

Consulting Services

- Municipal Wastewater
- Industrial Wastewater
- Water Supply
- Stormwater / Watershed Mgt.
- Hazardous Waste
- Environmental Site Assessment
- Industrial Compliance Services
- Hydrogeology & Storage Tank Mgt.
- Solid Waste
- Wetlands Assessment / Ecological Studies
- Air Quality / Stack Testing
- Coastal Resources
- Site Development Engineering
- Municipal Engineering
- Mining Environmental Services
- Contract Operations
- Hydraulic Infrastructure Evaluations
- Route/Land Surveying
- Bridge Engineering
- Highway Engineering
- Traffic Engineering
- Construction Engineering Services
- Field & Support Services

SITE INVESTIGATION REPORT

of

Port Ivory Site Staten Island, New York

Block 1309, Lot 10; Block 1338, Lot 1 and Block 1400, Lot 1

Volume III of III

April 2002

Prepared By:

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Prepared For:

The Port Authority of New York and New Jersey

Corporate Headquarters 27 Bleeker Street Millburn, NJ 07041-1008 Tel. 973.379.3400 Fax. 973.912.2400



THE PORT AUTHORITY OF MY & MJ

Engineering Department Construction Division
Materials Engineering Section

BORING REPORT

						SHEET (OF 5
OJECT	Por	TI	-very	P+0	_	NAME OF CONTRACTOR BORING NO. SURFACE ELEV.
LOCATIO	N.S		J 1-A			CONTRACT NO DATE
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NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used 2 — U = undisturbed; A = auger; OER = open end rod; V = vane 3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

Sheet 2 of 3

PROJECT:	POUT I	10VY P+	-G			1-10-10-10-10-10-10-10-10-10-10-10-10-10
BORING No.	AI		_		DATE:	12/2/00+12/4/00 MMI-RAE
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ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION CHAIN OF CUSTODY RECORD

Sheet 3 of 3

PROJECT: POUT IVOUT P+6		
LOCATION: NOF BLd 1-A	Block/40d	DATE: 12/2/00
BORING No: A - 1	TOTAL No. OF SAI	1 ~ ` ;
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		TPhC, PP+40, tol nexuls PH, or2+6 verce
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THE PORT AUTHORITY OF MY & MU

Engineering Department Construction Division **Materials Engineering Section**

BORING REPORT

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NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used
2 — U = undisturbed; A = auger; OER = open end rod; V = vane
3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

Sheet 2 of 3

	7	Port,	P+G.	si te	
ROJECT:	Ivon		1 7 9		DATE: 11)29/2000
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ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION CHAIN OF CUSTODY RECORD

Sheet 3 of 3

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THE PORT AUTHORITY OF MY & MU

Engineering Department Construction Division Materials Engineering Section

BORING REPORT

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NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used 2 — U = undisturbed; A = auger; OER = open end rod; V = vane 3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

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ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

Sheet 2 of 3

ROJECT:	ROJECT: Port Ivory P & Q										
ORING No.) I			DATE: 11-16-00						
FIELD READ	NGS BY:	<u>.Z</u>			PID Model: Mini Rae						
TIME	SAMPLE No.	IN-SITU Split Spoon Reading	HEAD- Space Reading	BREATHING Zone Reading	REMARKS						
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ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION CHAIN OF CUSTODY RECORD

				Sheet 3 of 3
PROJECT: Port	Ivary P&G			
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BORING No: A			OF SAMPLES: 3 Sam	plas
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THE PORT AUTHORITY OF KING RUJ

Engineering Department Construction Division **Materials Engineering Section**

BORING REPORT

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CASING		S	POON	RE- 1	SAMP.	2		3SAI	MPLE DE	SCRIPTION AND REMARK	(S
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ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

Sheet 2 of 3

-30 IFCT 1	ort Ivory	P&G			
"JRING No.	Δ - 4	- 10:-			DATE: 11-16-00
	NGS BY: 7.	Z			PID Model: Mini Rac
	· v	IN-SITU	HEAD-	BREATHING	l
TIME	SAMPLE No.	Split Spoon Reading	Space Reading	Zone Reading	REMARKS
AM		0.0	0.0	0.0	
	2	0.0	0.0	0.0	
	3	0.0	0.0	0.0	
	4.	0.0	0.0	0.0	
	5	00	0.0	0.0	
	6	0.0	0.0	0.0	
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ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION CHAIN OF CUSTODY RECORD

	•		Sheet 3	어 3
PROJECT: Port Ivory P& (r			
1. OCATION: As laid out in the	field	DATE: 11-16	-00	
BORING No: A - 4	TOTAL No. C	OF SAMPLES: 2		· · · · · · · · · · · · · · · · · · ·
PRESENT AT SAMPLING				
RELINQUISHED \	DATE _	6-00 RECEIVED		
iy (SIGN)	TIME	BY (SIGN)		
RELINQUISHED	DATE	RECEIVED		
RY (SIGN)	TIME	BY (SIGN)		
KELINQUISHED	DATE	RECEIVED		
BY (SIGN)	TIME	BY LAB		
REMARKS: 2 Soil Samples 1	n 2-16	oz jars & 1	- 20z j	our .
Sample # 4 Test	TPHC PP	+40, TAL metals	PH oil &	grease
Sample # 7	<u>'</u>	n n	<u>* 11 </u>	1,
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	,	· · · · · · · · · · · · · · · · · · ·		
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THE PORT AUTHORITY OF MY & MU

Engineering Department Construction Division Materials Engineering Section

BORING REPORT

• •				•			'		SHEET 1 OF 3
F NECT	<u> </u>				NAME OF CONTE	RACTOR		BORING NO.	SURFACE ELEV.
• • •	Brt Iv	oru P	& G		Crain	drilling	na l	A-5	
L CATION		7	^		7	<u> </u>	J I	CONTRACT NO.	DATE
	As laid	out/in th	ne fi	eld.				426-99-006	11-14-00
SPOON	7,	CASING SIZ	ZE I HOLE	TYPE			GRO	UND WATER LEVEL	
<u> </u>	<u>°0.0. 2%</u>	"I.D. Auger	5		Date	Time	Depth		Remarks
I WMER				[. , ,	اد ہ	0 1 11	س
140	# FALL 3		FALL		11-15-00	7:46	8.01	Sample #	2
DRILLER	D. Osuc	h		ì			1		
PECTOR	3	- 1				-	ļ		
	1. 2	arks							
^ASING		SPOON	RE- 1	SAMP.		3SA	MPLE DES	CRIPTION AND REMA	RKS
DWS/FT		BLOWS/6"	COA.D	NO.	<u> </u>	LI		ES CHANGE OF PROF	
-nd auge	'	Handauger	FWI		Fill DG	ABC	O KUAS	L Citt	م م
	+ -			1	1	COMU C -	zant, u	ravel, tr SilT, co	naws
	+ -	 	 	 	SAME			_·	
				*					
				2		1 11 1	1001	9 1 L 7 KM	ill, cinders, coal
	+ -	 	 	 ~	till greyis	n - black	노=+-카	uw, browel, tr. 2	ill, cinders, coal
	→ 5 ◄		——	1	<u></u>				
. J		1 1		3	SAME				
ellow		- a						·	
		5-8	ļ <u>.</u> .	,					_;
Aucers		12-17	12"	4	Misc till	arevish b	lack c-	(SAND Grave t	r. Silt, cinders, wood, coel
· [7-8		•		J J -		1	
·	 	7-8	11	=	SAM	<u> </u>			
	→ 10 ◄	7-5	20"	5	$+$ $>$ 4 $^{"}$	<u> </u>			
		12-6	}	1 .					
	T -	1 -	24"	6	SAME	-			
		 6-7-	7.4	 ~	+ 54,16	-			
		10-11		Γ.	<u> </u>				
]	11 - 14	12"	17	SAME	1,	•		}
	 	1	\~	<i> </i>	SAME				14.8
	→ 15 <	4-3,		0					- 71,0
		3-4	24"	8	Brown	PEA!	little 4	Silty CLAY	16.0
								U ,	74
		 	 	1					
	 	ļ		1	Note: San	nple # 2/	_ 20V60	for testing.	
, -			1		All	Samples :	Dese co	reened with Pi	D meter
	T	,		1	, u	7 1.	1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Doutes of Boring
	→ 20∢	 	 	ļ	&n	d disc	arded_	 ·	
				}		=		<u> </u>	
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			<u> </u>	1	<u></u>				
		· ·		i		•			
	T -			1	 				
	_			<u> </u>	<u></u>				

NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used
2 — U = undisturbed; A = auger; OER = open end rod; V = vane
3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

Sheet 2 of 3

- 30 ICOT-	р _L Т.	y P& G)		
		y)		DATE: 11-14-06 /11-15-00
DORING No.		7			PID Model: Mini Raz
FID KEVD	INGS BY: J.				
<u> </u>	SAMPLE	IN-SITU Split Spoon	HEAD- Space	BREATHING Zone	REMARKS
TIME	No.	Reading	Reading .	Reading	
AM	(0.0		
	2	· · · · · · · · · · · · · · · · · · ·	0.0		
	3		0.0		
MA	4	· .	0.0	A	
	5		0.0		
	6		0.0		
· 	7		0.0		
	8		0.0		
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ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION CHAIN OF CUSTODY RECORD

			Sheet 3 of 3
PROJECT: Port Ivory P&	G		
LOCATION: As laid out in	the field	DATE: 11 - 14.	- 00
BORING No: A - 5	13	OF SAMPLES:	
SIGNATURE OF ALL	1.		
PRESENT AT SAMPLING DIE LA	, NS.		
Instruments XVI —	- 0ATE	Д - ØØ RECEIVED	
RELINQUISHED SILLANT		•	
SY (SIGN)	TIME	BY (SIGN)	888888888888888888888888888888888888
RELINQUISHED	DATE	RECEIVED	-
BY (SIGN)	TIME	BY (SIGN)	
RELINQUISHED	DATE	RECEIVED	
•			·
BY (SIGN)	TIME	BY LAB	
REMARKS: Deamples in	2 - 16 oz ja	ars each and 1.	2 oz jars each -
REMARKS: Samples in sample #2 taken for tes	to PDIIA	DD. / TAL LID	11 1/2
sample of y taken for Tes	ring PPAC,	TTTAO, IAL MELAL, I	T, oil, grease.
		· · · · · · · · · · · · · · · · · · ·	
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Engineering Department Construction Division Materials Engineering Section

BORING REPORT

									SHEET / OF 3
F NECT	_	01			NAME OF CONTR			BORING NO.	SURFACE ELEV.
YOYT.	Luon	PHG SITE			Craix	Vrilling		B-6	
LOCATION	- 0 20	/ 11/1 /) i .					CONTRACT NO.	DATE
EGJJ	of Kid	CASING SIZ	slock	1400	LOT/		1	426-99-06	11/10/00 -11/11
			E HOLE	TYPE	<u> </u>		GRO	UND WATER LEVEL	
	D.D. 298	1.D. HAMMER	1	<u></u>	Date	Time	Depth	Re	emarks
		1			11/10/00	45	10	1 . 1 / 14	120.
AO #	FALL 30		FALL		11110100	-7 <i>P</i> -	6,0	while Hano	HUSUTIA
JINLLLIN	5	Burns		ļ	11/11/00	1:05	1 5	Sample # 4	
PECTOR			-		111100	1.05	<u> </u>	Jampie # 7	
	Ĭ	Moue 1	T. Zar	ks	}				
CASING		SPOON	RE- 1	SAMP.	<u>-</u>	3SA	MPLE DES	SCRIPTION AND REMAR	KS
E DWS/FT.	DEPTH	BLOWS/6"	COA.D	NO.				TES CHANGE OF PROFIL	
own		Hard Augr	Full		Crusha	1 STON	زرل م	TLO MISEFIL	O. Lings
	 	1 1 1	1-11		1		<u>- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1</u>	<u> </u>	
Augor	 	ļ		1 1					
		1		<u>'</u>	Misc Fi	11 Cud	as Gra	col Sand Brick,	EX
							- ,		
	 	 - - 		2					
 	- 5 -		 		Sam	<u> </u>			
	,	1	V	3	Sown	10			
ollow	_	1. 2			T				
STEM	-	4-5	ļ	<i>!</i>	<u> </u>				
	L _	3-6	20"	4	\bot _ S_{ℓ}	ME_			
Augers	İ	1 5	1		1	. —	_		
	 	7 - 3	9 11	5	C /	ME	 -		
	► 10 -	6-6	20"	 '	1 - 2F	11.11.			
		6-8	<u></u>	ر ا					
			24"	16	SAM	F			
	 -	6-11	1 47	} 	1 200				
	 	18 - 18	<u> </u>	1.7	<u> </u>	-,			
		12-3	18"	7	Misc F	IL Cind	ers, b	lack c-C SAND	Gravel etc 140
1, 1						<u></u>			
	→ 15 -	W. D	0 /1	10	<u></u>	_ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			
	<u> </u>	H. 1	24"	8	Brown	1 LEV	,50	me grey Silty	CIAY 16.0
	_	}	1	}			•	0 0) 7
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}. 	 	 	-	4	<u></u>				
· :									Bottom of Borin
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ļ	20 -	+		-	 				
<u> </u>	├	 		4	<u></u>	_ #1[sample	is checked with	n VID Marce
Ï						571	42_VS	Som / for Too Time	., ·
	<u> </u>			1	<u></u>		<u> </u>		¥
	 			4					
L <u>.</u>	<u>L</u>					Sample	# A	saved (On ha	ld) for testing
				1			#* ~~~~ -	TAKE TAKE	
	25		L	<u>. </u>	ــــــــــــــــــــــــــــــــــــــ				

NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used
2 — U = undisturbed; A = auger; OER = open end rod; V = vane
3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

Sheet Z of 3

PROJECT:	POIT IU	vory PtG	Site			.). /
BORING No.	· ·				DATE:	11 Male Mini RAG
FIELD READ		Dhouse			PID Model:	MINI RAG
	SAMPLE	IN-SITU Split Spoon	HEAD- Space	BREATHING Zone		REMARKS
TIME	No.	Reading	Reading	Reading		
PM			0.1			
	2		<i>U.</i> 0	`		
	3		U.U			
PM"	4		. 0.0			
	5		0.0			
	6		0.0			
	7		0.0			
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ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION CHAIN OF CUSTODY RECORD

			Sheet 3 of 3
PROJECT: Port Ivory	PtG Sire		
LOCATION: Esst of Play 119		DATE: //	4/00
BORING No: A-6	TOTAL No. OF	SAMPLES: 7 Soul	,
SIGNATURE OF ALL		>	
PRESENT AT SAMPLING	88888888888888888888888888888888888	888888888888888888888888888888888888888	000000000000000000000000000000000000000
RELINQUISHED	DATE	RECEIVED	
3Y (SIGN)	TIME	BY (SIGN)	
RELINQUISHED	DATE	RECEIVED	
3Y (SIGN)	TIME	BY (SIGN)	
RELINQUISHED	DATE	RECEIVED	
BY (SIGN)	TIME	BY LAB	
REMARKS:			
2 Soil Samples in	2-160z Jan d	-1-203 Jan -	land
5×172		, , , , , , , , , , , , , , , , , , ,	
Test st/			<u> </u>
TPHC, PPHO WITH	TAL moTals, Ph	Oil & Grogge	
5/2 Not be Tested	atthis Time		
	T Fusto 11/10/00	<i>y</i> -	
Noto : Sample #	& saved. On hol	d for testing	
•	nple in 2-16 oz	•	gar each.

