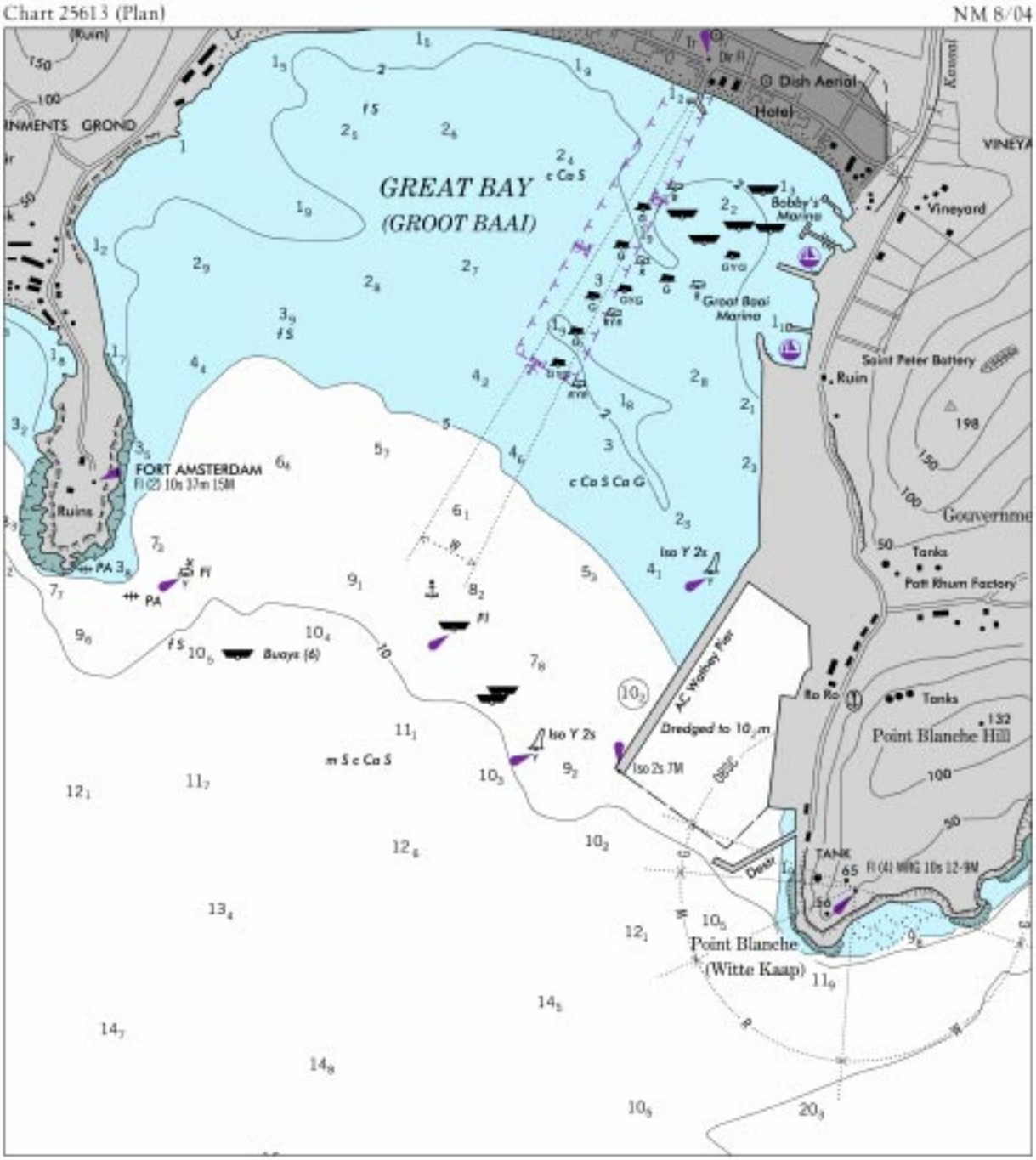
Chart 25613 (Plan)
NM 8/04
GREAT BAY
(GROOT BAAI)
Dish Aerial
Hotel
Bobby's Marina
Vineyard
Great Baai Marina
Saint Peter Battery
Ruin
FORT AMSTERDAM
Ruins
Tanks
Patt Rhum Factory
Iso Y 2s
AC Walkway Pier
Dredged to 10 m
Ro Ro
Point Blanche Hill
Buoys (6)
Iso 2s 7M
TANK
Point Blanche
(Witte Kaap)

