

SHEET _____

at NORTH SPIT, CA

[illegible]

TIDAL BENCH MARKS

B. M. 8767A at NORTH SPIT, CA

The bench mark is A STANDARD DISK STAMPED "8767A 1981" SET IN A CONCRETE BASE OF A FLAGPOLE FOR THE U.S. COAST GUARD STATION, HUMBOLDT BAY. IT IS 101 FEET NORTHWEST OF SEAWALL AT COAST GUARD STATION, 35.5 FEET WEST OF SOUTHWEST CORNER OF U.S. COAST GUARD STATION, 22.8 FEET NORTH OF RED FIRE HYDRANT, 5 FEET EAST OF WEST EDGE OF CONCRETE FLAGPOLE BASE, AND 0.9 FEET SOUTHWEST OF FLAGPOLE.

11/11/83 PTP-RAD
9/23/85 PTP-RAD

	Date			Above zero of Tide Staff	Above B. M. 9	Remarks
	Year	Month	Day	Feet	Feet	
Established by K. ANDRESEN	81	3	22	20.339	0.131	UNADJUSTED ELEVATION
Recovered by K. ANDRESEN	81	11	21	21.392	0.136	
A. SNELLA	83	4	15	20.133	0.130	
C. BENG	84	9	18	20.135	0.135	
P.O.G.	86	9	18	20.135	0.134	
POB	88	10	26	20.141	0.134	
NGS	88	8	30	20.135	0.136	
POB	90	9	25	20.138	0.136	
POS	92	5	6	20.124	0.136	
POS	92	9	8	20.130	0.139	
				ABOVE B.D.	ABOVE PBM 9	ALL values metric U.N.O. ↓
POS	94	9	13	9.2474	0.0424	
POS	95	8	31	9.2474	0.0424	

TIDES: BENCH MARKS FOR PERMANENT FILE

B. M. 8 at

North ~~Jetty~~ ^{SP. 17} - Humbolt Bay, California

DESTROYED

Original and Supplementary Descriptions

The bench mark is a standard disk, stamped "No. 8-1937," set vertically in south face of concrete oil house that is used by the Lighthouse Service. The house is 8 feet by 12 feet and 10 feet high, cast of solid concrete with 6-inch walls. The mark is set 1 foot above the door threshold and water table and 1 foot west of edge of door. An oil house is 12 meters north of the projected centerline of the Lighthouse Service Buoy Dock and 25 meters west of the end of the dock. 39 ft
82 feet

Nov. 19, 1945, H. C. Warwick--Recovered as described in good condition. Change description to read: "set vertically in the south face of the concrete oil house used by the Coast Guard, 1 foot above the door threshold, extended, and water table and 1.3 feet west of edge of door. The oil house, which is 8 feet by 12 feet by 10 feet high, is 82 feet west of the inshore end of the buoy dock and 39 feet north of the center line of dock (extended) and 28 feet east of center line of a gravel road." ✓

5/30/62 - I. R. Rubottom, Stamped "NO 8 1937" set vertically in south face of concrete building (8 feet x 12 feet x 10 feet high) used as a paint locker. It is 25.9 feet north of north entrance steps to Coast Guard Station, 127 feet north of Bench Mark 1, 1 1/2 feet east of southwest corner of building, 1 1/2 feet west of edge of door and 1 foot above door threshold extended.

Chief of Party	Date	Gauge Reading	Above B. M.	Remarks
Established by	Year	Month	Day	Feet
F. H. Hardy	1937	Aug.	26-27	16.578
Recovered by				
F. H. Hardy	1937	Sept.		16.555
O. W. Swainson	1938	May	9	16.586
H. C. Warwick	1945	Nov.	19	
I. R. Rubottom	1962	May	30	16.532
Humboldt State Coll.	1963	Feb	28	15.395

DESTROYED

DESTROYED

DESTROYED

PTP- 2/13/80 - Bench Mark 8 (1937) has been destroyed. The building it was set on is no longer in existence.

