

From: [Environmental Analysis](#)
To: [Assenza, Adam](#)
Subject: FW: [JIRA] (IMOV-9323) CSX Transportation, Inc.--Abandonment Exemption--in Muskegon, MI, STB Docket No. AB-55 (Sub-No. 807X)
Date: Monday, July 25, 2022 9:27:46 AM

FYI....

Danielle Gosselin
Director
Office of Environmental Analysis
Surface Transportation Board
danielle.gosselin@stb.gov
(202) 245-0300

From: deborah.brooks <ngs.infocenter@noaa.gov>
Sent: Thursday, July 14, 2022 7:43 PM
To: Environmental Analysis <OEA@stb.gov>
Subject: [JIRA] (IMOV-9323) CSX Transportation, Inc.--Abandonment Exemption--in Muskegon, MI, STB Docket No. AB-55 (Sub-No. 807X)

A comment is added on your issue:

**Re: CSX Transportation, Inc.--Abandonment Exemption--in
Muskegon, MI, STB Docket No. AB-55 (Sub-No. 807X)**
Issue resolved. No further action required.

National Geodetic Survey

From: [Environmental Analysis](#)
To: [Assenza, Adam](#)
Subject: FW: [JIRA] (IMOV-9323) CSX Transportation, Inc.--Abandonment Exemption--in Muskegon, MI, STB Docket No. AB-55 (Sub-No. 807X)
Date: Tuesday, June 21, 2022 3:42:39 PM

Danielle Gosselin
Director
Office of Environmental Analysis
Surface Transportation Board
danielle.gosselin@stb.gov
(202) 245-0300

From: deborah.brooks <ngs.infocenter@noaa.gov>
Sent: Tuesday, June 7, 2022 1:51 PM
To: Environmental Analysis <OEA@stb.gov>
Subject: [JIRA] (IMOV-9323) CSX Transportation, Inc.--Abandonment Exemption--in Muskegon, MI, STB Docket No. AB-55 (Sub-No. 807X)

A comment is added on your issue:

Re: CSX Transportation, Inc.--Abandonment Exemption--in Muskegon, MI, STB Docket No. AB-55 (Sub-No. 807X)

Good Afternoon Atty. Yasbin,

This is the data sheet information contained within the above attached file **MuskegonMI_BenchMark.txt**, which you were unable to open.

1 National Geodetic Survey, Retrieval Date = JUNE 1, 2022

OL0621 *****

OL0621 WATER LEVEL - This is a Water Level Survey Control Monument.

OL0621 DESIGNATION - A 317 RESET

OL0621 PID - OL0621

OL0621 STATE/COUNTY- MI/MUSKEGON

OL0621 COUNTRY - US

OL0621 USGS QUAD - MUSKEGON WEST (2017)

OL0621

OL0621 *CURRENT SURVEY CONTROL

OL0621 _____

OL0621* NAD 83(1986) POSITION- 43 13 03.2 (N) 086 19 16.7 (W) HD_HELD2

OL0621* NAVD 88 ORTHO HEIGHT - 178.285 (meters) 584.92 (feet) ADJUSTED

OL0621 _____

OL0621 GEOID HEIGHT - -33.901 (meters) GEOID18

OL0621 DYNAMIC HEIGHT - 178.247 (meters) 584.80 (feet) COMP

OL0621 MODELED GRAVITY - 980,407.5 (mgal) NAVD 88

OL0621

OL0621 VERT ORDER - FIRST CLASS II

OL0621

OL0621.The horizontal coordinates were established by autonomous hand held GPS

OL0621.observations and have an estimated accuracy of +/- 10 meters.

OL0621.
OL0621.The orthometric height was determined by differential leveling and
OL0621.adjusted by the NATIONAL GEODETIC SURVEY
OL0621.in January 2016.
OL0621
OL0621.Significant digits in the geoid height do not necessarily reflect accuracy.
OL0621.GEOID18 height accuracy estimate available here.
OL0621
OL0621.This Water Level Mark is designated as VM 21153
OL0621.by the CENTER FOR OPERATIONAL OCEANOGRAPHIC PRODUCTS AND SERVICES.
OL0621
OL0621.Click photographs - Photos may exist for this station.
OL0621
OL0621.The dynamic height is computed by dividing the NAVD 88
OL0621.geopotential number by the normal gravity value computed on the
OL0621.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
OL0621.degrees latitude ($g = 980.6199$ gals.).
OL0621
OL0621.The modeled gravity was interpolated from observed gravity values.
OL0621
OL0621; North East Units Estimated Accuracy
OL0621;SPC MI S - 192,627. 3,841,207. MT (+/- 10 meters HH2 GPS)
OL0621
OL0621_U.S. NATIONAL GRID SPATIAL ADDRESS: 16TEN5512385198(NAD 83)
OL0621
OL0621 SUPERSEDED SURVEY CONTROL
OL0621
OL0621 NAVD 88 (02/05/16) 178.289 (m) 584.94 (f) SUPERSEDED 3 0
OL0621
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OL0621.See file dsdata.pdf to determine how the superseded data were derived.
OL0621
OL0621_MARKER: DV = VERTICAL CONTROL DISK
OL0621_SETTING: 35 = SET IN A MAT FOUNDATION OR CONCRETE SLAB OTHER THAN
OL0621+WITH SETTING: PAVEMENT
OL0621_SP_SET: LIGHT BASE
OL0621_STAMPING: A 317 RESET 1993
OL0621_MARK LOGO: NGS
OL0621_MAGNETIC: N = NO MAGNETIC MATERIAL
OL0621_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
OL0621+STABILITY: SURFACE MOTION
OL0621_SATELLITE: THE SITE LOCATION WAS REPORTED AS NOT SUITABLE FOR
OL0621+SATELLITE: SATELLITE OBSERVATIONS - May 17, 2014
OL0621
OL0621 HISTORY - Date Condition Report By
OL0621 HISTORY - 1993 MONUMENTED NGS
OL0621 HISTORY - 20130102 GOOD MIDT
OL0621 HISTORY - 20140517 GOOD COOPS
OL0621
OL0621 STATION DESCRIPTION

