

The boundaries on this map are intended to provide a basic screening tool to help guide management decisions on the Yellowstone River and ARE NOT intended to provide regulatory boundaries or override site-specific assessments. This map identifies a 100-year migration corridor for the Yellowstone River based on measured migration rates between 1948 and 1923. It includes the 2023 channel, historic channel locations since 1948, and an erosion buffer based on measured rates of lateral movement. Also identified are areas with relic channels prone to reactivation (Avulsion Potential Zone). This map was revised in 2024 to incorporate changes from the June 2022 flooding.

Yellowstone River Channel Migration Zone

2024 Update

7/25/2024

0 1,000 2,000 3,000 Feet

DTMCONSULTING
MAPPING SPECIALISTS

Tile 1

2023 Channel
Historic Migration Zone (HMZ)
Erosion Hazard Area (EHA)
Avulsion Hazard Zone (AHZ)
Special Management Zone
Restricted Migration Area (RMA)
CMZ Boundary
Potential Avulsion Pathways
Reaches
Map Tiles

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Stream Flow

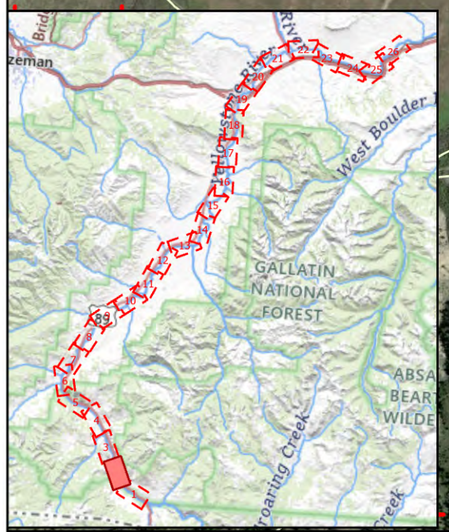
Tile 1
Tile 2
Tile 3

PC1
PC2

559
560
561

PARK

ROAD 339 A
ROAD 339
ROAD 341 A
ROAD 341 B
MAIDEN BASIN RD
MAIDEN BASIN DR
ROAD 341
ROAD 344
ROAD 340
ROAD 342
ROAD 343
US HIGHWAY 89 N
PRIVATE LITTLE MAIDEN
ROAD 347
OLSON LN
RIVERVIEW DR
ROAD 716
MC CONNEL RIVER ACCESS
GARDINER AIRPORT
LADUKE PICNIC
OLD YELLOWSTONE TRL. F
OLD YELLOWSTONE TRL. H
RANCH PRICE RD
OLD YELLOWSTONE TRL. J
OLD YELLOWSTONE TRL S
OLD YELLOWSTONE TRL. E
OLD YELLOWSTONE TRL. G
OLD YELLOWSTONE TRAIL D
OLD YELLOWSTONE TRL. DB
BEATTIE GULCH



Yellowstone River Channel Migration Zone
2024 Update
7/25/2024

0 1,000 2,000 3,000 Feet

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Tile 2

2023 Channel
Historic Migration Zone (HMZ)
Erosion Hazard Area (EHA)
Avulsion Hazard Zone (AHZ)
Special Management Zone
Restricted Migration Area (RMA)
CMZ Boundary
Potential Avulsion Pathways
Reaches
Map Tiles

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Stream Flow

RIGLER BLUFFS
SADDLE RIDGE RD
HORSESHOE GULCH
US HIGHWAY 89 N
EAST GATE RD
CINNABAR BASIN RD
CINNABAR BASIN RD
CINNABAR RIVER ACCESS
BROGANS PIT
YELOWSTONE RIVER ACCESS
LADUKE TRAILHEAD
LADUKE PICNIC
555
556
557
558
YANKEE JIM GAGING STA.
OLD YELLOWSTONE TRL S
HEADQUARTERS RD
CINNABAR RD SHORTCUT
OLD YELLOWSTONE TRAIL D
ALDRIGE LAKE
PC3
PC2
Tile 3
Tile 4
Tile 2
GALLATIN NATIONAL FOREST
West Boulder
Roaring Creek

Yellowstone River Channel Migration Zone
2024 Update
7/25/2024

0 1,000 2,000 3,000 Feet

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Tile 3

2023 Channel
Historic Migration Zone (HMZ)
Erosion Hazard Area (EHA)
Avulsion Hazard Zone (AHZ)
Special Management Zone
Restricted Migration Area (RMA)
CMZ Boundary
Potential Avulsion Pathways
Reaches
Map Tiles

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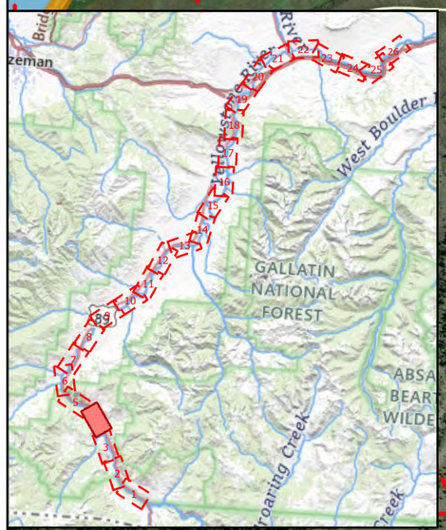
Stream Flow

