



# Appendix A USACE South Brooklyn Marine Terminal Port Infrastructure Upgrades Letter, March 21, 2022



This report shall not be reproduced, except in its entirety, without the written approval of SGS. Test results relate only to samples analyzed.

#### Dayton, NJ

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- · Chain of Custody
- · Summa Canister and Flow Controller Log

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- JOJ	SGS	forth America Inc Dayton		FED-EX Tracking #	Bottle Orde	er Control #			
		oute 130, Dayton, NJ 08810 29-0200 FAX 732-329-3		SGS Quote #	SGS Job#	3652	1		
Clien (Reporting information		www.sgs.com/ehsusa Project information		Weather P	arameters		ested Analysis		
Company Name	Project Name:		PD (,	Temperature (Fahrenheit)					
Address	Street	AVE 7 5	- ) &	Start:	Maximum:				
City (State Zip	City	· · · · · · · · · · · · · · · · · · ·	State	Stop					
1 ADSIDDAMY N) 07954	BROOKEN	J .	ÑΫ	Atmoshpheric Pressure (Inches					
BOB CANTAGALLO ROBERT. CANTAGALLO P.	Project #		1	Start:	Maximum:				
Phone # (973) 630 - 404	Client Purchase Order #			Stop:	Minimum:	>			
Sampler(s) Name(s)	I			Other weather comment:		— →			
A. VALU 9 CHELS BEBOS    Air Type   Sampling Equipm	ent Info	Start Sampling Inform	nation	Stop Samp	ling Information	<b>—</b>  ₹			
Lab						<b>—</b> 1			
Sample Soil Vap (SV) Canister Canister Size	Flow Controller	Time Canister (24hr Pressure	Temp Sampler	Time (24hr	Pressure Temp	Sampler 2			
# Field ID / Point of Collection Ambient (A) Serial # 6L or 1L	Serial # Date	clock) ("Hg)	(F) Init.	Date clock)	("Hg) (F)	Init.	<del></del>		
TT- SB-33SV SV A1363 6L.	FC541 12/08/		136 4	1408/21 1450	-3 43	Av.	FCE		
of TT-58-325√ SV A357 66.	12/08/2	0730 -30	36 AV	12/08/2 1453	-5 43	AV	FC7		
3 TT-SB-25SV SV M139 61.	FC 707 12 108 12	4 0747 -28	36 AV	12/08/71 1457	-4 43	AV			
4 TT-58-24SV SV A1325 6L.	Fc 928 1408/2	1 0753 -28	36 AV	12/08/21 1500	-4 43	AV V	<del></del>		
5 TT-58-395V 5V A743 6L.	MCOSS MOBIL	1 1844 -30	38 A√	1408/4 1552	-3 40	AV V			
6 TT-SB-375V SV MON 6L.	ME 269 12/08/2	4 0852 -29	38 AV	12/08/21 1556	-4 40	AV	C10		
TT-58-A A M163 6L.	PC 828 12/8/2	1 0757 -30	37 AV	1408/2 1626	~4e 40	AV V	3		
8 TT-58-195V SV A1364 6L.	FC421 12/8/21	0804 -30	27 AV	12/08/21 16029	-4 40	AV			
9 TT- 58-145V SV A1361 6L.	FC 610 12/8/21	0827 -30	37 AV	12/08/21 1632	-4 40	Av V			
10 Tt-58-165V 5V A1359 6L.	Mr. 232 12/08/1	10820 -28	37 AV	12/08/21 1649	-4 40	AV	111		
Turnaround Time ( Business days)		Data Deliverable Information	tion		Comments / Remarks				
Standard - 15 Days  10 Day  Approved By:	All NJDEP	TO-15 is mandatory Ful	IT1						
5 Day 3 Day	Comm B Reduced T2						-		
2 Day Date:	Full T1								
1 Day Other	Other: DKQP repor	ting		Sample inventory is veri	fied upon receipt in th	ne Laboratory			
Sample Custory must be docum Retinquished by Laptergroup   Date Tirgle:   Receives By:	ented below each time sam	ples change possession,	including courier	delivery.	Received By		<b>A</b>		
1 1/2 1/2 1/2/2011 (1)		2/10/2	- 17:33	12/9/2/	2 Hecmit	flete			
Religious by: Date Nime: Received By: 3		Relineushed By:	<del></del>	Date Time:	Received By:				
Relinquished by: Date Time: Received By:		Custody Seal #		<u> </u>					

