Company: | | Crew Me | mber Initials: | hoto ID(s). | 4/24/15 |
| WV Wetzel | | | DOWEST TO | | | NR | | |
| Tract Number(s): | : | ning in the subscription with the second state | Milepost Entry: | Milepost | xit: | Associated We | fland ID(s). | |
| 33-009 | -4034 | | NA | N | K | NON | JE. | |
| Survey Type: | 1274 | | | and and the foreign and the second | | | and the second se | |
| (| Cente | rline | Re-Route | Access R | oad | Other: | ~ A | ALL De |
| Physical Attri | butes | an a | na na shekara na shekara na shekara na shekara ka shekara shekara shekara k | an an ann an | | <u> </u> | O acre 1 | Mockingbird >r |
| Stream Classifica | ation: | H | | | dan bilan ar af an an an an an | | and the second | |
| Naterbody Type: | Ephen | neral K | Intermittent | Perennial | | | | |
| (check one) | Stream | River | Ditch Pond | Tlaka | | | | |
| DHWM | OHWM | / Indicator: | hanced . | have build | | ecting swale * | Other: | |
| Width: L | (check a) | I that apply) | Clear lin | ie Ts | helvina | M/reetod | 1751 | |
| | _ft. | | on bank | | n - g | vegetatio | | ring Water staining |
| Height: | ft. | lent, matted, or hissing vegetat | | | tter and | Abrupt pl | ant 🔽 | Soil characteristic |
| Vidth of Waterbo | dy - Top of Bank | to Wid | th of Waterbody - V | Vater Edge (| ebris | communi | y change | change |
| op of ball(at Ge | enterline: ¢ | Wa | ter Edge at Centerli | ne: | | (Approx.) | at Centerline | |
| inuosity: | <u> </u> | hov-4 | | ft. | | | - | ft. |
| heck one) | Straight | (Approx.) | ty: | Bank he | ght | | Bank slope | |
| hand . | Shaight | | 11 | Ri | ght: | ft. | Rig | ht: 35 to |
| M | Meandering | _ | fps | 1 | | | | degrees |
| Malitativo Att | rihustaa | | | | 1 | ft. | fea t | $\frac{55}{\text{degrees}}$ |
| Vater Appearance | a: | · | | | | | | |
| heck one) | No water | Clear | Turbid Sheer | n M | Surface | | Ohle | nage an an an an a sharehouse a star and a star and a share a s |
| | L/ | and a survey of the factor of the survey | on su | rface s | cum | mats | Other: | |
| ubstrate: | X Bedrock | Gravel | X Sand | Silt/clay | П | Draanio [7] | Other | |
| of Substrata | $\beta \gamma$ | 27 | ~~~ | ~ | bangal • | arganic Land | | |
| idth of Riparian | Zone: Veget | 20% | <u> </u> | <u> </u> | | % | | |
| > | (check a | I that apply) | Trees: | | \overline{N} | Shrubs | an a | |
| <u> </u> | · Avg. E (approx.) | BH of Domin | ants: | <u>8</u> in. | | 3 | in | |
| ominant Bank Ve | getation: | 1 1 | | | (1 | 01 | (i), | |
| Flor Flor | Polan, Pola | ysticken | acrostoral | s, Tal | hum 5 | rand. flore | , Rosn | multi flora |
| uatic Habitats | ex: submerged or emerge | d aquatic vegetatic | n, overhanging banks/roots | , leaf packs, large | Submerged | Wood riffico dinamina | / | |
| Riffle, p. | od | | | | oubinoigeu i | wood, nilles, deep poo | s): | |
| uatic Organisms | s Observed: | | | | | ferden av synaktionen og stør og for ander og fa Gammania av Art om | | |
| NOR | - | | | | | | | |
| asive and/or T& | E Species Observ | red: | | ****** | | | | |
| Kusa mu | He Hong | | | | | | | |
| butary is: eck one) | | [] | A. 110-1 | لسحما | and a state of the | a and for a line of the second se | | |
| | Ka warua! | | Artificial, man-made | Manip | ulated | | | |
| sturbances: | | | | | | - A MARKET TO THE REAL PROPERTY OF THE REAL PROPERT | | |
| sturbances: >ok all that apply) | Livestoc | · [] | Manure in | Waste disc | harge | Other | | |
| sturbances: ^{90K all that apply)} 'eam Quality ^b : | Livestoci access | < [] | Manure in Waterbody | Waste disc | harge | Other: | NONE | |