SLIP AND SLIDE
SPHINX DR
US HIGHWAY 89 N
CEDAR CREEK RD
OTO RANCH D
SADDLE RIDGE RD
PC3
553
554
555
552
OLD YELLOWSTONE TRL S
Tile 4
HIDEAWAY
Tile 3



Yellowstone River Channel Migration Zone
2024 Update
7/25/2024

0 1,000 2,000 3,000 Feet

DTMCONSULTING
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Tile 4

2023 Channel
Historic Migration Zone (HMZ)
Erosion Hazard Area (EHA)
Avulsion Hazard Zone (AHZ)
Special Management Zone
Restricted Migration Area (RMA)
CMZ Boundary
Potential Avulsion Pathways
Reaches
Map Tiles

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Stream Flow

Tile 6

Tile 5

Tile 4

549

550

551

552

PC3

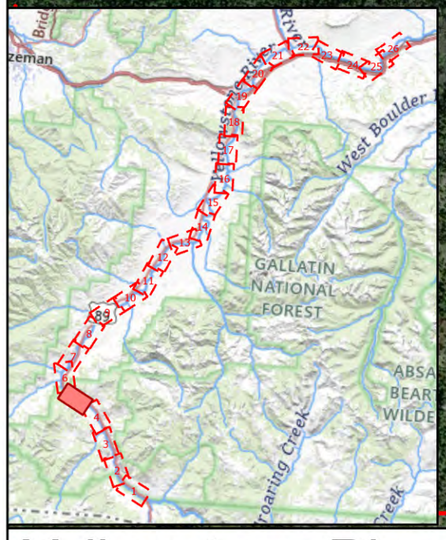
YANKEE JIM CAMPGROUND

US HIGHWAY 89 N

OLD YELLOWSTONE TRL S

YANKEE JIM RIVER ACCESS

JOE BROWN TRAILHEAD



Yellowstone River Channel Migration Zone

2024 Update

7/25/2024

0 1,000 2,000 3,000 Feet

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Tile 5

2023 Channel
Historic Migration Zone (HMZ)
Erosion Hazard Area (EHA)
Avulsion Hazard Zone (AHZ)
Special Management Zone
Restricted Migration Area (RMA)
CMZ Boundary
Potential Avulsion Pathways
Reaches
Map Tiles

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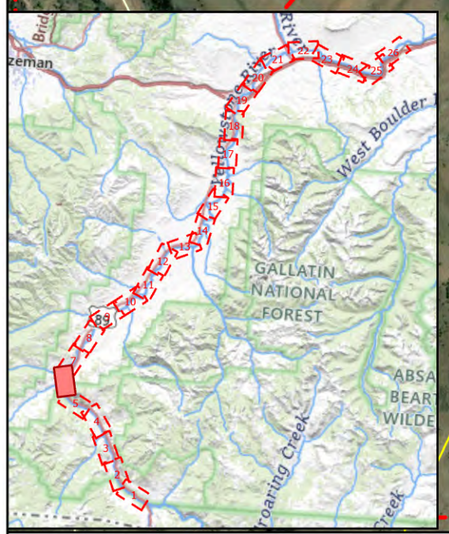
Stream Flow

Tile 7
Tile 6
Tile 5

PC4
PC3

546
547
548
549

CARBELLA FISHING ACCESS
US HIGHWAY 89 N
TOM MINER CREEK RD
OLD YELLOWSTONE TRL S
ROCK CREEK RD S
BOBCAT LANE
BOBCAT LN
BOBCAT LANE A
GRIZZLY MEADOW RD
HARMONY TRL
TOM MINER CREEK RD



Yellowstone River Channel Migration Zone

2024 Update

7/25/2024

0 1,000 2,000 3,000 Feet

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Tile 6

2023 Channel
Historic Migration Zone (HMZ)
Erosion Hazard Area (EHA)
Avulsion Hazard Zone (AHZ)
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CMZ Boundary
Potential Avulsion Pathways
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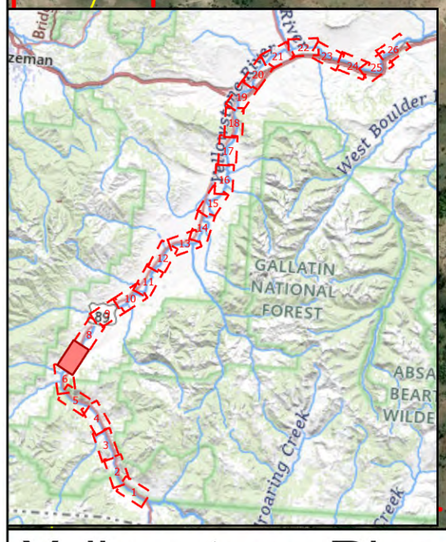
Stream Flow