Form:SM088-03D (revised 2-12-18)

http://www.sgs.com/en/terms-and-conditions

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SGS		N OF CUSTO	PAGE 2-OF 2 FED-EX Tracking # Bottle Order Control #				Z		$\neg$		
		2235 Rout TEL. 732-329	rth America Inc Dayton le 130, Dayton, NJ 08810 3-0200 FAX 732-329-3499 ww.sgs.com/ehsusa	SGS Quote #	50365 21			71			
Client / Reporting line	formation " "		eject fillog a son		Weal	her Parameters		F	Request	ed Analy	sis
Company Name		Project Name: 2 ND	WE + 33RD		Temperature (Fahrenhei	4		-		1 1	
Address TECH		Street	WE 7 33		Start:	Maximum:		- 1			
6 CENTURY DE		Sireet .			Stop	Minimum:		- 1	N.	1. 1	- 1
City State	Zip	City	St	ate				$\overline{}$	ᅦ	1 1	- 1
PARSIPPANY NJ	07954	B ZOOKW	<u> </u>	NY	Atmoshpheric Pressure Start:	(inches of Hg)		-	5	1 1	-
BOR CANTA GAMO ROBO	SET. CANTAGRAMO Q T	Project#		l -	Start	Maximum:		- 1	S		- 1
Phone # Fax #	Sel CANFAULT CO	Client Purchase Order #	<u> </u>		Stop:	Minimum:		- 1	オ	1 1	- 1
(7/3) 630 - 4043									Z		
Sampler(s) Name(s)  ALEX VALUE & CH	MS BEERS				Other weather comment			. 1	<b>V</b>		1
THE VALL & CA	Air Type   Sampling Equipme	nt Info	Start Sampling Informat	tion	Stop	Sampling Inforr	mation	-	-		
f f	All Type Sampling Equipme	iii iiio	Ctart Gampling informat		0.00	Jumping inten	T 1	-	0		
Lab	Indoor (f)	Flow	Time Canister le	<del>sterior</del>	Ti-	me Canister	Interior		+	1	1
Sample	Soil Vap (SV) Canister Canister Size	Controller		Temp Sampler		thr Pressure			>	1 1	
# Field ID / Point of Collection	Ambient (A) Serial # 6L or 1L	Serial # B Date		(F) Init.		ck) ("Hg)	(F)	init.	<del></del>	++	$\dashv$
11 TT-58-365V	SV 41358 6L.	Mc 189 12/08/2	-	37 AV	55	56 -4	<del></del>	AV	-	++	4
12 TT-SB-02SV	1717	M( 254 12/08/2		57 AV	100	700 -5	40	AV.	4	++	-
13 TT-58-175V	5V 41362 6L.	FC 13 NO2/2		37 AV	0/08/4 17	39 -4	40	Au	4	++	_ FC17
14 TT-58-215V	SV 41357 61.	FC917 12/02/8	6138 -30 :	30 AV	12/08/21 17	46 - 5	40	AV.	4	++	_
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Turnaround Time ( Business days			Data Deliverable Information			Comments			2000000	STANSAN O	-
Standard - 15 Days 10 Day	Approved By:	Comm A	TO-15 is mandatory Full T		CANISTER FO	(A 1357/P	(911)	Doesn,	TA	<b>Sherr</b>	2
5 Day		Comm B	$\vdash$		10 B6	ACTING	Paopea	44.			
3 Day		Reduced T2			3						- 1
2 Day	Dete:	Full T1			FC 179- R	eads 4"	H1646	a THI	m	ACTUA	n-
1 Day Other		Other: DKQP reporti			Sample inventory	s verified upon	receipt in the	e l ahorat	orv		
1 Joures	Sample Custody Must be docume			cluding courier		o vormed apoin	- Coopt in the				
Relinquished by Laboratory: Date Time:	Received By:		Refinquisted By	- 17:0	2 Date Time: /m/ 2	/ Received By		. (	rete	01	1.00
1 / 12/00/2	1 1220 1 // 1017	U	1/1012	1/3	> 12/9/2		/ermi-	<u> </u>	w	_	100
Relinquished by: Date Time:	Received by:		Relinquished By:		Date Time.	Received By					13.
Relinguished by: Date Time:	Received By:		Custody Seal #								$\dashv$
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Form:SM088-03D (revised 2-12-18)

