# 11140

11140

Diag. Cht. Nos. 229 and 1205 Insert.

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

# DESCRIPTIVE REPORT

Type of Survey Shoreline

Field No. Ph-114 Office No. T-11140

LOCALITY

State New Hampshire

General locality Portsmouth

Locality Oyster River

19**₫ 52**.

CHIEF OF PARTY
E.H.Kirsch, Chief of Party
I.R.Rubottom, Tampa Photo. Office

LIBRARY & ARCHIVES

September 15, 1958

#### DATA RECORD

#### T -11140

Project No. (II): Ph-114(53) Quadrangle Name (IV):

Field Office (II):

Chief of Party:

Photogrammetric Office (III):

Tampa, Florida

Officer-in-Charge: J. E. Waugh

Instructions dated ((1)):

20 February 1953

Copy filed in Division of Photogrammetry (IV)

Method of Compilation (III):

Graphic

Manuscript Scale (III):

1:10,000

Stereoscopic Plotting Instrument Scale (III): Inapplicable

Scale Factor (III):

None

APR 7

1953

Date received in Washington Office (IV):

Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV): 4/10/58

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III):

N. A. 1927

Vertical Datum (III):

except as follows:

Elevations shown as (25) refer to mean high water Elevations shown as (5) refer to sounding datum i.e., mean low water or mean lower low water

Reference Station (III):

DURHAM, COMMUNITY CHURCH SPIRE, 1850-1908

(1800.0 m.) Long.: 70° 55° 22".824 (515.9 m.)

Adjusted Micadosteck

Plane Coordinates (IV):

State:

Zone:

Y≔

Roman numerals indicate whether the item is to be entered by (II) Field Party, (III) Photogrammetric Office, or (IV) Washington Office.

When entering names of personnel on this record give the surname and initials, not initials only.

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M-2618-12(4)

#### DATA RECORD

Field Inspection by (II): None

Date:

Date:

Planetable contouring by (II):

Completion Surveys by (II): Date:

Mean High Water Location (III) (State date and method of location):

Air Photo Compilation 2 July 1952
(Office Inspection Only)

Projection and Grids ruled by (IV): J. Allen (W.O.)

Date: 13 Feb. 1953

Projection and Grids checked by (IV): H. D. Wolfe (W.O.)

Date: 16 Feb. 1953

Control plotted by (III): R. E. Smith Date: 26 Feb. 1953

Control checked by (III): I. I. Saperstein Date: 27 Feb. 1953

Radial Plot State Control 1953

CONTROL NO. M. M. Slavney

Planimetry Date:

Stereoscopic Instrument compilation (III): Inapplicable
Contours Date:

Manuscript delineated by (III): R. A. Reece Date: 27 March 1953

Photogrammetric Office Review by (III): I. Saperstein Date: 30 March 1953

.

Elevations on Manuscript Date:

checked by /// (III): None

. Camera (kind or source) (III): Single-lens

Remarks:

DEPARTMENT OF AGRICULTURE (Mark Hurd Mapping Company)

)		Number	PH Date	OTOGRAPHS (III) Time	Scale	Stage of Tide
	DQW-	9K-130 " -131 " -132	2 July 1952 "	10:30 10:35 10:35	1:10,000	2.9 <b>f</b> eet
				Tide (III)		Ratio of Mean   Spring
			FROM PREDIC PORTLAND, MAINE DOVER POINT, NEW	CTED TIDES		Ranges Range Range - 8.9 10.2 0.7 6.4 7.4
		Washington Office Revie	ew by (IV): Lua -	T. Steven	<u></u>	Date: 30 Nov. 1955
		Final Drafting by (IV):				Date:
)		Drafting verified for rep	roduction by (IV):			Date:
		Proof Edit by (IV):				Date:
			Toka ete karada perturaka Orzaneta esta xappasta xens			
		Number of BMs searche Number of Recoverable	n Stations searched for ( ed for (II): Photo Stations establishe Photo Hydro Stations estab	Recove		Identified: 🕳 Identified: 🕳

# Summary to Accompany T-11140

Field instructions were issued for Ph-114 on 13 March 1953 to provide shoreline and control for inshore hydrographic surveys and to provide standard shoreline manuscripts for chart compilation. The hydrographic phase of the survey was accomplished under instructions for C.S.-355, 6 March 1953, 29 January 1954, and 16 February 1955 - Gloucester Harbor, Massachusetts to Biddeford and Saco River, Maine.