DAILY LAKE RD
US HIGHWAY 89 N
E RIVER RD
OLD YELLOWSTONE TRL S
STOUGHTEN CREEK

PC5
PC4

543
544
545
546

Tile 6
Tile 7
Tile 8



Yellowstone River Channel Migration Zone
2024 Update

7/25/2024

0 1,000 2,000 3,000 Feet

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Tile 7

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Historic Migration Zone (HMZ)
Erosion Hazard Area (EHA)
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Stream Flow

Tile 9

PC5

Tile 8

E RIVER RD

DAILY LAKE RD

541

542

543

540

PARK

US HIGHWAY 89 N

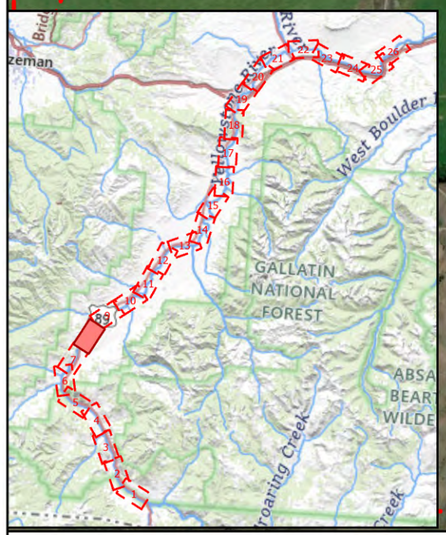
OLD YELLOWSTONE TRL S

Tile 7

PC4

LITTLE DONAHUE

LITTLE DONAHUE C



Yellowstone River Channel Migration Zone

2024 Update

7/25/2024

0 1,000 2,000 3,000 Feet

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Tile 8

2023 Channel
Historic Migration Zone (HMZ)
Erosion Hazard Area (EHA)
Avulsion Hazard Zone (AHZ)
Special Management Zone
Restricted Migration Area (RMA)
CMZ Boundary
Potential Avulsion Pathways
Reaches
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Stream Flow

Tile 8

Tile 10

Tile 9

PC6

PC5

537

538

539

E RIVER RD

US HIGHWAY 89 N

DRY CREEK B

DRY CREEK RD S

HESPERUS LN

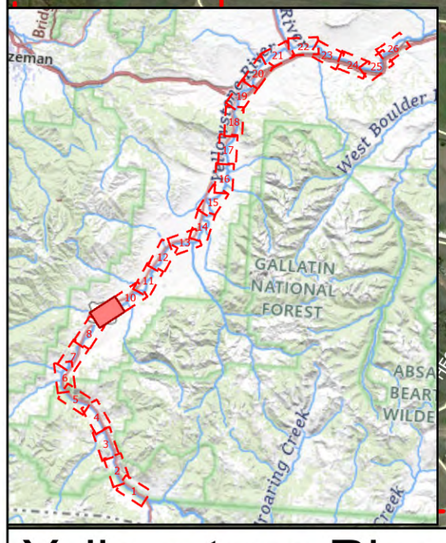
HESPERUS RD

CORLEONIS WY

AQUILA WY

BIG CREEK RD

PARK



Yellowstone River Channel Migration Zone

2024 Update

7/25/2024

0 1,000 2,000 3,000 Feet

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Tile 9

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Historic Migration Zone (HMZ)
Erosion Hazard Area (EHA)
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Stream Flow
SIX MILE CREEK RD
E RIVER RD
534
535
536
Tile 10
Tile 9
Tile 11
PC6
PC7
PARK
US HIGHWAY 89 N
ARCTURUS DR
GALLATIN NATIONAL FOREST
West Boulder
Roaring Creek

Yellowstone River Channel Migration Zone
2024 Update
7/25/2024

0 1,000 2,000 3,000 Feet

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Tile 10

2023 Channel
Historic Migration Zone (HMZ)
Erosion Hazard Area (EHA)
Avulsion Hazard Zone (AHZ)
Special Management Zone
Restricted Migration Area (RMA)
CMZ Boundary
Potential Avulsion Pathways
Reaches
Map Tiles

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Stream Flow

CHICO CEMETERY RD
EMIGRANT BENCH RD
EMIGRANT MEADOWS RD
EMIGRANT MEADOWS RD
MURPHY LN
Tile 12
PC7
E RIVER RD
533
532
531
PARK
OLD YELLOWSTONE TRAIL N
COUNTS LN
OVERLOOK RD
Emigrant
AVALON CT
US HIGHWAY 89 N
STORY RD
Tile 11
Tile 10
CAPRICORN DR
BORDERLINE RD
SIRIUS DR
POLE GULCH D
FINDLEY CREEK RD
FLYING EAGLE DR
JUPITER WAY
Livingston
Bridger
Bozeman
West Boulder R
GALLATIN NATIONAL FOREST
Roaring Creek

Yellowstone River Channel Migration Zone
2024 Update
7/25/2024

0 1,000 2,000 3,000 Feet

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Tile 11

2023 Channel
Historic Migration Zone (HMZ)
Erosion Hazard Area (EHA)
Avulsion Hazard Zone (AHZ)
Special Management Zone
Restricted Migration Area (RMA)
CMZ Boundary
Potential Avulsion Pathways
Reaches
Map Tiles

