

Table 5 - Vertical Control Efforts Related to CBNERRVA Sentinel Site Monitoring.

Location	Benchmark Type	Location Lat	Location Long	Install Year	No. Occupations	Last Occupation	Ortho Height (Most Recent)	Ortho Height (Avg Geoid 12B)	Survey Type	Surveyed Infrastructure
GI Foundation Mark	Brass Disk in Foundation	37.214663	-76.404685	4/22/2010	13 Occupations	10/5/2017	0.892	0.913	RTK, Leveling	SET Transects 1,4, and 6; Cement North
GI North Mark	Marsh Concrete Mark	37.221438	-76.405266	7/16/2009	9 Occupations	5/18/2014	0.533	0.535	RTK, Leveling	Set Transects 4,5; Foundation Mark, 2014 Elevation Transects
GI WQ Mark	Marsh Concrete Mark	37.220342	-76.393515	7/16/2008	9 Occupations	3/5/2014	0.319	0.342	RTK, Leveling	SET 2-1 and Transect 3, 2013 to WQ Station, 2014 (Elevation Transects)
GI SET 1-2	ROD SET Mark	37.216012	-76.403491	7/15/2008	10 Occupations	6/29/2016	0.781	0.762	RTK, Leveling	SET Transect 1, 2014 (Elevation Transects), 2014 (MEM - Biomass and TSS Data)
GI SET 3-2	ROD SET Mark	37.219049	-76.398904	4/15/2011	6 Occupations	3/17/2016	0.512	0.525	RTK, Leveling	SET Transect 3, 2014 (MEM - Biomass and TSS Data).
GI SET 5-2	ROD SET Mark	37.218579	-76.410878	5/15/2011	10 Occupations	6/2/2017	0.757	0.758	RTK, Leveling	SET Transects 4 and 5; 2014 Elevation Transects
CI Upland Mark 21	Upland Deep Rod Mark	37.301966	-76.54079	5/16/2017	5 Occupations	6/20/2017	8.381	8.373	Leveling	SET Transect 1 and 3, Upland Mark 29, WQ Mark
CI Upland Mark 29	Upland Deep Rod Mark	37.306297	-76.550088	5/18/2017	Derived from Upland 21			8.009	Leveling	SET Transect 4 and Upland Mark 21
CI Upland WQ Mark	Upland Deep Rod Mark	37.29793	-76.534826	5/18/2017	Derived from Upland 21			3.562	Leveling	CI Tide Gauge
CI SET 1-2	ROD SET Mark	37.298614	-76.546227	7/12/2011	4 Occupations	9/8/2015	0.587	0.584	Leveling	Transect 1 SETS and Vegetation Plots and GW Wells
CI SET 2-2	ROD SET Mark	37.291393	-76.543221	8/5/2011	5 Occupations	7/17/2017	0.762	0.791	Leveling	Transect 2 SETS and Vegetation Plots and GW Wells
CI SET 3-1	ROD SET Mark	37.299237	-76.542578	3/8/2017	2 Occupations	5/4/2017	0.51	0.496	Leveling	Transect 3 SETS and Vegetation Plots; Upland Mark 21
CI SET 4-1	ROD SET Mark	37.304537	-76.553585	3/2/2017	2 Occupations	5/4/2017	0.517	0.515	Leveling	Transect 4 SETS and Vegetation Plots; Upland Mark 29
TC MET Mark	Upland Deep Rod Mark	37.414111	-76.712335	3/25/2008	13 Occupations	8/25/2017	10.83	10.862	RTK, Digital Leveling	TC WQ Mark, TC SET 1-2, Vegetation Plots (Transects 1-3), GW Wells
TC WQ Mark	Upland Concrete Mark	37.415136	-76.714251	6/11/2009	Derived from TC MET Mark	6/29/2017		2.73	Leveling	TC SWMP Station, TC Tide Gauge
TC SET 1-2	ROD SET Mark	37.413516	-76.715978	7/15/2008	8 Occupations	9/30/2015	0.667	0.675	Leveling	SET 1-1, Transect 1 Vegetation Plots and GW Wells
TC Croaker Road	Upland Deep Rod Mark	37.421611	-76.736212	3/17/2009	4 Occupations	5/16/2012	36.356	36.322	None	None to Date
SH MET Station	Upland Deep Rod Mark	37.569666	-76.888724	3/5/2010	6 Occupations	8/9/2017	5.223	5.22	Leveling	SET Transect 1, SH Landing Foundation Mark
SH Boat Landing	Disk in Foundation	37.571517	-76.884249	3/25/2010	2 Occupations	6/15/2012	0.748	0.746	Leveling	SH SWMP and Tide Gauge
SH ROD Set 1-3	ROD SET Mark	37.5683	-76.886977	4/15/2009	6 Occupations	3/14/2016	0.393	0.385	Leveling	Transect 1 SETS and Groundwater Wells
SH ROD SET 4-3	ROD SET Mark	37.565503	-76.897115	8/6/2009	11 Occupations	9/29/2017	0.321	0.338	Leveling	Transect 4 SETS and Groundwater Wells

Note: All RODS SETS can be used as part of a Vertical Control Network; however, for CBNERRVA, only including SETS which have been used as a base for leveling/RTK Efforts.