T-11140 is one of Part A of the project. This part was compiled without benefit of field inspection. Subsequent to the hydrographic work, the shoreline was revised to conform to information received from the hydrographic party.

A cloth backed lithographic print of each map at manuscript scale and the descriptive report will be registered and permanently filed in the Bureau Archives.

\* Identification of cortest and shots inspection data was taken pormet to suion guardrangle (topo) mapping majert incolo 1.20000

# COMPILATION REPORT T-11140

#### PHOTOGRAMMETRIC PLOT REPORT.

This report will be submitted at a later date. Leforf 7 11 144

DELINEATION.

The graphic method was used.

Photographs were of fair scale. There was no field inspection. There were insufficient photographs to get more than two cut intersections on a number of detail points. All two point cuts were shown with short ticks.

Only one photograph covered the area along the OYSTER RIVER from Longitude 70° 54° 51" to Longitude 70° 55° 24". The shoreline in this area was delineated by the projector method.

# 32. CONTROL.

Sufficient pass points were located by the radial plot to control each photograph.

33. and 34.

Inapplicable.

# 35. SHORELINE AND ALONGSHORE DETAILS.

The M. H. W. L. was determined by stereoscopic examination of the photographs and delineated accordingly.

The limits of alongshore areas outside of the M. H. W. L. which may be shallow, shoal, grass-in-water, marsh, grass-and-mud, mud, etc. have been delineated by a dashed line. It is requested that such areas be investigated and properly classified.

# 36. OFFSHORE DETAILS.

None observed.

# 37. LANDMARKS AND AIDS.

To be located by the hydrographer.

# 38. CONTROL FOR FUTURE SURVEYS.

The recoverable topographic stations, (Form 52h), located on T-8526 ( ) were examined and none appeared to be usable as photo-hydro stations. Since the field photographs on which these stations were identified in 19h3 were not available, no attempt was made to locate them on the current survey.

#### 39. JUNCTIONS.

A satisfactory junction has been made with Survey T-11142 to the south. Survey T-11141 to the east does not have a shoreline which junctions with one on this manuscript. There are no contemporary surveys to the north and west.

#### 40. HORIZONTAL AND VERTICAL ACCURACY.

Refer to Photogrammetric Plot Report relative to horizontal accuracy.

# 46. COMPARISON WITH EXISTING MAPS.

Comparison was made with USC&GS Quadrangle T-8526 ( ). No shoreline differences of any importance were noted.

#### 47. COMPARISON WITH NAUTICAL CHARTS.

Comparison was made with USC&GS Nautical Chart No. 229, scale 1:30,000, published November 1914 and corrected to 26 January 1953. No outstanding differences were noted.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY.

None.

ITEMS TO BE CARRIED FORWARD.

None.

Richard A. Reece

Cartographic Photogrammetric Aid

APPROVED AND FORWARDED:

J. E. Waugh, Chief of Party

# 48. GEOGRAPHIC NAME LIST.

Only base map names have been shown. They were taken from USC&GS Nautical Chart No. 229.

# 49. NOTES FOR THE HYDROGRAPHER.

A number of temporary photo-hydro stations were selected in the Tampa Photogrammetric Office for use by the hydrographer. An effort was made to select stations about one-quarter of a mile apart; however, it was impossible in certain areas to prick any object whatsoever which could be positively recovered in the field.