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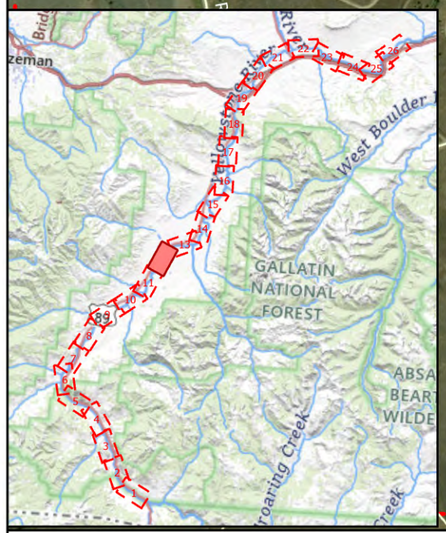
Stream Flow

Tile 13
Tile 12
Tile 11

CHICORY RD
TOMAHAWK CT
ARROWHEAD RD
YELLOWSTONE TRL
WIGWAM CT
WARRIOR RD
RIVER DR
PARK
EMIGRANT MEADOWS RD
MOOSE HORN LN
SALMON FLY RD
PARADISE R
US HIGHWAY 89 N
OLD YELLOWSTONE TRL N
OLD YELLOWSTONE TRAIL N
CAPRICORN DR
MARSHY VIEW

PC8
PC7

528
529
530



Yellowstone River Channel Migration Zone
2024 Update
7/25/2024

0 1,000 2,000 3,000 Feet

DTMCONSULTING
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Tile 12

2023 Channel
Historic Migration Zone (HMZ)
Erosion Hazard Area (EHA)
Avulsion Hazard Zone (AHZ)
Special Management Zone
Restricted Migration Area (RMA)
CMZ Boundary
Potential Avulsion Pathways
Reaches
Map Tiles

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Stream Flow

E RIVER RD
CEDAR LN
BURNSIDE LN
CHICORY RD
525
526
527
MILL CREEK RD
CASCADE LN
DANDELION DR
EASTEP LN
Pray
Tile 12
Tile 13
PARK
HITCHING POST LN
QUERENCIA DR
US HIGHWAY 89 N
PARADISE LN
RIVER LN
PRAY SIDING RD
RUN WAY LN
PC8
LITTLE BUNNY LN
MOOSE HORN LN
SALMON FLY RD
SPUR HILL RD
MERIDIAN RD
GALLATIN NATIONAL FOREST
West Boulder
Roaring Creek

Yellowstone River Channel Migration Zone
2024 Update
7/25/2024

0 1,000 2,000 3,000 Feet

DTMCONSULTING
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Tile 13

2023 Channel
Historic Migration Zone (HMZ)
Erosion Hazard Area (EHA)
Avulsion Hazard Zone (AHZ)
Special Management Zone
Restricted Migration Area (RMA)
CMZ Boundary
Potential Avulsion Pathways
Reaches
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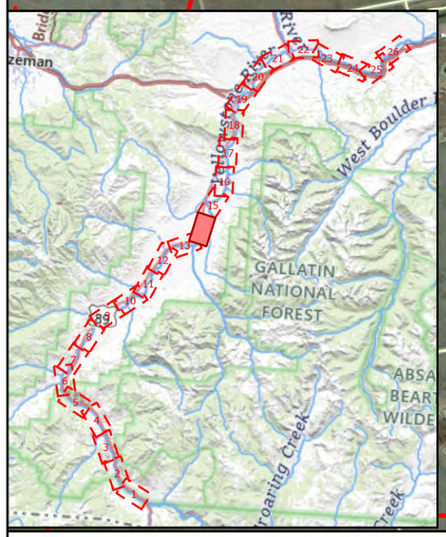
Stream Flow

Tile 15
Tile 14
Tile 13

520
521
522
523
524

PCS
PARK

LOCH LEVEN RD
ALLEN LN
E RIVER RD
MOUNT COWEN RD
CADDIS HATCH RD
SUNDANCE DR
US HIGHWAY 89 N
BONNIE WAY
GLENGARRY RD
BITTERROOT TRL
PINTO RANCH LN
MILL CREEK RD
COLTER RD
SPUR HILL RD
RUN WAY LN
PRAY SIDING RD



Yellowstone River Channel Migration Zone
2024 Update
7/25/2024

0 1,000 2,000 3,000 Feet

DTMCONSULTING
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Tile 14

2023 Channel
Historic Migration Zone (HMZ)
Erosion Hazard Area (EHA)
Avulsion Hazard Zone (AHZ)
Special Management Zone
Restricted Migration Area (RMA)
CMZ Boundary
Potential Avulsion Pathways
Reaches
Map Tiles