Chart 12313 NM 8/04

SCHUYLKILL RIVER CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO OCT 2003

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT SCHUYLKILL RIVER DATUM					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH (FEET)
1	31.6	32.2	34.6	7,10-03	400	0.32	33
2	32.4	32.2	32.5	10-03	400	0.34	33
3	27.5	30.3	29.7	9-03	400	0.18	33
4	29.6	31.1	29.9	9-03	400	0.11	33
5	30.7	31.0	29.6	9-03	300	0.30	33
6	32.8	30.8	29.6	10-03	325	0.21	33
7	31.5	28.3	24.9	10-03	300	0.31	33
8	30.4	27.8	25.5	10-03	300	0.15	33
9	29.2	28.5	27.2	10-03	300	0.31	33
10	32.9	34.9	33.3	7-03	325	0.09	33
11	31.1	33.8	35.2	7-03	350	0.05	33
12	27.9	31.8	33.7	7-03	350	0.05	33
13	26.2	30.4	32.5	7-03	325	0.07	33
14	20.1	30.7	32.2	7-03	300	0.14	33
15	17.9	29.8	33.2	7-03	325	0.08	33
16	16.9	26.5	32.0	7-03	350	0.08	33
17	24.0	29.2	29.7	7-03	325	0.06	33
18	18.5	25.8	30.1	7-03	300	0.45	33
19	22.5	35.3	33.5	7-03	200	0.08	33-26
20	27.3	33.1	27.5	11-02	250	0.05	26
21	29.9	22.7	19.4	11-02	250	0.04	26
22	26.5	22.3	17.8	11-02	250	0.06	26
23	23.9	16.7	13.6	11-02	200	0.21	26
24	29.5	23.2	14.5	11-02	250	0.06	26
25	28.6	19.2	11.7	11-02	250	0.09	26
26	28.0	17.0	10.4	11-02	250	0.09	26
27	24.8	17.1	11.0	11-02	225	0.12	26
28	20.0	14.4	12.1	11-02	200	0.10	26
29	14.0	14.4	12.4	4,11-02	200	0.23	26-22
30	14.1	15.3	16.8	4-02	200	0.30	22
31	23.8	18.3	16.3	4-02	200	0.10	22
32	20.7	17.8	14.3	4-02	200	0.26	22
33	24.5	12.5	10.7	4-02	200	0.10	22
34	20.4	18.1	13.7	4-02	250	0.07	22
35	23.9	17.1	12.8	4-02	250	0.08	22
36	23.1	16.4	13.4	4-02	250	0.08	22
37	20.8	22.5	19.6	4-02	250	0.06	22
38	14.5	14.7	16.4	4-02	225	0.13	22

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 18523 NM 8/04

COLUMBIA RIVER CHANNEL DEPTHS
MILLER SANDS RANGE TO GULL ISLAND TURN AND CHANNEL

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF DECEMBER 2, 2003

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT COLUMBIA RIVER DATUM (CRD) * SEE FOOTNOTE						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (STAT. MILES)	DEPTH CRD (FEET)
MILLER SANDS RANGE	43	43	41	39	10-03	600	2.2	40
PILLAR ROCK LOWER RANGE	38	41	41	37	10-03	600	3.0	40
PILLAR ROCK UPPER RANGE	37	41	41	39	10-03	600	1.9	40
WELCH ISLAND REACH	42	43	45	38	10-03	600	3.2	40
SKAMOKAWA CHANNEL	24	42	43	37	11-03	600	3.3	40
STEAMBOAT REACH	50	48	45	42	11-03	600	1.4	40
PUGET ISLAND RANGE AND TURN	43	42	43	37	11-03	600	3.5	40
WAUNA RANGE	39	41	44	44	11-03	600	2.2	40
DRISCOLL RANGE	38	42	42	42	11-03	600	1.7	40
WESTPORT TURN AND RANGE	37	42	42	43	11-03	600	2.0	40
WESTPORT CHANNEL	40	43	42	42	8,11-03	600	2.4	40
EUREKA LOWER CHANNEL	42	43	43	43	8-03	600	2.1	40
EUREKA UPPER CHANNEL	42	42	42	41	8-03	600	0.8	40
OAK POINT CHANNEL	46	46	44	39	10-03	600	2.4	40
GULL I TURN AND CHANNEL	45	44	41	38	9,10-03	600	2.2	40