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Engineering Department
Construction Division
Materials Engineering Section

BORING REPORT

- ·										SHEET OF	3
OJECT		-, Ω /	_ /		NAI	ME OF CONTI			BORING NO.	SURFACE ELEV.	
TOP	4 1VO	RY P+6	SITE			RAIG	Driving		131	<u> </u>	
- B	LOCK 140	O, BORING	BI /v	iest c	F	BUILDI	16 # 31	Block) 1400	CONTRACT NO. 426-99-006	12/4/00	9
DON	0.0. 23/8	CASING SI		TYPE					OUND WATER LEVEL		
HAMMER			1		L	Date	Time	Depth	1	Remarks	
1.6	FALL SAF	HAMMER				12/4/00	1230	10 1012	,		1
<u>1V</u> DHILLER	FALL	50 *	# FALL		-	151.11-	1070	101010			
	JIM	FINEH		1	-						
PECTOR		DAVIS						 			
CASING	1 171	SPOON	RE- 1	SAMP.2	┰┸		30/	AMDLEDE	ESCRIPTION AND REMAI	ore	
P' OWS/FT.	DEPTH	BLOWS/6"	COA.D	NO.	ĺ				TES CHANGE OF PROF		00
1 .1						CONCRET					
<u> </u>	 	 	 		<u> </u>	CARCICEL	<u> </u>				/
	 	 	 	ļ	 				·		20
MORNE	<u> </u>	HAND AVOER	Four	2**	L	CINTERS	anto sm	m Ga	Na		[
		1]]	1							
	 	 	 	-7 A		SAME				<u> </u>	-5
	► 5 •	<u> </u>	 	3 B	1						
	L	V			[K	GODISH Bro	M CLAYE	7 SUT, L	ITTLE GRAVE		
TUBER	}	34	16"	4*] _	SAME					
134412	-	61	10	14	<u> </u>	<u> </u>		 .			
	┼ -	1 3 6	1 11		┼-						
	 	3 5	15"	5 A		SAME					.0
	→ i ∧ -	78	1	B		BLACK FI	he sandi	TRACE SH	А 		l
	10	3 4	14"	6		SAME	1				1.0
		4 6	1	b .		BROWN	FINE TO	WEDIUM	SAND, TRACE SIL	• 1	20
		78	811	7		BROWN		 -			(1)
V		9 11	T	1/7	Г		_4 ===			<u></u>	4.0
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<u> </u>	► 15 •	 	 	1	\vdash	-7 - 7-					
	Ļ" _⊸					_ <u> </u>	ITUM (<u> </u>	BORING		
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	► 20 -	4	-	4	-	Ser	nples .	4,4	AND 5B SA	VED FOR	
		<u> </u>			L	_ KN	VIRONMA	NTAL	165TING		
									SAMPLES DISCH	AR DED	
	 	 	 	1	-		_ IZUY	TIME	JANGE MINC		
· <u> </u>	+	 	 	1	-						
	↓ _			1	L						
	_		1			,					

NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used
2 — U = undisturbed; A = auger; OER = open end rod; V = vane
3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

Sheet Z of 3

PROJECT:	Port	LUORY : F	7-6 51	TE				
BORING No.		I M T 2			DATE:		_	
FIELD READ		AN DAVIS			PID Model:	MINI	RAE	
		IN-SITU	HEAD-	BREATHING				
	SAMPLE	Split Spoon	Space	Zone Reading			REMARKS	
TIME	No.	Reading	Reading	ricauniy				
JM	1.							
1	2		0,0					
<u> </u>	3		0,0					· · · · · · · · · · · · · · · · · · ·
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ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION CHAIN OF CUSTODY RECORD

Sheet 3 of 3YOR WORY PIG SITE PROJECT: 400, WEST OF BUKING#31 LOCATION: DATE: **BORING No:** TOTAL No. OF SAMPLES: SIGNATURE OF ALL PRESENT AT SAMPLING RELINQUISHED DATE **RECEIVED** BY (SIGN) TIME BY (SIGN) DATE RELINQUISHED RECEIVED BY (SIGN) TIME BY (SIGN) DATE **RECEIVED** RELINQUISHED **BY LAB** TIME BY (SIGN) **REMARKS:** 2-1602 AND SAMPLES

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Engineering Department Construction Division Materials Engineering Section

BORING REPORT

												SHEET / OF 3
JJECT		201					NAME OF				BORING NO.	SURFACE ELEV.
PorT	Ivory	846	- 21/	٤			1 Ch	8/18	Drilling		B.2	
CATION	, v).	- م	. n. b	11 /	.C						CONTRACT NO.	DATE
Sroon	Brea	West	CASING SI	ld g	HOLE	TYPE					426-95-006	11/10/ac-11/16/00
رة الم	on 9 3/9		Auner		1		D,	ate	Time	Depth	OUND WATER LEVEL	lemarks
MMER	0.0. 2 3/8 safety	1.0.	HAMNER	<u> </u>					-	Бериг	<u> </u>	icina re
	ر ہ	6 -		FAL	.L	-	11-1	6-00	9:08 AM	9.0	Sample #5	
DRILLER		 ຄ							-		, ,	
-		Burs					 `			5.7	Open hole	
SPECTOR	\mathcal{D}	How	e /	7		arks						
CASING DWS/FT	DEPTH		OON WS/6"		E- 1	SAMP. ² NO.	1				SCRIPTION AND REMAR	
HES Hea			dr. Head		Rec	140.	war ka	Own C.			CRUGHED ROCK	0.1
	 - -		1			,			- 35-40-,11.		r.S.//	
		ļ					Cor	cre	te sla	b .w.	ribars	20'
IND Auci		HANDA	UGER			*	T					
	 	 	 	 		2			1 11 1			1 0 1 0 1
	+ -	 	 	-		N	11111	greyi	sh-black	: <u>C</u> ={	JANY & Grovel,	tr. Silt, Cinders, coal, bre
	<u></u>	<u></u>			<u>.</u>	7		- 0		, 		
	2] .	\downarrow	١,	ļ	3	SA	ME				
ollow			<u>. </u>		·	<u> </u>	T .					
AUGERS		5 -	5	\vdash	.,	/ *			<u>225,8 pp</u>	- 1		
	1	6-	-6-	5	4	4	<u></u> ַ ֻ <i>₽</i>	ME	<u>w</u>	oil		
		8	_ 19			_	1		123.9A	۸۸۸		
	T	13	16	١.	8 "	15	CA	ME	. " ' ''	1, <u>~~</u> -	 	
	→ 10 <					<u> </u>	A A	<u> </u>	_, <u>w</u> /	WQQ	<u> </u>	
-	 	10	20/3"	<u> </u>	3" (l /						
		<u> </u>				6					•	<i>5</i> \
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	 -	 		\vdash		ļ.	<u> </u>					B-H- CRound
	 	ļ		ļ.		ļ	<u> </u>			-,	<u>Kefusal</u>	Bottom of Boring
	15			$oxed{oxed}$]	$\lfloor N_c \rfloor$	ete:	2 SAMY	les	saved for t	esting
ı		.]				1			All other		checked with	Pin mater
	 	1		┢		1	- -		_Uı	pres.	Che excee with	110 meter
<u> </u>	+	-		┼—		{	<u> </u>		& dis	carde	oL	
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	→ 25 ◀			1		L	<u> </u>					

NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used
2 — U = undisturbed; A = auger; OER = open end rod; V = vane
3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

Sheet 2 of ?

	0 = =	Δı	c cn		
PROJECT:	LOYJ Tr	lory Pt	() >1/e		DATE: 11/10/00 -11/16/00
BORING No.		~ M	1		DATE: 11/10/00 -11/16/00 PID Model: MM RDE
FIELD READ	NGS BY:	O Non	/J.Z		15 110000 1511501 1 150
		IN-SITU	HEAD-	BREATHING	REMARKS
-	SAMPLE No.	Split Spoon Reading	Space Reading .	Zone Reading	
TIME			6.0		
AM	<u>l</u> ·	0 6	0.0	0.0	
	<u></u>	0.0	0.0	0. c	-1 :/
<u> </u>	3	0.0	0.0	0.0	oil 1/4 Sample.
	4	0.0	0.0	0.0	Oil 1/4 Sample
	5	0.0	225.8	0.0	<i>i</i>
	6	13.0	123.9	0.0	4.
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ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION CHAIN OF CUSTODY RECORD

				_		· .		Sheet	3 of 3	
PROJECT:	POYT	Foory	0765	Tile		٠	,			
LOCATION:		/				DATE:	11/16/	α		
BORING No:	B-2			TOTAL	No. OF SAM	IPLES:	- ひ			
SIGNATURE OF	ALL									
RESENT AT SA	AMPLING			8888.RR		######################################		#1000000000000		8888888888
RELINQUISHED	·			DATE	11/16/00	RECEIVI	ED			
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RELINQUISHED		<u></u>		DATE		RECEIVI	ED .	<u></u>	-	
JY (SIGN)				TIME	·	BY (SIG	N)			····
RELINQUISHED				DATE		RECEIVI	ED	<u> </u>	12012112121212121	
BY (SIGN)				TIME		BY LAB				
200000000000000000000000000000000000000										
REMARKS:								· - "		
The state of the s	-2501/	Sam	Alas in	2-1	boz far	7	1-203	Sin	each	
Sample	# 2	depth	Als 13	17 Te	st to be ne	Sormed:	TPHC	PP+40	TAL	netals.
Sample	#4	depth	6.0-8			3	PH, 0	il & g	rease.	
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THE PORT AUTHORITY OF MY & MU

Engineering Department Construction Division Materials Engineering Section

BORING REPORT

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P JECT		- ^			NAME OF CO			BORING NO.	SURFACE ELEV.
LOCATION	vory P	2 G			Craia	drilling		B-2A	
	J				J			B-& A CONTRACT NO.	DATE
2 5 S	o(' B	H.B-2						426-99-006	11-16-00
S. JON	Ι	CASING SE	E HOLE	TYPE			GRO	UND WATER LEVEL	
<u> </u>	о.р. <u>2 ³/8</u>	TI.D. Auger	s		Date	Time	Depth	F	Remarks
H MER S	safety	HAMMER		İ		1 .			1
40 #	FALL 3	0 7	FALL		11-16-	00 10:30	5.1	Sample #	3
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I PECTOR	U. HC.	Aneny			<u> </u>		ļ		
PECTOR	7 7.	rks		1	٧.				
CASING	17. 70		DE 1	0.000.3		3SA	1		
B)WS/FT.	DEPTH	SPOON BLOWS/6"	RE- 1	SAMP. ² NO.	`l		MPLE DE	SCRIPTION AND REMAR TES CHANGE OF PRÖFI	RKS
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	<u> </u>	100/34		16					
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NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used
2 — U = undisturbed; A = auger; OER = open end rod; V = vane
3 — Log depth of change in color of wash water; loss of water, artesian water, sand heave in casing, etc.

ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

Sheet £ of 3

		0 2 0			
"ROJECT:	ort Ivory	PRG	·		DATE: 11-16-00
ORING NO.	D.PA				PID Model: Mini Rae
FIELD READ	INGS BY:	<u> </u>		***************	Lie more. [IIII] 1440
	SAMPLE	IN-SITU Split Spoon	HEAD- Space	BREATHING Zone	REMARKS
TIME	No.	Reading	Reading	Reading	
¥M ·	1		0.6		
	2		0.0		·
	3		0,0		
	4.		0.0	tation of the same	
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ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION CHAIN OF CUSTODY RECORD

		Sh	eet 3 of 3
PROJECT: Port Ivory P&G	site		
LOCATION: 10'S of BH	B-2	DATE: 11-16-00	0
BORING No: B-2 A	TOTAL No.	OF SAMPLES:	
SIGNATURE OF ALL			
PRESENT AT SAMPLING		99998888888888888888888888888888888888	::::::::::::::::::::::::::::::::::::::
RELINQUISHED	DATE II-	6-00 RECEIVED	
3Y (SIGN)	> TIME	BY (SIGN)	
RELINQUISHED	DATE	RECEIVED	
,3Y (SIGN)	TIME	BY (SIGN)	
RELINQUISHED	DATE	RECEIVED	300000000
BY (SIGN)	· TIME	BY LAB	
Sample #5 des	ples in	1 - 1602 jars & 1	-2.0z jar zach
TP HC		Almetals, PH, oil &	grease
	- 	l l	9
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			-

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Engineering Department Construction Division **Materials Engineering Section**

BORING REPORT

										SHEET	OF	
OJECT		0 1	1		NA	ME OF CONT			ORING NO.	SURFACE	ELEV.	コ
Port	Lvory	, १८६ ।	$\dot{\sigma}$		}	L'rai a	drilling	a	B - 3	j.·		j
LOCATION		, , <u>,</u>	. 1		L			.) [0	ONTRACT NO.	DATE ,		ヿ
015	Bldg	6 \$ 200 Wal	Bldn 37	A BI	oc.	k 1400	lot.i	-	426-99-006	12 - 4	- 00	
POON	1 7	6 \$ 200 W of CASING \$12	E HOLE	TYPE					IND WATER LEVEL			
3 0	.o. 2 3/8	"1.D. Auge	rs	1		Date	Time	Depth		marks		ヿ
MMER		HAMMER		•	,				-			\neg
40 #	FALL 30		FALL			12-4-00	9:30	3.5	Sample # 2	,		ł
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SPECTOR												\neg
	1.60	irks										
CASING	J	SPOON	RE- 1	SAMP.					CRIPTION AND REMARK			٦
.OWS/FT.	DEPTH O	BLOWS/6"	COV'D	NO.	١	Gravel			S CHANGE OF PROFILI	E		0.0
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	 	4-4		9	2	SAME-						7.5
1	<u> </u>	4-4	20"	<u> </u>		Brown	Peat				1	7 <u>5</u> 8.0
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NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used 2 — U = undisturbed; A = auger; OER = open end rod; V = vane 3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

THE PORT AUTHORITY OF IN. T & IN.

ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

Sheet 2 of 3

PROJECT:	Port Ivor	ry Pf	1		
DRING No.	B-3				DATE: 12 - 4-00
FIELD READ	INGS BY:	<u>Z</u>		************	PID Model: Mini Rae
TIME	SAMPLE No.	IN-SITU Split Spoon Reading	HEAD- Space Reading	BREATHING Zone Reading	REMARKS
AM	1.	0.0	0.0	0.0	
	2	0.0	0.0	0.0	
	3	0.0	0.0	0.0	
-	· 4	0.0	0.0	0.0	
	5	0.0	0.0	0.0	
	6	0.0	0.0	00	
		0 - 0	0.0	0.0	
	8	0.0	<u> </u>	0.0	
	9	O · o	6.0	0.0	
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ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION CHAIN OF CUSTODY RECORD

Sheet 3 of 3 PROJECT: Port Ivory LOCATION: ±40'S of Bldg 33A **TOTAL No. OF SAMPLES: BORING No:** SIGNATURE OF ALL PRESENT AT SAMPLING DATE 12-4-00 RECEIVED RELINQUISHED TIME BY (SIGN) BY (SIGN) **RECEIVED** DATE RELINQUISHED BY (SIGN) TIME BY (SIGN) **RECEIVED** DATE RELINQUISHED **BY LAB** TIME BY (SIGN) REMARKS: arameters: TPHC, PP+40, TAL metals, PH, Oil & Grease

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Engineering Department Construction Division **Materials Engineering Section**

BORING REPORT

									SHEET OF 3
F DIECT) i.	0 /			NAME OF CONTI			BORING NO.	SURFACE ELEV.
	DRT IVOR	4 46	SITE		(RATE	DRILLIA	16	B4	
WEST	OF BUIL	ONG #33	3 1106	1408		- 1400		contract no. 426-99-006	12/4/00
5-30N		CASING SIZ	E HOLE	TYPE	<u> </u>	Γ	7 ———	UND WATER LEVEL	
i MMER		"I.D. AUGEL			Date	Time	Depth	R	emarks
to *	SAFETY FALL 30		FALL		12/4/00	2:00	41.5	Purine Hang	Awaring
DRILLER	Jim Fin			ŀ		}	}		}
PECTOR		VH DAVIS							
CASING	SAN	SPOON	DE 1	CAND 2	, 	10.			
E OWS/FT.	DEPTH	BLOWS/6"	RE- 1	SAMP.2 NO.	_			SCRIPTION AND REMAR TES CHANGE OF PROFI	
	▶ ◀				Asphalt ANT,	9 45NE			
man Alber	<u> </u>	HAMP AWER		11 A	13911111111				
			1	1 B	PALCINDERS	AND GOV	NEL		
					_	alm odar	···		
			<u> </u>	2*	Telliott		-460 pp		
					 		_, <u>Pr</u>	<u> </u>	
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ANGE		56	15"	الم دا	FILL REDOKH BI	ROWN CLAY	IEY SILT		
1		65		٠ ١ ١	FW BROWN			<1.5°	7.3
		33	2"		SAME	THE NICE	, 1690c -	<u> </u>	
	 	58		1 5	STATE				
	- 10 -		1.31	 	SAME				— 10.5——
	├	44	10"	6	-BROWN PE				10.9
	<u> </u>	711			Brown	FINE SA	ND, TR	UNCESIUT	12.0
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NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used 2 — U = undisturbed; A = auger; OER = open end rod; V = vane 3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

Sheet Z of 3

PROJECT:	PORT HOI	ev Pt/s	SITE				
BORING No.		1,0	<u> </u>		DATE: 12/4	00	
FIELD READ	INGS BY:)AN DA	115		PID Model: MY	INI RAE	*****
		IN-SITU	HEAD-	BREATHING			
1	SAMPLE	Split Spoon	Space	Zone		REMARKS	
TIME	No.	Reading	Reading .	Reading			
	1.			0.0	Desire	2021	
	2	1999	250-400	0.0	PETENTEN	OVUN	
	3A		250-400				
	3B	1999	·	OID	<u> </u>		
	4A		0,0				
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ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION CHAIN OF CUSTODY RECORD

	Sheet Sof S
PROJECT: PORT WOR	Pr6 SITE
LOCATION: BLOCK 1400, West	of building # 33 DATE: 12/4/00
BORING No: BH	TOTAL No. OF SAMPLES: 3 Soul
SIGNATURE OF ALL	
PRESENT AT SAMPLING	
RELINQUISHED	DATE RECEIVED
BY (SIGN)	TIME BY (SIGN)
RELINQUISHED	DATE RECEIVED
BY (SIGN)	TIME BY (SIGN)
RELINQUISHED	DATE RECEIVED
BY (SIGN)	TIME BY LAB
REMARKS: SAMPLE 2 1) 2-16° AND 1-2° JARS
SAMPLE 3B	IN 1-202 JAR
SAMPLE 4A	IN 1-1602 AND 1-202 JARS
-> ANALYZE SAM	PLE 2 FOR TPHC, PP+40 WITH THE
Me	Ms, pH, oil and grease
	VOLE 3B FOR VOC+10
	MPLE 4A FOR VOLHO
	3B AND 4A SAMPLE

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Engineering Department Construction Division **Materials Engineering Section**

BORING REPORT

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OJECT	T	X) = C+				ME OF CONT		Ţ	BORING NO.	SURFACE ELEV.	
(POY)	Duor-/	PAG Sit	<u>e</u>		1_	Craix	Wrilling		. <i>U-1</i>	1	
					_	_	,	1	CONTRACT NO. 426-99-006	PAILOC	}
OON C	ME PLOK	S, ESSTOP CASING SIZ	PE HOLE	TYPE	Dic	ck 130	7 LOJ			141100	
3 %	.D. 83/2	I.D. Austs				Date	Time	Depth	UND WATER LEVEL	emarks	\longrightarrow
MMER	Safet	YI.D. HUNNER	<u> </u>				- 25		2) 44		
140 #	FALL 30		FALL	*		12/1/00	927	6.0	5#4 (0	<u>ul)</u>	
DRILLER	5	Borus							· ·	,	
SPECTOR		00145				ļ	ļ	 		<u>:</u>	
5. 25. 5		D Nowa			1			<u> </u>	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	ī	ļ
CASING		SPOON	RE- 1	SAMP.	2	L	3SA	MPLE DES	CRIPTION AND REMAR	KS	
OWS/FT.	DEPTH ◀	BLOWS/6"	COV.D	NO.	1		LI	NE LOCAT	ES CHANGE OF PROFIL	.E	Or
land		Hard Aver	Fell	ı							
Auger		1		ſ		Misc	5.11 - C	adus S	and Grave Met	s / Sound ET	
					1	<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>	<i></i>	<u> </u>	1009, 01001, 11191	4, 5000, CIC	
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Hughs	_	5-6	16"	<u> </u>	_ _	59	irma.	-C1/ 1	N Sample	16-366m	
		3-3				•			•		
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NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used
2 — U = undisturbed; A = auger; OER = open end rod; V = vane
3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

Sheet 2 of 3

PROJ	PROJECT: PORT IVORY PAGE SITE												
BORIN	IG No.	D-1_	, 			PID Model: Mini RBB							
FIELD	READ	INGS BY:	DHowe			PID Model: 14/W/ PDB							
TII	ME	SAMPLE No.	IN-SITU Split Spoon Reading	HEAD- Space Reading	BREATHING Zone Reading	REMARKS							
n	K	1 .		0.0									
		2		0.0									
		3		0.0									
	1	4		· 16.c	0.2	cilia Sample							
		5		212	0.0	- 11							
		6		0.9									
		7		0.2									
L		8		0.1	'								
		9		01									
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ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION CHAIN OF CUSTODY RECORD

PORT TUON PAG Sie PROJECT: Rdur to Piers Esslot Tankis DATE: LOCATION: **BORING No: TOTAL No. OF SAMPLES:** SIGNATURE OF ALL PRESENT AT SAMPLING DATE Miloc RELINQUISHED **RECEIVED** BY (SIGN) TIME BY (SIGN) DATE RELINQUISHED **RECEIVED** TIME BY (SIGN) BY (SIGN) DATE RELINQUISHED **RECEIVED** TIME BY LAB BY (SIGN) **REMARKS:** 3 Soil Samples in 2-160g June & 1-20g Jan 2904 5th 1, 4, 10 TPHC, PP+40 WITHTAL Molis, Ph Oil & Grease

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Engineering Department Construction Division Materials Engineering Section

BORING REPORT

											SHEET	OF 3
ROJECT				·	NA	ME OF CONTI	RACTOR		BORING N	10.	SURFACE ELEV	1.
Port	Ivory	PJG SiTe			ł	Crais	Villen	A-	10	2	1	}
LOCATION	, ,		_				1		CONTRAC	T NO.	DATE ,	,
Rolley	to Ph	ors North	Tark	N	- 6	Plack 13	309 /2	11	1426	-99-och	12/4	loc
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NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used
2 — U = undisturbed; A = auger; OER = open end rod; V = vane
3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

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ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

Sheet

of

PROJECT:	Port IL	ory PAG	SiTe		1 141
BORING No.	~ ~				PID Model: MINI PAS
FIELD READ	INGS BY:	OHowe			PID Model: MINI PHS
		IN-SITU	HEAD-	BREATHING	05144010
TIME	SAMPLE No.	Split Spoon Reading	Space Reading	Zone Reading	REMARKS
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ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION CHAIN OF CUSTODY RECORD

LOCATION: Rdwy Fr Piers, North of that N DATE: 12/4/cc BORING No: D-2 TOTAL No. OF SAMPLES: 2 Sc./ SIGNATURE OF ALL PRESENT AT SAMPLING RELINQUISHED DATE />/4/C/C RECEIVED BY (SIGN) TIME BY (SIGN) RELINQUISHED DATE RECEIVED BY (SIGN) TIME BY (SIGN) RELINQUISHED DATE RECEIVED BY (SIGN) RELINQUISHED DATE RECEIVED	·		Sheet 5 of 3
BORING No: D-2 TOTAL No. OF SAMPLES: 2 Sc./ SIGNATURE OF ALL PRESENT AT SAMPLING RELINQUISHED BY (SIGN) TIME BY (SIGN) RELINQUISHED DATE RECEIVED BY (SIGN) TIME BY (SIGN) RELINQUISHED DATE RECEIVED BY (SIGN) TIME BY LAB REMARKS: 2 So./ 3 H J J Y	PROJECT: POST I VOYY	PdG 5,70	
BORING No: D-2 TOTAL No. OF SAMPLES: 2 Sc./ SIGNATURE OF ALL PRESENT AT SAMPLING RELINQUISHED BY (SIGN) TIME BY (SIGN) RELINQUISHED DATE RECEIVED BY (SIGN) TIME BY (SIGN) RELINQUISHED DATE RECEIVED BY (SIGN) TIME BY LAB REMARKS: 2 So./ 3 H J J Y	LOCATION: Roby to Plans,	Northot Mack N	DATE: 12/4/00
PRESENT AT SAMPLING RELINQUISHED BY (SIGN) TIME BY (SIGN) RELINQUISHED BY (SIGN) TIME BY (SIGN) TIME BY (SIGN) RELINQUISHED DATE RECEIVED BY (SIGN) TIME BY LAB REMARKS: 2 Soil Samples in 2-1602 for 3 1-207 for 2004 Strington S	BORING No: D-2	TOTAL No. OF S	SAMPLES: 2 5c./
PRESENT AT SAMPLING RELINQUISHED BY (SIGN) TIME BY (SIGN) RELINQUISHED BY (SIGN) TIME BY (SIGN) TIME BY (SIGN) RELINQUISHED DATE RECEIVED BY (SIGN) TIME BY LAB REMARKS: 2 Soil Samples in 2-1602 for 3 1-207 for 2004 Strington S			
RELINQUISHED BY (SIGN) TIME BY (SIGN) RELINQUISHED DATE RECEIVED BY (SIGN) TIME BY (SIGN) TIME BY (SIGN) RELINQUISHED DATE RECEIVED BY (SIGN) TIME BY LAB REMARKS: DATE RECEIVED BY LAB REMARKS:	SIGNATURÉ OF ALL		
BY (SIGN) TIME BY (SIGN) RELINQUISHED DATE BY (SIGN) TIME BY (SIGN) RELINQUISHED DATE RECEIVED BY (SIGN) TIME BY LAB REMARKS: J Soil Samples in 2-160g for J-20 for each S H J J Y	PRESENT AT SAMPLING		
BY (SIGN) TIME BY (SIGN) RELINQUISHED DATE BY (SIGN) TIME BY (SIGN) RELINQUISHED DATE RECEIVED BY (SIGN) TIME BY LAB REMARKS: J Soil Samples in 2-160g for J-20 for each S H J J Y	RELINOLIISHED	DATE 12/4/C	/C RECEIVED
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BY (SIGN) TIME BY (SIGN) RELINQUISHED DATE RECEIVED BY (SIGN) TIME BY LAB REMARKS: 2 Soil Samples in 2-160g far 21-20g far 2ac4 5 H J 24	BY (SIGN)	11ME	BT (SIGN)
RELINQUISHED DATE RECEIVED BY (SIGN) TIME BY LAB REMARKS: 2 Soil Samples in 2-160g fan 2 1-20g fan 2ac4 5 + 1 24	RELINQUISHED	DATE	RECEIVED
BY (SIGN) TIME BY LAB REMARKS: 2 Soil Samples in 2-160g fan 2 1-20g fan 2ac4 5 # 1 24	BY (SIGN)	TIME	BY (SIGN)
REMARKS: 2 Soil Samples in 2-160g fan 21-20g jun each 5 # 1 24	RELINQUISHED	DATE	RECEIVED
2 Soil Samples in 2-160g San & 1-20g Jun Dach 5#1 24	BY (SIGN)	TIME	BY LAB
		n 2-160g San	+ 1-20 Jun each
Tost for TPMC, PP+40 Lush IAL IMOTIS, Ph, Culd Grouso	5 1 24		
	Tost for TPHC, 1	PPt40 WITH TALIX	10725, Ph. cild Grosso
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THE PORT AUTHORITY OF MY & MJ

Engineering Department Construction Division **Materials Engineering Section**

BORING REPORT

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ROJECT					N/	AME OF CONTR	~		BORING NO.	SURFACE ELEV.
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LOCATION	, /				_	U	•		CONTRACT NO.	DATE
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				TYPE					OUND WATER LEVEL	
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NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used
2 — U = undisturbed; A = auger; OER = open end rod; V = vane
3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

Sheet 2 of 3

PROJECT:	PROJECT: PORT Duony PLG SIZE BORING No. D-3 DATE: 12/1/00												
BORING N		~ 34			PID Model: MINIRATE								
FIELD REA	DINGS BY:	D Howe			PID Model: 1917XI ICP C								
TIME	SAMPLE No.	IN-SITU Split Spoon Reading	HEAD- Space Reading	BREATHING Zone Reading	REMARKS								
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ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION CHAIN OF CUSTODY RECORD

Sheet β of β

PROJECT: POT TUORY DJG SI	Te	
LOCATION: Rdu, To Plans, East	side	DATE: /2/1/00
BORING No: $\mathcal{D}-3$	TOTAL No. OF SA	DATE: /2/1/00 MPLES: / Sol/
SIGNATURE OF ALL		
PRESENT AT SAMPLING		
RELINQUISHED	DATE 12/1/00	RECEIVED
BY (SIGN)	TIME	BY (SIGN)
RELINQUISHED	DATE	RECEIVED
BY (SIGN)	TIME	BY (SIGN)
RELINQUISHED	DATE	RECEIVED
BY (SIGN)	TIME	BY LAB
REMARKS:		
1 Soil Sample in 2-	- 1602 Jan O	+ 1-203 lai
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TPHC, PP+40 with	THE Motils	Ph Oil & Grosse
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THE PORT AUTHORITY OF MY & MU

Engineering Department Construction Division
Materials Engineering Section

BORING REPORT

- OJEOT									SHEET OF 3
OJECT O T		216 50			NAME OF CONTRACTOR BORIN			BORING NO.	SURFACE ELEV.
LOCATION	Mold 1	HG Silve			Craix Orilling D-4				
1	- Q	h . T . O O I	1.76	h		~.		CONTRACT NO.	DATE
MEY J	4- 1101g	CASING SIZ	by, 14	por Pion	<u>s</u>	Block 130	9 Let 10	426-99-006	12/2/00
2	~ ~34	CASING SIZ	E HOLE	TYPE	F		GRO	OUND WATER LEVEL	
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CASING		SPOON	RE- 1	SAMP.2		204			
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NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used
2 — U = undisturbed; A = auger; OER = open end rod; V = vane
3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

Sheet 2 of 3

PROJECT:	POT IVO	ry OtG S	ite			10/0/0
BORING No.					DATE:	12/2/ce NIMI RAE
FIELD READ	INGS BY:	Move			PID Model:	MINI RHE
TIME	SAMPLE No.	IN-SITU Split Spoon Reading	HEAD- Space Reading	BREATHING Zone Reading		REMARKS
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ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION CHAIN OF CUSTODY RECORD

Sheet 3 of 7 P76 5,78 POT I VON PROJECT: Roberto Rois, wast side, Norm Piers LOCATION: DATE: **BORING No:** TOTAL No. OF SAMPLES: SIGNATURE OF ALL PRESENT AT SAMPLING RELINQUISHED DATE **RECEIVED** BY (SIGN) TIME BY (SIGN) RELINQUISHED DATE **RECEIVED** BY (SIGN) TIME BY (SIGN) RELINQUISHED DATE **RECEIVED** TIME BY (SIGN) BY LAB **REMARKS:** Soil Samples In 2-1602 fair of 1-202 for Deap + 1

for TPHC, PD+40 with TPL Matals, Ph, Oilt Gresse

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Engineering Department Construction Division
Materials Engineering Section

BORING REPORT

r. 										SHEET OF 3
OJECT	- T	Droca			N/	AME OF CONTI			BORING NO.	SURFACE ELEV.
LOCATION	Luory	PAG SIRE			L	Craix	Dr. Ilia		D-Y#-	
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3	D.D. 73/8	CASING SI	ZE HOLE	ITPE		<u> </u>			OUND WATER LEVEL	
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}	4	Nove			}	ļ		ļ		
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NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used
2 — U = undisturbed; A = auger; OER = open end rod; V = vane
3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

Sheet 2 of ?