OL0621

OL0621'DESCRIBED BY NATIONAL GEODETIC SURVEY 1993

OL0621'IN MUSKEGON, ALONG LAKE SHORE DIVE AT THE Y-FORK INTERSECTION OF
OL0621'EDGEWATER STREET. STATION IS ON PROPERTY OF THE VIKINGS LODGE, AT
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OL0621'FROM MR. WILLIAM JANDT WHO AT THE PRESENT TIME IS CHIEF OF THE
OL0621'VIKINGS LODGE, IN THE CONCRETE BASE OF THE MERCURY VAPOR LIGHT
OL0621'STANDARD, WHICH SHINES ON PARKING LOT OF THE VIKINGS LODGE, 77.6 FEET
OL0621'(23.7 M) WEST FROM THE NORTHWEST CORNER OF THE VIKINGS LODGE
OL0621'BUILDING, 60.5 FEET (18.4 M) NORTHEAST FROM THE CENTER OF LAKESHORE
OL0621'DRIVE, 36.0 FEET (11.0 M) EAST FROM A 24-INCH ASPEN TREE, 17.5 FEET
OL0621'(5.3 M) NORTHWEST FROM THE CENTER ONE OF THREE ENTRANCES INTO THE
OL0621'PARKING LOT OF THE VIKINGS LODGE, 0.5 FEET (15.2 CM) NORTHEAST FROM A
OL0621'CARSONITE WITNESS POST AND 0.5 FEET (15.2 CM) SOUTHWEST FROM THE
OL0621'LIGHT STANDARD. STATION IS ABOUT LEVEL WITH LAKESHORE DRIVE.

OL0621

OL0621 STATION RECOVERY (2013)

OL0621

OL0621'RECOVERY NOTE BY MICHIGAN DEPARTMENT OF TRANSPORTATION 2013 (MCW)
OL0621'RECOVERED AS DESCRIBED

OL0621

OL0621 STATION RECOVERY (2014)

OL0621

OL0621'RECOVERY NOTE BY NOAA COOPS 2014 (MRF)
OL0621'RECOVERED AS DESCRIBED.

=====

1 National Geodetic Survey, Retrieval Date = JUNE 1, 2022

OL0358 *****

OL0358 DESIGNATION - X 316

OL0358 PID - OL0358

OL0358 STATE/COUNTY- MI/MUSKEGON

OL0358 COUNTRY - US

OL0358 USGS QUAD - MUSKEGON WEST (2017)

OL0358

OL0358 *CURRENT SURVEY CONTROL

OL0358 _____

OL0358* NAD 83(1986) POSITION- 43 13 44.88 (N) 086 16 22.27 (W) HD_HELD1

OL0358* NAVD 88 ORTHO HEIGHT - 179.189 (meters) 587.89 (feet) ADJUSTED

OL0358 _____

OL0358 GEOID HEIGHT - -33.879 (meters) GEOID18

OL0358 DYNAMIC HEIGHT - 179.152 (meters) 587.77 (feet) COMP

OL0358 MODELED GRAVITY - 980,406.3 (mgal) NAVD 88

OL0358

OL0358 VERT ORDER - FIRST CLASS II

OL0358

OL0358.The horizontal coordinates were determined by differentially corrected

OL0358.hand held GPS observations or other comparable positioning techniques

OL0358.and have an estimated accuracy of +/- 3 meters.

OL0358.

OL0358.The orthometric height was determined by differential leveling and

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OL0358.in June 1991.

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OL0358.Click photographs - Photos may exist for this station.

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OL0358.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45

OL0358.degrees latitude ($g = 980.6199$ gals.).

OL0358

OL0358.The modeled gravity was interpolated from observed gravity values.