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http://www.sgs.com/en/terms-and-conditions

## 300

## AIR SAMPLING EQUIPMENT RETURN FORM

CLI	ENT: Tetra Tech		PROJECT: 2nd Ave & 300	St
COI	NTROL#		JOB# JO 3652	· · ·
ALE	DITIONAL SUMMA CANIST	ERS	ADDITIONAL CONTROLLER FC730	s
And the second s				
REL 1	NOUISHED BY:	DATE & TIME: 12/91-21 17:33	RECEIVED BY:  JU36521: Chain of Pa	DATE & CMStody ge 3 of 4
REL	NQUISHED BY:	DATE & TIME:	RECEIVED	DATE & TIME:
Cus	ODY SEAL #'S:		# OF BOXES OR PIECES IN DELIVERY	
NO	ES.			
M086	<b>Q</b> 3			

Pub date: 3/12/18



KATHY HOCHUL Governor ERIK KULLESEID Commissioner

March 21, 2022

Christopher Minck Project Manager USACE 26 Federal Plaza 16-406 New York, NY 10278

Re: USACE

South Brooklyn Marine Terminal Port Infrastructure Upgrades

22PR01402

NAN-2021-01202-EMI

Dear Christopher Minck:

Thank you for requesting the comments of the New York State Historic Preservation Office (SHPO). We have reviewed the provided documentation in accordance with Section 106 of the National Historic Preservation Act of 1966. These comments are those of the SHPO and relate only to Historic/Cultural resources. They do not include other environmental impacts to New York State Parkland that may be involved in or near your project. Such impacts must be considered as part of the environmental review of the project pursuant to the National Environmental Policy Act and/or the State Environmental Quality Review Act (NY Environmental Conservation Law Article 8).

We note that the South Brooklyn Marine Terminal is not eligible for listing in the State and National Registers of Historic Places. We further note that the following State and National Register eligible or listed resources are adjacent to the project area: the Bush Terminal Historic District, the American Can Company building, the Gowanus Expressway Viaduct, Storehouse #2, U.S. Navy Fleet Supply Base, and Intermediate School 136. We have reviewed the report submitted to our office on March 1<sup>st</sup>, 2022. Based upon our review, it is SHPO's opinion that the proposed work will have No Adverse Effect upon historic properties.

If you have any questions, I am best reached via e-mail.

Sincerely,

Olivia Brazee

Historic Site Restoration Coordinator olivia.brazee@parks.ny.gov

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via e-mail only

cc: A. Sutherland, Maritime Administration

A. Rachleff and N. Stehling, AECOM



## **Appendix B** Photographs of Historic Resources



Looking west toward Pier 7 in National Register-eligible Bush Terminal Historic District from SBMT 39<sup>th</sup> Street "Pier." Dredging would occur in the "interpier" basin between remnants of Pier 7 and 39th Street "Pier." Improvements would be made to the 39<sup>th</sup> Street "Pier."



Looking south from 39<sup>th</sup> Street "Pier" at SBMT toward remnants of Pier 7 and Bush Terminal Historic District Buildings along waterfront.



Looking east from SBMT toward contributing buildings within Bush Terminal Historic District. Buildings face proposed upland improvements and dredging activity in the Project Area.



Looking northwest toward Gowanus Bay and SBMT 39<sup>th</sup> Street, east of First Avenue. Buildings on left side of photograph are contributing resources within Bush Terminal Historic District.



Looking southwest toward existing building structures at SBMT (39th Street "Pier"). SBMT has been determined not eligible for listing in the National Register. Structures and paving will be removed, and the area will be repaved.



Looking northwest toward existing building structure at SBMT (39th Street "Pier"); structure will be removed.



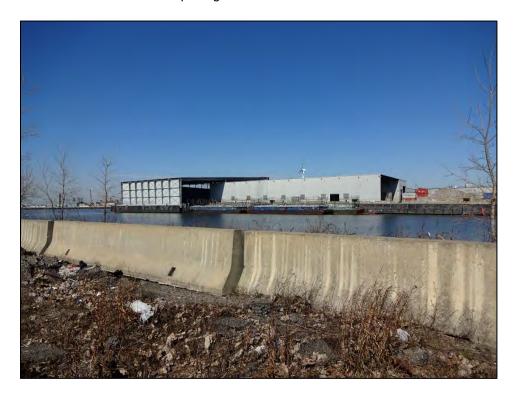
Looking west toward buildings at SBMT that will be removed (39th Street "Pier").



Looking east toward Tower Building at SBMT (land side of 35th Street "Pier"). Building will be removed.



Looking west toward Tower Building at SBMT; building will be removed. Pavement will be removed and new paving and structures installed.



Looking north from 35th Street "Pier" at SBMT toward contemporary recycling facility at 29th Street "Pier." 35th Street "Pier" will be repaved, a wharf installed into the "interpier" basin, and the basin will be dredged, as will the area to the west of the 35th Street "Pier."



Looking east from 39th Street "Pier" at SBMT toward National Register-listed Navy Storehouse No. 2 (shorter building). "Interpier" basin will be dredged and new paving and structures will be installed.



Close-up of Storehouse No. 2 from 39<sup>th</sup> Street "Pier" at SBMT. "Interpier" basin will be dredged and new paving and structures will be installed on the "pier".



Looking west toward National Register-eligible American Can Company at northeast corner of Second Avenue and 43<sup>rd</sup> Street. View between building and SBMT is obstructed by intervening development.



Looking toward east façade of American Can Company; façade faces Second Avenue.



Looking toward National Register-eligible Gowanus Expressway viaduct from Third Avenue. Views are intermittently blocked by intervening development.



View beneath Gowanus Expressway above Third Avenue.



National Register-eligible I.S. 136 at the corner of Fourth Avenue and 41st Street. Building is approximately 1,600 ft removed from SBMT. Looking northward from the south sidewalk of 41st Street



Looking south toward I.S. 136 from north side of 40th Street.



## Appendix C Full Benthic Macroinvertebrate Data

FULL BENTHIC MACROINVERTEBRATE DATA - Collected at South Brooklyn Marine Terminal Individuals collected from 3 x 0.1 meter-squared VanVeen grabs taken July 2020

Taxa/species	1	2	3	4	5	6	7	8	Ref 1	Ref 2
ANNELIDS										
Alitta succinea	0	0	1	4	1	1	1	11	1	0
Ampharete oculta	0	0	2	0	0	0	1	0	1	0
Amphitrite ornata	0	0	0	1	0	0	0	0	0	0
Capitella capitata	0	0	0	0	0	0	0	1	0	0
Cirratulidae sp.	0	3	3	1	2	9	0	0	0	1
Cossura sp.	0	0	21	9	0	2	0	4	0	5
Diopatra cuprea	0	0	5	11	2	1	0	1	0	0
Dipolydora socialis	0	0	1	0	0	0	0	0	0	0
Eumida sanguinea	0	0	0	0	9	3	0	2	0	0
Exogone dispar	0	0	0	1	0	0	0	0	0	0
Fabricia stellaris	0	0	0	0	0	0	0	1	0	0
Glycera americana	0	1	8	1	8	4	1	0	0	0
Glycera sp.	0	0	4	13	2	2	0	0	0	0
Glycinde solitaria	0	0	76	128	32	114	0	0	0	0
Gyptis vittata	0	0	6	2	1	0	0	2	0	2
Harmothoe imbricata	0	0	0	0	0	0	0	1	0	0
Heteromastus filiformis	0	0	20	27	0	0	0	0	0	0
Hypereteone heteropoda	0	0	3	2	0	1	0	2	1	0
Leitoscoloplos robustus	0	0	1	0	0	3	0	0	0	0
Leitoscoloplos sp.	0	1	6	10	17	28	2	16	0	0
Lepidonotus sublevis	0	0	0	1	0	0	0	0	0	0
Maldanidae sp.	0	1	2	0	0	1	0	0	0	0
Mediomastus ambiseta	0	6	133	294	6	39	11	27	11	5
Nephtys incisa	14	12	15	15	0	5	16	1	12	2
Nephtyidae sp.	0	0	0	0	0	1	0	1	0	0
Oligochaeta sp.	5	66	1374	1445	2	82	74	17	39	23
Onuphidae sp.	0	1	0	0	0	0	0	0	0	0
Odontosyllis fulgurans	0	0	0	1	0	0	0	0	0	0
Paranaitis speciosa	0	0	0	1	0	0	0	0	0	0
Paraprionospio pinnata	0	0	3	0	1	0	0	0	0	0
Parasabella microphthalma	0	0	1	7	0	2	0	15	0	0
Pectinaria gouldii	0	0	179	150	44	125	0	1	0	0
Phyllodoce arenae	0	0	0	0	1	0	0	0	0	0
Polydora cornuta	0	0	0	1	0	0	3	14	1	0
Prosphaerosyllis longicauda	0	0	0	1	0	0	0	0	0	0
Sabaco elongatus	1	1	8	43	0	22	7	0	0	0
Sabellidae sp.	0	0	0	1	0	0	0	3	0	0
Salvatoria clavata	0	0	0	1	0	0	0	1	0	0
Sige fusigera	0	0	0	0	1	0	0	0	0	0
Spiochaetopterus costarum ocula	0	0	33	17	21	28	0	0	0	0
Spionidae sp.	1	3	0	0	0	0	2	1	0	0
Sthenelais limicola	0	0	1	0	0	0	0	0	0	0
Streblospio benedicti	1	9	2	0	0	0	2	3	21	1
NEMATODA (ROUND WORMS)										
Nematoda sp.	0	0	39	86	5	54	1	124	0	0
NEMERTEA (RIBBON WORMS)										
Nemertea sp.	0	0	91	112	12	16	0	2	0	0
•										

FULL BENTHIC MACROINVERTEBRATE DATA - Collected at South Brooklyn Marine Terminal Individuals collected from 3 x 0.1 meter-squared VanVeen grabs taken July 2020

