/ESSEL CRUISE ID					4		()
VESSEL Northwest Ex	CRUISE I CRUISE I						E)	PROJECT &	LEG (if need	ed)	ст		me (None if data		
CTD consec CAST #	CTD consec CAST # LATITUDE DEG MIN DEG						GMT DATE	(note	if not)	GМТ	Time	Surface		BOTTOM DEPTH	STATION NUMBER	STN. NAME/ID
	DEG	MIN		DEG	MIN		DAY	МО	YR	HR	MIN	(*(C)	(m)		
2 pelste	58	13.266	N	135	31.960	w	27	JUL	1 6	15	09	9.	9	95	20036	ISA
Sensor IDS (in	itially & s	wap-outs)			Weather:					_						CTD MAX. DEPTH =
SBE type and S/N	1775															84
PRESS S/N					COMMENT: Diffi	cult	conditio	ns, factors	that m	ay affe	ct measu	rements	or aid pr	rocessing		
TEMP 1 82 SNs																
COND 182 S/Ns					secchi		epth:	4,4	~							
FLUOR S/N																
02 (SBE43) S/N																
Transmiss S/N					1											
PAR S/N				1, 3)												
O2 SBE42S/N													9,			
Nisk #	DEPTH	Rosette Notes			dro Team		GFF	>10 Lar	ge	GFF du		0 dup vol l	Phyto preserve		Comments of sample	

Nisk #	DEPTH	Rosette Notes	Hy	dro Team		GFF	>10 Large	GFF dup vol	>10 dup vol	Phyto	Comments or other	Nisk
NISK #	DESIRED		SALT Btl	Nul.Btl		vol	Vol	GFF dup voi	>10 dup vol (large)	preserve	samples	#
1	85	84		497			2760 out 10,4180 out 1111.1					1
2	30	30 496			250	250					2	
3	20	20 495			250						3	
4	10	10		494		230	250					4
5	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			,		1						5
6				-								6
7						1		ļ 				7
8	10								,		EDNA	8
9	0	2		493		250					•	9
10												10
11												11
12												12