OL0358

OL0358; North East Units Estimated Accuracy

OL0358;SPC MI S - 193,822.8 3,845,171.4 MT (+/- 3 meters HH1 GPS)

OL0358

OL0358_U.S. NATIONAL GRID SPATIAL ADDRESS: 16TEN5904786516(NAD 83)

OL0358

OL0358 SUPERSEDED SURVEY CONTROL

OL0358

OL0358.No superseded survey control is available for this station.

OL0358

OL0358_MARKER: I = METAL ROD

OL0358_SETTING: 49 = STAINLESS STEEL ROD W/O SLEEVE (10 FT.+)

OL0358_STAMPING: X 316 1984

OL0358_MARK LOGO: NGS

OL0358_PROJECTION: FLUSH

OL0358_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL

OL0358_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

OL0358+SATELLITE: SATELLITE OBSERVATIONS - January 02, 2013

OL0358_ROD/PIPE-DEPTH: 23.2 meters

OL0358

OL0358 HISTORY - Date Condition Report By

OL0358 HISTORY - 1984 MONUMENTED NGS

OL0358 HISTORY - 19940724 GOOD USPSQD

OL0358 HISTORY - 20130102 GOOD MIDT

OL0358 HISTORY - 20180515 GOOD MIDT

OL0358

OL0358 STATION DESCRIPTION

OL0358

OL0358'DESCRIBED BY NATIONAL GEODETIC SURVEY 1984

OL0358'IN MUSKEGON.

OL0358'IN MUSKEGON, LOCATED AT THE WEST END OF WESTERN AVENUE, ABOUT

OL0358'20.72 METERS (68.0 FT) NORTHEAST OF THE CENTER OF A TURN AROUND

OL0358'CIRCLE, SET 10.51 METERS (34.5 FT) WEST OF THE CENTER OF THE WEST

OL0358'ENTRANCE LEADING NORTH TO THE WESTRAN CORPORATION, 10.97 METERS

OL0358'(36.0 FT) NORTH OF THE CENTER OF WESTERN AVENUE, 15.60 METERS

OL0358'(51.2 FT) SOUTHEAST OF THE SOUTHEAST RAIL, 14.44 METERS (47.4 FT) EAST

OL0358'OF THE WEST END POST OF A CHAIN LINK SECURITY FENCE, 20.20 METERS

OL0358'(66.3 FT) NORTHWEST AND ACROSS WESTERN AVENUE FROM A POWERLINE POLE

OL0358'WITH A STREET LIGHT ATTACHED, AND 0.3 METER (1.0 FT) SOUTH OF THE

OL0358'SECURITY FENCE. NOTE, ROD DRIVING RATE MET AND ROD ANCHORED.

OL0358'THE MARK IS 0.42 METERS SE FROM A WITNESS POST.

OL0358'THE MARK IS ABOVE LEVEL WITH WESTERN AVENUE.

OL0358

OL0358 STATION RECOVERY (1994)

OL0358

OL0358'RECOVERY NOTE BY US POWER SQUADRON 1994

OL0358'RECOVERED IN GOOD CONDITION.

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OL0358'RECOVERY NOTE BY MICHIGAN DEPARTMENT OF TRANSPORTATION 2018 (JP)

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If you encounter any difficulty or need anything else, please call me.

Regards,

Deborah Brooks

Communications Specialist

NGS Info Center

301-832-1063

1 National Geodetic Survey, Retrieval Date = JUNE 1, 2022

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OL0621 WATER LEVEL - This is a Water Level Survey Control Monument.

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OL0621 COUNTRY - US

OL0621 USGS QUAD - MUSKEGON WEST (2017)

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To: [Assenza, Adam](#)
Subject: FW: [JIRA] (IMOV-9323) CSX Transportation, Inc.--Abandonment Exemption--in Muskegon, MI, STB Docket No. AB-55 (Sub-No. 807X)
Date: Tuesday, June 21, 2022 3:42:49 PM
Attachments: [MuskegonMI_BenchMarks.txt](#)

Danielle Gosselin
Director
Office of Environmental Analysis
Surface Transportation Board
danielle.gosselin@stb.gov
(202) 245-0300

From: jacob.heck <ngs.infocenter@noaa.gov>
Sent: Thursday, June 2, 2022 7:49 AM
To: Environmental Analysis <OEA@stb.gov>
Subject: [JIRA] (IMOV-9323) CSX Transportation, Inc.--Abandonment Exemption--in Muskegon, MI, STB Docket No. AB-55 (Sub-No. 807X)

A comment is added on your issue:

Re: CSX Transportation, Inc.--Abandonment Exemption--in Muskegon, MI, STB Docket No. AB-55 (Sub-No. 807X)

I performed a desktop recon of the area, searching for marks in the NGS database. There are 2 marks that appear to be in or near the right-of-way: OL0621 and OL0358. Both have been recovered in good condition during recent years.

I have attached the data sheets for all of these marks as a file named MuskegonMI_BenchMarks.txt. [MuskegonMI_BenchMarks.txt](#)📎

National Geodetic Survey