GPO
11-622

DESTROYED

DESTROYED

PTP- 2/13/80 - Bench Mark 8 (1937) has been destroyed. The building it was set in is no longer in existence.

TIDAL BENCH MARKS

B. M. 8767 at NORTH SPIT, HUMBOLDT BAY, Ca.

The bench mark is A NOS STANDARD DISK DEEP ROD (COPPER CLAD) MARK DRIVEN TO 44 FEET ENCASED IN A PVC PIPE PROTECTING 8 INCHES ABOVE GROUND, ABOUT LEVEL WITH GRADE, STAMPED "8767 1977", 11 FEET SOUTHWEST OF STOP SIGN, 32 FEET WEST NORTHWEST OF CENTER LINE OF STREET, 27.3 FEET SOUTH OF COAST GUARD GARAGE BUILDING #10 (NORTH ^{FROM} EAST CORNER), 125 FEET NORTHWEST OF NORTHWEST CORNER OF U.S.C.G. APARTMENTS ("DRIFTING SANDS").

DESTROYED

See Recovery Note of 2/13/80

	Date			Above zero of Tide Staff	Above B. M. 1	Remarks
	Year	Month	Day	Feet	Feet	
Established by R.A. MORRIS CTP	1977	AUG	16	27.140	+1.723	ABOVE BM 9 -3.060
Recovered by R.A. Morris	1978	OCT	7	27.147	1.723	-3.059✓ DESTROYED

EMK

May 6, 1920

Form 490

DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

TIDES: BENCH MARKS FOR PERMANENT FILE

B. M. 1 at NORTH JETTY, HUMBOLDT BAY, CALIFORNIA.

DESTROYED

Original and Supplementary Descriptions

The elevation of this bench mark is approximately feet above mean tide level. The bench mark is a concrete floor of the engine house at the intersection of the North rail and the side of the building facing Eureka which side is the entrance. This building houses the locomotives for hauling the rock cars out on the jetty.

(Acc. 86198: April 8, 1931, L. A. Pagenhart reports "The location of this B.M. is questionable as there is no mark to indicate its position. The concrete has been chipped off at the place where the description would indicate the location of the B.M. As the floor of the engine house is not level a slight change in position on the floor will give a different elevation. In place of B.M. 1 a standard disk called B.M. 2 has been placed in the engine house."

Chief of Party	Date			Gauge Reading	Remarks
Established by R. R. Lukens	Year 1919	Month Oct.	Day 18	Feet 13.18	
Recovered by F. R. Rabbittom	1962 May 30				

DESTROYED

(1929) TIDES: BENCH MARKS FOR PERMANENT FILE
B. M. 3/ at ^{Spit} North Jetty, Humboldt Bay, Calif.

Original and Supplementary Descriptions

The elevation of this bench mark is approximately _____ feet above mean tide level. The bench mark is a Coast and Geodetic Survey standard disk, stamped "3/1929", set in the east end of the concrete sidewalk which runs parallel and adjacent to the south side of the Humboldt Bay Coast Guard boathouse.

April 11, 1941, W. W. Fineren, Jr. reports that this bench mark could not be found. Members of the Coast Guard crew gave information that the bench mark has been destroyed several years ago.

Chief of Party	Date			Gauge Reading	Abund B.M. 2	Remarks
Established by A. P. Ratti	Year 1929	Month May	Day 23-24	Feet 16.534	- 0.43	
Recovered by						

EMK

Form 490

May 6, 1920

DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

TIDES: BENCH MARKS FOR PERMANENT FILE

B. M. 3 at NORTH ^{Spit} HUMBOLDT BAY, CALIFORNIA.

Original and Supplementary Descriptions

The elevation of this bench mark is approximately _____ feet above mean tide level. The bench mark is top of concrete piling north of Apron. Is the second piling from the inshore end.

(April 8, 1931, E. R. Pagenhart set a standard disk in the top of the pile which he called B.M. 3 in the place of B.M. 3.)