The number and a brief description of each temporary photohydro station follows:

NUMBER	DESCRIPTION
046 MIL	Bush in center of small island.
OL7 DAY	SW corner of pier, the longer of two piers, and most westerly.
048 / AT	East gable of house, about 75 m. west of inlet.
OLIS NAG	Lone tree, the most SW of two trees, about 10 m. apart.
950 ROY	Lone tree, the most easterly of two trees, about 10 m. apart, on point of land.
051 IVY	Small lone bush about 5 m. inshore.
052 ADE	NW corner of pier.
054	Large lone tree, about 60 m. east of small stream.

A cable crossing shown on Nautical Chart No. 229 at approximate Latitude 43° 08° 03", approximate Longitude 70° 54° 24° could not be identified on the office photographs.

N. M. 16, April 17, 1954. Cable removed.

TIDE CONTATION

PROJECT NO. Ph. 114 T. 11140

Time and date of exposure 10:35 2 July 1952 Reference station FORTLAND, MAINE

Mean range

Date of field inspection

Subordinate station DOVER FOINT, NEW HAMPSHIRE

Ratio of ranges 0.7

Ė Time ဗ 9 Duration of rise or fall High tide Low tide

L.4		Range of tide
6.0	1.3	Low tide
5.0	7.5	High tide
of ranges	feet	
Height x Ratio	Height	

		Time
	'n.	E.
High tide at Ref. Sta.	9	ťo
Time difference	Ţź	ಜ
Corrected time at		
Subordinate station	7	덨

Subordinate station	Time difference 1, 30  Corrected time at Subordinate station 1, 2, 2, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3,	h. m.	Time	Time h. m. 12 01 13 30	Low tide at Ref. Sta. Time difference Corrected time at Subordinate station	<del> </del>
Subordinate station 13 34	Subordinate station	Low tide at Ref. Sta. 12 01, Time difference 41 30 Corrected time at	h. 12 0/	13 34	Subordinate station	

	ћ. m.		feet		feet	Photo. No.
Time 16/14/6/ L. T. Required time Interval	13 34 10 35 2 59	Ht. MCCXXX L. T. Tabular correction Stage of tide above MLW	0.9 2.0 2.9	Feature bares Stage of tide above MLW Feature above MLW		DQW-9K-131
Time H. T. or L. T. Required time Interval		Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		Feature bares Stage of tide above MLW Feature above MLW		
Time H. T. or L. T. Required time Interval		Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		Feature bares Stage of tide above MLW Feature above MLW		
Time H. T. or L. T. Required time Interval		Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		Feature bares Stage of tide above MLW Feature above MLW	,	
Time H. T. or L. T. Required time Interval		Ht. H. T. or L. T.  Tabular correction  Stage of tide above MLW		Feature bares Stage of tide above MLW Feature above MLW	;	
Time H. T. or L. T. Required time Interval		Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		Feature bares Stage of tide above MLW Feature above MLW		s = 0

50

# PHOTOGRAMMETRIC OFFICE REVIEW

# T- 11140

1. Projection and grids 1.1.S. 2. Title 1.1.S. 3. Manuscript num	bers4. Manuscript size
CONTROL STATIONS  5. Horizontal control stations of third-order or higher accuracy M.M.S. than third-order accuracy (topographic stations) I.I.S.7. Photo hydrogen photogrammetric plot report 1.	6. Recoverable horizontal stations of less o stations I.I.S. 8. Bench marks XXX I.S. 11. Detail points I.I.S.
ALONGSHORE AREAS	
(Nautical Chart Data)  12. Shoretine I.I.S.13. Low-water line XX 14. Rocks, shoals, to navigation XX 17. Landmarks XX 18. Other alongshore papers of the cultural features I.I.S.	etc. I.I.S. 15. Bridges I.I.S. 16. Alds Dhysical features I.I.S. 19. Other along—
PHYSICAL FEATURES  20. Water features XX 21. Natural ground cover XX 22. Pl instrument contours XX 24. Contours in general XX 25. features XX	
CULTURAL FEATURES  27. Roads XX 28. Buildings XX 29. Railroads XX 3	0, Other cultural features
BOUNDARIES  31. Boundary lines XX 32. Public land lines XX	
MISCELLANEOUS  33. Geographic names I.I.S.34. Junctions XX 35. Legibility of overlay XX 37. Descriptive Report I.I.S.38. Field inspection  40. I. I. Saperstein 99 Saperstein William Reviewer	T T C
41. Remarks (see attached sheet)	
FIELD COMPLETION ADDITIONS AND CORRECTION  42. Additions and corrections furnished by the field completion survey I manuscript is now complete except as noted under item 43.	
Compiler	Supervisor
43. Remarks:	M-2623-12

