

#E1-26520

Wood, Diana

From: Environmental Analysis
Sent: Monday, June 17, 2019 9:17 AM
To: Wood, Diana
Subject: FW: NGS Response, STB Docket No. AB-1273X

See data sheet
pages 3-6

FYI...

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

From: Deborah Brooks - NOAA Federal <Deborah.Brooks@noaa.gov>
Sent: Friday, June 14, 2019 5:00 PM
To: scarlough@clarkhill.com
Cc: Surface Transportation Board <sea@stb.dot.gov>; Christine Gallagher - NOAA Federal <christine.gallagher@noaa.gov>; Dan Martin - NOAA Federal <dan.martin@noaa.gov>
Subject: NGS Response, STB Docket No. AB-1273X

Thank you for informing the National Geodetic Survey (NGS) of New York & Greenwood Lake Railway (NYGL)'s decision to abandon approximately 1.0 mile of rail line between milepost 0.00 and milepost 1.10 in Bergen and Passaic Counties, N.J.

There could be geodetic survey marks located in the area described, and any marks still present could be disturbed by the abandonment. While it is illegal to disturb or destroy a mark, sometimes disturbing or destroying a mark is unavoidable. In such cases, the mark can often be preserved or reset with advanced planning. NGS provides the public with tools to search for and locate survey marks, see the NGS Data Explorer (<https://geodesy.noaa.gov/NGSDataExplorer/>).

If a mark will be disturbed by the abandonment, NYGL should consult with NGS at least 90 days prior to beginning salvage activities that will disturb, or destroy any geodetic marks identified nearby. Information is available online to help reset marks or report disturbed/destroyed marks:
<https://geodesy.noaa.gov/surveys/mark-recovery/index.shtml>.

This notice is also being shared with Dan Martin (dan.martin@noaa.gov, 240-676-4762) the Regional Geodetic Advisor, so he may work with any interested local agencies or stakeholders.

If you have additional questions, email NGS.Infocenter@noaa.gov.

Sincerely,

Deborah M. Brooks
Geodesist
deborah.brooks@noaa.gov

More information on preserving marks, mark resets, and destroyed marks.

Preserving Marks

Significant resources were invested to create an extensive geodetic network across the United States by establishing precise coordinates at physical survey marks. Disturbing or destroying these marks reduces geodetic control available to local surveyors, so please make every effort to preserve this valuable network.

Mark Resets

If a mark is about to be destroyed (e.g., due to planned construction), it may be possible to reset the mark and retain the geodetic control. Review the Bench Mark Reset Procedures (https://geodesy.noaa.gov/PUBS_LIB/Benchmark_4_1_2011.pdf) or contact your closest geodetic advisor (<https://geodesy.noaa.gov/ADVISORS/index.shtml>). Please do not attempt to reset a mark that has been separated from the base. Any remnants of destroyed marks must be properly discarded and not reused in any manner, as this is a violation of Federal law.

Destroyed Marks

If it is determined that a mark has been destroyed, please provide enough photo evidence to show how this determination was made. To submit this information to NGS, follow the instructions regarding “destroyed marks” on the Mark Recovery Entry web page (https://geodesy.noaa.gov/cgi-bin/recvy_entry_www.prl)

HEI-26520

The NGS Data Sheet

See file [dsdata.pdf](#) for more information about the datasheet.

PROGRAM = datasheet95, VERSION = 8.12.5.3

1 National Geodetic Survey, Retrieval Date = JULY 11, 2019

KV3915 *****

KV3915 DESIGNATION - BAR

KV3915 PID - KV3915

KV3915 STATE/COUNTY- NJ/BERGEN

KV3915 COUNTRY - US

KV3915 USGS QUAD - WEEHAWKEN (1995)

KV3915

KV3915 *CURRENT SURVEY CONTROL

KV3915

KV3915* NAD 83(1996) POSITION- 40 52 07.59248(N) 074 06 44.91326(W) ADJUSTED

KV3915* [NAVD 88](#) ORTHO HEIGHT - 1. (meters) 3. (feet) SCALED

KV3915

KV3915 GEOID HEIGHT - -32.103 (meters) GEOID12B

KV3915 LAPLACE CORR - 6.84 (seconds) DEFLEC12B

KV3915 HORZ ORDER - THIRD

KV3915

KV3915.The horizontal coordinates were established by classical geodetic methods and adjusted by the National Geodetic Survey in September 1999.

KV3915.

KV3915.The orthometric height was scaled from a topographic map.