PROJECT:	Port Ivor	y PHG SiT.	0		
BORING No.	D-4B				PID Model: MINI RATE
FIELD READ	INGS BY:	D More			PID Model: MINI RHE
		IN-SITU	HEAD-	BREATHING	REMARKS
TIME	SAMPLE No.	Split Spoon Reading	Space Reading	Zone Reading	NewAuto
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ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION CHAIN OF CUSTODY RECORD

Sheet $\frac{3}{2}$ of $\frac{3}{2}$

PROJECT: Port Ivory	Pt G SITE			
LOCATION: Rduy to Piers		F 0-4	DATE: 12/2/0	ce contraction of the contractio
BORING No: 0-4#	' l	OTAL No. OF SAI	DATE: 12/2/0	ed
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PRESENT AT SAMPLING		***************************************		
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RELINQUISHED	DA	ATE	RECEIVED	
BY (SIGN)	TI	ME	BY (SIGN)	
RELINQUISHED	DA	ATE	RECEIVED	
BY (SIGN)	TI	ME	BY LAB	
REMARKS:				
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THE PORT AUTHORITY OF MY & MU

Engineering Department Construction Division Materials Engineering Section

BORING REPORT

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<u>3 .0</u>	.D. 23/8	"I.D. Auge HAMMER	rs 1		Date	Time	Depth	Re	marks
MMER						/ pM			
	FALL 30	<u> </u>	FALL		11-13-00	4:11 PM	7.01	Sample #4	
DRILLER	7 0	1							
	D. 0su	ich				·			
SPECTOR	7. 7	arks				•			
CASING	7	SPOON	RE- 1	SAMP.				SCRIPTION AND REMARK	
OWS/FT.	► DEPTH <	BLOWS/6"	COV'D	NO.		LII		TES CHANGE OF PROFIL	0.0
HANDANGER	•	HANDAUGER	Full	*		·		A. MARIA	
1				1 .	M. Till I			001100	C I O I B Chipe
		 	 		friection_d	ark brow	7U C-	1 2 HILL Irroney Kach	Cinders Coal Bricks
				}					
				2	Mica Til	1 1	O CAUD I		La Laili M.
		 	 	 -	Tiller Lill dienie	P-PLOMUC	ר'הווווצי ל־	bravel, Rock, cinders, bri	CK, CODY, MOOON THIS, TO LAY
	5			, *	L		<u> </u>		
				13	SAME				
How		/ -	₩	 					
STEM		4-3	1	/	<u> </u>				
.UGERS		4-3	24"	4	Misc Fill	Grad Ca	C SAL	ND, bravel, coal, c	inders little Sill
		α ,		1	100	4.2	1		
		h =			<u></u>	<u> </u>	-	 	
	→ 10 →	1-1	5"	5	SAM	<u>L </u>			10.0
.		3 5	1	, ,	-				
-		~ J		6					
		1 - 1	12"	10	Black o	rganic	_⊅Ш≀	CIAY some	wood/
		1 - 2	1)					
		. "	14"	1,7		<u> </u>		N.1 .	14.01
		2 -3	14	 	Brown	PEAL	tiw	fibers	19.0
	15]					
	17]		1	1				1
			 	1					~~~ /
	<u> </u>		<u> </u>	1	Note: San	nples # 1	L) 3_8	16 were soved/	
		, F	1		J Car	testino	All	complex were B	ottom of Bering
		3.5	1	1	1	_,,	TH PID	samples were B the other samples	
	 - -	 	 	┨	<u>5</u> ci	eened"	_and	the other somples	_ discorded
	203		<u> </u>]	<u>L</u>				
]					
	 - -	 		1					
·	<u> </u>		S]					
		 	 	1	<u> </u>				
	1,000		<u> </u>]	L				
	i jest			1			,	,	·
	NOTE	C: 1 _ 1 and b =:		0" 1 =	n of Connects T	Tone			
	WOII	S: 1 — Length re 2 — U = und	isturbed:	v — Lo: A ≕ auce	ss of Sample, 1 - er; OER = open	irap used end rod: V =	vane		
		3 — Log dept	h of chang	ge in colo	r of wash water,	loss of water	, artesian	water, sand heave in casi	ng, etc.

ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

Sheet L of 3

-ROJECT:	Port Ivo	ry P.D	()		
ORING No.	E I	7	.¥		DATE: 11-13-00
FIELD READ		7			PID Model: Mini Rae
			UEAD	BREATHING	
TIME	SAMPLE No.	IN-SITU Split Spoon Reading	HEAD- Space Reading	Zone Reading	REMARKS
PM	<u> </u>		0.0		
	2		0.0		
	3		6.0		
	4.		0.0		
	5		6.0		
	6		0.0		
			0.0		
	•				
					
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ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION CHAIN OF CUSTODY RECORD

	<u> </u>		Sheet 3 of 3
PROJECT: Pork Ivory P8	∠ G		
	the field	DATE: 11-17	5-00
BORING No: E - 1	1	OF SAMPLES: \	
PRESENT AT SAMPLING			
RELINQUISHED KILON	DATE 11-	13 00 RECEIVED	***************************************
AY (SIGN)	TIME	BY (SIGN)	330088888888888888888888888888888888888
RELINQUISHED	DATE	RECEIVED	
BY (SIGN)	TIME	BY (SIGN)	
RELINQUISHED	DATE	RECEIVED	
BY (SIGN)	TIME	BY LAB	
REMARKS: 1 sample in 2-16 Sample # 1386for test BH E-1 not fir	rished.		
Sample # 1;	TPHC, TALA	retals, PH, oil	& grease, phenols
#3			
#6	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	. W	"
7 6.)	11
		······································	
			<u> </u>

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Engineering Department Construction Division Materials Engineering Section

BORING REPORT

										SHEET / OF
*h.wjECT						NAME OF CONT	RACTOR		BORING NO.	SURFACE ELEV.
Port	IVOIN	Ŏ	PJG51	Te		Crais	Drilling	اا	F1-3	
	f Bldg				1400	Lot 1			CONTRACT NO. 486-99-006	11/10/00 - 11/11
SPOON	-	<u> </u>	CASING SIZ		TYPE			GRO	OUND WATER LEVEL	
3 "0 H IMER	.D. 2 <u>%</u>	″I.D.	Auger	s 1	_	Date	Time	Depth	R	emarks
,	FALL 30		ľ	FALL		11/10	3 05	213	open hol	
DRILLER	S		אין ע			11/11	10:15 AM	1.6	Open hole	
PECTOR			_	¬¬	1	-!:/-	10.15	1.0	open water	
	<u> </u>	Ma	rue /	J.Zar			10.1	<u> </u>	CODIDATION AND DEMAN	VC
USING BUWS/FT.	DEPTH	3	SPOON LOWS/6"	RE- '	SAMP. ² NO.	<u> </u>			SCRIPTION AND REMAR TES CHANGE OF PROFIL	
Xand	0 _	Na	and Augr	Fill		Chushoo	15 Tora			1,0
y				1	,]		<u> 5,2</u> p	16/24	
	<u> </u>		1		1 /	Mark	11.5.	1 622	-1 Colle Brief	Cladas FT 30
	 -			- -	 -	17115611	11 2924	() C	of Cobble, Brick,	, o-carj Lar
	 	 		 	2	<u></u>			th	
	5					1 Fill 6	ray Til	T-r M	19 Toral , Ir Black	FITON MATORIN SU
	3]] [ļ		,		·	
	<u> </u>		1		1 _	F.11 - 1	D. Tag		Ecrty, hehito)	
-	 - -	\vdash		 	3		714 107m 41	CROW		
llow	 			\\ \	 ``	·				
EM	L _		1-1		/ /					<u> </u>
gers.			1-1	24"	4	SAME	_ <u>(_</u> 9	184 %	White	
	10 -	,	10H-1			T .	_	- J		
	 	W	<u>'UΠ~Ι</u>	24"	5	CANIF				
` 	-	+	1-1	124	 	SAME				
		<u> </u>	11	Ì	1.	<u></u>				
			1 - 1	24"	6	SAME	 <u></u>			
				<u> </u>	1					
:	15	1	1-1	24"	17	SAM	ĪĒ —	 ·		
	 		1 -1	WA.						
	 	1	1 - 4	24"	8	Brown		lilfle h	lack organic CLAY	
74 11 g	T								<u> </u>	7
· ·	20-				1		A11 5	am Alac	checland best the	PID MOTES
	 				1		<u>۔ ۔۔۔۔۔</u> را ال	<i>-₩-</i> ,	checked with	Bolton 6
	 	+-		 	-		<u></u>		A TOO TOV 1-1/1/4	Borine
	 	-		 	-	Sample	_#8_	Saved	for Testing (0	n hold
	 	+		 	\dashv	ļ	<u> </u>			
	25					1				

NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used
2 — U = undisturbed; A = auger; OER = open end rod; V = vane
3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

Sheet 2 of 3

PROJECT:	Port I	vory Pd	G SiTe			·
30RING No.					DATE:	11/10/00 MINI PAD
FIELD READ	NGS BY:	0 Howe			PID Model:	MN/ KBC
	SAMPLE	IN-SITU Split Spoon	HEAD- Space	BREATHING Zone		REMARKS
TIME	No.	Reading	Reading	Reading		
PM	.		5,2			
,	2_		0,5			
	3		0.0			
•	4		0.0			
·	5		0.0			
	6		0.0			
	7		0.0			
	B A		0.0			
	8 B		0.0			
1						
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(° (° <u></u>					-	
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ENGINEERING DEPARTMENT
MATERIALS ENGINEERING DIVISION
CHAIN OF CUSTODY RECORD

Sheet 3 of 3 PAG SITE PROJECT: DATE: LOCATION: **BORING No:** TOTAL No. OF SAMPLES: SIGNATURE OF ALL PRESENT AT SAMPLING DATE ///o/co RECEIVED RELINQUISHED BY (SIGN) BY (SIGN) TIME DATE 11-11-00 RECEIVED RELINQUISHED 11:48 BY (SIGN) BY (SIGN) DATE RECEIVED RELINQUISHED TIME BY (SIGN) BY LAB **REMARKS:** Samples in 2-16 og fan + 1- dog fai TPHC, TAL motal, PCB'S, ph, oil & Grosse Kdo not Puish 10/11/c

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Engineering Department Construction Division Materials Engineering Section

BORING REPORT

L				·	·			SHEET) OF 3
PROJECT D L T	510	\		NAME OF CONTE	RACTOR	1	BORING NO.	SURFACE ELEV.
Port Iv	ory Pel	<u> </u>		1 Craia dr	Craig drilling F2-2			
UCATION	V 1			7	J		CONTRACT NO.	DATE
+75 W of B	ldg 31 Block	1400	lot	1			426-99-006	11-20-00
SPOON	U CASING SIZ	E HOLE	TYPE			GPOI	UND WATER LEVEL	111-20-00
3 "O.D. 23	18 1.0. Auger	د ا		Date	Time	Depth		
AMMER Safety	HAMMER	<u>v</u>		30.0	11110	Deput		emarks
1 140 FAIR	20 .	FALL	_		10:45		041	ł
DRILLER	<u> </u>	FALL		11-20-00	10:45	7.0	5#4	
J. Crai	ία]		ì			
ISPECTOR	J			<u> </u>				
7	Zarks			İ	Ì			1
CASING				<u></u>	Ll			
LOWS/FT. DEPTH	SPOON BLOWS/6"	RE- 1	SAMP.2 NO.	١.	3SAI	MPLE DES	CRIPTION AND REMAR	KS
Culter, Head	Cutter Head	Full	NO.	 	LIP		ES CHANGE OF PROFIL	
Horndonge	Handangen	. ~is		Fill brown	C. T SAN	Conc	refe wel tr. Sill	0.5
-	1 0		1					
-				Fill bro	SMU (-	1 SA W	D to Gravel to	SIL
1 1			*	1		1	,	
-	 	+	2	SAN	7 E			
	_		~	T 2 WI	10			
. _		{						
5	◀		3		·			
' <u>*</u>	_}	•	J	SAN	16		•	
STEM	1 /		,					
	1-4		<i> </i>	<u></u>				
Augers	6-7	1811	4	Fill brow	Q		O CANA I	Grave to SIII
			ĺ	111111111111111111111111111111111111111	<u> </u>	rey c	- SAND to	STELLET TY . JIII
	11-11'		, ,					
	12-20	24"	5	Fill are		0 0 1	ND tr. Gravel	-, CIT
10.	<u> </u>	M		ting dre	24_c =	1-341	vy tribranci	-tr-2111
	11 - 12		,	1	V	ŧ		′
.	9 /2	14"	6	SAME				
├──┼─ -	10-4/	14		TATIE	<u></u> -			
	8-20							
		0 / N		CALAC	-			
	26-30	24"		SAME				
	7-8		I A	SAME				14.
15	7.4	n						
	10-13	24	88	Reddish -	- brown	Silly	CLAY will to a	trained 16
						J	The state of the s	<u> </u>
					,	<u> </u>		
	_			Noto , 90	Sam place	Canad	for testing	/
				(/	. (
 					on hole	<u>. HII ot</u>	her samples	Bottom of B
].				i	5.7	meter 8 discarde	7
2 20	•				reened v	A - TIN -4	meter y our carole	<u> </u>
	1.4							
` -								
		,		,				
<u> </u>				L				
· [1	7						
	◀			L				
NOT	ŒS: 1 — Length rec							

 ^{1 —} Length recovered; 0" — Loss of Sample, T — Trap used
 2 — U = undisturbed; A = auger; OER = open end rod; V = vane
 3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

Sheet 2 of 3

ROJECT:	Port Ivori	P. & G	· · · · · · · · · · · · · · · · · · ·		
BORING No.	Port Ivori	J .			DATE: 11-15-00
IELD READ	NGS BY:	7 Z	*************	****************	PID Model: Mini Rae
TIME	SAMPLE No.	IN-SITU Split Spoon Reading	HEAD- Space Reading	BREATHING Zone Reading	REMARKS
AM	1		ტ. ტ		
	2		0.0		
· ·	<u>, 3</u>		0.0		
	4		0.0		
	5		0.0		
]	6		0.0		
	-7-		0.0		
	•	· · · · · · · · · · · · · · · · · · ·			
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<u>``</u>					

ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION CHAIN OF CUSTODY RECORD

SIGNATURE OF ALL RESENT AT SAMPLING	11-15-00 3
OCATION: As laid out in the field. DATE: BORING NO: FS-2 TOTAL NO. OF SAMPLES: JIGNATURE OF ALL RESENT AT SAMPLING RELINQUISHED DATE 11-15-00 RECEIV	····
RESENT AT SAMPLING RELINQUISHED DATE 1-15-00 RECEIV	3
RESENT AT SAMPLING SIFFAND RELINQUISHED DATE II - 15-00 RECEIV	
RESENT AT SAMPLING SIFFAND RELINQUISHED DATE II - 15-00 RECEIV	
RELINQUISHED DATE 11-15-00 RECEIV	000000000000000000000000000000000000000
Y (SIGN) TIME BY (SIG	'ED
	3N)
CELINQUISHED DATE RECEIV	'ED
by (Sign) Time by (Sig	in)
ELINQUISHED DATE RECEIV	'ED
BY (SIGN) TIME BY LAB	3
REMARKS: 3 samples in 2-160z jars each Sample # 2 & # A for Testing TPHC; Sample # 7 On hold.	•