| | Waterbody ID: |
|--|---|
| | SWZGOOG |
| ^a Connecting swales are water features that do not meet the definition of a waterbody (not an ephemeral w and ordinary high water mark, however, it is a water conveyance feature that is characterized by flow volume an erosional feature and connects two potential waters of the U.S. and thereby may be subject to Section 4/ | vaterbody) in that there is not a defined bed, bank, a, frequency, and duration to make it more than just 04 permitting. |
| ^b High Quality: Natural channel, natural vegetation extends at least one or two active channel widths roots; water color is clear to tea-colored; no barriers to fish movement; many fish cover types availab disturbance by livestock or man. | on each side; banks stable and protected by ble; diverse and stable aquatic habitat; no |
| Moderate Quality: Altered channel evidenced by rip-rap; natural vegetation extends 1/3-1/2 of the a function or riparian vegetation only moderately compromised; banks moderately unstable; water colo greenish film; moderate odor; minor barriers to fish movement; fair aquatic habitat; minimum disturb; | active channel width on each side; filtering or is cloudy, submerged objects covered with ance by livestock or man. |
| Low Quality: Channel is actively down cutting or widening; rip rap and channelization excessive; na channel width on each side; lack of regeneration; filtering function severely compromised; banks uns turbid; obvious pollutants (algal mats, surface scum, surface sheen); heavy odor; severe barriers to severe disturbance from livestock or man. | itural vegetation less than 1/3 of the active stable (eroding); water color is muddy and fish movement; little to no aquatic habitat; |
| Notes | |
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| Include north arrow, centerline, distance from centerline, whoto locations, survey boundary, and unique (| Pr of opposited feetures |
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| (OWZGOOI | |