* CONTROLLING DEPTHS ROUNDED TO THE NEAREST FOOT
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES TO THE ABOVE INFORMATION

Chart 18525 NM 8/04

COLUMBIA RIVER CHANNEL DEPTHS
SAINT HELENS TURN TO TOMAHAWK BAR

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORTS OF DECEMBER 2, 2003

CONTROLLING DEPTHS IN FEET AT COLUMBIA RIVER DATUM (CRD) * SEE FOOTNOTE						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (STAT. MILES)	DEPTH CRD (FEET)
ST. HELENS TURN	43	42	42	42	11-03	600	1.7	40
WARRIOR ROCK RANGE	40	42	42	40	10-03	600	1.3	40
DUCK CLUB TURN	37	42	43	40	10-03	600	1.4	40
HENRICI RANGE	40	41	37	39	11-03	600	2.6	40
FALES CHANNEL	43	43	42	39	11-03	600	1.1	40
KNAPP POINT CHANNEL	38	40	39	38	10-03	600	1.8	40
WILLOW LOWER RANGE	39	41	41	38	10-03	600	2.1	40
WILLOW UPPER RANGE	41	43	41	44	10-03	600	1.1	40
MORGAN TURN	43	46	49	47	10-03	600	1.0	40
MORGAN CHANNEL	46	44	42	41	10-03	600	1.5	40
VANCOUVER LOWER CHANNEL	46	47	48	51	11-03	500	1.0	40
VANCOUVER RANGE	40	42	42	41	11-03	500	1.3	40
VANCOUVER UPPER CHANNEL	42	42	41	38	11-03	500	0.9	40
VANCOUVER LOWER TURNING BASIN	34	38	41	31	10-03	800	1.0	40
VANCOUVER UPPER TURNING BASIN	32	25	25	22	10-03	800	0.9	35
TOMAHAWK BAR	18	18	18	17	11-03	300	3.7	27

* CONTROLLING DEPTHS ROUNDED TO THE NEAREST FOOT
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 18526 NM 8/04

COLUMBIA RIVER CHANNEL DEPTHS
MORGAN CHANNEL TO TOMAHAWK BAR

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF DECEMBER 2, 2003

CONTROLLING DEPTHS IN FEET AT COLUMBIA RIVER DATUM (CRD) * SEE FOOTNOTE						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (STAT. MILES)	DEPTH CRD (FEET)
MORGAN CHANNEL	46	44	42	41	10-03	600	1.5	40
VANCOUVER LOWER CHANNEL	46	47	48	51	11-03	500	1.0	40
VANCOUVER RANGE	40	42	42	41	11-03	500	1.3	40
VANCOUVER UPPER CHANNEL	42	42	41	38	11-03	500	0.9	40
VANCOUVER LOWER TURNING BASIN	34	38	41	31	10-03	800	1.0	40
VANCOUVER UPPER TURNING BASIN	32	25	25	22	10-03	800	0.9	35
TOMAHAWK BAR	18	18	18	17	11-03	300	3.7	27

* CONTROLLING DEPTHS ROUNDED TO THE NEAREST FOOT
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 18531 (Lower Panel) NM 8/04

COLUMBIA RIVER CHANNEL DEPTHS
TOMAHAWK BAR TO BONNEVILLE LOCKS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF DECEMBER 2, 2003

