Westwego - Harvey - Algiers
Polder Vertical Datum Report

Original Date: 1 April 2010
Expiration Date: 31 December 2010

USACE, New Orleans District
CEMVN-ED-SS
Purpose:

This Polder Vertical Datum Report contains detailed information about six National Spatial Reference System (NSRS) "Permanent Bench Marks" established by the National Geodetic Survey (NGS). For USACE-MVN projects that lie within the extent of the subject polder, these "Permanent Bench Marks" are approved for use by USACE-MVN-ED as "Vertical Project Control" for all designs, plans and specifications. This report also contains information (when available) on tide gauges within or near the Polder and their associated geodetic/tidal datum relationships.

Expiration Date:

Due to regional subsidence and global sea-level rise, the published elevations of the referenced benchmarks and the published tidal datum values at the referenced gauges (as well as the geodetic/tidal datum relationships computed therefrom) are time-dependant and subject to change. Therefore, the information contained in this report shall be updated on a regular basis (every year) and/or as new information becomes available.
Section 1: Westwego - Harvey - Algiers, Polder Bench Marks

The six National Spatial Reference System (NSRS) Permanent Bench Marks established by the National Geodetic Survey (NGS) and designated for use in this Polder are as follows:

**DESIGNATION: Q 368**

**PID:** AU2123

**STATE/COUNTY:** LA/JEFFERSON

**USGS QUAD:** NEW ORLEANS EAST (1992)

**LAT/LON:** N 29°52'33.06424" W 090°06'55.21762" NAD83(2007)

**NORTH/EAST:** N 502,396.15' E 3,666,840.25' SPC LA S (US feet)

**ELEVATION:** 2.3 feet NAVD88(2006.81)

**ELEVATION:** 2.3 feet NAVD88(2004.65)

**MARKER:** VERTICAL CONTROL DISK

**STAMPING:** Q 368 1984

**DESCRIPTION:** 2.4 KM (1.50 MI) NORTHERLY ALONG STATE HIGHWAY 45 (BARATARIA BOULEVARD) FROM THE JUNCTION OF STATE HIGHWAY 3134 IN MARRERO, THENCE 1.7 KM (1.05 MI) WESTERLY ALONG LAPALCO BOULEVARD, 21.1 M (69.2 FT) NORTH OF THE CENTERLINE OF THE WESTBOUND LANES OF THE BOULEVARD, 6.2 M (20.3 FT) EAST OF THE CENTER OF A ROAD LEADING TO THE MARRERO WASTE WATER TREATMENT PLANT AND WAREHOUSE AT 6250 LAPALCO BOULEVARD, 1.7 M (5.6 FT) EAST OF THE EAST POST OF A GATE, 0.5 M (1.6 FT) SOUTH OF A WITNESS POST AND THE SOUTHEAST CORNER OF A CHAIN-LINK FENCE ENCLOSING THE PLANT, AND 0.3 M (1.0 FT) BELOW THE LEVEL OF THE BOULEVARD. NOTE--ACCESS TO THE DATUM POINT IS THROUGH A 5-INCH LOGO CAP.

**DESIGNATION: G 365**

**PID:** AU2110

**STATE/COUNTY:** LA/JEFFERSON

**USGS QUAD:** NEW ORLEANS WEST (1992)

**LAT/LON:** N 29°54'39.52070" W 090°12'46.30718" NAD83(2007)

**NORTH/EAST:** N 514,854.25' E 3,635,808.80' SPC LA S (US feet)

**ELEVATION:** 0.6 feet NAVD88(2006.81)

**ELEVATION:** 0.8 feet NAVD88(2004.65)

**MARKER:** FLANGE-ENCASED ROD

**STAMPING:** G 365 1984

### DESIGNATION: E 368

**PID:** AU2109  
**STATE/COUNTY:** LA/JEFFERSON  
**USGS QUAD:** LULING (1992)  
**LAT/LON:** N 29°57'42.90256" W 090 16 39.48717" NAD83(2007)  
**NORTH/EAST:** N 533,183.13' E 3,615,118.29' SPC LA S (US feet)  
**ELEVATION:** 11.4 feet NAVD88(2006.81)  
**MARKER:** FLANGE-ENCASED ROD  
**STAMPING:** A 368 1984  
**DESCRIPTION:** 9.8 KM (6.10 MI) EASTERLY ALONG STATE HIGHWAY 18 FROM THE JUNCTION OF STATE HIGHWAY 52 IN LULING, 22.7 M (74.5 FT) NORTH OF THE NORTHEAST CORNER OF A FIRE STATION (VACANT), 21.5 M (70.5 FT) NORTH OF A FIRE HYDRANT, 6.3 M (20.7 FT) NORTH OF THE HIGHWAY CENTERLINE, 1.5 M (4.9 FT) SOUTHWEST OF A UTILITY LIGHT POLE, 0.7 M (2.3 FT) SOUTHWEST OF A WITNESS POST, AND 0.3 M (1.0 FT) BELOW THE LEVEL OF THE HIGHWAY. NOTE--ACCESS TO THE DATUM POINT IS THROUGH A 5-INCH LOGO CAP. RECOVERED IN GOOD CONDITION. NEW MEASUREMENTS. 94.0 M (308.4 FT) NORTHEAST OF THE EXTENDED CENTERLINE OF ALICE STREET, 78.0 M (255.9 FT) SOUTHWEST OF THE EXTENDED CENTERLINE OF LAUVE LANE, 46.2 M (151.6 FT) NORTHEAST OF A UTILITY POLE WITH INTER SAINT CHARLES PARISH SIGN ATTACHED, 21.3 M (69.9 FT) NORTH OF A FIRE HYDRANT SOUTH OF THE HIGHWAY, 1.4 M (4.6 FT) SOUTHWEST OF UTILITY POLE NUMBER 124, 0.7 M (2.3 FT) SOUTHWEST OF A WITNESS POST. LOGO CAP IS MISSING.