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BORING REPORT

										SHEET OF 3
L.OJECT	T IVOR	y P&6 S	ITE		N/	OPAIG	RACTOR		BORING NO.	SURFACE ELEV.
LATION JW OF			··•-			<u> </u>			CONTRACT NO. 426-99-006	DATE 21 00
		CASING SI	ZE HOLE	TYPE				CPC	OUND WATER LEVEL	
3 0	.D. 23/8	"I.D. AVGERS	1			Date	Time	Depth		marks
MMER	FALL 30	HAMMER	FALL			11/21/00	1045	3'	while Mano	Augustast
DRILLER			TALL			1			CATTLE TOUR	is of the same of
Jom	WARD									
SPECTOR	N DAVI	5								
ASING OWS/FT.	DEPTH	SPOON BLOWS/6"	RE- 1 COV'D	SAMP.2					SCRIPTION AND REMARK TES CHANGE OF PROFIL	
Harp		Han	Full	1*	1	FILL	7 Dags	Rama	V FINE TO CHARGE	(anto Alo
		1	1	1*	-				4 111de 10 COMICE	- AND THE
NOER	<u> </u>	HUGER	}}- ,		╁		GRAVEL			
				2						
. }				1 4	Г	5,	ome			
			 	16	†-					
	5 √			3*	\vdash	- FILL-	> PERA	LLAYEY	SILT - SOUPY	
₩		<u> </u>			Ļ					
House		1 7		4*	İ	- FILL.	-> DARK	Remin	FINE SAND, TRACE	SUT LYFOE BLACK
Grem		3 3	181	14					1100000	7191 7 - 11100 P
	_		10		十		_ Solning	_		
ducors		14 17	 	15	\vdash	FILL -	→ <u>CHON</u> K	OF CINC	CRETE IN TIP OF SADON	<u> </u>
	- 10 -	14 13	2"			÷ .	-1			lae
\ \	(0	14 16			-	-> Be	mulal Fint	CAND	, TRACE SILT	
			20.	6	F		<u> </u>	_ 3//-1/	10400 3121 _	
			w.	 	╁	-				
·		11 11	ļ,	7	_	_ -> S	<u>ame, Br</u>	<u>T Som</u>	E GRAY COORED	
		13 20	22"	1 '					•	
	190	18 22		0	Γ	<u>→ 5</u>	AME			
V	12	16 19	231	8	\vdash					16.0
		10 11	00	 	┿		A ~			16.0
			 	1	L		2 BOTTOM	OF B	oring	
' . 		· ·								
]	Γ	 Qu		CHYCK	(E) WITH PID METER	
			ļ	1	+	''	ドーフ ドーフ	_ <u>C11601</u>	AND THE TWENCE	
·	> 20 ◀		 	ł	-	∑	T 1/2 A	MDH 2	<u>imiei) For Gnuiron</u>	MENTEN JESTING
	L _		<u> </u>			<u> </u>	EWAIHIH	b Sem	nues Disconered _	
									, , , , , , , , , , , , , , , , , , , ,	
,				1	\vdash		 — —			
	- -		 	}	上					
	<u> </u>			1				_		
<i>2</i>	75-									

NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used
2 — U = undisturbed; A = auger; OER = open end rod; V = vane
3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

Sheet Z of 3

PROJECT:	PORT 1400	y Pd6	SITE		1
BORING No.	6-2				DATE: 11/21/00
FIELD READ	INGS BY: D	AN DAVIS	***********************		PID Model: MINI RIFE
TIME	SAMPLE No.	IN-SITU Split Spoon Reading	HEAD- Space Reading	BREATHING Zone Reading	REMARKS
	1	0.	0.0		
I AM	2	01	0,0		
	3		0.0		
1	<u>Э</u>		0.0		
			0.0		
'	/		0,0		
	7		0.0		
<u> </u>	B		0.0		
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J					
				·	
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1					
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	-				

ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION CHAIN OF CUSTODY RECORD

		She	et 3 of 3
PROJECT: PORT WARY	P&6 SHE		J
LOCATION: NW OF BOILD	DN6 #74	DATE: 11/21/00	
BORING No: G-2		F SAMPLES: 3 SOIL	
SIGNATURE OF ALL PRESENT AT SAMPLING			
	92.48888888888888888888888888888	888888888888888888888888888888888888888	000000000000000000000000000000000000000
RELINQUISHED ()	DATE	RECEIVED	
BY (SIGN)	TIME	BY (SIGN)	000000000000000000000000000000000000000
RELINQUISHED	DATE	RECEIVED	
BY (SIGN)	TIME	BY (SIGN)	
RELINQUISHED	DATE	RECEIVED	
BY (SIGN)	TIME	BY LAB	
		OZ AND 1-202 EAC TOHC DO+41 W/194	
1851 + 1	3, 1, 1831 101	TPHC, PP+40 W/TAL AND GRASSE	The His,
	off, ou	AND GRANSE	
	, ,	·	
			

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Engineering Department Construction Division Materials Engineering Section

BORING REPORT

										SHEET 1 OF 3
P.	NECT		0 1 0			NAME OF CONT			BORING NO.	SURFACE ELEV.
10	ort L	voru	P& G s	it.o.		Craia	drilling	أد	G-3	
ΓΩ	CATION	J	1			J	,	J	CONTRACT NO.	DATE
Ė	SNW	of bldg	74 Blook	IBB	Lot	1			426-99-006	11 - 27 -00
	NOC	\	CASING S	ZE HOLE	TYPE			GRO	UND WATER LEVEL	
	<u>3 ′º</u>	D. 25/8	1.D. Auge	rs 1		Date	Time	Depth	R	emarks
ŀ					}	} }		, ,		_
	40 #	FALL 3	2 -	# FALL		11-27-00	11:32	4.0	Sample #	3
		A. Kid	e s							
ı	PECTOR	7. Z	arks							
	ASING	7	SPOON	RE- 1	SAMP.	2			SCRIPTION AND REMAR	
)WS/FT.	DEPTH	BLOWS/6"	COA.D	NO.	ļ	<u>_</u> _ <u>U</u>	NE LOCA	TES CHANGE OF PROFIL	<u>.E</u>
1	ndanger		Handaugu	Full REC	1					
			 		┪, *	K		-	0 0 440 0	1
-		<u> </u>	 		 	<u>till dark</u>	greyish -	LLOMN _	C-1 SAMU, to brow	vel, tr. Silt, and cinders brick
					Ì	1	٠ ٧		1	ţ
					2	TU			0444	Citt
		├ -	 	 	<u> </u>	till oran	ge - brown	- c- }	SAND , tr. Gravel	-tr-201
_				[_ [1	•	ľ		(
	1	5			3		CA	11X . /	n li cilT	
•••	low	-		 	 _	Tru grey	C-1-34	<u>αħ', tr</u> · 7	Gravel tr SIIT	
L]	TEM		11 - 7			1	,			
-	ider 2	1	- /	16"	1 /.	Brown	. A Chal	1 4 /	112 1 1 2	j
	1	-	3 = 6	+16-		10101011	}>u ₁₇	K 715.7	Grovel, tr SITT	
ļ		<u> </u>	13 - 14	_	1		'			
			16-24	24"	5	SAME	-	-		1
	1	> 10 -								
ļ.	-	├	5-10	 -	/ / X					
	4		19-27	24	6	SAME				12 0
-		_	1	1	1	_	*************************************			7
		<u> </u>		 	₹,	<u> </u>				
					[Note: 2	Samples	Save	d for testing _	7
-				7-1	7					
		► 15 <		 	-{	. AUL	<u>other</u>	<u>Samples</u>	s checked w. Pil	melei
			<u> </u>			20	liscarder	d i		Bottom of Boring
]		}					T
 		 	 	+	-					
_		<u> </u>	1		_}	<u></u>				
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· · -		├ -	-	+	-{					
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NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used
2 — U = undisturbed; A = auger; OER = open end rod; V = vane
3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

Sheet 2 of 3

ROJECT: Port Ivory P&G site									
JOSEGY:		1 7 5	4103		DATE: 11-27-00				
PELD READ		. Z			PID Model: Mini Rae				
			HEAD-	BREATHING					
TIME	SAMPLE No.	IN-SITU Split Spoon Reading	Space Reading	Zone Reading	REMARKS				
AM	1	0.0	O . Ø	00					
		0.0	0.0	o à					
	3	0.0	0.0	0.0					
	4	0.0	0.0	0.0					
	5	0.0	0.0	0.0					
	6	00	0.0	0.0					
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ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION CHAIN OF CUSTODY RECORD

		·	Sheet 3 of 3
PROJECT: Port Ivory P&	ገ ታ		
LOCATION: NW of Blag 74 Bloc	k 1338 Lo	t DATE: 11 - 2	7-00
BORING No: G-3		OF SAMPLES: 2	
SIGNATURE OF ALL PRESENT AT SAMPLING			
SESSESSESSESSESSESSESSESSESSESSESSESSES	888888888888888888888888888888888888888	868868888888888888888888888888888	100000000000000000000000000000000000000
RELINQUISHED	DATE 11-	27 - OO RECEIVED	
3Y (SIGN) OFFLOW	TIME	BY (SIGN)	000000000000000000000000000000000000000
RELINQUISHED	DATE	RECEIVED	
IBY (SIGN)	TIME	BY (SIGN)	
RELINQUISHED	DATE	RECEIVED	
1 '			
BY (SIGN)	TIME	BY LAB	
REMARKS: 2 samples saved lo	r testing i	n 2-1602 jars 81	-2.0z jar each.
Samples # 1	8	Sample #6 On	
"		,	
Test Parameters: TPHC	PP+40	,TAL metals , Pt	1,0il & grease
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THE PORT AUTHORITY OF MY & MU

Engineering Department Construction Division Materials Engineering Section

BORING REPORT

									SHEET OF 3		
F NEBI	. 1	011			NAME OF CONTRACTOR			BORING NO.	SURFACE ELEV.		
YORT	IVORY	PTG SITE	9		CRAIG DRILLING			G4			
1-SATION	,	RTH END BY		6 74	001.0	<i></i>	DATE, 11/29/00				
SPOON	_ 1	CASING SIZ	ZE HOLE	TYPE		426-99-006 11/24/60 GROUND WATER LEVEL					
_ 3 •0	.D. Z 3/8	T.D. AUGER	-1	ţ	Date						
1 MARCO	FALL SAFET	1111	FALL		11/29/00	945	4,5	DURINGHAND AUG	ERING		
DRILLER		•									
	JIM T	INCH					1				
PECTOR DAVIS											
^ASING E DWS/FT.	DEPTH	SPOON BLOWS/6"	RE- 1 COV'D	SAMP.2 NO.				SCRIPTION AND REMAR TES CHANGE OF PROFIL			
				1	CONCRETE						
JA											
MAND		HAND AVOR			FILL - STON				2.5 3		
BUCER		Usadi Diose	FULL	2	FILL GRAN		CINDER	ς			
-	- -		TULL								
	- 5 -		<u> </u>	3							
<u> </u>)	FILL - RIA	CK-STAINE	0 320	UN FINE SAUD	TRACE SUT		
W668		12 8	19"	*	1 .						
		6 5	'	4	1111 7 15L	MCK-STATIN	EU ANU	BROWN PINE	SAND, TRACE SILT		
		12 17	15"	5	SAME				9.1		
	10 -	29 26			BROWN +	LIGHT BROW	M ENE S	iAND, trace Sut; 14	TIMUK GRAY CLAYEY T AT INTERFIRE WITH FILL		
	_	7 12 21 29	16"	6*					7 77 70 70 70 70 70 70 70 70 70 70 70 70		
 	— · —		0.1	,	SAME						
	<u> </u>	12 14	20"	17	_ SOME						
<u>*</u>		28 37	1	7					<u> </u>		
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···						- Au S	AMPLES	SCREENED WITH S	PID METER		
	20		-	-		- Sample	<u> </u>	AND 6 SAVED F	R ENVIRONMENTAL TESTING		
#80°			 	1	<u> </u>	- Au. P	EMAINID	NG SAMPLES DIS			
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NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used 2 — U = undisturbed; A = auger; OER = open end rod; V = vane 3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

Sheet Z of 3

nno iror-	Prox 11	lory Pr	6 SITE		
PROJECT:		06~	<u> </u>		DATE: 11/29/00
BORING No.		m) Dalie			PID Model: MINI RAFE
FIELD READ	INGS BI:	YAN YYAVIS			
	SAMPLE	IN-SITU Split Spoon	HEAD- Space	BREATHING Zone Reading	REMARKS
TIME	No.	Reading	Reading .	ricaumy_	
	2				
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ENGINEERING DEPARTMENT
MATERIALS ENGINEERING DIVISION
CHAIN OF CUSTODY RECORD

		Sheet 5 of 5
PROJECT: PORT NORY Pr6	SITE	
LOCATION: West of north and of build		DATE: 11/29/00
BORING No: G-4	TOTAL No. (OF SAMPLES: 2 SOIL
SIGNATURE OF ALL PRESENT AT SAMPLING		
RELINQUISHED //	DATE	RECEIVED
BY (SIGN)	TIME	BY (SIGN)
RELINQUISHED	DATE	RECEIVED
BY (SIGN)	TIME	BY (SIGN)
RELINQUISHED	DATE	RECEIVED
BY (SIGN)	TIME	BY LAB
REMARKS: SAMPLES # 4 AND	6 N	2-1602 AND 1-202 JACS
1	On ho	lol.
FINANZE SAMPLES #		PHC, PP+40 WITH TAL pH, oil and grease
	menas,	off, oil and grease
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THE PORT AUTHORITY OF MY & MU

Engineering Department Construction Division Materials Engineering Section

BORING REPORT

					SHEET \ OF \
ROJECT	2	1.0.1			NAME OF CONTRACTOR BORING NO. SURFACE ELEV.
į t	oul Ive	ary P+G			Graig Dulling G-S
LOCATION	1 1/W	of BLJ 7	4		CONTRACT NO. DATE 12/1/60
JPOON	3/2	CASING SI	ZE HOLE	TYPE	GROUND WATER LEVEL
3	, _{0.0.} 278_	CASING SI	-	1	Date Time Depth Remarks
AMMER	C 4 15	HAMMER		<u> </u>	
40	# FALL 3	HAMMER	# FALL		12/1/00 AM S'
DRILLER			ITALL		
ISPECTO	5eFF				
Charle Sprigor					
CASING LOWS/F		SPOON BLOWS/6"	RE- 1	SAMP. ² NO.	² SAMPLE DESCRIPTION AND REMARKSLINE LOCATES CHANGE OF PROFILE
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NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used
2 — U = undisturbed; A = auger; OER = open end rod; V = vane
3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

Sheet 2 of 3

	DFT	TZI	(r-				
PROJECT:	TOVI TO	ory P+			DATE:	12/1/60	
BORING No.	<u>0-5</u>	1 4,4,0 6			PID Model:		
FIELD READ	INGS BY: (have Sp					
	SAMPLE	IN-SITU Split Spoon	HEAD- Space	BREATHING Zone Reading		REMARKS	
TIME	No.	Reading	Reading .	neading			
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AM	\mathcal{N}		0.00				
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			Sheet 3 of _	
PROJECT: POUT IVON			,	
LOCATION: NW BLD 74		DATE: 12	11/60	
BORING No: 6-5	TOTAL No. O	F SAMPLES:	1 Soil	
SIGNATURE OF ALL				
PRESENT AT SAMPLING		889866888888888888888888888	; ::::::::::::::::::::::::::::::::::::	888888888
RELINQUISHED ////	DATE	RECEIVED		
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RELINQUISHED	DATE	RECEIVED		
BY (SIGN)	TIME	BY (SIGN)		
RELINQUISHED	DATE	RECEIVED		
BY (SIGN)	TIME	BY LAB		
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REMARKS:	·	-		
Sarphin 3	1216	5105	1:202 50V	
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		PHC PP+4	O W/ YAZAWAIC	
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Engineering Department Construction Division
Materials Engineering Section