Swzg006 intermittent



Waterbody *swzg006 intermittent* facing upstream



Waterbody *swzg006 intermittent* downstream

Swzg006 intermittent



Waterbody swzg006 facing upline cross stream
| Naterbody Dat | a Sheet | | | | | | | | | |
|--|---------------------------------------|--|---|--|--|--|--|---|--|--|
| Survey Descrip | otion | | Normal Contract Contract of the Contract Contract Contract On Contract On Contract On Contract On Contract On C | and a state of the | | | 9-262-994-994-994-99-99-994-99-9-99-99- | | | |
| Project Name: | | Waterb | ody Name: | | ينا تلكي هاريدين المالي المالية المالية | 10/m (| | · . | | |
| DTISUDALI | DTI Supply House | | | ANT TO LIDER DUAL | | | Waterbody ID: Date: | | | |
| State: County | Herociz | | Company' | | 50. 10 10 10 10 10 10 10 10 10 10 10 10 10 | SWZG | 005 | 4/22/15 | | |
| WV We | tzel | | Chiller | - | Crew Mei | mber Initials: P | hoto ID(s): | ne to basin last das un provinse "parantes denomina transformationen den esta angen | | |
| Tract Number(s): | | | DDWEDI | 10.000 | JD'I | DB | | | | |
| 33-01(| | | ITA | Willepost Ex | (it: | Associated Wet | and ID(s): | n han an a | | |
| Survey Type | | | MA | NK | f | NONS | | | | |
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| Obvioint Ast. | | | | | au | | fore Moc | kinghood Su | | |
| -nysical Attribu | ltes | | | | | a ha ann an Shina an | | <u>anguna pr</u> | | |
| check.one) | Dn: | al 🗍 | | 1 | | and a second | | a bar an | | |
| Vaterbody Type: | | | | Perennial | | | | | | |
| | Stream Riv | er 🔲 D | itch 📘 Pond | Lake | Conned | cting swale * | Other: | | | |
| HWM | OHWM Ir | idicator: | | | | | | | | |
| Width: | (check all the | at apply) | Clear lin | e 门 Sh | elving | 大Wrested | Scour | | | |
| Height: | t. Internetion | | on bank | E-area) | | vegetation | | staining | | |
| ft | | t, matted, or sing vegetati | on Wrack | Litt dat | er and | Abrupt plai | nt 🔽 | Soil characteristic | | |
| /idth of Waterbody op of Bank at Cent | - Top of Bank to | Wid | th of Waterbody - V | Vater Edge to | 118 | Community | change | change | | |
| 1 | | VVat | er Edge at Centerli | ne: | | (Approx.) | ar Genternue: . // | | | |
| nuosity: | <u> </u> | | 3 | _ ft. | | | <u> </u> | | | |
| neck one) | raight (Ar | ater velocity pprox.) | /: | Bank heig | ht | | Bank slope | | | |
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| heck one) | No water | lear 🕅 T | | | . F | | an an an the series to a series of the serie | | | |
| | | Constant of the second se | on sur | face sc | unace [um | AlgaiC mats | Other: | | | |
| ibstrate: | Bedrock 🕅 G | ravel | X Sand X | Cilit/olau | | | | | | |
| eck all that apply) | 2. | | Anna Anna | - Siniciay | <u>[</u>] 0 | organic C | ther: | | | |
| of Substrate: | 20 % 1 | <u>D</u> % | 5% | 5% | | % | and the state of the state | | | |
| | ne: Vegetativ | /e Layers: at apply) | N71 | A POLICY OF THE REAL PROPERTY OF THE PARTY | | 1 | and the second second second second | <u> </u> | | |
| <u> 250</u> | Avg. DBH | f of Domina | nts: | 0 | K | Shrubs: | | Herbs | | |
| minant Bank Vege | (approx.) | | | <u> </u> | | | in. | | | |
| PLATAnus | occiontre | lis Ac | ornoundo | D/ I | 1 | · ^ | 0 01 | 17 1 | | |
| uatic Habitats (ex. | submerged or omorgan | | , rageree, | Phlox . | coroli | nizenen, Poc | lophylli | in peltation | | |
| Riffle De | s s s s s s s s s s s s s s s s s s s | Juatic Vegetation | , overhanging banks/roots, | leaf packs, large s | ubmerged w | rood, riffles, deep pools | | | | |
| uatic Organisms O | bserved: | | | | | | | | | |
| NONS | | | | | | | | | | |
| asive and/or T&E | Decies Observed | t | | A THE PROPERTY AND A THE PROPERTY OF | | | | | | |
| None | | | | | | an an an tha an | | | | |
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| turbances: ck all that apply) | Livetest | harad Annual Annual | | Inner Will HJU | | and the product of the state of | and to appropriate the second second second | | | |
| | | | anure in aterbody | Waste discha | arge | Other: | • • • • • • • • • • • • • • • • • • • | | | |
| eam Quality ^b : ckone) | Π | | | | | | NOWE | | | |
| , | High | | oderate | Low | | | | | | |

Waterbody ID: 5WZ6005 * Connecting swales are water features that do not meet the definition of a waterbody (not an ephemeral waterbody) in that there is not a defined bed, bank, and ordinary high water mark, however, it is a water conveyance feature that is characterized by flow volume, frequency, and duration to make it more than just an erosional feature and connects two potential waters of the U.S. and thereby may be subject to Section 404 permitting. ^b High Quality: Natural channel, natural vegetation extends at least one or two active channel widths on each side; banks stable and protected by roots; water color is clear to tea-colored; no barriers to fish movement; many fish cover types available; diverse and stable aquatic habitat; no disturbance by livestock or man. Moderate Quality: Altered channel evidenced by rip-rap; natural vegetation extends 1/3-1/2 of the active channel width on each side; filtering function or riparian vegetation only moderately compromised; banks moderately unstable; water color is cloudy, submerged objects covered with greenish film; moderate odor; minor barriers to fish movement; fair aquatic habitat; minimum disturbance by livestock or man. Low Quality: Channel is actively down cutting or widening; rip rap and channelization excessive; natural vegetation less than 1/3 of the active channel width on each side; lack of regeneration; filtering function severely compromised; banks unstable (eroding); water color is muddy and turbid; obvious pollutants (algal mats, surface scum, surface sheen); heavy odor; severe barriers to fish movement; little to no aquatic habitat; severe disturbance from livestock or man. Notes Waterbody Sketch Include north arrow, conterline, distance from centerline, photo locations, survey boundary, and unique IDs of associated features. SWZGOOS 1 to O be Frond FLOW >