KV3915

KV3915.Significant digits in the geoid height do not necessarily reflect accuracy.

KV3915.GEOID12B height accuracy estimate available [here](#).

KV3915

KV3915.The Laplace correction was computed from DEFLEC12B derived deflections.

KV3915

KV3915. The following values were computed from the NAD 83(1996) position.

KV3915

KV3915;	North	East	Units	Scale Factor	Converg.
KV3915;SPC NJ	- 226,048.499	182,665.760	MT	0.99991313	+0 15 12.9
KV3915;SPC NJ	- 741,627.45	599,295.91	sFT	0.99991313	+0 15 12.9
KV3915;SPC NY L	- 77,972.893	290,518.126	MT	0.99999495	-0 04 24.8
KV3915;SPC NY L	- 255,816.07	953,141.55	sFT	0.99999495	-0 04 24.8
KV3915;UTM 18	- 4,524,569.128	574,790.413	MT	0.99966885	+0 34 50.7

KV3915

KV3915! Elev Factor x Scale Factor = Combined Factor

KV3915!SPC NJ - 1.00000493 x 0.99991313 = 0.99991806

KV3915!SPC NY L - 1.00000493 x 0.99999495 = 0.99999988

KV3915!UTM 18 - 1.00000493 x 0.99966885 = 0.99967378

KV3915

KV3915: Primary Azimuth Mark

KV3915:SPC NJ - CHURCH 1913 224 08 37.2

KV3915:SPC NY L - CHURCH 1913 224 28 14.9

KV3915:UTM 18 - CHURCH 1913 223 48 59.4

KV3915

KV3915 U.S. NATIONAL GRID SPATIAL ADDRESS: 18TWL7479024569(NAD 83)

KV3915

KV3915|-----|

KV3915| PID Reference Object Distance Geod. Az |

		ddmmss.s
KV3915		
KV3915	KV3912 GARFIELD SCHOOLHOUSE CUPOLA	APPROX. 0.9 KM 0070858.4
KV3915	CB5673 BAR RM 2	03128
KV3915	KV3961 STREET	345.128 METERS 12822
KV3915	KV3946 GARFIELD HAMMERSCHLAG MFG TANK	APPROX. 0.9 KM 1354941.5
KV3915	KV3952 PASSAIC TALL YELLOW CHIMNEY	APPROX. 1.0 KM 1575827.5
KV3915	KV3936 PASSAIC GERA MILLS WATER TANK	APPROX. 1.1 KM 1670145.1
KV3915	KV3941 PASSAIC GEN CHEM BLACK CHIM	APPROX. 1.0 KM 1773605.9
KV3915	KV3966 CHURCH 1913	APPROX. 0.6 KM 2242350.1
KV3915	KV3955 ROOM	149.552 METERS 26358
KV3915	KV3956 PASSAIC RUSSIAN CATH CH SPIRE	298.586 METERS 26621
KV3915	CB5672 BAR RM 1	29254
KV3915	KV3925 PASSAIC BOTANY WORSTED CHIMNEY	APPROX. 0.7 KM 3104006.2
KV3915	KV3926 LOW 1913	449.541 METERS 3274711.9
KV3915	KV3924 CINDERS	APPROX. 0.6 KM 3435915.5

KV3915|-----

KV3915

KV3915 SUPERSEDED SURVEY CONTROL

KV3915

KV3915	NAD 83(1996)-	40 52 07.59234(N)	074 06 44.91363(W)	AD(	) 3
KV3915	NAD 83(1996)-	40 52 07.58925(N)	074 06 44.91784(W)	AD(	) 3
KV3915	NAD 83(1992)-	40 52 07.58911(N)	074 06 44.91804(W)	AD(	) 3
KV3915	NAD 83(1986)-	40 52 07.59650(N)	074 06 44.92583(W)	AD(	) 3
KV3915	NAD 27	- 40 52 07.23700(N)	074 06 46.40700(W)	AD(	) 3
KV3915	USSD	- 40 52 07.58100(N)	074 06 46.31200(W)	AD(	) 3

KV3915

KV3915.Superseded values are not recommended for survey control.

KV3915

KV3915.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

KV3915.See file [dsdata.pdf](#) to determine how the superseded data were derived.