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Stream Flow

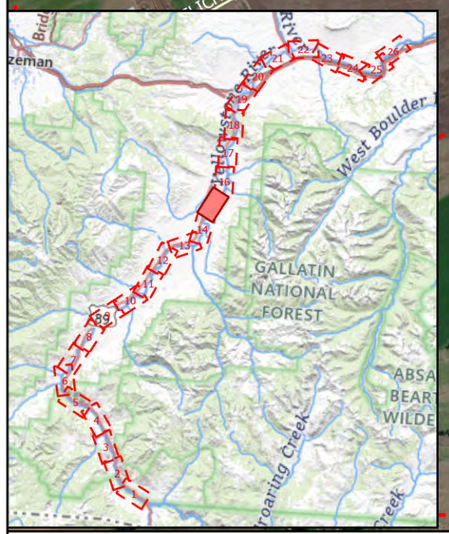
516
517
518
519

Tile 14
Tile 15
Tile 16

PC8
PC9

PARK

ICH LEVEN RD
ICH LN
US HIGHWAY 89 N



Yellowstone River Channel Migration Zone

2024 Update

7/25/2024

0 1,000 2,000 3,000 Feet

DTMCONSULTING
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Tile 15

2023 Channel
Historic Migration Zone (HMZ)
Erosion Hazard Area (EHA)
Avulsion Hazard Zone (AHZ)
Special Management Zone
Restricted Migration Area (RMA)
CMZ Boundary
Potential Avulsion Pathways
Reaches
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Stream Flow

Pine Creek
SUNSET TRL
NORTHVIEW RD
ROCHE JAUNE RD
ROYAL WULF
JUMPING RAINBOW RD
CUTTHROAT LN
RENAISSANCE RANCH RD
PINE CREEK RD
FRELICH LN
PARK

512
513
514
515

PC10
PC9

Tile 17
Tile 16
Tile 15

GALLATIN NATIONAL FOREST
West Boulder
Roaring Creek

Yellowstone River Channel Migration Zone
2024 Update
7/25/2024

0 1,000 2,000 3,000 Feet

DTMCONSULTING
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Tile 16

2023 Channel
Historic Migration Zone (HMZ)
Erosion Hazard Area (EHA)
Avulsion Hazard Zone (AHZ)
Special Management Zone
Restricted Migration Area (RMA)
CMZ Boundary
Potential Avulsion Pathways
Reaches
Map Tiles

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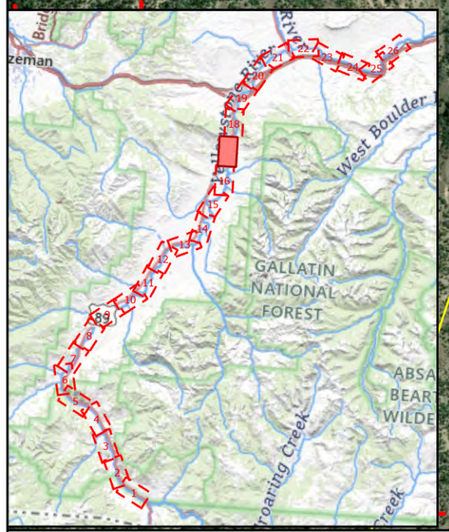
Stream Flow

Tile 17
Tile 18
Tile 16

PC12
PC11
PC10

508
509
510
511

NELSON'S SPRING CREEK RD
TROUT LN
OLD YELLOWSTONE TRL N
US HIGHWAY 89 N
O'HAIR LN
PARK



Yellowstone River Channel Migration Zone
2024 Update
7/25/2024

0 1,000 2,000 3,000 Feet

DTMCONSULTING
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Tile 17

2023 Channel
Historic Migration Zone (HMZ)
Erosion Hazard Area (EHA)
Avulsion Hazard Zone (AHZ)
Special Management Zone
Restricted Migration Area (RMA)
CMZ Boundary
Potential Avulsion Pathways
Reaches
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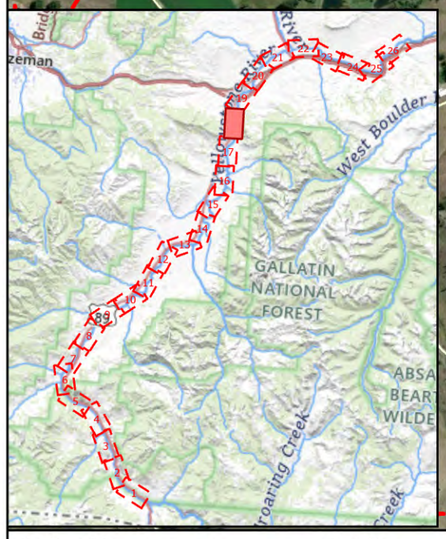
Stream Flow

Tile 19
Tile 18
Tile 17

MEYERS LN
PC14
505
506
507
E RIVER RD
EVERGREEN LN
PC12
US HIGHWAY 89 N
OLD STAGE RD
COUNTY LIVING LN
OLD YELLOWSTONE TRL N
BLUE RD
PC13
CEDAR BLUFFS RD



Yellowstone River Channel Migration Zone
2024 Update
7/25/2024

0 1,000 2,000 3,000 Feet

DTMCONSULTING
MAPPING SPECIALISTS

Tile 18

2023 Channel
Historic Migration Zone (HMZ)
Erosion Hazard Area (EHA)
Avulsion Hazard Zone (AHZ)
Special Management Zone
Restricted Migration Area (RMA)
CMZ Boundary
Potential Avulsion Pathways
Reaches
Map Tiles

