





















AL PROTECTION			P	rod	uct	ion			Ľ	
	Mecha	nical Dred	ges	Hydrau	lic Dredge	s	Pnu.	Spec.	Diver	Dry Exc.
Operating Production m3/hr	rating 50 - 2 cu m uction 95 - 4 cu m r 145 - 6 cu m 190 - 8 cu m				15 cm 20 cm 25 cm 30 cm		Site Spec.	Equ. Spec.	10	Site Spec.
Hydraulic F sediment at Mechanical Table 2 val	P = Dia 35% s P = Buues are	x Vel x olids) ucket size for susta	Slurry S e x %fi iined pr	Solids/In ll x cycl roductio	nsitu Sol le time (n rates, :	lids (U Used 80 mostly	sed 15 f)% fill; pilots	fps; 10 9 2 min c	% solids ycle)	;
	Table 2 8- 31- Range 31 64				15- 61	2- 103	12- 48			

AND REAL PROTECTION			Pe	rce	nt S	Soli	ids		(Ĭ
					J,					
	Clam	Enc Buck.	Art. Fixed Arm	Cutter	Auger	Plain Suc.	Pnu.	Spec.	Diver	Dry Exc.
Percent Solids	90% In- Situ	<mark>80%</mark> In- Situ	<mark>80%</mark> In- Situ	10	10	10	15	Equip Spec.	10	Site Spec.
Table 2 Range		44- 48			8- 22		17- 50	15- 70	2- 4	
4/20/200)5		En	vironment Seattle,	al Dredgi Washingt	ng Works on 2005	hop			

SHITE STATES		V	erti	cal	Ac	cur	ac	У		ĬŦĬ
	Clam	Enc Buck.	Art. Fixed Arm	Cutter	Auger	Plain Suc.	Pnu	Spec.	Diver	Dry Exc.
Vertical Accuracy (cm)	15	15	10	10	10	10	15	Equip Spec		5
Table 2 Range	20	2.5- 5			3- 15	5				
		I KD	OGPS v GPS ve	ertical a ertical ac	ccuracy	= 12 cr $= 2 to 3$	n cm			
4/20/2005			Envi	ronmental Seattle, W	Dredging Vashington	Workshoj 2005	p			

INTED STATUS		Но	rizo	onta	al A	CCI	ıra	су		ĬŀŦĬĬ
	Clam	Enc Buck.	Art. Fixed Arm	Cutter	Auger	Plain Suc.	Pnu.	Spec.	Diver	Dry Exc.
Horizontal Accuracy (cm)	10	10	10	10	10	10	10	10	-	5
Table 2 Range				20	20					
		E KD0	GPS ho GPS hor	orizonta izontal	l accurae	cy = 7 c y = 1 to	m 2 cm			
4/20/2005			Envi	ronmental Seattle, W	Dredging /ashington	Worksho 2005	р			

	Clam	Enc Buck.	Art. Fixed Arm	Cutter	Auger	Plain Suc.	Pnu.	Spec.	Diver	Dry Exc.
Maximum Digging Depth (m)	Stab Lim	Stab Lim	15	15	5	15	45	15	30	Stab Lim
Table 2	9-	9-		12	5-	26	18-	18-		
Pango	12	12			8		60	35		

AL PROTECTION	IVI	1111	mui	m L	ngg	ging	g L	vep	th U	
	Clam	Enc Buck.	Art. Fixed Arm	Cutter	Auger	Plain Suc.	Pnu.	Spec.	Diver	Dry Exc.
Minimum Digging Depth (m)				1	0.5	1	5	1	0.5	
Table 2 Range										



S Environment	A PROTECTION		Co	ntai	nin	ant	Rel	eas	e		н
T c	This fact ontrol re	or re eleas	lates ses to	to the wate	Con e abil er and	ntrc lity to air.	ol >	1			
		Clam	Enc Buck.	Art. Fixed Arm	Cutter	Auger	Plain Suc.	Pnu.	Spec.	Diver	Dry Exc.
Co Ro Co	ontaminant elease ontrol	Low	High	High	Med	Med	Med	Med	Med	High	High
	4/20/2005			Enviro	onmental I Seattle, Wa	Dredging Ishington	Workshop 2005				