### DESIGNATION: V 375

**PID:** AT0760  
**STATE/COUNTY:** LA/ORLEANS  
**USGS QUAD:** CHALMETTE (1994)  
**LAT/LON:** N 29°55'01.55072" W 089°58'18.04269" NAD83(2007)  
**NORTH/EAST:** N 517,907.03' E 3,712,188.62' SPC LA S (US feet)  
**ELEVATION:** 2.2 feet NAVD88(2006.81)  
**ELEVATION:** 2.3 feet NAVD88(2004.65)  
**MARKER:** FLANGE-ENCASED ROD  
**STAMPING:** V 375 1985  
**DESCRIPTION:** THE STATION IS LOCATED IN NEW ORLEANS, ON WEST BANK, 4.5 MILES NORTH OF BELLE CHASE FERRY, 5.5 MILES SOUTHEAST OF GREATER NEW ORLEANS BRIDGE, OVER MISSISSIPPI RIVER, 0.5 MILES SOUTH OF CHALMETTE FERRY. OWNERSHIP- CORPS OF ENGINEERS. TO REACH THE STATION FROM THE INTERSECTION OF GENERAL DE GAULLE AVENUE AND SULLEN ROAD, NEAR THE BRIDGE OVER INTERCOASTAL WATERWAY, GO NORTH ON SULLEN ROAD TO PATTERSON DRIVE (LEVEE ROAD), TURN RIGHT ON PATTERSON DRIVE AND PROCEED EAST ON PATTERSON FOR 0.9 MILES TO BLYTHE ROAD, TURN RIGHT ON BLYTHE AND GO TO GATE ENTRANCE TO LOCKS, PASSING THROUGH GATE AND MARK ON LEFT NEAR GATE. THE STATION IS 22.6 FEET EAST OF CENTERLINE OF ENTRANCE ROAD TO LOCKS, 18.3 FEET SOUTHEAST OF THE EAST GATE POST FOR GATE, 107 FEET SOUTH OF A LIGHT POLE, 10 FEET SOUTH OF A WITNESS SIGN. STATION IS A STAINLESS ROD DRIVEN 25.6 METERS AND STAMPED V 375. RECOVERED IN GOOD CONDITION. RAISED LOGO CAP AND PUT CONCRETE AROUND IT BECAUSE ROD WAS 2 INCHES (5 CM) ABOVE CAP.
Section 2: Westwego - Harvey - Algiers, Polder Tide Gauge Network
(Complete for each tide gauge in Network)

The Local Tidal Datum LMSL/MLLW/MHHW (__________ tidal datum epoch) has been
determined at USACE/USGS/NOAA gauge ________________ on __________ through a
comparison of short-term data collected at this station with simultaneously observed data
collected at the long-term NOAA tide gauge station ________________ located ________________
__________________________. Documentation of the Local Tidal Datum determinations at this
tide gauge stations may be found at _______________________________________________.

The NAVD88:2004.65 elevation of the “gauge zero” of the above described gauge was
determined on ____________ with respect to permanent benchmarks ______, ______, ______.
This gauge was last inspected on ____________. Inspection level notes may be found in Survey
Section field book ________, pages __________. The full gauge inspection reports may be
found at ________________________________________.

Various geodetic datum/tidal datum relationships (e.g., the NAVD88:2004.65 and
NAVD88:2006.81 elevation of LMSL) at each of the above gauges may be found in the table
below.

Summary Tabulation of Geodetic/Tidal Datum Relationships

<table>
<thead>
<tr>
<th>Gauge ID</th>
<th>Agency</th>
<th>Tidal Datums with respect to Gauge Zero or Station Datum (in feet)</th>
<th>National Tidal Datum Epoch</th>
<th>Geodetic Elev. of Gauge Zero</th>
<th>Geodetic Elevation of Tidal Datums (in feet)</th>
<th>Reference: PBM/TBM, Geodetic Datum/Epoch</th>
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Section 3: Westwego - Harvey - Algiers, Polder Vertical Datum/Control Deficiencies

Local Tidal Datums at tide gauges _____________ need to be determined with respect to the current tidal datum epoch (2002-2006).

The “gauge zero” elevations of tide gauges _____________ need to be determined with respect to the NAVD88:2004.65/2006.81.

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