swzg005



Waterbody *swzg005* facing upstream



Waterbody *swzg005* downstream

swzg005



Waterbody swzg005 facing upline cross stream

Open Waterbody Data Sheet

| Survey Description | • • • • • • • • • • • • • • • • • • • | | | | | | | Data | |
|---|---------------------------------------|------------------------|--------------------------|--|---------------|---------------------------------------|---------------------|-------------|-----------|
| roject Name: Supply Lever dore | | Waterbody Name: | | | -111 - | terboay ID: | | Uate: | n n 1 |
| 20120102CCall | | ond for | JU servin |) () () () () () () () () () () () () () | C |)WZGOC | | 4/- | 22/18 |
| tate: Cou | inty: 1 (| Com | pany: | C | Crew Me | ember Initials: | Photos: | | |
| WV I | wetzel | L D | DWEST | | ID | , DB | | | |
| ract Number(s): | | Near | est Milepost: | ······································ | Ass | sociated Wetland | ID(s): | | |
| 33-009-1 | 1034 | | NA | | | NON | _عر | | |
| Survey Type: check one) | Centerline | Re-Ro | ute 🗆 A | ccess Roa | d | Dother: | | | |
| hysical Attributes | | | | | | | | | |
| Vaterbody Type: check one) Stock P | ond 🛛 Natural Po | nd 🗆 Lake 🖸 |]Reservoir 📈 Ir | mpoundme | nt 🗆 O | xbow 🗇 Other: | | | |
| lydrologic Regime: | Permanently Flo | oded 🗆 Sem | hipermanently Flo | oded 🗆 | Seasor | nally Flooded |] Temporar | ily Flooded | đ |
| OHWM | OHWM Indicate | or: | | | vina | | Ksc | | ⊓Water |
| Height: L/ | (cneck all that apply) | | on bank | | ving | vegetation | Jen Colo | , and a | staining |
| ft. | □Bent, m vegetatior | atted, or missin | g ⊟Wrack line | □Litte debris | r and | □Abrupt plan community ch | it ⊡Soil c nange | haracterist | ic change |
| Denth of Water: | | Bank height (av | verage): | | | Bank slope (ave | rage): | | |
| | ft | | 76 ft. | | | | 30_d | egrees | |
| | | | | | | | | | |
| Qualitative Attribut | es | | | | | | | | |
| Water Appearance: (check one) | No water □Cle | ar 🕅 Turbio | d ⊡Sheen on surface | e scu | Surface Im | □Algal □ mats |]Other: | | |
| Substrate: | Bedrock 🗆 Boul | der 🗌 Cobble | e 🕅 Gravel / | Sand | X Silt/ | clay & Organic | □ Other | : | |
| % of Substrate: | % | %% | 6 <u>20</u> % | <u>£0</u> % | 26 | D % IO % | | % | |
| Width of Riparian Zone: | Vegetative La | ayers: | | | | | 1/ | | |
| 725 | (check all that app | ly) | Trees: | | Sapli | ings/Shrubs: | K Herbs | 5 | |
| • <u>.</u> | Avg. DBH of | Dominants: | <u>10_in.</u> | | 2 | in. | | _in. | |
| Dominant Bank Vegetat | tion (list): | | A Qia | | | | | | |
| Salve nigra | , Platanec | SUCCIDE | Naw | | | | | | |
| Aquatic Habitats (ex: sub | merged or emerged aquai | tic vegetation, overha | anging banks/roots, leaf | f packs, large s | ubmerged | wood, riffles, deep pools | s, etc.): | | |
| POOL | | | | | | | | | |
| Aquatic Organisms Ob Small In | served (list); | soles | | | | | | | |
| T&E Species Observed | (list): 0/ | 0(| | 00 0 | | · · · · · · · · · · · · · · · · · · · | | | |
| Rosn mul | Hittorn | Elaeagn | us untel | Wata | | | | | |
| Disturbances (ex: livesto | ck access, manure in | waterbody, waste | discharge pipes): | | | | fan | , Ĵ | |
| at base of | of okla | ndwi | waster | NAKEP | 215 | sving in | | | |
| Waterbody is: (check one) | Natural | Artificial, r | man-made 🛛 | Manipulate | ed | | | | |
| Waterbody Quality ^a : (check one) | □ High | Moderate | Low | | | | | | |
| (check one) | □ High | | X Low | | | | | | |

Waterbody ID:



owzg001



Waterbody *owzg001* facing upstream



Waterbody *owzg001* downstream

owzg001



Waterbody owzg001 facing upline cross stream