# ס**וננו –** ד REFERENCE ADVANCE REPORT FOR ALL DATA NOT SHOWN

Project No. (II): Ph-114(53)

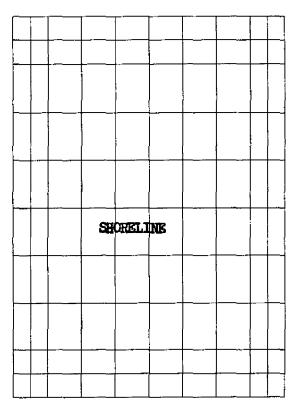
Quadrangle Name (IV): Chief of Party: E. H. Kirsch Field Office (II): NEWBURYPORT, MASS. Ira R. Rubottom Photogrammetric Office (III): TAMPA, FIA. Officer-in-Charge: Instructions dated (I) (III): 13 March 1954 Copy filed in Division of Supplement No. 1 - 28 March 1953 Photogrammetry (IV) No. 2 - 30 April 1953 No. 3 - 6 May 1953 No. 4 - 26 May 1953 No. 5 - 25 June 1953 Method of Compilation (III): Manuscript Scale (III): Stereoscopic Plotting Instrument Scale (III): Scale Factor (III): Date received in Washington Office (IV): Date reported to Nautical Chart Branch (IV): Date registered (IV): Applied to Chart No. Date: Publication date (IV): Publication Scale (IV): Vertical Datum (III): Geographic Datum (III): Mean sea level except as follows: Elevations shown as (25) refer to mean high water Elevations shown as (5) refer to sounding datum i.e., mean low water or mean lower low water Reference Station (III): Lat.: Adjusted Long.: Unadjusted Plane Coordinates (IV): State: Zone: Y= X=

Roman numerals indicate whether the item is to be entered by (!I) Field Party, (!II) Photogrammetric Office, or (IV) Washington Office.

When entering names of personnel on this record give the surname and initials, not initials only.

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M-2618-12(4)



Areas contoured by various personnel (Show name within area)
(II) (III)

# DATA RECORD

# REFERENCE ADVANCE REPORT FOR ALL DATA NOT SHOWN

Field Inspection by (II):		Date:	
Planetable contouring by (II): Ina	pplicable	Date:	
Completion Surveys by (II):	pplicable	Date:	
Mean High Water Location (III) (State of	date and method of location):		
Posterial and Published to (III)		D-4	
Projection and Grids ruled by (IV):		Date:	
Projection and Grids checked by (IV):		Date:	
Control plotted by (III):		Date:	
Control checked by (III):	`	Date:	
Radial Plot or Stereoscopic Control extension by (III):		Date:	
Stereoscopic Instrument compilation (III		Date:	
Annual de Constant by (III)	Contours	Date:	
Manuscript delineated by (III): R.	A. Reece	pate:	19 February 1954
Photogrammetric Office Review by (III):	J. A. Giles	Date:	30 March 1954
Elevations on Manuscript checked by (III):		Date:	

Camera (kind or source) (III):

		PHOTOGRAPHS (III)		
Number	Date	Time	Scale	Stage of Tide
	4			
		Tide (III)		
				Ratio of Mean   Spring
Reference Station:				Ranges Range Range
Subordinate Station				
Washington Office	Review by (IV): Lun	a J. Stew	····	Date: 30 Nov. 1953
Final Drafting by (I	(V):			Date:
Drafting verified fo	r reproduction by (IV):			Date:
Proof Edit by (IV):				Date:
,	an 200 meters to opposite an 200 meters to opposite			
Number of BMs se	rlation Stations searched fo arched for (II): rable Photo Stations establi	R	lecovered: lecovered:	Identified: Identified:
	rary Photo Hydro Stations e		÷	

Remarks:

\*One (1) additional station was identified and located by the field party.