/

VESSEL Northw	est Explorer	2016	CRUISE ID	Nulle	03		ROJECT & LEG BS leg	i (if needed	i)		ne (None if dat 3 1 6 9 3 2 c		1
CTD c		LATITUDE		LONGITUDE	- · · · · · ·	GMT DATE	(note if no	ot) GMT	Time	Surface Temp	BOTTOM DEPTH	STATION NUMBER	STN. NAME/ID
	DEG	MIN	DEG	MIN		DAY	MO Y	R HR	MIN	(°C)	(m)		
2	2 5'	3 14.323	N 135	29.4	80 w	27:	JUL 1	6 17	19	11.7	1170	20037	ISB
Sensor	IDS (initially	swap-outs)		Weather:									CTD MAX. DEPTH =
SBE type and	S/N												160
PRESS S/N	•			COMMENT	: Difficult	conditions	, factors that	may affec	t measu	rements or aid pr	ocessing		
TEMP 1 &2 SA	Vs.					_							
COND 182 S/1	Ns			Sec	chi:	6.3							
FLUOR S/N							2 k						
02 (SBE43) S	1				riftin	(~)	2 K	10ts					
						-							
Transmiss S/N			•)									
Transmiss S/N PAR S/N				. × No	o Ph	ufoplar	kron	Preses	ved	5/c N	iskin	dunped	early
				. × No	0 Ph	ytoplan W16032	k102	preser	ved	15/c N	iskia .	to per	early hyto:
PAR S/N		Posatta Notas		. * No	0 Ph 42 N	46032 W16032	200376	goes		b/c N	iskin (Om		
PAR S/N	DEPTH	Rosette Notes		. A No	o ph	Uforlar W16032 GFF vol	>10 Large Vol	GFF dup	vol >10) dup vol Phyto preserve	iskya .	Comments of sample	or other Nisk
PAR S/N O2 SBE42S/N NIsk #	DEPTH DESIRED		SALT BII	lydro Team	0 Ph 42 N	460 plan 1216032	>10 Large	goes	vol >10) dup vol Phyto	ishin (Dun	Comments of	or other Nisk
PAR S/N 02 S8E42S/N Nlisk # -	DEPTH DESIRED	100		Hydro Team Nut.Btl	0 Ph 42 N	GFF vol	>10 Large Vol	goes	vol >10) dup vol Phyto	iskin (Dan	Comments of	or other Nisk #
PAR S/N 02 SBE42S/N Nisk # -	DEPTH DESIRED	140		lydro Team Nut.Btl 502 501	0 Ph 42 N	46032 6FF vol	>10 Large	goes	vol >10) dup vol Phyto	iskin (Dun	Comments of	or other Nisk #
PAR S/N 02 SBE42S/N Nisk # -	DEPTH DESIRED Q 9 3 0 2 0	160 30 22	SALT Bu	A No 	0 Ph 42 N	GFF vol 250	>10 Large Vol	goes	vol >10) dup vol Phyto large) preserve		Comments of sample	or other Nisk #
PAR SN 02 SBE42S/N Nisk # - 1 2 3 4	DEPTH DESIRED	140		lydro Team Nut.Btl 502 501	0 Ph 42 N	46032 6FF vol	>10 Large Vol	goes	vol >10) dup vol Phyto		Comments of	or other Nisk #
PAR S/N 02 SBE42S/N Nisk # -	DEPTH DESIRED Q 9 3 0 2 0	160 30 22	SALT Bu	A No 	0 Ph 42 N	GFF vol 250	>10 Large Vol	goes	vol >10) dup vol Phyto large) preserve		Comments of sample	or other Nisk #
PAR SN 02 SBE42S/N Nisk # - 1 2 3 4	DEPTH DESIRED Q 9 3 0 2 0	160 30 22	SALT Bu	A No 	0 Ph 42 N	GFF vol 250	>10 Large Vol	goes	vol >10) dup vol Phyto large) preserve		Comments of sample	or other Nisk #
PAR S/N 02 SBE42S/N Nisk # 1 2 3 4 5	DEPTH DESIRED Q 9 3 0 2 0	160 30 22	SALT Bu	A No 	0 Ph 42 N	GFF vol 250	>10 Large Vol	goes	vol >10) dup vol Phyto large) preserve		Comments of sample	or other
PAR SN 02 SBE42S/N Nisk # - 1 2 3 4 5	DEPTH DESIRED Q 9 3 0 2 0	160 30 22	SALT Bu	A No 	0 Ph 42 N	GFF vol 250	>10 Large Vol	goes	vol >10) dup vol Phyto large) preserve		Comments of sample	or other Nisk # 1 2 3 4 5 6
PAR SN 02 SBE42S/N Nisk # - 1 2 3 4 5 6 7	DEPTH DESIRED 30 20	160 30 22 10	SALT Bu	A No 	0 Ph 42 N	GFF vol 250	>10 Large Vol	goes	vol >10) dup vol Phyto large) preserve		Comments of sample	1 2 3 4 5 6 7
PAR SN 02 SBE42SN Nisk # - 1 2 3 4 5 6 7 8	DEPTH DESIRED Q O 2 O	160 30 22 10	SALT Bu	A No. A No	0 Ph 42 N	GFF vol 250 250	>10 Large Vol	goes	vol >10	O dup vol Phyto preserve		Comments of sample	or other es # 1 2 3 4 5 6 7 8
PAR S/N 02 SBE42S/N Nisk # - 1	DEPTH DESIRED Q O 2 O	160 30 22 10	SALT Bu	A No. A No	0 Ph	GFF vol 250 250	>10 Large Vol	goes	vol >10	O dup vol Phyto preserve		Comments of sample	or other es # 1 2 3 4 5 6 7 8 9

VESSEL Northwe	st Explorer 2	016	CRUISE ID	1160	03		ROJECT & LE	G (if	needed)		СТД		ne (None if data ン1003 Z			
CTD cor	#	LATITUDE		LONGITUDE		GMT DATE	(note if i		GMT	Time	Surface 1		BOTTOM DEPTH	STATION NUMBER	STN NAME	
	DEG	MIN	DEG	MIN		DAY	МО	YR	HR	MIN	(°C)		(m)			
3	58	15.393	135	27.17	77 W	27	ZOF 4	6	19 5	57	12.	9	251	20038	IS	
Sensor II	DS (initially & :			Weather:								-			CTD MAX. DE	EPTH =
SBE type and S/I						4									190	4
PRESS S/N				COMMENT	: Difficult	conditions	, factors the	at ma	y affect m	1easur	ements or	aid pr	ocessing			,
TEMP 1 82 SNs	AP 1 82 SNs					· ·										
COND 182 S/Ns	ND 182 S/Ns				ch: 6,	\$										
FLUOR S/N	-				0,1	· U										
02 (SBE43) S/N	_															
Transmiss S/N	_			T!												
PAR S/N																
O2 SBE42S/N			- 12													
Nisk#	DEPTH	Rosette Notes	Ну	/dro Team		GFF	>10 Large	Τ,	SFF dup vol	>10	dup vol Phy	yto		Comments o	rother	Nisk
IVISK #	DESIRED		SALT Btl	Nut.Bti		vol	Vol		ar aup voi	(la	arge) pre	eserve		sample	S	#
1	200	197		507												ı
2	30	32		506		250	250									2
3	20	20		505		250										3
4	10	10		50.4		250	250				Ze	300		لانونا		4
5														1		5_
6																6
7					L.											7
8	10	10		504		z 50								PNNI	4	8
9	0			503		250		,								9
10																10
11																11
12																12

vessel Northw	ESSEL CRUISE I					03		PROJECT &	LEG (if needed) —)	СТД		ne (None if data			
CTD c			LATITUDE		LONGITUD		GMT DATE	(note	if not)	GMT	Time	Surface '		BOTTOM DEPTH	STATION NUMBER	STI NAME	
		DEG	MIN	DEG	. WI	N	DAY	МО	YR	HR	MIN	(°C))	(m)			
	1	58	16.270.	135	24.3	71 v	128	ゴリト	1 6	02	30			217	20039	工工	1
Sensor	IDS (init	ially & sv	vap-outs)		Weather	;		•								CTD MAX. D	EPTH =
SBE type and	S/N							W								31	
PRESS S/N								ıs, factors									
TEMP 1 &2 Si														se col	ji: G.	8 m	
COND 182 S/	ND 182 S/Ns				TE	awl	FIME:	cable		issu	H25.						
FLUOR S/N	UOR S/N				R	eplace	d	9 pin	(Clapto	PI	to do	ech	Unit!	work	راه	
02 (SBE43) S	/N		1								•						
Transmiss S/N	-			-1 -	3	ongo	<u></u>	C1	D_								
PAR S/N						. J											
O2 SBE42S/N			-														
		EPTH	Rosette Notes	Н	ydro Team		GFF	>10 Lar	7.0		>10	O dup vol Ph	mdo		Comments of	r other	
Nisk# -	D	ESIRED		SALT Btl	Nut.Btl		vol	Vol	ge	GFF dup v	CH I		reserve		sample		Nisk #
1	20	0	200	93	513												1
2	30		30	·	512		250	257	, -							**********	2
3	20		20		511		757	- 1									3
4	10		10		510		250	251			*****			-		**********	4
5																	5
6																*********	6
7																	7
8	16)	15												eDNA		8
9	0	••••	2		509		250										9
10																	10
11																	11
12																	12

VESSEL Northy	vest Explorer 2	016	CRUISE ID	NWI	603		PROJECT & LEG NBS leg	(if needed)			ne (None if dat 60370		
	consec ST #	LATITUDE		LONGITUDE		GMT DATE	(note if no	ot) GMT	Time Surf	ace Temp	BOTTOM DEPTH	STATION NUMBER	STN. NAME/ID
	DEG	MIN	DEG	MIN		DAY	мо ү	R HR	MIN	("C)	(m)		
1-	7 57	53.581	N 137	42.29	59 w	30	JUL 1	6151	5 1	1.	959	20052	IPA
Senso	r IDS (initially & s	wap-outs)		Weather:	•							CI	TD MAX. DEPTH =
SBE type and	I S/N											2.00	
PRESS S/N				COMMENT	Γ: Difficult	condition	s, factors that	may affect m	easuremen	s or aid pr	ocessing		
TEMP 1 82 S	iNs												
COND 182 S	/Ns												
FLUOR S/N													
LOUI AN	_			_									
02 (SBE43) S	_										10000 41-0		
O2 (SBE43) S Transmiss S/f	_										Turne se ure a		
O2 (SBE43) S Transmiss S/I PAR S/N	N						222 - 23 - 2						
02 (SBE43) S Transmiss S/I PAR S/N	N	Bocatta Notae		lydro Team						-			
O2 (SBE43) S Transmiss S/I PAR S/N	N	Rosette Notes	1	lydro Team		GFF vol	>10 Large Vol	GFF dup vol	>10 dup v (large)	ol Phyto preserve		Comments or o	other Nisk
02 (SBE43) S Transmiss S/I PAR S/N 02 SBE42S/N Nisk #	DEPTH DESIRED		F SALT Bill	Nut.Btl				GFF dup vol					#
O2 (SBE43) S Transmiss S/I PAR S/N O2 SBE42S/I Nisk #	DEPTH DESIRED	200	1	Nut.Btl 517		vol		GFF dup vol					1
02 (SBE43) S7 Transmiss S7 PAR S/N 02 SBE42S/n NIsk #	DEPTH DESIRED	200	1	Nut.Btl 517 516		250		GFF dup vol					1 2
O2 (SBE43) S Transmiss SA PAR S/N O2 SBE42S/N Nisk # .	DEPTH DESIRED 30	200 30 20	1	Nut.Btl 517 516 515		250 250		GFF dup vol					1 2 3
O2 (SBE43) S Transmiss SA PAR SIN O2 SBE42SA Nisk # -	DEPTH DESIRED	200	1	Nut.Btl 517 516		250		GFF dup vol					1 2 3 4
02 (SBE43) S Transmiss S/I PAR S/N 02 SBE42S/I NIsk # 1 2 3 4 5	DEPTH DESIRED 30	200 30 20	1	Nut.Btl 517 516 515		250 250		GFF dup vol					1 2 3 4 5
O2 (SBE43) S Transmiss SA PAR S/N O2 SBE42S/N Nisk #	DEPTH DESIRED 30	200 30 20	1	Nut.Btl 517 516 515		250 250		GFF dup vol					1 2 3 4

VESSEL Northw	est Explore	2016	i	CRUISE	11 NN 10	903	3		PROJECT & LEG	G (if needed)	C		ne (None if dat	a is live feed) 3 20 5	3	
CTD c		LA	TITUDE		LONGITUD	DΕ		GMT DATE	(note if no	ot) GMT	Tim	e Surfac	e Temp	BOTTOM DEPTH	STATION NUMBER	STN NAME	
	DEG		MIN	DE	i M	aN		DAY	MO	r hr	MIN	(°C)	(m)			
19	6 5	8	05.167	N 13-	26.7	102	w	30	JUL 1	6 18	23	14	3	127	20053	IR	2
Sensor	IDS (initially	& swap	o-outs)		Weather	7			7							CTD MAX. DE	EPTH =
SBE type and	SAN															:117	
PRESS S/N					COMMEN	NT: Diffi	icult	condition	s, factors tha	t may affect	meast	ırements	or aid pr	ocessing			
TEMP 1 &2 SI	P 1 82 SNs																
COND 182 SA	Ns																
FLUOR S/N											-						
02 (SBE43) S	VN .				_						Wg 7						
Transmiss S/N	1			=/													
PAR S/N																	
												<u> </u>	e i posto a s		70 - 3 - 6 - 0 - o		
PAR S/N 02 58E42S/N		Re	osette Notes		Hydro Team			GFF	>10 Large	GEF dun v		IO dup vol	Phyto		Comments of		Nisk
PAR S/N			osette Notes	SALT BU	Hydro Team			GFF vol	>10 Large Vol	GFF dup v			Phyto preserve		Comments of sample		Nisk #
PAR S/N 02 58E42S/N	DEPTI		117	SALT Btl	Nur.Bit 527					GFF dup v				***************************************			
PAR S/N 02 S8E42S/N Nisk #	DEPTI DESIRE			SALT Bti	Nut.Btl					GFF dup v							#
PAR S/N 02 SBE42S/N Nisk # -	DEPTI DESIRE		117	SALT Bil	Nur.Bit 527					GFF dup v							1
PAR S/N 02 S8E42S/N Nisk # -	DESIRE 117		117	SALT BU	Nul.Btl 522 571 520					GFF dup v							1 2
PAR S/N 02 S8E42S/N Nisk # - 1 2 3	DEPTI DESIRE 117 30 25		117 30 20		Nul.Btl 522 571 520					GFF dup v							1 2 3
PAR S/N 02 SBE42S/N Nisk #	DEPTI DESIRE 117 30 25		117 30 20		Nul.Btl 522 571 520					GFF dup v							1 2 3 4
PAR S/N 02 SBE42S/N Nisk # - 1 2 3 4 5	DEPTI DESIRE 117 30 25		117 30 20		Nul.Btl 522 571 520					GFF dup v							# 1 2 3 4 5
PAR S/N 02 S8E42S/N Nisk # - 1 2 3 4 5	DEPTI DESIRE 117 30 25		117 30 20		Nul.Btl 522 571 520					GFF dup v							# 1 2 3 4 5 6
PAR SN 02 S8E42SN Nisk # - 1 2 3 4 5 6 7	DESIRE 117 30 10		117 30 20 10		Nul.Btl 522 571 520					GFF dup v					sample		# 1 2 3 4 5 6 7
PAR SN 02 SBE42SN Nisk # - 1 2 3 4 5 6 7 8	DESIRE 177 30 26 Lo		117 30 20 16		Nul.Bit 527 521 520 51.21					GFF dup v					sample		# 1 2 3 4 5 6 7 8
PAR S/N 02 S8E42S/N Nisk # - 1 2 3 4 5 6 7 8	DESIRE 177 30 26 Lo		117 30 20 16		Nul.Bit 527 521 520 51.21					GFF dup v					sample		# 1 2 3 4 5 6 7 8 9

vessel Northwe	st Explorer	2016	CRUISE ID	NWI	603		ROJECT & LEG	G (if needed)			ne (None if data $VWI(a)$		54	
CTD cor CAST	# DEG	LATITUDE MIN	DEG	LONGITUDE		GMT DATE DAY		'R HR	Time	Surface Temp	BOTTOM DEPTH (m)	STATION NUMBER	STN. NAME/	ID.
10	5	12.856	N 137	17.0	98 w	30 3	5 U L 1	621	07	14.6	119	20054	IPB	
Sensor II	DS (initially	& swap-outs)		Weather:									CTD MAX. DEP	
SBE type and SA PRESS SAN TEMP 1 &2 SNs COND 1&2 SANS FLUOR SAN O2 (SBE43) SAN			COMMENT	Γ: Difficult	conditions	s, factors tha	t may affect	measuro	ements or aid p	rocessing		109		
Transmiss S/N PAR S/N 02 SBE42S/N														ブ
Nisk#	DESIREI	Rosette Notes	SALT Bil	ydro Team Nut.Btl		GFF vol	>10 Large Vol	GFF dup vo	ы	dup vol Phyto irge) preserve		Comments of sample		Nisk #
1 2 3 4 5 6 7 8	10°1 30 20 10	109 30 20 10		524 526 525, 524		250 250 250		250				e DNA		1 2 3 4 5 6 7
10	0	1		523		250	***************************************					-		9

)	
vessel Northwest I	Explorer 20	016	CRUISE	ID NW	1603			PROJECT &	LEG (i	f needed) -			me (None if dat			
CTD consec		LATITUDE		LONGIT	JDE		GMT DATE	(note	if not)	GMT	Time	Surface Temp	BOTTOM DEPTH	STATION NUMBER	STI NAME	
	DEG	MIN	DE	3	MIN		DAY	МО	YR	HR	MIN	(*C)	(m)			
20	58	20.160	N 3	7 07.	412	w	30	JUL	1 6	23	34		155	20055	IF	A
Sensor IDS	(initially & s	wap-outs)		Weath	er:			·					•		CTD MAX. D	EPTH =
SBE type and S/N										-· <u>-</u>					145	
PRESS S/N				СОММ	ENT: Diffi	cult	condition	s, factors	that ma	y affect n	neasure	ements or aid p	rocessing		. , , ,	
TEMP 1 &2 SNs																
COND 182 S/Ns																
FLUOR S/N																
02 (SBE43) S/N																
Transmiss S/N																
PAR S/N												ě.				
O2 SBE42S/N																
	DEPTH	Rosette Notes		Hydro Team			GFF	>10 Lar	ge	PEE due val	>10	dup vol Phyto		Comments of	r other	Nisk
Nisk#	DESIRED		SALT Btl	Nut.Btl			vol	Vol		GFF dup vol	(la	rge) preserve		sample	S	#
1	145	145	95	53	2											1
2	30	30		531	-		250)								2
3 (20	20		53	0		250									3

III Niele 4 I							L CEE due vol				1 41011
Nisk#	DESIRED		SALT Bil	Nut.Bti	vol	Vol	GFF dup vol	(large)	preserve	samples	#
1	145	145	95	532							1
2	30	30		531	250						2
3	20	20		530	250						3
4	lo	ю		529	250						4
5											5
6			I	_			<u> </u>				6
7									,		7
8	[0	10		500						e DNA	8
9	0	2	,	528	250						9
10											10
11	***************************************										11
12											12

VESSEL Northw	est Exp	lorer 20	116		CRUISE ID	NW	llec	3) <u></u>	PROJECT & NBS leg	LEG	(if neede	ed)		CTD FileNar	ne (None if data	is live feed)		
CTD cc			LATITUDE			LONGITUDE			GMT DATE	(note	if not) GMT	Т	ime S	Surface Temp	BOTTOM DEPTH	STATION NUMBER	ST NAM	
	Î	DEG	MIN		DEG	MIN	,		DAY	МО	YR	HR	М	IN	(°C)	(m)			
2	1	58	09-633	N	135	62.	693	W	31	JUL	1	6 15	17	-		218	20056	UC	7
Sensor	IDS (init	ially & sv	wap-outs)			Weather:												CTD MAX. E	EPTH =
SBE type and S	S/N																	20	20
PRESS S/N						COMMEN.	T: Diffic	ult	conditio	ns, factors	that :	may affe	ct me	asuren	nents or aid p	rocessing			-
TEMP 1 &2 SN																			
COND 182 S/N	ls	_																	
FLUOR S/N 02 (S8E43) S/I	N	-				-													
Transmiss S/N						1													
PAR S/N							Magazine												
02 SBE42S/N																			
	D	EPTH	Rosette Notes	7	Hy	dro Team			GFF	>10 Larg	20	-169		>10 de	up vol Phyto		Comments o	c other	Nisk
Nisk#		ESIRED			SALT Bil	Nut.Btl			Vol	Vol		GFF dup	o vol	(larg			sample		#
1	20	0	200			537													1
2	13	9	3(536			250										2
3	2	0	21			535			250							:			3
4	1.	9	10			534			250								***************************************		4
5																		+	5
6														*********					6
7				\dashv												1			7
8	[=	 >	lo			535											e DNA		8
9	Ċ		2	1		533			250		\dashv					1	- C DIVIT		9
10												***********				†			10
				+							\dashv								11
11						-													
12			ij.		_											1	1		12

vessel Northwest	Explorer 20	16	CRUISE ID	NW1603	3		PROJECT & NBS leg	LEG (if	needed)			ne (None if data い / (00)			
CTD conse		LATITUDE MIN	DEG	LONGITUDE		GMT DATE	(note i	if not) YR		Time Su	face Temp	BOTTOM DEPTH (m)	STATION NUMBER	STN.	
22	58	07.831 N	-1/	03.882	w	31	JUL	1 6	<u> </u>	5	(0)	130	20057	XC	_
Sensor IDS SBE type and S/N PRESS S/N	6 (initially & sv		Weather:	fficult	condition	ıs, factors t	that ma			nts or aid p	rocessing		CTD MAX, DEI		
TEMP 1 &2 SNs COND 1&2 SNs FLUOR S/N O2 (SBE43) S/N Transmiss S/N PAR S/N O2 SBE42S/N	DETTIL												:		
Nisk#	DESIRED	Rosette Notes	SALT Bil	dro Team Nut.Btl		GFF vol	>10 Larg Vol	e (SFF dup vol	>10 dup (large)	voi Phyto preserve		Comments of sample		Nisk #
1	120	120		542											1
3	20	31		541		250 256									2
4	10	20	96	539		250						-			3
5						9,0									5
6															6
7	********					ļ			******						7
8	15	[5		(00) A11				\perp					e DNA	.	8
9	0			538		250			**********						9
10								\perp							10
11															11
12		1										1			12