CONTROLLING DEPTHS IN FEET AT COLUMBIA RIVER DATUM (CRD) * SEE FOOTNOTE					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (STAT. MILES)	DEPTH CRD (FEET)
TOMAHAWK BAR	18	18	17	11-03	300	3.7	27
AIRPORT BAR	17	18	17	10-03	300	2.8	27
GOVERNMENT ISLAND LOWER RANGE	14	17	16	10-03	300	1.1	27
GOVERNMENT ISLAND MIDDLE RANGE	15	16	16	10-03	300	1.6	27
FISHER QUARRY CHANNEL RANGE	29	26	21	10-03	300	1.0	27
GOVERNMENT ISLAND RANGE	25	29	26	10-03	300	1.1	27
GOVERNMENT ISLAND UPPER RANGE	17	18	23	10-03	300	0.8	27
LADY ISLAND RANGE	19	21	24	10-03	300	2.1	27
LADY ISLAND CHANNEL AND UPPER RANGE	28	30	20	10-03	300	0.9	27
WASHOUGAL LOWER RANGE	22	28	30	10-03	300	1.5	27
WASHOUGAL UPPER RANGE	18	29	29	10-03	300	1.1	27
GARY ISLAND RANGE	17	17	17	10-03	300	0.9	27
REED ISLAND RANGE	17	17	15	10-03	300	2.2	27
TUNNEL POINT CHANNEL	24	25	26	10-03	300	0.8	27
ROOSTER ROCK CHANNEL	26	23	25	10-03	300	1.2	27
CAPE HORN CHANNEL	34	32	31	10-03	300	2.4	27
CANDIANA CHANNEL	16	38	36	10-03	300	1.0	27
FASHION REEF LOWER RANGE	12	19	21	10-03	300	2.2	27
MULTNOMAH FALLS BAR RANGE	13	23	16	10-03	300	1.3	27
MULTNOMAH FALLS TURN	12	20	21	10, 11-03	300	0.8	27
MULTNOMAH FALLS UPPER RANGE	18	21	24	11-03	300	3.2	27
MCGOWANS CHANNEL	39	34	25	11-03	300	1.1	27
WARRENDALE LOWER RANGE	20	22	23	11-03	300	0.9	27
WARRENDALE UPPER RANGE	21	28	22	11-03	300	0.8	27
HAMILTON ISLAND REACH	21	30	27	11-03	300	0.9	27
ENTRANCE TO BONNEVILLE LOCKS	22	22	22	3-00	300	0.6	27

* CONTROLLING DEPTHS ROUNDED TO THE NEAREST FOOT

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 18587 NM 8/04

COOS BAY AND ISTHMUS SLOUGH CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE COPRS OF ENGINEERS - SURVEYS TO OCT 2003

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
ENTRANCE RANGE	39	39	39	9-03	---	1.9	47-37
ENTRANCE RANGE AND TURN	39	46	32	8-03	300-1050	0.5	37
INSIDE RANGE	38	38	38	8-03	300	0.6	37
COOS BAY RANGE	36	37	37	8,9-03	300	1.6	37
EMPIRE RANGE	36	37	38	9-03	300	1.3	37
LOWER JARVIS RANGE	36	37	36	10-03	300	0.8	37
JARVIS TURN	42	37	35	10-03	300	0.5	37
UPPER JARVIS RANGE	33	34	34	9-03; 10-03	300-700	1.9	37
NORTH BEND LOWER RANGE	39	38	35	9-03	400	0.4	37
NORTH BEND RANGE	33	37	36	10-02,3-03	400	0.9	37
NORTH BEND UPPER RANGE	36	38	37	3-03	400	0.6	37
LOWER TURNING BASIN	37	38	38	3-03	400-900	0.3	37
FERNDALE LOWER RANGE	39	39	39	3-03	400	0.4	37
FERNDALE TURN	37	38	38	3-03	400	0.2	37
FERNDALE UPPER RANGE	35	37	38	3-03	400	0.7	37
MARSHFIELD RANGE	37	37	36	10-02,3-03	400	0.4	37
MARSHFIELD RANGE TO ISTHMUS SLOUGH	37	37	32	3-03	150-750	0.9	37
ISTHMUS SLOUGH	19	20	19	4-85	150	2.0	22

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION