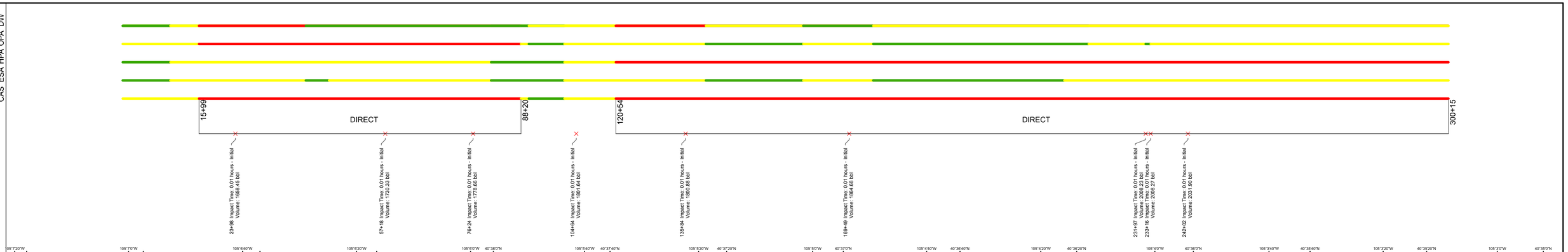
HCA IMPACTS

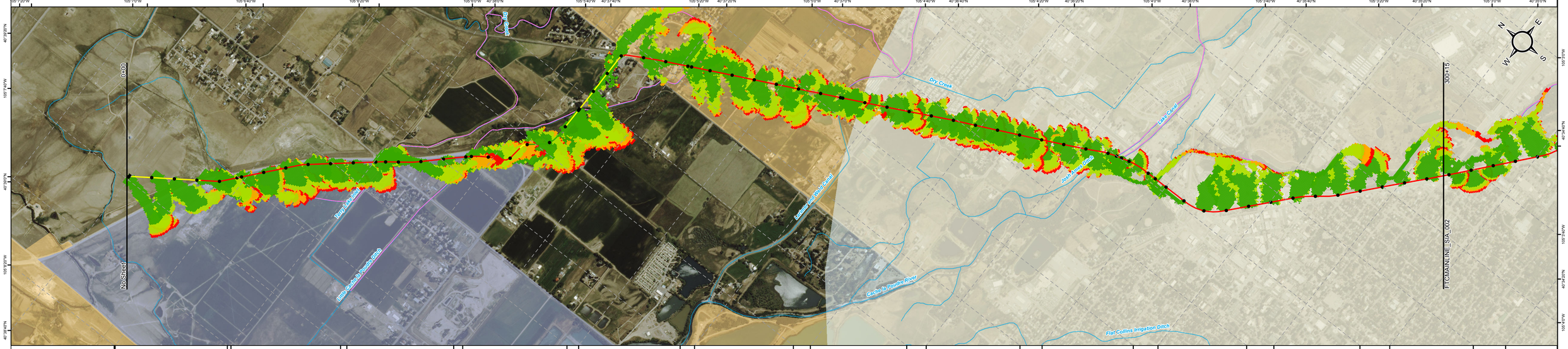
DIRECT INDIRECT NONE

CAS ESA HPA OPA DW

NHD IMPACT

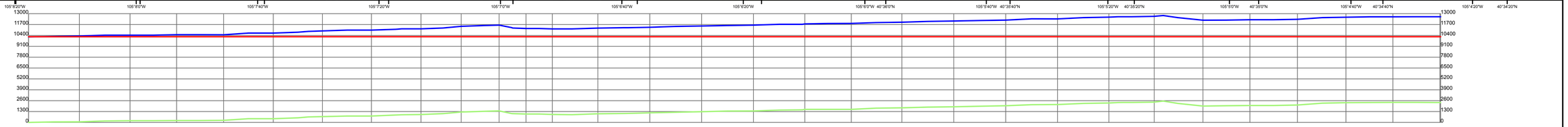


Map View

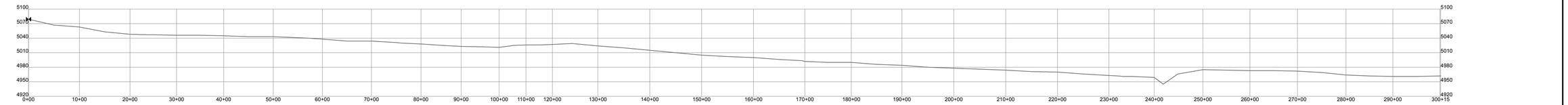


SIA Volumes

Release Vol (bbl)
Drain Down Vol (bbl)
Full Flow Vol (bbl)



Top of Pipe Profile (ft)



Valves

MAINLINE VALVE

Pipe Material

LEGEND

- Valve
- Pipeline Centerline
- Release Point

Spill Grid

Impact Time (Hours)

- 0.010 - 1.23
- 1.23 - 2.80
- 2.80 - 5.17
- 5.17 - 8.0

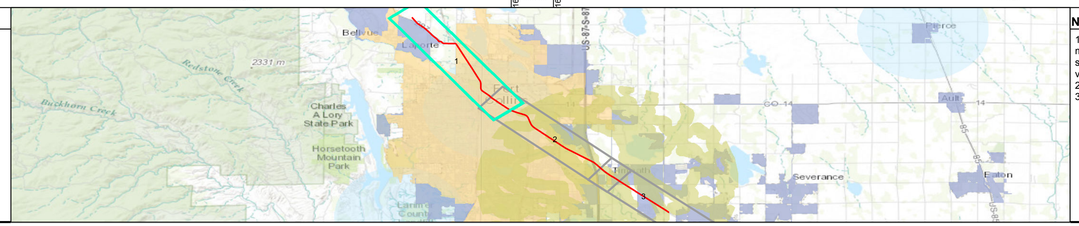
- NHDFlowline
- NHDWaterbody
- Spill Plume NHD Flow Trace
- CAS (Could Affect Segment)
- CNW
- DW
- ECO
- OPA
- HPA

National Hydrography Dataset (NHD) Information

NHD Metadata
· The NHD is a national framework for assigning reach addresses to water-related entities, such as industrial discharges, drinking water supplies, fish habitat areas, wild and scenic rivers. The (NHD) is a feature-based database that interconnects and uniquely identifies the stream segments or reaches that make up the nation's surface water drainage system.
· This is a high-resolution NHD, generally developed at 1:24,000/1:12,000 scale.

Publication Information
· Who created the data: U.S. Geological Survey in cooperation with U.S. Environmental Protection Agency, USDA Forest Service, and other Federal, State and local partners.
· Date and time: Between 4/11/01 to 5/30/05
· Publisher and place: U.S. Geological Survey, Reston, Virginia

Overview citation
· The names and definitions of all feature types, characteristics, and values are in U.S. Geological Survey, 1999, Standards for National Hydrography Dataset High Resolution: Information about tables and fields in the data are available from the user documentation for the National Hydrography Dataset at http://nhd.usgs.gov.



Notes:

1. Station depicted in this drawing is pipeline measure and not actual engineering or surveyed stationing. Measure begins at first valve after Receiver/Launcher
2. Release Point interval = 500'
3. Simulation Time = 8 Hours

Liquid HCA Analysis Alignment Sheet

IntegrityPlus™

Fort Collins Mainline

SCALE 1 " = 1,000 '

0 500 1,000 2,000 3,000 Feet

Date: 04/07/15	0+00 to 300+15	001 of 003