VESSEL Northw	est Exp	lorer 20	16		CRUISE ID	NLIC	203			PROJECT & NBS leg_	LEG (i	if needed) -		CTD FileNa	ame (None if data	a is live feed)		
CTD co			LATITUDE			LONGITUDI	E		GMT DATE	(note i	if not)	GMT	Time	Surface Temp	BOTTOM DEPTH	STATION NUMBER		ΓN. ⁄IE/ID
<u> </u>	- 1	DEG	MIN	Н	DEG	MI	N		DAY	МО	YR	HR	MIN	(°C)	(m)		-	
23	}	58	06-210	N	135	001,00	12	W	31.	70 r	1 6	19	48		155	20058	UC	3
Sensor	IDS (init	ially & sv	vap-outs)			Weather:				-							CTD MAX.	DEPTH =
SBE type and ! PRESS S/N TEMP 1 &2 SN COND 1&2 S/N FLUOR S/N O2 (SBE43) S/ Transmiss S/N PAR S/N O2 SBE42S/N	is Ns					COMMEN	IT: Difficu	ılt	conditio	ns, factors t	that ma	ay affect	measui	ements or aid p	processing			
	D	EPTH	Rosette Notes		H	ydro Team			GFF	>10 Larg	je	CFE due su	, >10	dup vol Phyto		Comments of	r other	Nisk
Nisk# -	Di	ESIRED			SALT Bil	Nut.Btl	Nut.Btl		vol	Vol		GFF dup vo) (I	arge) preserve		samples		#
1] 4	5	145			547											_	1
2	30)	30			546			250									2
3	20		20			545			250	,								3
4	0		lo			544			750)								4
5																		5
6																		6
7																		7
8	(0		lo													, DN	9	8
9	0	Ĭ				543			250)								9
10																		10
11																		11
12																		12

vessel Northw	est Explo	orer 20	16	CR	Ruise Id	NW160	3		PROJECT & I	.EG (if	needed)		CTD I	FileNan	ne (None if data	is live feed)		
CTD c		ı	LATITUDE			LONGITUDE		GMT DATE	(note il	not)	GMT	Time	Surface T	emp	BOTTOM DEPTH	STATION NUMBER	STN NAME	
	DE	G	MIN		DEG	MIN		DAY	МО	YR	HR	MIN	(°C)		(m)			
20	4	58	4-542	N (35	0.156	w	31	つい し	1 6	21	52	13.9	9	414	20059	UCA	E
Sensor	IDS (initia	illy & sw	vap-outs)			Weather:						_					CTD MAX. DE	PTH =
S8E type and	S/N																	
PRESS S/N						COMMENT: Dif	ficult	conditio	ns, factors tl	nat ma	y affect n	neasure	ments or	aid pr	ocessing		•	
TEMP 1 &2 SA	Ns					1												
COND 182 S/I	Ns																	
FLUOR S/N																		
O2 (SBE43) S	/N																	
PAR S/N																		
O2 SBE42S/N										·····								
Nisk#		РТН	Rosette Notes			dro Team		GFF vol	>10 Large	, (SFF dup vol		dup vol Phy rge) pre	rto serve		Comments		Nisk #
		RED		+	LT Btl	Nut.Bti			1			(,-	. 307					
1	200		200	2	202	552												1
2	30		36			551		250										2
3	20		20			550		250										3
4	1,0		[0			549		252	>								***************************************	4

-DNA

1.5

vessel Northwest	Explorer 20	016	CRUISE II	NW1603			PROJECT & L	.EG (if	needed)			me (None if	data is live fee	ed)	
CTD conse	2	LATITUDE		LONGITUDE		GMT DATE	(note if	not)	GMT	Time S	Surface Temp	BOTTOM DEPTH	STATION NUMBER	ST NAM	
	DEG	MIN	DEG	MiN		DAY	МО	YR	HR	MIN	("C)	(m)			
25			N		w	İ		1 4					20060	UCE	3_
Sensor IDS	(initially & s	wap-outs)		Weather:							•			CTD MAX.	DEPTH
PRESS S/N PRESS S/N PRESS S/N PREMP 1 &2 SNs COND 1&2 S/Ns PLUOR S/N D2 (SBE43) S/N PAR S/N D2 SBE42S/N				COMMENT: Diff	ficult (condition	s, factors th	at ma	y affect n	neasurem	ents or aid pr	ocessing			
Nisk#	DESTRED	Rosette Notes	SALT Btl	Hydro Team Nut.Btl		GFF vol	>10 Large Vol		SFF dup vo	>10 du (larg	p vol Phyto preserve		Comments of sample		Nisk
1															1
2												_			2
3															3
4															4
5															5
															6
6															7
7															1
															8
7															9
7 8 9														+2	1
7															9

vessel Northwe	est Explorer	2016	-	CRUISE ID	No	leo-	3	PROJECT & NBS leg	LEG (if	f needed) -		cı	TD FileNan	ne (None if o	data is live fe	ed)	
CTD co	1	LATITUDE			LONGITUDE	K-28-TH	GMT DATE	(note j	if not)	GMT	Time	Surfac	e Temp	BOTTOM DEPTH	STATION NUMBER	STI NAMI	
	DEG	MIN		DEG	MIN		DAY	МО	YR	HR	MIN	(*	°C)	(m)			
37	2 5	3 21.9	60	134	40.0	06 W	02	AUG	1 4	15	14			48	20068	ABI	M
Sensor II	DS (initially a	swap-outs)			Weather:											CTD MAX. (DEPTH :
SBE type and S/																38	
PRESS SAN					COMMENT	: Difficult	condition	s, factors t	hat ma	y affect r	neasure	ments	or aid pro	cessing			9.9%
TEMP 1 &2 SNs			SMRR-A		0												
COND 182 S/Ns	s		0														
FLUOR S/N																	
02 (SBE43) S/N																	
Transmiss S/N					- 1												
PAR S/N															<u>.</u>		
PARIS/N O2 SBE42S/N																	
	DEPTH	Rosette N	otes	Т			GEE	10 Laro	ie I			dup vol	Phyto		Comments	or other	I
	DEPTH	Rosette N	otes	H SALT BU	ydro Team		GFF vol	>10 Larg Vol	je (GFF dup vo	11	dup vol	Phyto preserve		Comments of sample		Nisk i
02 SBE42S/N	DESIRED			-	ydro Team Nut.Btl		- El		e (GFF dup vo	11		_				Nisk i
02 SBE42S/N Nisk #		3	8	-	ydro Team Nut.Btl		- El		je (GFF dup vo	11		_				
02 SBE42S/N	DESIRED 38		8	-	ydro Team Nut.Btl		- El		je (GFF dup vo	11		_				1
02 SBE42S/N Nisk #	DESIRED 38 30 20	30	8	-	ydro Team Nut.Btl 557		- El		je (GFF dup vo	11		_				1 2
02 SBE42S/N Nisk #	DESIRED 38	3° 3° 2°	8	SALT BU	ydro Team Nut.Btl 55.7 556 555		- El		e (GFF dup vo	11		_				1 2 3
02 SBE42S/N Nisk # 1 2 3 4	DESIRED 38 30 20	3° 3° 2°	8	SALT BU	ydro Team Nut.Btl 55.7 556 555		- El		ne (GFF dup vo	11		_				1 2 3 4
Nisk # 1 2 3 4 5 5	DESIRED 38 30 20	3° 3° 2°	8	SALT BU	ydro Team Nut.Btl 55.7 556 555		- El		ne (GFF dup vo	11		_				3 4 5
Nisk # 1 2 3 4 5 6	DESIRED 38 30 20	3° 3° 2°	8	SALT BU	ydro Team Nut.Btl 55.7 556 555		- El		je (GFF dup vo	11		_			es	1 2 3 4 5
Nisk # 1 2 3 4 5 6 7 7	DESIRED 38 30 20	30 20	8	SALT BU	ydro Team Nut.Btl 55.7 556 555		- El		je (GFF dup vo	11		_		sampk	es	1 2 3 4 5 6 7
1 2 3 4 5 6 7 8	DESIRED 38 30 20 10	3° 3° 2° 1°	8	SALT BU	ydro Team Nut.Btl 55.7 556 555		- El		le (GFF dup vo	11		_		sampk	es	1 2 3 4 5 6 7 8
1 2 3 4 5 6 7 8 9	DESIRED 38 30 20 10	3° 3° 2° 1°	8	SALT BU	ydro Team Nut.Btl 55.7 556 555		- El		le (GFF dup vo	11		_		sampk	es	1 2 3 4 5 6 7 8 9