Chief of Party	Date			Gauge Reading	Remarks
Established by R. R. Lukens	Year 1919	Month Oct.	Day 18	Feet 8.86	
Recovered by					

DESTROYED

DESTROYED

TIDES: BENCH MARKS FOR PERMANENT FILE

B. M. 32.7 at NORTH JETTY, HONOLULU, HAWAII, TERRITORY.

Original and Supplementary Descriptions

The elevation of this bench mark is approximately feet above mean tide level. The bench mark is a standard C. S. S. L. brass disk located near the railroad track about 100 meters west of the U.S. Engineers office at North Jetty. B.M. 4 was stamped on the face of the disk. 1926 1927

May 23-24, 1929 - not recovered, believed to still exist but hidden by shifting sands. A.P. Ratti

Nov. 19, 1945, H. C. Warwick-- The U.S. Engineers office and railroad track no longer remain, but location of both were found with help of Mr. H. F. Brook of USED who advised that numerous engineers had searched for this mark without success, including a very exhaustive search by the County Engineer. A search was made but the mark was not recovered. The entire topography has changed since the mark was established. It is recommended that the mark be marked "lost" and deleted from the records. ✓

Chief of Party	Date			Gauge Reading	Remarks
Established by	Year	Month	Day	Feet	
L. H. Pagenhart	1931	Apr.	3	18.695	Beginning of tidal series
Recovered by					18.58
R. F. Luce	1922	May	22	18.572	Close of tidal series
R. F. Luce	"	"	"	15.026	above zero of U.S.E. T.S.
H. C. Warwick	1945	Nov.	19		Destroyed DESTROYED

TIDES BENCH MARKS FOR PERMANENT FILE

B. M. 5 at ~~ANSON CANY~~ HUMBOLDT BAY, CALIFORNIA

Original and Supplementary Descriptions

The elevation of this bench mark is approximately _____ feet above mean tide level. The bench mark is a U. S. S. S. standard brass disk set in the concrete floor of the engine house near the North Jetty. B.M. 5 is stamped on the face of the disk. (This B.M. 1921 takes the place of B.M. 1 reported lost.)

Nov. 19, 1945, H. C. Warwick--This mark was not recovered. The engine house remains, and is now used as storehouse for heavy equipment. As no indication is given in the description as to what part of the house the mark was set, a thorough search was not made. This would probably involve moving all of the heavy equipment from the building and scraping the oil-coated floor, which did not seem warranted, considering six marks were found in good condition $\frac{1}{2}$ mile distant. ✓

5/30/62 - I. R. Rubottom, Not found. Mark has apparently been destroyed when building was torn down.

Chief of Party	Date			Gauge Reading	Remarks
Established by	Year	Month	Day	Feet	
E. W. Fagenhart	1921	Apr.	6	15.277	Beginning of series 15.29 = mean value
Recovered by					
R. F. Luce	1922	May	22	15.310	Close of series
"	"	"	"	11.764	Above zero of U.S.E. T.S.
F. G. Engle	1928	July	30	11.355	From Tide Book T-247
A. P. Ratti	1929	May	23-24	15.697	

DESTROYED

DESTROYED

TIDES: BENCH MARKS FOR PERMANENT FILE

B. M. 6 at Point Ledge, HILBOLD BAY, CALIFORNIA.

Original and Supplementary Descriptions

The elevation of this bench mark is approximately _____ feet above mean tide level. The bench mark is a standard C. & G. S. brass disk set in the top of a concrete pile north of the apron. It is the second pile east of the inshore end of piles extending along the south side of the dock. (This B.M. takes the place of B.M. 5.)