KV3915

KV3915_MARKER: DR = REFERENCE MARK DISK

KV3915_SETTING: 36 = SET IN A MASSIVE STRUCTURE

KV3915_SP_SET: BRIDGE

KV3915_STAMPING: BAR 1913 1933

KV3915_MARK LOGO: CGS

KV3915_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL

KV3915

KV3915	HISTORY	- Date	Condition	Report By
KV3915	HISTORY	- 1913	MONUMENTED	CGS
KV3915	HISTORY	- 1933	SEE DESCRIPTION	CGS
KV3915	HISTORY	- 1933	GOOD	CGS
KV3915	HISTORY	- 1934	GOOD	CGS

KV3915

KV3915

STATION DESCRIPTION

KV3915

KV3915'DESCRIBED BY COAST AND GEODETIC SURVEY 1913 (SF)
 KV3915'STATION IS ON THE MONROE STREET BRIDGE BETWEEN PASSAIC AND
 KV3915'GARFIELD, A LITTLE W OF ITS CENTER AND THE LINE DIVIDING PASSAIC
 KV3915'AND BERGEN COUNTIES. THE STATION IS MARKED BY A TRIANGLE AND THE
 KV3915'LETTERS U.S.C. AND G.S. CUT IN THE SIDEWALK OF THE BRIDGE, 6
 KV3915'INCHES FROM THE EDGE. TWO CONCRETE POSTS, ONE MARKED, PASSAIC
 KV3915'COUNTY, AND THE OTHER, BERGEN COUNTY, SERVE AS REFERENCE MARKS
 KV3915'AND ARE RESPECTIVELY 53.3 FEET N 42 DEG E AND 68.1 FEET N 57
 KV3915'DEG W FROM THE STATION.

KV3915

STATION RECOVERY (1933)

KV3915

KV3915'RECOVERY NOTE BY COAST AND GEODETIC SURVEY 1933 (RWW)

KV3915'RECOVERED STATION IN GOOD CONDITION FROM THE DESCRIPTION. THIS

KV3915'STATION IS ON THE S SIDEWALK OF THE BRIDGE, AND WAS RE-MARKED.
KV3915'
KV3915'A COMPLETE DESCRIPTION FOLLOWS--
KV3915'
KV3915'THIS STATION IS OVER THE PASSAIC RIVER, IN PASSAIC ON THE
KV3915'MONROE STREET BRIDGE. IT IS ON THE S SIDEWALK NEAR THE CENTER
KV3915'OF THE SPAN.
KV3915'
KV3915'STATION IS NOW MARKED BY A STANDARD C. AND G.S. BRONZE DISK
KV3915'STAMPED BAR 1913-1933 CEMENTED IN A DRILL HOLE AND COUNTERSUNK
KV3915'1/2 INCH BELOW THE SURFACE OF THE CONCRETE SIDEWALK. THE
KV3915'ORIGINAL REFERENCE MARKS WERE NOT RECOVERED, NOR ANY NEW REFERENCE
KV3915'MARKS PLACED.
KV3915'
KV3915'REFERENCE MEASUREMENTS WERE TAKEN AS FOLLOWS--
KV3915'
KV3915'NORMAL TO OUTSIDE EDGE OF CURB 0.23 METERS.
KV3915'
KV3915'NORMAL TO OUTSIDE EDGE OF S SIDEWALK 2.52 METERS.
KV3915'
KV3915'NORMAL TO E END OF CONCRETE SIDEWALK OF SPAN 43.99 METERS.
KV3915'
KV3915'NORMAL TO W END OF CONCRETE SIDEWALK OF SPAN 37.35 METERS.
KV3915'
KV3915'THERE IS AMPLE ROOM AND GOOD FOOTING FOR CENTRAL TRIPOD SET-UPS
KV3915'ON THE CONCRETE SIDEWALK.
KV3915'
KV3915'STATION CHURCH IS DISTANT 591.0 METERS IN AZIMUTH 44 DEG 24 MIN
KV3915'00 SEC.
KV3915
KV3915 STATION RECOVERY (1933)
KV3915
KV3915'RECOVERY NOTE BY COAST AND GEODETIC SURVEY 1933 (RWW)
KV3915'STATION RECOVERED AS DESCRIBED, WITH THE FOLLOWING EXCEPTION--
KV3915'
KV3915'ONE REFERENCE DISTANCE SHOULD BE CHANGED TO READ NORMAL TO
KV3915'OUTSIDE EDGE OF S SIDEWALK, 2.52 METERS.
KV3915
KV3915 STATION RECOVERY (1934)
KV3915
KV3915'RECOVERY NOTE BY COAST AND GEODETIC SURVEY 1934 (RCB)
KV3915'STATION RECOVERED IN GOOD CONDITION AS DESCRIBED.

*** retrieval complete.

Elapsed Time = 00:00:04