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NO FIELD INSPECTION REPORT WAS SUBMITTED

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# COMPILATION REPORT T-11140

# PHOTOGRAMMETRIC PLOT REPORT.

This report will be submitted separately.

# 31. DELINEATION.

See Item 31 of the Advance Report.

All points with only two cuts have been shown with green circles.

Only those features that could be clearly seen on the photographs have been delineated.

#### 32. CONTROL.

See Photogrammetric Plot Report.

## 33. SUPPLEMENTAL DATA.

None.

### 34. CONTOURS AND DRAINAGE.

Contours are inapplicable.

The drainage has been delineated from office interpretation of the photographs.

#### SHORELINE AND ALONGSHORE DETAILS.

Reference Item 35 of the advance report. The areas described in paragraph two have been - almost without exception - delineated as marsh as a result of information from a member of the hydrographic party.

The low-water line, where located by the hydrographic party, has been shown with red pencil on the manuscript.

#### 36. OFF SHORE DETAILS.

Reference Item 36 of the advance report.

# 37. LANDMARKS AND AIDS.

Reference Item 37 of the advance report.

### 38. CONTROL FOR FUTURE SURVEYS.

Reference Item 38 of the advance report.

One (1) more photo-hydro station was identified and cut in by the field party. It has been listed with a short description under Item 49. Its position was checked in the compilation office and found to be correct.

### 39. JUNCTIONS.

Reference Item 39 of the advance report.

# LO. HORIZONTAL AND VERTICAL ACCURACY.

Refer to Photogrammetric Plot Report relative to horizontal accuracy.

# 46. COMPARISON WITH EXISTING MAPS.

Comparison was made with the map manuscript for USC&GS topographic survey T-8526 (  $\uparrow$ ), scale 1:20,000, and with Corps of Engineers quadrangle DOVER WEST, scale 1:25,000, 19 $\mu$  edition. The maps are in good agreement.

# 47. COMPARISON WITH NAUTICAL CHARTS.

Reference Item 47 of the advance report.

Richard A. Reece, Carto Photo Aid

Carto Photo -1

APPROVED AND FORWARDED:

Ira R. Rubottom, Chief of Party

# 48. GEOGRAPHIC NAME LIST.

Reference Item 48 of the advance report.

The following names were taken from the Corps of Engineers quadrangle DOVER WEST.

BACK RIVER ROAD BEARDS CREEK BUNKER CREEK

HORSEHIDE BROOK

JOHNSON CREEK

NEW HAMPSHIRE

STATE 108

OYSTER RIVER

SMITH CREEK

v. s. 4

Names approved

11-30-55

a.d. U.

# 49. NOTES FOR THE HYDROGRAPHER.

Reference Item 49 of the advance report.

The following photo-hydro station was identified in the field and is in addition to those identified in the compilation office:

COD - Lone bush on point

# PHOTOGRAMMETRIC OFFICE REVIEW

# T- .....סולננב.

1. Projection and grids J.G. 2. Title J.G. 3. Manuscript numbers J.G. 4. Manuscript size J.G.
CONTROL STATIONS  5. Horizontal control stations of third-order or higher accuracy H.M.S. 6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) 7. Photo hydro stations 8. Bench marks 9. Plotting of sextant fixes 10. Photogrammetric plot report 11. Detail points 1.0
ALONGSHORE AREAS  (Nautical Chart Data)  12. Shoreline
PHYSICAL FEATURES  20. Water features
CULTURAL FEATURES  27. Roads
BOUNDARIES  31. Boundary lines 32. Public land lines
MISCELLANEOUS  33. Geographic names J.G. 34. Junctions J.G. 35. Legibility of the manuscript J.G. 36. Discrepancy overlay XX 37. Descriptive Report J.G. 38. Field inspection photographs XX 39. Forms J.G. 40. Jesse A. Miles Junctions William A. Rasme william C. Review Supervisor, Review Section or Unit  41. Remarks (see attached sheet)
FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT  42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.
Compiler Supervisor  43. Remarks:  M-2623-12