Nov. 19, 1945, H. C. Warwick--Old dock washed away, ruins of old concrete piling found lying on the beach. Mark has been destroyed. ✓

Chief of Party	Date			Gauge Reading	Remarks	Change
<i>Established by</i> E. H. Pegenhart	Year	Month	Day	Feet		
	1921	Apr.	6	10.697	At beginning of series - 5, 6 <i>Mm = 10.91 ft</i>	
<i>Recovered by</i> R. F. Luce	1922	May	22	10.925	At close of series	- 5, 6
" "	"	"	"	7.379	Above zero of U. S. E. T. S. - 5, 6	
F. G. Engle	1928	July	30	6.945	From Tide Book T-247	- 5, 6
A. P. Ratti	1929	May	23-24	11.342		
H. C. Warwick	1945	Nov.	19		Destroyed ✓	

DESTROYED

TIDES BENCH MARKS FOR PERMANENT FILE

B. M. 7 at North Jetty, Humboldt Bay, Calif.

Original and Supplementary Descriptions

The elevation of this bench mark is approximately _____ feet above mean tide level.

The bench mark is

a Coast and Geodetic Survey standard disk, stamped "7/1929", set in the southeast foundation of the water tank on the premises of the U. S. Lighthouse Service tender. It is approximately 150 yards northwest of the Coast Guard Station.

Nov. 19, 1945, H. C. Warwick--Recovered in good condition. Change description to read: "set in the top of the southeasterly one of four concrete footings of an old water tank (tank no longer remains), across the road and about 150 yards northwest of the Coast Guard Station, 91 feet west of center line of road, 74 feet south of iron fence surrounding Naval Section Base (now abandoned), 28 feet east of concrete engine base, probably old pump base."

5/30/62 - I. R. Rubottom, Destroyed. The water tank and footings have been removed. Disk was found in uprooted foundation base.

*above
B.M. 9*

*-3.099
-3.115
-3.056
-3.088
4 12.358
-3.09*

Chief of Party	Date			Gauge Reading	Above B.M. 2	Remarks
Established by A. P. Ratti	Year 1929	Month May	Day 23-24	Feet 17.617	0.655	
Recovered by F. H. Hardy	1937	Aug.	26&27	15.260	0.645	
F. H. Hardy	1937	Sept.		15.235		
O. W. Swainson	1938	May	9	15.278		
H. C. Warwick	1945	Nov.	19			13.262 ft. above MLLW

TIDES BENCH MARKS FOR PERMANENT FILE

B. M. 10 at North Jetty - Humboldt Bay, California

Original and Supplementary Descriptions

a standard disk set
The bench mark is ⁱⁿ granite rock 3 feet across the top and 2 feet high, 4 feet south of the southeast corner of a small building at the end of Lighthouse buoy wharf, twenty feet from ^{the} high water line. The building mentioned has walls wetherboarded with shingles.

On Oct. 27, 1939, E. W. Eickelberg reports the bench mark is 100 meters north of C. G. boat house. It is set in a drill hole in a large granite rock 2 feet above surface. *4 ft. south of southeast corner of red-shingled house. It is stamped "B.M. #10 1938."*

Oct. 9, 1940, G. L. Bean reports that the bench mark is located just west of the west end of the old U. S. Lighthouse Service wharf.

Nov. 19, 1945, H. C. Warwick--Recovered as described in good condition. Add to description: "Building No. 4047.9, 18 feet north of center line, extended, of old buoy dock, 28 feet east of a gravel walk." After "Coast Guard" delete "boathouse" and insert "station."

5/30/62 - I.R. Rubottom, not recovered. A thorough search was made but no mark was found. There are no rock projections in the vicinity. The area has been recently graded and it would appear the mark has been destroyed.
Elevation: *11.0* above M. S. L., F-O Level net

Chief of Party	Date			Above zero of Tide Staff	Above B.M. 9	Remarks
Established by	Year	Month	Day	Feet	Feet	
O. W. Swainson	1938	May	9	16.188	-1.146	✓
Recovered by						
E. W. Eickelberg	1938	Oct.	7	16.180	-1.157	✓
E. W. Eickelberg	1939	Oct.	27	17.180	-1.198	✓
G. L. Bean	1940	Oct.	9	17.176	-1.205	✓
E. W. Eickelberg	1940	Oct.	27	17.180	-1.210	✓
G. L. Bean	1940	Nov.	23	17.180	-1.210	✓
H. C. Warwick	1945	Nov.	19		-2.267	14.083 ft. above MLLW ✓

(Continuation Sheet)

[illegible]

DESCRIPTION OF BENCH MARK

STATION NUMBER 941-8767	STATION NAME North Spit, Humboldt Bay	STATE California	COUNTY Humboldt
NEAREST TOWN Eureka		DISTANCE AND DIRECTION	
TYPE OF MARK Deep Rod	ESTABLISHED BY NOS	DATE ESTABLISHED 8-25-81	LEVELING DATE
SECTION _____, T _____, R _____		STAMPING "8767 B 1981"	

DETAILED DESCRIPTION

BENCH MARK B (1981) is a standard NOS tidal deep rod mark stamped "8767 B 1981", driven to a depth of 48 feet and set 3 inches below ground level. Mark is protected by a 4-inch PVC plastic pipe with cover encased in cement. The mark is set near a cyclone fence located near the northeast corner of the property of the Drifting Sands Apartment building complex. It is located 289 feet north of Bench Mark 1, 63 feet west of high water mark at Humboldt Bay, 53 feet northeast of the northeast corner of the easterly-most building of the Drifting Sands Apartments, 39 feet north of a red fire hydrant, and 3.8 feet northwest of a NOS metal witness post.

PTP 4/14/83 RAO.

PTP 9/18/84 RAO

POB 9/18/84 RAO

CHIEF OF PARTY (Signature)

[Signature]

	Date			Above zero of Tide Staff	Above B. M. ⁹	Remarks
	Year	Month	Day	Feet	Feet	
Established by NOS	81	8	25	NOT	LEVELED TO	
Recovered by K. ANDERSEN	81	11	21	26.321	4.935	
A. SPILLA	83	11	11	15.078	4.928	
C. B. M. B.	85	9	23	15.076	4.927	
P. D. G.	87	9	24	15.076	4.927	
NOS	88	8	30	15.074	4.925	UNADJUSTED
POB	89	9	29	15.073	4.926	
POS	91	10	1	15.077	4.925	
POS	92	5	6	15.078	4.919	
POS	93	9	24	15.076	4.918	
				ABOVE S. D.	ABOVE P. B. M. ⁹	All values metric ↓
POS	95	8	31	7.7059	1.4991	
POS	97	8	31	7.7066	1.4984	

(Continuation Sheet)

BENCH MARK: 8767 D 1981 at North Spit, CA (9418767)

[illegible]

DESCRIPTION OF BENCH MARK

STATION NUMBER 941-8767	STATION NAME North Spit, Humboldt Bay	STATE California	COUNTY Humboldt
NEAREST TOWN Eureka	DISTANCE AND DIRECTION		
TYPE OF MARK Deep Rod	ESTABLISHED BY NOS	DATE ESTABLISHED 8-25-81	LEVELING DATE
SECTION _____, T _____, R _____		STAMPING "8767 D 1981"	

DETAILED DESCRIPTION

BENCH MARK D (1981) is a standard NOS tidal deep rod mark stamped "8767 D 1981", driven to a depth of 48 feet and set 3 inches below ground level. Mark is protected by a 4-inch PVC plastic pipe with cover encased in cement. The mark is set inside a large planter box which is on the northwest corner of the Drifting Sands Apartment Complex. It is located 254 feet west of Bench Mark B (1981), 89 feet southeast of the southeast corner of the U. S. Coast Guard maintenance building number 10, 54.4 feet west of the northwest corner of the northerly-most building of the Drifting Sands Apartments, 51.4 feet south of the U. S. Coast Guard maintenance building number 9, 27.7 feet west of centerline of entrance road to U. S. Coast Guard Humboldt Bay, and 1.3 feet west of 12-inch by 12-inch railroad ties which surround planter box.

4/14/83 PTP-RAD 9/18/84 PTP RAD 9/18/84 PDB RAD

CHIEF OF PARTY (Signature)



	Date			Above zero of Tide Staff	Above B. M. ⁹	Remarks
	Year	Month	Day	Feet	Feet	
Established by NOS	81	8	25	NOT LEVELED TO		
Recovered by K. ANDERSEN	81	11	21	27.814	-3.442	
A. SNELLA	83	11	11	16.569	-3.437	
C. BENT	85	9	23	16.568	-3.435	
PDB	87	9	24	16.525	-3.438	
NBS	88	8	30	16.565	-3.434	
PDB	89	9	29	16.567	-3.432	
POS	91	10	1	16.570	-3.432	
POS	92	5	6	16.567	-3.424	
POS	93	9	24	16.571	-3.423	
POS	95	8	31	8.1607	-1.0443	All Values metric U.N.O. ↓
POS	97	8	31	8.1614	-1.0436	

(Continuation Sheet)

[illegible]

DESCRIPTION OF BENCH MARK

STATION NUMBER 941-8767	STATION NAME North Spit, Humboldt Bay	STATE California	COUNTY Humboldt
NEAREST TOWN Eureka		DISTANCE AND DIRECTION	
TYPE OF MARK Deep Rod	ESTABLISHED BY NOS	DATE ESTABLISHED 8-25-81	LEVELING DATE
SECTION _____, T _____, R _____		STAMPING "8767 C 1981"	

DETAILED DESCRIPTION

BENCH MARK C (1981) is a standard NOS tidal deep rod mark stamped "8767 C 1981", driven to a depth of 40 feet and set 3 inches below ground level. Mark is protected by a 4-inch PVC plastic pipe with cover that is encased in cement. Mark is set about 25 feet west of edge of the road way which is the entrance road for U. S. Coast Guard Station, Humboldt Bay. It is located 257 feet south of Bench Mark D (1981), 122 feet west of the northwest corner of a white pickett fence surrounding the Coast Guard Station, 34 feet west of the centerline of the road, and 2.5 feet south of a NOS wooden witness post.

4/14/83 PTP RAD 9/18/86 P06 - RAD
9/18/84 PTP RAD

CHIEF OF PARTY (Signature)



	Date			Above zero of Tide Staff	Above B. M. 1	Remarks
	Year	Month	Day	Feet	Feet	
Established by NOS	81	8	25	NOT LEVELED TO		
Recovered by K. ANDRESEN	81	11	21	26.515	-4.741	
A. SNELLA	83	11	11	15.268	-4.738	
C. BOML	85	9	23	15.266	-4.737	
P06	87	9	24	15.263	-4.740	
N6 S	88	8	30	15.265	-4.734	UNADJUSTED
P06	89	9	29	15.265	-4.734	
P05	91	10	1	15.267	-4.735	
POS	92	5	6	15.263	-4.724	
POS	93	9	24	15.269	-4.725	
				ABOVE S.D.	ABOVE PBM 9	All Values metric U.N.O. ↓
Pos	95	8	31	7.7641	-1.4409	
Pos	97	8	31	7.7652	-1.4398	

2165

RELEVELLING
ARCATA VIA EUREKA AND GARBERVILLE TO WESTPORT CA
RHK/NGS
30 AUG 1988
01 NOV 1988

PAGE 1
HGT L25053
4.0 MM 1ST-ORDER/CLASS 11

SPSN		ACRN		Designation		Spur Codes		Distance km		Observed Ht meters		Normal Ortho Ht meters		Runs		Latitude DD MM SS		Longitude DDD MM SS	
9503	LV0614	C	1402					0.000		13.40044		13.40044		0		40 53 51		124 04 55	
9502	LV0613	B	1402					1.269		15.84411		15.84413		1		40 53 09		124 04 43	
9501	LV0612	A	1402					2.140		17.84967		17.84970		1		40 52 45		124 04 51	
2501	LV0302	N	735					3.361		10.30543		10.30548		1		40 52 02		124 05 00	
2502	LV0301	F	75 RESET					3.425		10.37576		10.37581		1		40 52 07		124 05 06	
2503	LV0626	Z	1403					4.168		7.72625		7.72630		1		40 51 47		124 04 55	
2504	LV0340	U	1091					5.009		4.77647		4.77652		2		40 51 58		124 05 28	
2505	LV0341	V	1091					6.250		3.13350		3.13355		2		40 52 05		124 06 24	
2506	LV0627	Y	1403					8.204		0.98433		0.98438		2		40 52 07		124 07 45	
2507	LV0346	J	735 RESET					9.956		3.73233		3.73238		2		40 51 55		124 08 56	
2508	LV0344	W	1091					10.318		3.55387		3.55392		2		40 51 52		124 09 07	
2509	LV0347	X	1091					11.950		4.89930		4.89935		2		40 51 07		124 09 41	
2510	LV0628	X	1403					13.221		4.08093		4.08098		2		40 50 28		124 10 02	
2511	LV0350	Z	1091					14.680		3.93419		3.93424		2		40 49 43		124 10 17	
2512	LV0351	F	735					15.522		4.28672		4.28677		2		40 49 20		124 10 31	
2513	LV0352	941 8817 TIDAL 2						16.094		2.44046		2.44051		2		40 49 05		124 10 47	
2514	LV0629	W 1403						17.711		6.98919		6.98924		2		40 49 11		124 11 21	
2515	LV0354	Y 1091						19.509		11.34318		11.34324		2		40 48 19		124 11 42	
2516	LV0355	D 735						20.442		6.14907		6.14914		2		40 47 46		124 11 43	
2517	LV0357	A 735						22.656		3.21126		3.21134		2		40 46 47		124 12 26	
2520	LV0630	941 8787 C TIDAL						24.269		2.41600		2.41608		2		40 46 05		124 13 03	
2519	LV0631	941 8787 D TIDAL						24.360		2.81245		2.81253		2		40 46 07		124 13 01	
2518	LV0632	941 8787 B TIDAL						24.443		2.35774		2.35782		2		40 46 06		124 12 59	
2521	LV0633	941 8787 G TIDAL						24.534		3.37473		3.37481		2		40 46 02		124 13 00	
2527	LV0359	941 8787 TIDAL 11						24.555		3.34566		3.34574		2		40 46 01		124 13 00	
2522	LV0634	941 8787 A TIDAL						24.634		3.90036		3.90044		2		40 46 01		124 13 03	
2523	LV0635	941 8787 E TIDAL						24.676		2.78254		2.78262		2		40 46 01		124 13 05	
2524	LV0636	941 8787 F TIDAL						24.718		3.31921		3.31929		2		40 45 59		124 13 03	
2525	LV0361	941 8787 TIDAL 9						24.782		3.85911		3.85919		2		40 46 00		124 13 01	
2526	LV0360	941 8787 TIDAL 12						24.821		3.32263		3.32271		2		40 46 00		124 13 00	
2528	LV0637	V 1403						24.836		3.58771		3.58779		2		40 46 00		124 13 01	
2529	LV0626	TBM 941 8787 STAFF 14 FT						24.920		2.03064		2.03072		2		40 46 00		124 12 59	
2530	LV0299	P 735						5.508		7.72625		7.72630		1		40 51 47		124 04 55	
2531	LV0298	G 75 RESET						7.171		1.47378		1.47383		1		40 51 23		124 05 17	

UNADJUSTED OBSERVED ELEVATIONS
SUBJECT TO CHANGE AFTER ADJUSTMENT

7.927
9.227
9.124
10.890
11.072
10.972
10.901
11.771
11.662

Jan 24, 1996

Primary Benchmark History
9418767 NORTH SPIT, HUMBOLDT BAY CA USA

<u>Stamping</u>	<u>Begin Date</u>	<u>Zero Date</u>	<u>Elevation</u>	<u>Enterer</u>
NO 9 1937	08/16/1977	08/16/1977	9.2050	331