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Stream Flow

Tile 18

Tile 19

Tile 20

PC14

PC15

501

502

503

504

I-90

PARK

MEYERS LN

VIEW VISTA DR

E BUTTE ST

S 1ST ST

S EAST

E GEYSER ST

CLARK ST

RIVER DR

W BUTTE ST

SACAJAWEA PARK DR

9TH ST

ISLAND DR

LOCH LEVIN DR

BLUEBIRD LN

ROBIN LN

MEADOWLARK LN

FINCH LN

W CAMBRIDGE AVE

W CRAWFORD ST

MOUNT BALDY DR

PARKWAY DR

W MAIN ST

FRONT ST

W FRONT ST

US HIGHWAY 10 W

ALLATIN ST

W CHINOOK ST

W YELLOWSTONE ST

W CALLENDER ST

PARK CALLENDER ALY

W LEWIS ST

W 3RD ST

W 2ND ST

N 3RD ST

N 2ND ST

N BROADWAY

N 7TH ST

N 8TH ST

N 9TH ST

S 2ND ST

S 3RD ST

S 4TH ST

S 5TH ST

S 6TH ST

S 7TH ST

S 8TH ST

S 9TH ST

S 10TH ST

S 11TH ST

S 12TH ST

S 13TH ST

S 14TH ST

S 15TH ST

S 16TH ST

S 17TH ST

S 18TH ST

MOUNTAIN VIEW LN

CAROL LN

SHANNON DR

ROGERS LN

WILLOW DR

FELIX LN

ELK HORN LN

BIG HORN DR

LEIGHTON DR

COTTONWOOD LN

HOLLY HOCK LN

WILLOW BEND LN

FRONTENNIAL DR

PRONGHORN DR

OVES LN

TRAVERTINE LN

BILLMAN LN

MILLER DR

MERRILL LN

FOXWAY LN

PARADISE DR

SUNSET LN

CANYON VIEW DR

DUKE LN

POMABLO LN

BUFFALO JUMP RD

STRONG LN

US HIGHWAY 89 N

CHURCH DR

GUTHRIE LN

SHAMROCK LN

Zoomed-out inset map showing the tile extents with Livingston, Gallatin River, West Boulder, GALLATIN NATIONAL FOREST, and Roaring Creek.

Yellowstone River Channel Migration Zone

2024 Update

7/25/2024

0 1,000 2,000 3,000 Feet

DTMCONSULTING
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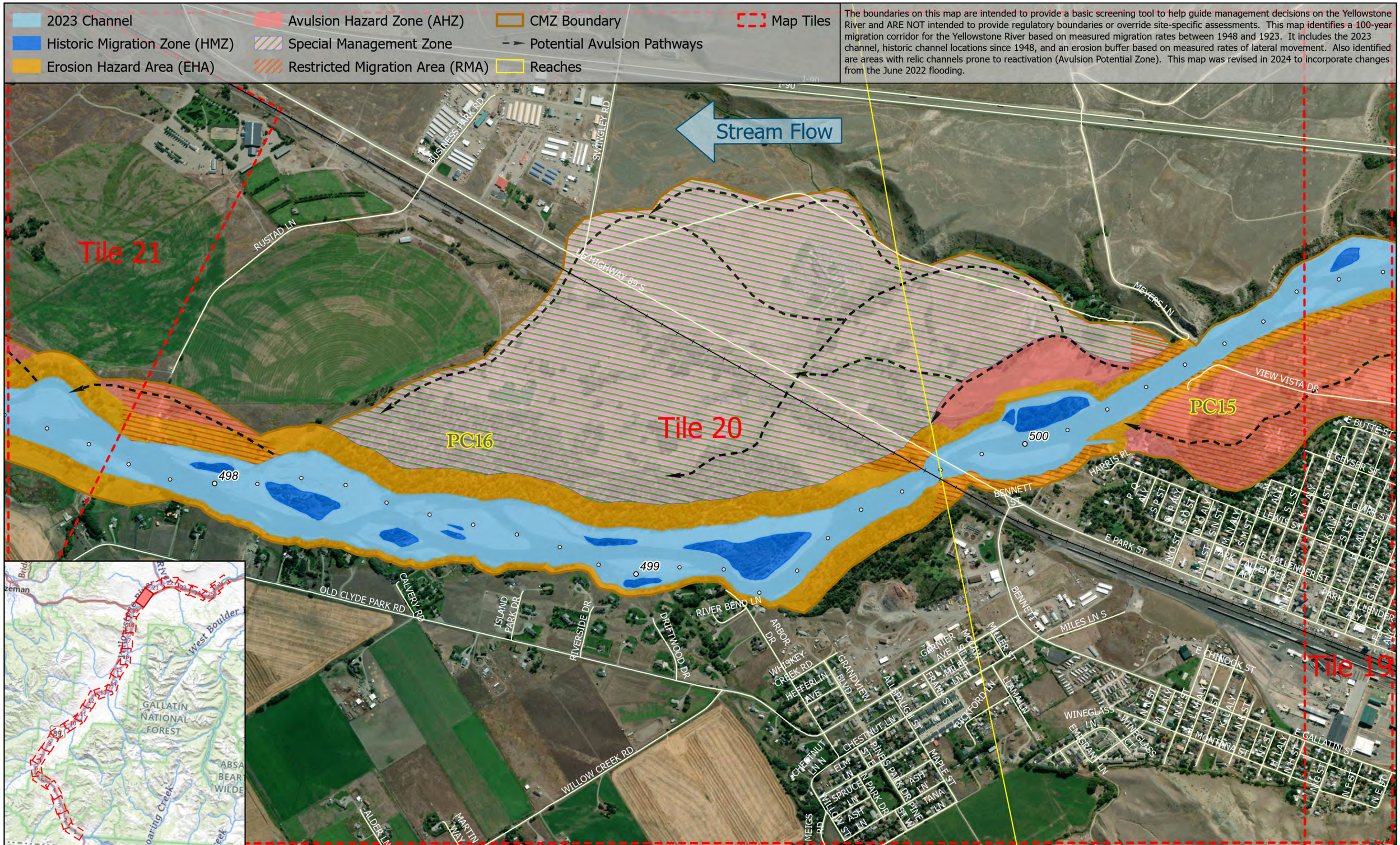
Tile 19



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Yellowstone River Channel Migration Zone

2024 Update

7/25/2024

0 1,000 2,000 3,000 Feet

DTMCONSULTING
MAPPING SPECIALISTS

Tile 20

2023 Channel
Historic Migration Zone (HMZ)
Erosion Hazard Area (EHA)
Avulsion Hazard Zone (AHZ)
Special Management Zone
Restricted Migration Area (RMA)
CMZ Boundary
Potential Avulsion Pathways
Reaches
Map Tiles

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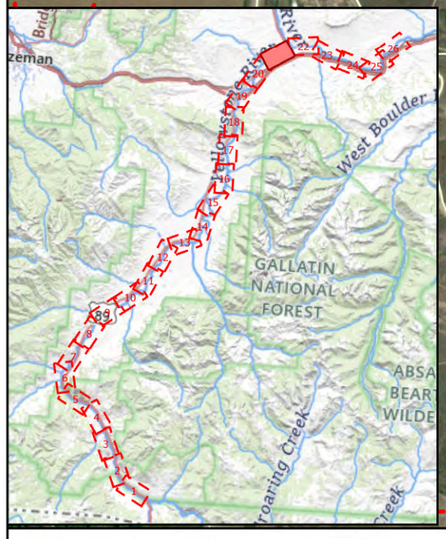
Stream Flow

Tile 22
Tile 21
Tile 20

PC17
PC16

FOX RUN
US HIGHWAY 89 N
CONVICT GRADE RD
OLD CLYDE PARK RD
WHEATGRASS RD
OLD CLYDE PARK RD
PARK

495
496
497



Yellowstone River Channel Migration Zone
2024 Update

7/25/2024

0 1,000 2,000 3,000 Feet

DTMCONSULTING
MAPPING SPECIALISTS

Tile 21

2023 Channel
Historic Migration Zone (HMZ)
Erosion Hazard Area (EHA)
Avulsion Hazard Zone (AHZ)
Special Management Zone
Restricted Migration Area (RMA)
CMZ Boundary
Potential Avulsion Pathways
Reaches
Map Tiles

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Stream Flow

Tile 23

Tile 22

Tile 21

492

493

494

PC17

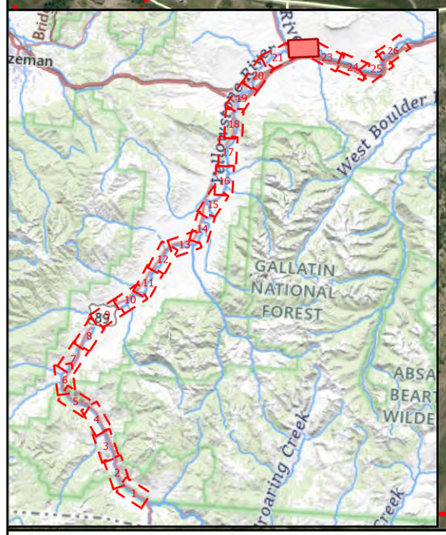
PC18

FOX RUN

US HIGHWAY 89 N

CONVICT GRADE RD

PARK



Yellowstone River Channel Migration Zone

2024 Update

7/25/2024

0 1,000 2,000 3,000 Feet

DTMCONSULTING
MAPPING SPECIALISTS

Tile 22

2023 Channel
Historic Migration Zone (HMZ)
Erosion Hazard Area (EHA)
Avulsion Hazard Zone (AHZ)
Special Management Zone
Restricted Migration Area (RMA)
CMZ Boundary
Potential Avulsion Pathways
Reaches
Map Tiles

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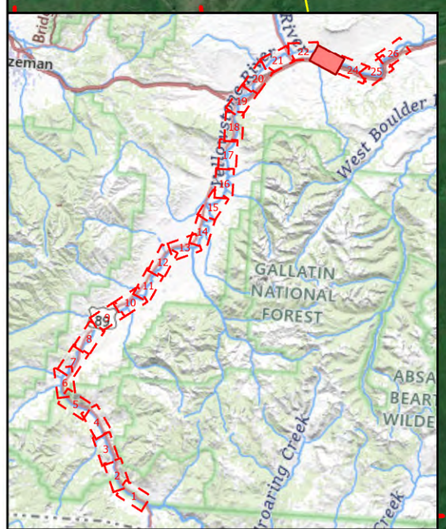
Stream Flow

FRONTAGE RD E
I-90
I-90
MT HIGHWAY 293
PARK
PC18
Tile 23
Tile 22
489
488
490
491
CONVICT GRADE RD



Yellowstone River Channel Migration Zone
2024 Update
7/25/2024

0 1,000 2,000 3,000 Feet

DTMCONSULTING
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Tile 23

2023 Channel
Historic Migration Zone (HMZ)
Erosion Hazard Area (EHA)
Avulsion Hazard Zone (AHZ)
Special Management Zone
Restricted Migration Area (RMA)
CMZ Boundary
Potential Avulsion Pathways
Reaches
Map Tiles

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Stream Flow

Tile 25

Tile 24

Tile 23

PC20

PC19

PC18

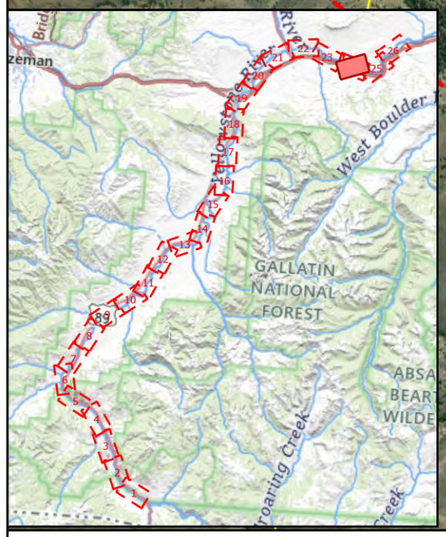
485

486

487

488

FRONTAGE RD E



Yellowstone River Channel Migration Zone

2024 Update

7/25/2024

0 1,000 2,000 3,000 Feet

DTMCONSULTING
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Tile 24

2023 Channel
Historic Migration Zone (HMZ)
Erosion Hazard Area (EHA)
Avulsion Hazard Zone (AHZ)
Special Management Zone
Restricted Migration Area (RMA)
CMZ Boundary
Potential Avulsion Pathways
Reaches
Map Tiles

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Stream Flow

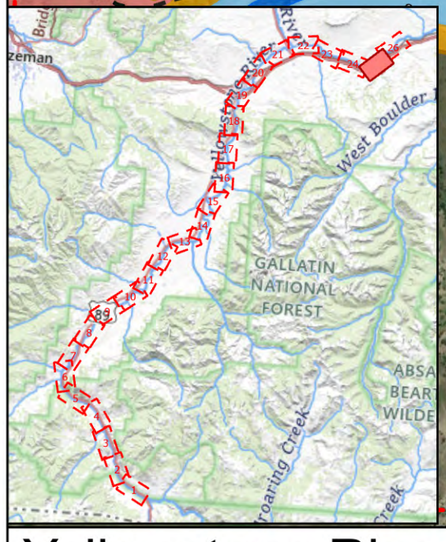
483
484
485
482

FRONTAGE RD E

PC20
PC19

PARK

Tile 25
Tile 24
Tile 26



Yellowstone River Channel Migration Zone

2024 Update

7/25/2024

0 1,000 2,000 3,000 Feet

DTMCONSULTING
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Tile 25

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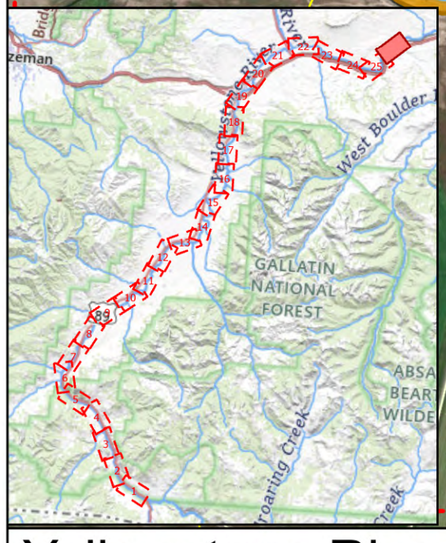
Stream Flow

US HIGHWAY 10 W
SWEET GRASS
HUNTERS AVE
FIRST ST
Springdale
SECOND ST
THIRD ST
I-90
I-90
480
481
479
Tile 25
Tile 26
PC21
PC20
PARK
CONVICT GRADE RD



Yellowstone River Channel Migration Zone
2024 Update
7/25/2024

0 1,000 2,000 3,000 Feet

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Tile 26