TIDE CAMPUTATION



PROJECT NO. Ph-//4 T- 1//40 /

Time and date of exposure 10:35.2 2 4 43 Reference station

\_\_\_ Subordinate station DOVER \_ PT\_+ - NL +1\_\_

Ratio of ranges  $\Omega Z^{\prime}$ 

Mean range 6.4\_

Date of field inspection

	Height	Height x Ratio
	feet	of ranges
High tide	750	5,01
Low tide	1.3 4	0.9
Range of tide		4.1

Time h.

Duration of rise or fall

High tide Low tide

	Ξ	ime		
	<u>ሩ</u>	Ę		
High tide at Ref. Sta.	0	10	Low ti	, ţ
Time difference	1 +	30	Time	e
Corrected time at Subordinate station	7	315	Correct	rec

	Ξ.	lime
	h.	m.
Low tide at Ref. Sta.	61	40
Time difference	1.	30
Corrected time at Subordinate station	51	34-

	h. m.		feet		feet	Photo. No.
Time Hoff or L. T. Required time	13 34 / 25, 25, 2 59,	34 Ht. Hattage L. T. 35% Tabular correction 59ッ Stage of tide above MLW	2000	Feature bares Stage of tide above MLW Feature above MLW		OQW-9K-131
Time H. T. or L. T. Required time Interval		Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		Feature bares Stage of tide above MLW Feature above MLW		
Time H. T. or L. T. Required time Interval		Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		Feature bares Stage of tide above MLW Feature above MLW		,
Time H. T. or L. T. Required time		Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		Feature bares Stage of tide above MLW Feature above MLW		
Time H. T. or L. T. Required time Interval		Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		Feature bares Stage of tide above MLW Feature above MLW		
Time H. T. or L. T. Required time Interval		Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		Feature bares Stage of tide above MLW Feature above MLW		

Computed by

M-2617-12

### Review Report for T-11140 Shoreline Map 30 November 1955

#### 62. Comparison with Registered Surveys:

T-2903 1:10,000, 1908-09, Oyster River and parts of Great and Little Bays

Differences are due to natural cultural and shoreline changes. The shoreline has advanced in the former grass-in-water areas, which are now real marshes.

Aside from the low bluff symbol and the contours, the present survey supersedes T-2903 for charting purposes.

# 63. Comparison with Maps of Other Agencies:

USE Dover West, N. H., 1:25,000, 1952, from C&GS T-8526, 1942-43.

The maps are in good general agreement, except for additional piers and the removal of the cable over the river about a half mile east of the junction of U. S. Hwy 4 and State Hwy 108.

#### 64. Comparison with Contemporary Hydrographic Surveys:

H-8094 (ECFP 1753) 1:10,000, 1953

The shoreline is that of T-11140. A change was made just east of hydro-station IVY, but it is inside the MLWL. A road giving access to the pier at hydro-station ADE was added.

#### 65. Comparison with Nautical Charts:

229 1:30,000 Nov. 1914, corr. May 1948, Portsmouth to Dover and Exeter

Except for the low bluff symbol and the contours, T-11140 supersedes the chart in its area.

# 66. Accuracy:

Interior delineation meets the National Standards of Assuracy. Shoreline is delineated as accurately as office interpretation permits.

Reviewed by:

Tana III Sharrana

See must roge.

APPROVED BY:

Chief, Review Section Photogrammetry Division Chief, Nautical Chart Branch

Charts Division

Chief, Coastal Surveys Division\_

Chief, Photogrammetry Division
14 aug 19.8

of the area of this map was relatively weak compared to usual standards.

However, the short served solvio factorily for hydrography and the assurant of plothing is adequate for application to nautical should be supplied to application to satisfactories of solvies of should be supplied to supplied the supplied that