Taxa/species	1	2	3	4	5	6	7	8	Ref 1	Ref 2
PLATYHELMINTHES (FLAT WORMS)	0	0	1	0	0	1	0	1	0	0
Stylochus ellipticus	0	0	1	0	0	1	0	1	0	0
GASTROPODS	_	0.5	410	410	154	221	27	10	0	1
Acteocina canaliculata	5	85	419	419	154	321	36	19	8	1
Asmunda elegantula	1	0	1	2	0	43	2	1	1	0
Boonea bisuturalis	0	4	0	0	0	0	1	3	0	0
Boreotrophon clathratus	0	2	0	0	0	0	0	0	0	0
Epitonium angulatum	0	0	0	0	0	0	0	1	0	0
Gastropoda sp.	4	0	0	0	0	0	0	0	3	0
Japonactaeon punctostriatus	4	14	408	696	687	335	13	7	6	0
Odostomia eburnea	2	11	67	42	14	3	3	10	1	1
Oncchidorididae sp.	0	0	0	1	0	0	0	0	0	0
Neverita duplicata	0	0	0	0	0	1	0	0	0	0
Tritia obsoleta	0	1	12	0	0	1	8	1	6	0
Tritia trivittata	0	0	1	1	0	0	1	0	0	0
Turbonillinae sp.	0	0	0	0	0	0	0	0	1	0
Urosalpinx cinerea	0	0	0	0	0	0	0	14	0	5
BIVALVES	0	0	0	0	0	0	0	0	0	0
Amertilla agilis	0	0	7	1	1	0	3	1	0	0
Crepidula fornicata	0	0	0	0	0	0	1	0	0	0
Crepidula sp.	0	0	0	2	0	0	0	0	0	0
Ensis leei	0	0	0	0	0	0	1	0	0	0
Lyonsia hyalina	0	0	62	10	3	2	1	4	0	0
Macoploma tenta	0	0	0	0	0	1	0	0	0	0
Mercenaria mercenaria	0	0	2	2	0	1	0	2	0	0
Modiolus modiolus	0	0	0	0	0	0	0	0	2	0
Mulinia lateralis	0	11	3	2	8	7	32	5	1	0
Nucula proxima	0	1	5	3	0	0	1	0	0	0
Pandora inflata	0	0	23	8	3	6	0	0	0	0
Pitar morrhuanus	1	0	1	0	0	0	0	0	0	0
Turtonia minuta	0	0	3	4	1	1	0	0	0	0
Yoldia limatula	1	2	14	9	0	2	5	1	0	0
Yoldia myalis	0	0	0	0	0	0	1	0	0	0
Yoldia sapotilla	0	0	0	0	0	0	0	0	0	1
Yoldia sp.	1	0	8	3	0	2	2	2	0	0
ARTHROPODS										
Ampelisca abdita	5	73	15	11	32	15	60	7	35	7
Amphibalanus improvisus	0	0	0	2	0	0	0	0	0	0
Ampithoe longimana	0	0	0	0	0	3	0	0	0	0
Anoplodactylus petiolatus	0	10	16	68	17	13	10	2	5	1
Apocorophium acutum	0	0	0	0	0	0	0	2	0	0
Callinectes sapidus	1	1	0	0	0	0	3	4	3	0
Callipallene brevirostris	0	0	0	3	0	2	0	3	0	0
Caprella equilibra	0	0	0	2	0	1	4	1	0	0
Caprella penantis	0	0	0	0	0	14	0	0	0	0
Cerapus sp.	0	0	5	3	1	0	0	0	0	0
Crangon septemspinosa	0	1	1	0	0	1	4	9	0	5
Dyspanopeus sayi	0	0	0	1	0	0	0	0	0	0
Edotea triloba	1	1	0	4	13	3	0	4	1	0
Elasmopus levis	0	0	0	23	0	9	0	6	1	0
Emerita talpoida	0	0	1	0	0	0	0	0	0	0
Grandidierella japonica	0	1	0	0	1	0	1	195	0	0
Hippolyte sp.	0	0	0	0	0	1	0	0	0	0
ARTHROPODS (continued)	U	U	U	U	U	ı	U	U	U	U
Incisocalliope aestuarius	0	0	0	0	0	0	1	0	0	0
Jassa marmorata	0	0	0	1	0	0	1	0	0	0
					7					
Leucon americanus	0	0	4	2	/	0	2	0	0	1

FULL BENTHIC MACROINVERTEBRATE DATA - Collected at South Brooklyn Marine Terminal Individuals collected from 3 x 0.1 meter-squared VanVeen grabs taken July 2020

Taxa/species	1	2	3	4	5	6	7	8	Ref 1	Ref 2
Libinia dubia	0	0	0	1	0	0	0	0	0	0
Limnoria lignorum	0	0	0	0	0	0	0	3	0	0
Microdeutopus gryllotalpa	0	0	0	0	0	0	0	79	0	0
Minuca sp.	0	2	0	0	0	0	0	0	6	0
Oxyurostylis smithi	0	0	6	5	9	3	2	1	1	0
Palaemon pugio	0	0	0	0	0	0	0	1	1	1
Pagurus annulipes	0	0	0	0	0	0	0	0	1	0
Pagurus longicarpus	0	0	0	0	0	0	0	0	0	1
Paracaprella tenuis	0	0	0	2	0	4	0	10	0	0
Stenothoe sp.	0	0	0	2	0	0	1	0	0	0
Synidotea laevidorsalis	0	0	0	1	1	2	0	0	0	0
Unciola serrata	0	0	0	0	2	0	0	0	0	0
CNIDARIANS										
Diadumene leucolena	0	0	4	13	0	1	0	25	0	2
Edwardsia elegans	0	0	3	5	1	3	0	0	0	0
TUNICATES										
Molgula manhattensis	0	0	0	2	0	0	1	199	2	14
Stylela canopus	0	0	0	0	0	0	0	2	0	0
TOTAL NUMBER OF ORGANISMS	48	324	3130	3742	1122	1345	322	876	172	79
Density Per Square Meter	160.0	1080.0	10433.3	12473.3	3740.0	4483.3	1073.3	2920.0	573.3	263.3
Species Richness	16	27	53	65	36	52	40	56	27	19