- Chrysonia	ED STATES	r -	Fra	nsp	ort	by	Pip	eli	ne			
T w	his fact ith pipe	or re eline	lates trans	to co sport.	ompat	ibilit	y					
		Clam	Enc Buck.	Art. Fixed Arm	Cutter	Auger	Plain Suc.	Pnu.	Spec.	Diver	Dry Exc.	
Tr: Pip	ansport by peline	Med	Med	Med	High	High	High	High	High	High	Med	
	4/20/2005			Enviro S	onmental I Seattle, Wa	Dredging Ishington	Workshop 2005					



Positioning Control											
Ability desired curren	y of tl 1 pos t, or 1	he dr ition fluctu	edge cons lating	to ho iderin g tide	old a ng wi s.	nd,	-				
	Clam	Enc Buck.	Art. Fixed Arm	Cutter	Auger	Plain Suc.	Pnu.	Spec.	Diver	Dry Exc.	
Positioning Control (Stability)	High	High	High	High	Med	High	High	High	Med	High	
4/20/2005			Enviro S	onmental Seattle, Wo	Dredging Ishington	Workshop 2005					



A PROTECTION		Po	ortal	bili	ty/	Ac	ces	S		Ĩ
Ability under channe truck a	y of th bridg els, o and ea	he dr es, th r be t asily	edge nroug ransp launo	to pa th nar portec ched.	iss row d by					
	Clam	Enc Buck.	Art. Fixed Arm	Cutter	Auger	Plain Suc.	Pnu.	Spec.	Diver	Dry Exc.
Portability/ Access	High	High	High	High	High	High	High	Med	High	High
4/20/2005			Envir	onmental I Seattle, Wo	Dredging ushington	Workshop 2005	,			

And the state of t			A	vail	labi	lity	7			H
Availabi	lity o	of the	equi	pmer	nt to <u>1</u>	<u>nulti</u>	<u>ple</u> U	J.S. c	ontra	ctors.
	Clam	Enc Buck.	Art. Fixed Arm	Cutter	Auger	Plain Suc.	Pnu.	Spec.	Diver	Dry Exc.
Availability	High	High	High	High	High	High	High	Med	High	High
4/20/2005			Envir	onmental I Seattle, Wo	Dredging ashington	Workshoj 2005)			

A MOUTH THE REAL PROPERTY OF T	De	ebri V	s/Lo ⁷ ege	oose etati	e Ro	ock	/		
Ability of remove se etc. withou or downtin	the dro dimen it exce ne.	edge t con essive	to eff tainin e resu	ectiv g del spens	ely bris, sion				
Cla	n Enc Buck.	Art. Fixed Arm	Cutter	Auger	Plain Suc.	Pnu.	Spec.	Diver	Dry Exc.
Debris/ Loose Hig Rock/ Vegetation	h High	High	Low	Low	Low	Low	Low	Low	High
4/20/2005		Envir	onmental I Seattle, Wo	Dredging ashington	Workshoj 2005)			



Flexibility for Varying Conditions											
Flexibility of the dredge in adapting to varying											
condit	conditions such as sediment stiffness, variable cut										
thickne	thicknesses, and the overall ability to take thick cuts.										
	Clam	Enc	Ant	Cutton	Augon	Dlain	Dun	Enco	Dimon	Davi	
	Clain	Buck.	Fixed Arm	Cutter	Auger	Suc.	rnu.	spec.	Diver	Exc.	
Flexibility for Varying Conditions	High	High	Med	High	Med	Low	Low	Low	Low	High	
4/20/2005			Envir	onmental I Seattle, Wo	Dredging ashington	Workshop 2005	,				

A PROTECTION		R	esic	Гhir lual	n Li Seo	ft/ dim	ent			
Abil	ity of	the c	dredg	e to 1	emo	ve thi	in lay	vers v	vitho	ut
exce	55176	over	ureuş	ging.						
	Clam	Enc Buck.	Art. Fixed Arm	Cutter	Auger	Plain Suc.	Pnu.	Spec.	Diver	Dry Exc.
Thin Lift/ Residual Sediment	Low	Med	Med	Med	High	High	High	High	High	High
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