BORING REPORT

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F XJEC	- τ .	POUT :	Ivov/	P+6		NAME OF CONT			BORING NO.	SURFACE ELEV.
LOCATI	ON	WB			<u>-</u>		0		CONTRACT NO. 426-99.00%	DATE 12/1100
E. JON		-3/6	CASING	SIZE HOLE	TYPE			GRO	OUND WATER LEVEL	
<u> 3 </u>	* 0.	D. 276	TI.D. CASING	V		Date	Time	Depth		emarks
I MME	ン # :	SIP+ FALL 3(HAMMER	# FALL		12/1/00	1230	51		
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						FINE SILL) Truc	·SILT	TVAC- Grand	
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NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used 2 — U = undisturbed; A = auger; OER = open end rod; V = vane 3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

PROJECT:	ROJECT: POUT IVOUY PAGE										
BORING No.	: 6-5A				PID Model: mwe	PAF					
FIELD READ	ings by: C	havle spi	rifer		PID Model: MWE	17.4 C					
TIME	SAMPLE No.	IN-SITU Split Spoon Reading	HEAD- Space Reading	BREATHING Zone Reading	R	EMARKS					
PM	5		0000								
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PROJECT: POUT IVALY			
LOCATION: NW BID 74		DATE: 12/1/	00
BORING No: 6-5A	TOTAL No.	OF SAMPLES:	Sell
- 1 / A			
SIGNATURE OF ALL			
PRESENT AT SAMPLING		8888888888888888888888888888888888	98688888888888888888888888888888888888
RELINQUISHED //	7 DATE	RECEIVED	
BY (SIGN)	TIME	BY (SIGN)	
RELINQUISHED	DATE	RECEIVED	
IBY (SIGN)	TIME	BY (SIGN)	
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RELINQUISHED	DATE	RECEIVED	
BY (SIGN)	TIME	BY LAB	
REMARKS:		,	
Suplos to	5_	in 2;16°	5 ± 1; 505 2012
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andlyze	5	Per	
	TPHO	PP+40, TOL	nells,
	P	+ OSL+ Greene	•
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Engineering Department Construction Division Materials Engineering Section

BORING REPORT

									SHEET OF 3
ROJECT		7	,		NAME OF CONT	RACTOR		BORING NO.	SURFACE ELEV.
4	OUT I	ivous Pt	5		CV	is Dull	12	66	
LOCATION						0	0	CONTRACT NO.	DATE
Ŧ	三 BL	d 56						426.99.066	12/1/00
POON		CASING SI	E HOLE	TYPE			GRO	UND WATER LEVEL	
ラ *0	.p. ≥ %	I.D. Byfev		j	Date	Time	Depth		Remarks
TAMMER	Sup				12/1/2	044	5'	- 	
46 #	FALL 3C		FALL	-	12/1/00	PM		· ·	i i
DRILLER									
JeF	FCV1	·&					İ		
SPECTOR							-	***	
, ch	svie S	Dr. HOL						}	÷
CASING		SPOON	RE- 1	SAMP.2		3SA	MPLE DE	SCRIPTION AND REMAI	RKS
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NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used
2 — U = undisturbed; A = auger; OER = open end rod; V = vane
3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

Sheet \geq of \leq

PROJECT:	POUT I	VOUY I	7+6-		DATE: 12/1/00
BORING No.	G-	-6		-	
FIELD READ	NGS BY: (<u>claulie</u>	Spunge		PID Model:
		IN-SITU	HEAD-	BREATHING	REMARKS
TIME	SAMPLE No.	Split Spoon Reading	Space Reading	Zone Reading	
PM	3.		002 D		
7~	4		0.09A)		
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				Sheet 3 of 3
PROJECT: POUT IVOUY	P+6			
LOCATION: 三BU SE			DATE: 12/1/	00
BORING No: G-G		TOTAL No. OF S	AMPLES:	Sarl
SIGNATURE OF ALL		/ ,		
PRESENT AT SAMPLING	" DJ			~~~
RELINQUISHED ////	1	DATE	RECEIVED	
BY (SIGN)	1//	TIME	BY-(SIGN)	
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RELINQUISHED		DATE	RECEIVED	
BY (SIGN)		TIME	BY (SIGN)	
RELINQUISHED		DATE	RECEIVED:	
BY (SIGN)		TIME	BY LAB	
REMARKS:				
SupleS smize	3+4	in 2	1602 1202	Surs
pnolize	3+4	For:		· · · · · · · · · · · · · · · · · · ·
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Engineering Department Construction Division Materials Engineering Section

BORING REPORT

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I OCATION	1								CONTRACT NO.	DATE/ 11/21/00
South	- OF BUIL	ions 56							426-99-006	11/21/00
5-00N	73/	CASING SI		TYPE				GRO	OUND WATER LEVEL	
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NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used
2 — U = undisturbed; A = auger; OER = open end rod; V = vane
3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

PROJECT:	Howard H	DOK, PORT IVE	My P&6 5	ITE		 	· · · · · · · · · · · · · · · · · · ·
BORING No.		(4)			DATE:	11/21/	00
FIELD READ		2001 DAVI	5		PID Model:	MINI	RAE
			HEAD-	BREATHING			
TIME	SAMPLE No.	IN-SITU Split Spoon Reading	Space Reading	Zone Reading			REMARKS
PM	1		0,0				
)	2		0,0				
=	3		0,0				<u> </u>
	4		0,0				
	5		0.0				
	6		0,0				
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J	8		0.0				
							
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ENGINEERING DEPARTMENT
MATERIALS ENGINEERING DIVISION
CHAIN OF CUSTODY RECORD

Sheet 3 of 3HOWLAND HOOK, PORT WORK P& 6 SITE PROJECT: DATE: 1/21/10 SWAT DE BUNDING 56 LOCATION: C-7(N) TOTAL No. OF SAMPLES: **BORING No:** SIGNATURE OF ALL PRESENT AT SAMPLING RELINQUISHED DATE **RECEIVED** TIME BY (SIGN) BY (SIGN) DATE RECEIVED RELINQUISHED TIME BY (SIGN) BY (SIGN) DATE RECEIVED RELINQUISHED TIME BY LAB BY (SIGN) **REMARKS:** SAMPLE #5 -> 1-16°2 ONLY

AVAILEE FOR TPHC, BNHS, TAL METHUS, PCBS

(IF HOWE ENOUGH MATTERIAL, DO REMAING PPH40

PARAMETERS) SAMPLE #6 -> 2x1602 AND 1x202 ANAWBE FOR TAKE, PP+40 WITH TAN METALS, pH, oil and

Engineering Department Construction Division **Materials Engineering Section**

BORING REPORT

									SHEET / OF 3
OJECT	. 0	· -			NAME OF CONT			BORING NO.	SURFACE ELEV.
bu	WORY 18	16 SITE			CRAIG VI	MUN6	}	G-8	
LOCATION		_	_,					CONTRACT NO.	DATE 11/30/00
500	TH OF	BUILDING						426-99-006	11/39 00
'00N	23/	CASING SIZ	E HOLE	TYPE			GRO	UND WATER LEVEL	
ALLAND	D.D. 23/6_	*******			Date	Time	Depth	Re	emarks
MMER 40 #	FALL SAPERY 30	HAMMER	FALL		11/30/80	1245	5.0	Draine HAND A	JOERING
DRILLER	< /								
	JIM ZIN	***							
SPECTOR	T MAC	Partic				1	1		
	/4/1					L	<u> </u>		
CASING .OWS/FT.	DEPTH	SPOON BLOWS/6"	COV'D	SAMP. ² NO.		LI		SCRIPTION AND REMARK TES CHANGE OF PROFIL	.E
130FA OUNT	_	HAND AUGE		IA	CONCRETI	<u> </u>			- 0.6
1		1	Full	13*	FILL -> DRAN	65/BROWN	FINE TO ME	DIVM SAND, ERACE SILT, S	OME BROWN SAND AT
' 	<u> </u>		1000		1111				.0 TO 2.0
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\ \				12					
				 	 				
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🎳		V	J.		Í				6.0,
ALXOER		4 3	18	HA*	SAME, BUT	STHINED	BLACK		6.6
N/NOVIC	 		10	ł	1. ,			D, TRACE SILT	
<u> </u>		12 29	<u> </u>	4B	DIMINI	WE TO IMED		יטוב אוייןעיי	
		14 9	19		Came . C.	and F. 1/1	2 *	TOME CU	C NC 14 + 19"
		9 11	 -	5	13.00	Zul Jine I	C .IAICINIA	M SAND, TRACE SIL	1 HI 17 1011 -
	- 10 -				 				
		9 14	20		SPME;	NO GRAY	SAND		
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	├					an ken	70 MINR _	SAMPLES DISCARDE	3 /
									
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	▶ ◀				<u> </u>				

NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used 2 — U = undisturbed; A = auger; OER = open end rod; V = vane 3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

PROJECT:	Pour 1	ION Per 6	5 SITE		
BORING No.					DATE: 11/30/00
FIELD READ	INGS BY: 🅦	W DAVIS	~~~	····	PID Model: MWI RAE
		IN-SITU	HEAD-	BREATHING	REMARKS
TIME	SAMPLE No.	Split Spoon Reading	Space Reading	Zone Reading	
	1	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0,0		
PW			0,0	`	
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	13				
	9		.00		
	5		0.0		
V	6		0.0		
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		Sneet	ンのン
PROJECT: PORT WORY PT	6 SITE		
LOCATION: SOUTH OF BUILDING	5 56	DATE: 1/30/00	
BORING No: G8	TOTAL No. C	F SAMPLES: 2 SOIL	
SIGNATURE OF ALL			
PRESENT AT SAMPLING			
RELINQUISHED	DATE	RECEIVED	<u> </u>
1 ·	TIME	BY (SIGN)	
BY (SIGN)	TIME	D1 (3/3/1/)	8888888888888888
RELINQUISHED	DATE	RECEIVED	•
BY (SIGN)	TIME	BY (SIGN)	
RELINQUISHED	DATE	RECEIVED	
BY (SIGN)	TIME	BY LAB	
		AND 1-202 BOTTLES	
ANOLYZE B	S AND HAS	FOR TPH, PP+4	0 wnt
	1 TA	metars, of, oil o	md
		aveuse	
	VES, ANALYZ	grease EYA AS WRITTEN AB	OVE
<u> </u>			
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Engineering Department Construction Division **Materials Engineering Section**

BORING REPORT

									SHEET 1 OF 3
JECT	_	0 1 0			NAME OF CONTRAC	CTOR		BORING NO.	SURFACE ELEV.
Mort]	VOEU.	L f C	-		Craig dril	lina	ļ	G 9	
OCATION	-0014	' 7 -	 ;		orary arm	,,,,,		CONTRACT NO.	DATE
	167	. 0 011.	c/ D	4. 1.	1770 Î L.	•	į	7 7 - 0 /	11-28-00
15 3	of OM CO	rner of Bldo	50 C	NOCK	1338 Lot 1				111-20-00
	3/0	A .	HOLE	ITPE				OUND WATER LEVEL	
	о.р. <u>2.78</u>	1.0. Auger	5		Date	Time	Depth	Re	marks
MER	Safety	HAMMEN			- I				į
	FFALL J3	0 -	FALL	24	11-28-04	10:16	3.0	SAMPle # 2	
DRILLER	A 1/.	١						,	
	A. Kio	les							
PECTOR	7	1							
	1. 4	arks							1
CASING	TU	SPOON	RE- 1	SAMP.	2	3SA	MPI F DE	SCRIPTION AND REMARI	KS
)WS/FT	DEPTH	BLOWS/6"	COV'D	NO.				TES CHANGE OF PROFIL	
TER HEA	~ 0 ^	Cutter Head	Full Rec				C.O.N	CRETE	0.4
IN-DEPREE	<u> </u>	HANDAUGER	IMH KEC				- 06	MC .	
1	1			1	T-11	٠ ١ -	(CA	ND & Gravel little	CIT
	 	 	 		TILL GreyIsh	Olock C	<u>- † 3</u> M	NY or Granel little	
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TEM	+	2-2	 	/					
GERS	1	7 9	20"	14	Brawn C	-b	INAS	I, tr Gravel tr	SII
	 	 	 20	 	TA OWILL	· }	العندا ب	Ly 1 - Olevery 1 -	
		3-11		_		'	<u>. </u>		
1		13-15	2011	5	LSAME	-	-		1
	- ▶ 10 -		120	 	+-'20,000	<u></u>			
		19-30	1) , <u>y</u>	.]				
T T			24"	6	SAME				
. <u>I</u>		28-21	<u> </u>	10	DKITE	- warned to "Model" was a			12.0
		1	-	,					#
· ,	 	 		 ,	***				
	<u> </u>		1	_	Note: 2 Sa	mples	SAVE	L for testing.	
	\	1		1	1	,	_		
	→ 15 •	4	+	-1	All st	her son	aples	checked wPIDmet	<u>er</u> — — — —
		<i>:</i>			2 die	carde	1,	Bot	tom of Boring
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NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used
2 — U = undisturbed; A = auger; OER = open end rod; V = vane
3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

THE PORT AUTHORITY OF IN. 1 & IV.

ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

DO ISCT.	Port Ivori	PEG			
ROJECT:	Λ -	1 19.0			DATE: 11-28-00
IELD READ		1. Z			PID Model: Mini Rae
וכאט תכאט				IDDEATURE	
	SAMPLE	IN-SITU Split Spoon	HEAD- Space	BREATHING Zone	REMARKS
TIME	No.	Reading	Reading	Reading	
.M	1 .	00	0.0	0.0	
t -	2	0.0	0.0	0.0	
:	3	0.0	0.0	0.0	
	4	0.0	0.6	0.0	
	5	0.0	0.0	0.0	
	6	0 .0	0.0	0.0	
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		Sheet 3 of 3
.'ROJECT: Port Ivory P&G		
OCATION: ± 65'S of SW corner of Bldg 5	6 Block	K1338 Lot I DATE: 11-28-00
BORING No: G		lo. OF SAMPLES: 2
LIGNATURE OF ALL		
RESENT AT SAMPLING	888888888888888888888888888888888888888	099009830088008800088308888888888888888
RELINQUISHED X TO OUT OF THE PROPERTY OF THE P	DATE]	-28-00 RECEIVED
Y (SIGN)	TIME	BY (SIGN)
^ELINQUISHED	DATE	RECEIVED
⊳Y (SIGN)	TIME	BY (SIGN)
ELINQUISHED	DATE	RECEIVED
BY (SIGN)	TIME	BY LAB
REMARKS: 2 Samples Savedo Sample #3 to be test	1	- 16 oz jars & 1 - 2 oz jar each.
Sample #6 On hold		·
Test Parameters: TPHC	, PP+	40 TAL metals, P.H. Oil & grease
· 6		

Engineering Department Construction Division Materials Engineering Section

BORING REPORT

									•	SHEET OF 3
OJECT	T	P 1	<u> </u>		N/	ME OF CONT			BORING NO.	SURFACE ELEV.
Port	Lvory	7 8	J	!		Craig	drilling	a	610	
LOCATION	J					J		J	CONTRACT NO.	DATE /
15'E	of Wire te	nce at Western Casing so	Ayenue	across Si	90	46 Block	1338 L	<u> </u>	426-99-006	11-27-00/11-28-0
OON	1 . 3/n	CASING SIZ	ZE HOLE	TYPE	•				OUND WATER LEVEL	
<u> 3 °C</u>	D.D. 2.48	"I.D. AUDES HAMMER				Date	Time	Depth	Re	marks
				_			O . AM	۱ سم	Q 1, 1/7	
DRILLER	FALL 3	0 " 4	FALL			11-20-00	8:10 AM	5.01	Sample#3	
DINELLIN	<u>A.Kid</u>	a c)			}		,	
SPECTOR	CY / NIG	<u> </u>				}	<u> </u>	<u> </u>		
		rks		1			1			İ
CASING	7.70	SPOON	RE- 1	SAMP.2	1	L	3SAI	MPLE DE	SCRIPTION AND REMARK	(S
OWS/FT.	DEPTH	BLOWS/6"	COA.D	NO.					TES CHANGE OF PROFIL	
ulter Head	0,	Cutter Head	full Rec	٠,	_			Con	crete	0.5
nandauger	 - -	Hand AUGER			-		J .		ABC - Crushed Rock	ر ار ی دممارا
	├ -	ļ	 			<u> ill_dar</u>	k <u>Gre</u> yish	-brow	in c-1 SANU so	me Grovel, tr. Silt, cindu
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	T -			9	Г	SAME				
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	5 -			7	L	SAME	• •			
]	1 1	3	<u> </u>			N L	Court I. CUT	5.5
Wolk	 	 	 	ļ	┼─	DLOWD C	- + 24K	.V., 11	Gravel, fr Silt	
ETEN	 	0 - 1	ļ	/ /	L		_ <u></u>			
igers		13-6	20"	4		SAME				
		0 - 8			T		-			
	 - -	1	/ 11	1	\vdash	<u></u>	,			
	10	12 - 15	24"	\Box	L	SAME	<u> </u>			
	, ,	7 - 15	(.*		•				
· ——	T -	7	24"	6	-	SAME				
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NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used 2 — U = undisturbed; A = auger; OER = open end rod; V = vane 3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

PROJECT:	Port Ivo	ry Pa	G		DATE: 11 - 27 - 00
PRING No.	17 10				PID Model: Mini Rae
FIELD READ	INGS BY:	·Z			
TIME	SAMPLE No.	IN-SITU Split Spoon Reading	HEAD- Space Reading	BREATHING Zone Reading	REMARKS
P.M. 1-1-1	1	0.0	0.0	0.0	
	_	0.0	0.0	0.0	
11-28-00 AM	3	0.0	0.0	0.0	
	· Å	0.0	0.0	0.0	
	5	0.0	0.0	0.0	
	6	0.0	0.0	0.0	
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			Sheet 3 of 3
ROJECT: Port Ivory P&G			
OCATION: ± 25 E of Wire Fence at Western	Avenue B	lock 1338 Lot 1 DATE: 11 -27-	-00/11-28-00
JORING No: G 10	1	10. OF SAMPLES: 2	,
IGNATURE OF ALL			
PRESENT AT SAMPLING WWW.5	18888888888888888	000000000000000000000000000000000000000	000000000000000000000000000000000000000
RELINQUISHED K	DATE 1	1-27-00 RECEIVED	
r (SIGN)	TIME	BY (SIGN)	180888888888888888888888888888888888888
RELINQUISHED	DATE	RECEIVED	
r (SIGN)	TIME	BY (SIGN)	
ELINQUISHED	DATE	RECEIVED	
BY (SIGN)	TIME	BY LAB	
	1	• /	
1	, γ,	2-160z jars 2-1	-2 oz jar each.
Sample # 2 & Samp	le # 6	ON Hold.	
Test Parameters: TPHC, PP+	40 T	Almetals, PH, Oil &	x grease
		, , , , , , , , , , , , , , , , , , ,	3
	 		
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Engineering Department Construction Division **Materials Engineering Section**

BORING REPORT

										SHEET / OF 3			
I .NECT	T .				NAME OF CONTRACTOR Craig Drilling Block Mee Contract No. DATE Northalt woodching or Lett 426-99-006								
Por).	Lory	PAG SiTe			ĺ	Crais V	Hillha		HR-/				
! FCATION	/						DATE						
West	Sideof	SITE, Noch CASING SIZ	Perce	, Norm	th	woodchiz	oper L	oTI	486-99-006	12/2/00			
SHOON	o 3/	CASING SIZ	ZE HOLE	TYPE			· · · · · · · · · · · · · · · · · · ·	GR	OUND WATER LEVEL				
VIMER).D. 0 8	"I.D. HUCH'S	1 1			Date	Time	Depth	·	Remarks			
) UA	SateT			ł		relate	06,	3.5	1 11 11	10.			
DRILLER	FALL 30		FALL			Toreice	1	5,5	While Man	of Auguins			
	<	Buxus								·			
PECTOR													
	_	House						}					
CASING E DWS/FT.	DEPŢH	SPOON BLOWS/6"	RE- 1	SAMP.	T				SCRIPTION AND REMAI				
iland	~ \bigcirc ~	Hand Bugy	Full	1		Crushon	1 STone						
	-	1	7011		+	0.03.00	3 70,00			1,0			
Huger		 	 	1 1	L								
				<u> </u>	1	Misc Fi	11 Gads	rs, Gre	evel white Date	nacoous Earth 30			
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tollow		WOH											
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Buyers		(10H-2		5	L		`						
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		WOH	}		`	,		l	.— · · · · · · - ·				
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NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used
2 — U = undisturbed; A = auger; OER = open end rod; V = vane
3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

DDO IECT	Park Tun	ry Pd (`		
DRING No.	PD-4 B	'''			DATE: 12-2-00
RELD READ		.Z.			PID Model: Mini Rae
			HEAD-	BREATHING	I
TIME	SAMPLE No.	IN-SITU Split Spoon Reading	Space Reading	Zone Reading	REMARKS
10: 15AM	1 -	0.0	0.0	0.0	
	2	0.0	0.0	00	
	3	0.0	0.6	0.0	
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ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION CHAIN OF CUSTODY RECORD

Sheet 3 of 3

PROJECT:	POITIC	ory F	HG SITE		·			
LOCATION:	Wostside	of Side	Northof wood	dehippor	DATE:	12/2/0	c	
BORING No:	1115			L No. OF SAI	MPLES:	2 So,,	/	
SIGNATURE O	F ALL							
PRESENT AT S	AMPLING						000000000000000000000000000000000000000	3888888888888
RELINQUISHED)		DATE	12/2/05	RECEIVE	D		
BY (SIGN)			TIME		BY (SIGN	1)		
RELINQUISHED)		DATE		RECEIVE	D		
BY (SIGN)			TIME		BY (SIGN	()		
RELINQUISHED)		DATE		RECEIVE	D.		
BY (SIGN)			TIME		BY LAB			
REMARKS:		······································	<u></u>		<u> </u>	***************************************		
								
	Soil S	amply	in 2-16	or Her	1-6	703 Jun	2404	
•	5412		ju 2-16	~			/ . 	
T.	ost for	TPHC	, PP+4c w	MTAIM	ا رکام آن	Phy Ci	1 & Grasse	·
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Engineering Department Construction Division **Materials Engineering Section**

BORING REPORT

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ROJECT	Tu	0×1 ==	-		N/	AME OF CONT			BORING NO.	SURFACE ELEV.
1011	MOLY	PAG SITE	e		L	Crais	Orilling		H/R-2	
OCATION		N		6	CONTRACT NO.					DATE /. /
1400	YRUY	Noor For CASING SIZ	ce LIN	e B	100	£ 1400	LOTT		426-99-006	11/10/cc
		CASING SIZ	E HOLE	TYPE				GRO	OUND WATER LEVEL	
AMMER	Safo	"I.D. HAMMER		ر		Date	Time	Depth	Re	marks
	FALL 30	. 1				11/10	3	515	1. 1.	
DRILLER	FALL 90		FALL			1110	_3	013	cpar hole	
	S	Burns				1 1.	9:38 ^{AM}	- 01		
ISPECTOR						11/11	1:00	5.2	Open hole	
	\mathcal{V}	lowe					,			
CASING		SPOON	RE- 1	SAMP.	1		30 A	HDI E DE	SCRIPTION AND REMARK	76
LOWS/FT.	DEPTH	BLOWS/6*	COA.D	NO.					TES CHANGE OF PROFIL	
Hand	0	Hand Augr	Full	1	Τ	Mar to				
f	-	100001	1011	(-	1412C 1-11	1 - CIR	deus >	and Ground Brek	-1 E7C
Dugar					L					
}				2		F.11-0.	Tames	*	Earth White Hor	
				L	上	~ · · · · · · · · · · · · · · · · · · ·	11 <u>U/m 4 C 1</u>	ZOOY E	-arin (walla PUR	~/}
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	> 5			}	l					
1 1 1				1						
	-			-	-					
	<u> </u>			3	L					
						SAMI	•			
Hollow		- W	Ψ	 	忄	_0////				
STEM AUGER9		1 - 1		1	<u>_</u>		_ `			
HUGEN,	10	1 -1	2.4	4		SAME	· 			
	10				1	<u> </u>				
<u> </u>				4	-		,			
. — — —			24	5	L	SAME	· 			1
		L - WOR	,							
	_	- WUX	, / F	1	-	SAME				
		1-1	24	6	_	_ <u> </u>		:		
	15	W - 0								}
'		11	24"	7		SAME				
		<u> </u>	<u>~~</u>		╁					
 		1 = 1		A		SAME				17.0
!_ ∳		1 - 2		81	Į –	Brown	DE V.	T		· Clayey Sill 18.0
				<u> </u>	1	Prow U	167	, , , , , , , , , , , , , , , , , , , 	LEIE SOIGCK Organis	c clayey JIII 18.0
			<u> </u>		<u> </u>					
	> 20 <			}						11
				1			1 C			B D D D D
,			· · · · · ·	}	-		1711 20	ing/les	Checked WITH	1/2/0/2/ NIN
				J			5#142	Z Sau	checked with	/
`,	•]	Γ		- 	=	_	. /
					-	,			— — — 2	ratton of Boring
					L	<u> </u>	imple #	<u>88</u> .	sowed (on hold	for Testing
	-25						, ,,,,,,			'I J
	- < > ◀			<u> </u>	<u></u>					

NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used
2 — U = undisturbed; A = auger; OER = open end rod; V = vane
3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

PROJECT:	POTT IN	ory Pdc	SITE				
BORING No.	H/R-2	ony Pdc		·	DATE:	11/10/00 Mini PAE	
FIELD READ		D More			PID Model:	MINI PHE	
		IN-SITU	HEAD-	BREATHING		DEMARKS	
TIME	SAMPLE No.	Split Spoon Reading	Space Reading	Zone Reading		REMARKS	
PM	1.		0.0				
	2		0.0	`			
	3.2-8		00				
	4		· B D				
	5		0,0				
	6		0.0			· · · · · · · · · · · · · · · · · · ·	
	7		0.0			<u> </u>	
	8 %		1.0				
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1							
			·		-		
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		`			÷		Sheet 3	} of <i>}</i>
PROJECT:	orT Ivory	PJG	51Te					
	" Corner,	Neor F	ence 1	in!	DATE:	11/10/00	,	
30RING No:	HIR-2				MPLES: J	501/		
SIGNATURE OF ALI								
"RESENT AT SAME	LING	000000000000000000000000000000000000000	808880888888	2020000000	888888888888888	38888888888888888888888888888888888888	0800000000	8888888888888888
RELINQUISHED			DATE	11/10/00	RECEIVE	D		
Y (SIGN)	888888888888888888888888888888888888888	188888888888888888888888888888888888888	TIME	90090909099	BY (SIGN	l) 808888888888888	88888888	
RELINQUISHED			DATE		RECEIVE	D		
JY (SIGN)			TIME		BY (SIGN	1)		
i elinq uished			DATE		RECEIVE	D		
BY (SIGN)			TIME		BY LAB			
		1912-9-1919-9-1919-9-1919-9-1919-9-1919-9-1919-9-1919-9-1919-9-1919-9-1919-9-1919-9-1919-9-1919-9-1919-9-1919-	<u> </u>			0-10-10-10-10-10-10-10-10-10-10-10-10-10	<u> </u>	<u> </u>
REMARKS:	<u> </u>						· · · · · · · · · · · · · · · · · · ·	
J 501	1 Samples	in 2-	1603	few of	- 1-20g	far -	Ruck	
5H	122				- 			·
Test	54/12				·		·	
TPH	C PP+400	WITH J	PLM	479/5,	Ph c	0.12 84	lase	
	10 pp+400 Hdo No	T Flush	11/10	100				
							-	
· 								
					·			
	· · · · · · · · · · · · · · · · · · ·							

		Sheet 3 of 3
PROJECT: Ivory Pt.		
LOCATION: As faid out.		DATE: 11-11-00
BORING No: HR-2	TOTAL No.	OF SAMPLES:
RESENT AT SAMPLING	10:15 PM	-
\	200000000000000000000000000000000000000	
RELINQUISHED	DATE 11 -	- II-00 RECEIVED
3Y (SIGN)	TIME	BY (SIGN)
RELINQUISHED	DATE	RECEIVED
J3Y (SIGN)	TIME	BY (SIGN)
RELINQUISHED	DATE	RECEIVED
1		
BY (SIGN)	TIME	BY LAB
REMARKS: 1 Sample in 2 - Sample # & B depth	17.0 ¹ -18.0	o'
On hold.		
·		
		
1		
		·
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Engineering Department Construction Division Materials Engineering Section

BORING REPORT

					SHEET / OF 3
Port	Tu ₅	D)cc	T-		NAME OF CONTRACTOR BORING NO. SURFACE ELEV.
[CATION	Tuory	PZG SI	10		CONTRACT NO DATE
NW	COVALLE	LOT, Nea	F		e Block 1400 LOT / 426-99-006 11/10/00/11-11-0
SPOON	2	CASING SIZ	E HOLE	TYPE	GROUND WATER LEVEL
3 0	D.D. 2%	"I.D. HAMMER	1 1		Date Time Depth Remarks
MMER		HAMMER			While was transfer and the same of the sam
140 #	FALL 30	#	FALL		11/10/00 11 510 while Hand Augustry
UHILLEH		Spors			11/11 8:10 AM 4.6 Open hole
SPECTOR					11/11 8:10 ^{AM} 4.6 Upen hole
		Nouse / J	Zal	les	
ASING	DEPTH	SPOON	RE- 1	SAMP.	
OWS/FT.	► CH <	BLOWS/6"	COV'D	NO.	LINE LOCATES CHANGE OF PROFILE
Mand	<u> </u>	Hand Augu	Fy		Misc Pill - Choles Croud, Sand, ETC 1,0
Jugar					, , , ,
<u> </u>				12	Fill PiaTomacocus Edult, (White)
	 				TIU PRIVITIANOUS CANTIL CONTRE
 	├ -		 	7	
	2			3	SAME
		/			
				1 4	
	 		- -	/	Same
n ^J llon	 	V	1		Jame
STEM	├ _	Wot-1	<u> </u>	_	
ugers	15)	1 - 1	24"	5	SAMÉ
	10	2 - 2		1	
	 	1	0 /11	/	
 	-	1-1-1-	24"	6	Fill Diatomacecus Farth (White & light grey).
	⊢ −	1 - 1		<u> </u>	
		1-1	24"	17	SAME
		9	<u> </u>	 ' -	
 	<u>► 15</u> -	2-1	0 /1	8	CAME
I —	 	1-3	24"	10	SAME
2	<u> </u>	1 - WO.R	<u> </u>		
1		1-3	2.4N	19	SAME
	<u> </u>		~ -	1	VII all a PPANN OL CIN LINE O
 	 	 	 	1	Yellowish brown c-f SAND some Clayer Sitt, little Grand.
ł	20-		<u> </u>	1	1 Samples checked with PID MeTfr
]_		BH Samples checked WITH PID MOTEV St 1-3 Sawel for TosTius, 54H2 Tobo TosTor
				1	Panal Sanal McCarles
	 	 	 	1	Remaining Samples Discarded
	 		<u> </u>	1	<u> </u>
					Bottom of Boring
ſ	3				
	→ ん) ◀		<u> </u>		

NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used
2 — U = undisturbed; A = auger; OER = open end rod; V = vane
3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

PROJECT:	Port Iv	ory PdG	SITE		11/12/22
BORING No.	HIR.	-3			DATE: ///U/CC - /11/11/00 PID Model: MINI PITE
FIELD READ	INGS BY:	Doone			PID Model: JXINI PIDE
TIME	SAMPLE No.	IN-SITU Split Spoon Reading	HEAD- Space Reading	BREATHING Zone Reading	REMARKS
M-A			0.0		
1214	2		0.0	,	
•	3		0.0		
	(1		. 0.0		
11-11-00	7.				
AM	5 (0.0		
	7		0.0		
	8		0.0		
	9	· · · · · · · · · · · · · · · · · · ·	00		
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	-				· · · · · · · · · · · · · · · · · · ·
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					·
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			-		

		· :	Sheet 3 of 3
PROJECT: POT IVORY PA	G 5,70		
ROJECT: PORT IVORY PT LOCATION: NW CORNER OF LOT	t. Near Feace L.	02 DATE: ///10/	o _C ,
JORING No: HP 3	· •	F SAMPLES: 3 So./	
IGNATURE OF ALL		•	
PRESENT AT SAMPLING			
RELINQUISHED	DATE	RECEIVED	
Y (SIGN)	TIME	BY (SIGN)	
RELINQUISHED	DATE	RECEIVED	
Y (SIGN)	TIME	BY (SIGN)	
ELINQUISHED	DATE	RECEIVED	
BY (SIGN)	TIME	BY LAB	
nEMARKS:			
J Sal Samples In	2-16az -	lar + 1-20g_	fui
Fest 5#1+2			
TPHC PP+40 WITH	TAL motal	Ph, ciltgre.	&
	ot Flushod 10	•	
PONUT TOST 5th3 At	his More		

Engineering Department Construction Division Materials Engineering Section

BORING REPORT

										SHEET / OF	3
PROJECT		~ > <			NA	ME OF CONTI			BORING NO.	SURFACE ELEV.	1
Port							Oryla	8	1-1		
I CATION	A			<u> </u>				J	CONTRACT NO.	DATE	}
utass 1	Area, N	lorth of Ta	wks	Blog	<u>c</u> Ł	1309	LOJIC		476-99-006	11/13/90	
								GRO	OUND WATER LEVEL		
3 ").D. 7 18	1.D. Auge	<u> 15 </u>	1		Date	Time	Depth	R	emarks	
MMER	-	HAMMER						. ,	3 C 1 110		ł
140 #	FALL 30		# FALL		l i	11-13-00	8:20°	6.0	o' Sample #9	<u> </u>	
PHILLER	D.Osu	ich									1
PECTOR	<u> </u>					ļ		} -			
	J. Zar	kc]			
ASING	J. 241	SPOON	RE-	1 SAMP.	2	l	3C A	MDI E DE	SCRIPTION AND REMAR	K6	
DWS/FT.	DEPTH	BLOWS/6"	COVI						TES CHANGE OF PROFI		0.0
Handauge		Handauger	Full		1.					- - - - - -	
- 30	<u> </u>	1 300	+		+						
				1	IM	lisc Fil	Grave	SAND	, Rock , brick , cinc	lers Sill	
							· 7	-	, , , , , , , , , , , , , , , , , , ,	- , -	3.0
	<u> </u>		++-	12	1-	- 11		1 1			
-		 	 	1~	$oldsymbol{\perp}$	Eill_ge	ey	lieto	maceous		- —
	5 <			}	1	U	V				
				73	(Fill ar		1			
wolla		₩	- - - - - - - - - - 	+	+-	Fill gr	2 4	dieto	ma Census		
STEM	<u> </u>	2 - 2		╛,							
AUGERS	ŧ	1 _ 1	24	*	7	Fill gr		اء: ا	amaceous.		
			1 2.1	'' -	+	tri — Ak	ey	-árei	Omuceous:		
	 	 	 	4 5	\vdash		 				
	10 -	1-1	21			SAM	16				
	r 10.		1		T						
-	 	 	1	B /	-	CAN	-				
- 	⊢ –		124	" 6	4	SAM	14				- —— ·
	. '	1 - 1		,					•		[
	· -	, ,	24	11 -9		F:II	0	1.10	1:01		
	 	 	14	 	+	THE Gre	4 × W	IIL	dietoma a ous'		
' - -	15 -	1-1	1		L	v v	v				
		1-1	96	7 8		SAM					1
	_	, ,	1~3	1	\ \ \ \		<u> </u>		······································		
 	-	1 - 4	+	1 9	١	SAME					- J7. K
		5-2	24	<u>.</u> 6	3	Brown	PEHT	-/od	oc) 6.9pm		18.0
] _				T				,		4
	 - -		 	\dashv	\vdash			-			- 4
	20-			4		_ Note	i Sample	s #1	52 & 9B wer	e saved	
. :	~ `		1	1	1				were screened		
	\vdash		 	7	1					Bottom .	Boni
· · _	├ -			-	-	_ KII)	meter 9	ad th	en discarded_		7-1
,				_\			mple 1 8		will be tested _		
				7		•	1	_	1 11		
	 			-	-	مح ــــ ح	mple #	-10	or reld		
·			<u> </u>				· · · · · · · · · · · · · · · · · · ·				
	NOTE	S: 1 — Length I	ecovered	; 0" — Lo	ss of	f Sample, T	- Trap used				•
		2 — U = ünx	disturbed	A = aug	er; C	DER ≔ openi	end rod; V =	vane	water cand become in case	ina etc	
:		s — Log dep	ui Oi Cila	in cox	3 OL	wasn water,	MSS OF MS(6)	, artesian	water, sand heave in cas	ണ്യ, ജc.	

ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

Sheet 1 of 3 P & G ROJECT: Port Ivory DATE: 11-13-00 DRING No. PID Model: Mini Rae FIELD READINGS BY: BREATHING HEAD-IN-SITU **REMARKS** Zone Space Split Spoon SAMPLE Reading Reading Reading TIME No. -AM 0.0 0.0 0.0 0.0 0.0 0.0 0,0

			Sheet 3 of 3
PROJECT: Port Ivory P&	G Side		
'OCATION: Grass Area, North of		Lot 10 DATE: 11 - 1:	3 - 00
BORING No: I-1	i		mples
SIGNATURE OF ALL	<i>></i>		
RESENT AT SAMPLING	8888888888888888888888	::::::::::::::::::::::::::::::::::::::	888888888888888888888888888888888888888
RELINQUISHED Spark	DATE 11-	3-00 RECEIVED	
Y (SIGN)	TIME	BY (SIGN)	
CELINQUISHED	DATE	RECEIVED	
LY (SIGN)	TIME	BY (SIGN)	
ELINQUISHED	DATE	RECEIVED	
BY (SIGN)	TIME	BY LAB	
REMARKS: 3 Samples each.	1N2-16 0Z	jars each & 1	Sample in 202 ja
Sample # 1 . 0.0'-2.0	· - TPHC -	PP+40, TAL mete	ds, PH, oil & gre
Sample #2 3.0-4.0			
Sample #9B 17.5'-1	9.0 (In hold ne t	esting
			J -
			<u> </u>
	· · · · · · · · · · · · · · · · · · ·		
	· · · · · · · · · · · · · · · · · · ·		
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Engineering Department Construction Division Materials Engineering Section

				{	BC	DRING F	REPORT			
=====		<u>-</u>			·					SHEET OF
ROJECT	PÉ				N#	ME OF CONTI	RACTOR		BORING NO.	SURFACE ELEV.
OCATION	15	<u> </u>			<u> </u>	crais			<u> </u>	
10 laid	out 112	o' North of	Red 7	4 (Be	لي	£1338)	· .		CONTRACT NO. 424-99-006	DATE / 9 /00
SPOON	53/	CASINGUSI		TYPE		<u></u>		GRO	OUND WATER LEVEL	
3 -0.0. 2 3/8 -1.0. Ryers-HS 2						Date	Time	Depth		Remarks
140 # FALL 30 # FALL #						11/9/00 8:19 Am 33' Im 5#2				
DRILLER D. O such										
NSPECTOR	TR									
CASING	0	SPOON	RE- 1	SAMP.2	1	1	³SA	MPLE DE	SCRIPTION AND REMA	RKS
LOWS/FT.	DEPTH	Hand	Jull Jull	NO.	1	ii - S			TES CHANGE OF PROF	ILE (Gravel Covered)
		Owen	Rec	1	1	<u>m - 4</u>	-d & Gro	wel _		
	 -	190	1	_	1	ill-Cin	iless so	o Grave	d (ful do 1)	(our)
)	2		<u> </u>	<u> </u>	<u></u>	14	
	- 5 -		1	> A		Same			· ·	5.0'
	_ , _		V	3 =		fell-B	1 F Sand	Done	Sit to Plant	fiber 6.0'
argers		2-8		4	Ш	Bn M-F3				
		11-12	14"	T	+					
		2-7	9"	15	-	San	<u> </u>			
 	- 10 -	7-13	1 9		+		-			
'	├ -	21-19	12'	6	-	San	<u> </u>			
	_	2-5	,	 	\dagger	· Sa				
	_	7-8	13"	7					· · · · · · · · · · · · · · · · · · ·	
		8-14	12"	8		Sa	m_e			12.0
<u>'</u>				-					Botton	of Boring -
	-	-		-	-					
					-	Note: other sa	Sample h	rey s	- \$3B were save creened u/ P/B	of fortestag. All of them discarded
	-	 		1	\vdash	` <u>-</u>				
L	•		ı	L				 -		

NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used '
2 — U = undisturbed; A = auger; OER = open end rod; V = vane
3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

Sheet 2 of 3 PROJECT: HH -DATE: 100 BORING No. 11 FIELD READINGS BY: PID Model: IN-SITU BREATHING HEAD-SAMPLE Split Spoon Space Zone REMARKS TIME No. Reading Reading Reading Am 0.0 0.0 3<u>A</u> 6.0 3B ٥٠٥ 0.0 0.0 6.1 6.0 0.0

ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION CHAIN OF CUSTODY RECORD

Sheet 3 of 3

PROJECT: HH-P&G		
LOCATION: ± 120' month of Bldg 74 (B	unk 1338)	DATE: 11/9/00
BORING No: K-1	TOTAL No. OF SAM	APLES: 2
SIGNATURE OF ALL	/ 2 /	
PRESENT AT SAMPLING T. G.	July De	Zilim
RELINQUISHED	DATE 11/9/10	RECEIVED
BY (SIGN) 1 - 1/2 -	TIME	BY (SIGN)
RELINQUISHED	DATE	RECEIVED
BY (SIGN)	TIME	BY (SIGN)
RELINQUISHED	DATE	RECEIVED
BY (SIGN)	TIME	BY LAB
REMARKS: 2-Samples in 4-1602	jars & Z-Voa	jáns
Samples # 2 & 3B were	saved. All of	ler sam ples were screened w/
PID & the discarded.		
Test Parametery = TPHC,	TCL, PH, oi	l & Grease
	,	
	,	
	, <u></u>	
<u> </u>		

Engineering Department Construction Division Materials Engineering Section

Rensied 12/4/00

BORING REPORT

										SHEET OF 3
IOJECT		0 7	· •		NA	ME OF CONTI	~ '		BORING NO.	SURFACE ELEV.
FORT	LUORY	P+6 5	HE		1	CRAIG (Driving.		K2	
LOCATION	,	-			<u> </u>		<u> </u>		CONTRACT NO.	DATE,
Mara	AF BILL	comb 74					Block 1	VGC/	426-99-006	11/29 440 11/30/11
POUN	,	CASING SI	ZE HOLE	TYPE			p social 1		OUND WATER LEVEL	1 1 mm
3 "	о.в. 2 ³ /8	T.D. HOGER	7	,		Date	Time	Depth		marks
										
40 *	FALL SAFET	30 .	FALL	,		11/24/00	12:45	3,5	DURING HAND	HUGER
DRILLER	· ALL .	<u></u>	. ALL			 -'-	10 10		+	
	n Fina	¥								
SPECTOR								 		
1 / 13	4 () Lee	3115		•	}					
CASING	100	SPOON	RE- 1	SAMP.	2	L	3C A I	MDI E DE	SCRIPTION AND REMARK	<u> </u>
.OWS/FT.	DEPTH	BLOWS/6"	COV'D	NO.	}				TES CHANGE OF PROFILI	
	-		6	*	Τ.	/ O.				
, AND ALLER	 	Hown Aver	Fire	11"	\perp	1m-11m	K DISOM	4 KWE	10 MEDIUM SAND	SOME GRAVEL, TRACE
1 1		1		1	1	SILT			,	· - '
			1-1-							2.5
, —	 	 	$\vdash \vdash$	2*		7		7		
]]			} }	1 4	:	flu-Blac	W Chriscus	4MI) (RAVEL, PETROLEUM O	pof- 6-7ppm
			1-1-	 	1					
	► 1 -	-	 	3						
1		y	7	\	1					,
1 /0		35	19"	HA	1.					
Auge	 	125	111		F	LIGHT BROWN	FINE SAND,	THALE SI	LT; MOOD AND VEGETATIVE BLACK AT INTERFACE bon	E MATTER AT
, 🕴		89	1	43*		INTERFACE .	COLOR DARK'	BROWN TO	bull the bound of the bound	Grading 10
	<u> </u>	1	201		1		,		_	
	 	32 28	20"	15	<u> </u>	SAME (LIGHT BRO	DUN FIN	E SAND, TRACE SUT	14 HILL 114 - INCH
V	L 12	35 74	1		L				Y SILT LAYER AT	
	- 10 -				1				<u> </u>	<u> </u>
ł	 	 	ļ	1	-			;	BOTTOM OF BORING	
]			1	•		ί	VOULDER OF DOP''-	
I	_			1						
 	 -		 '	4	-	<u> </u>				
	1	}		ĺ	ł	-AU <	r SAMPLES	SCLEEN	ED WITH PID METER	R
ı			1	1						
 	► 15 •	 	 	1	-				SONED FOR ENVIRON	
· · · · · · · · · · · · · · · · · · ·		<u> </u>				- Au	KEMAINI	NG 54	AMPLES DISCARDE	D
1	T -			1			_ 			,
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	Γ –]]			-			
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<u>_</u> _	70]	[Į						, -
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NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used 2 — U = undisturbed; A = auger; OER = open end rod; V = vane 3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.



ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

PROJECT:	Pour lue	RY PT	6 SITE		
BORING No.	K2				DATE: 11/29/00
FIELD READ	NGS BY: D	an Varis			PID Model: MN RAE
		เท-รทบ	HEAD-	BREATHING	REMARKS
TIME	SAMPLE No.	Split Spoon Reading	Space Reading	Zone Reading	(Libratio
TIME	1	110001119	0,0		
HAM PM	2		6 67		
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	3				
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ENGINEERING DEPARTMENT
MATERIALS ENGINEERING DIVISION
CHAIN OF CUSTODY RECORD

Sheet 3 of 3 PORT P+6 517E PROJECT: lvory DATE: 11/29/00 Norm OF BULDING 74 LOCATION: TOTAL No. OF SAMPLES: **BORING No:** SIGNATURE OF ALL PRESENT AT SAMPLING DATE **RECEIVED** RELINQUISHED TIME BY (SIGN) BY (SIGN) DATE **RECEIVED** RELINQUISHED TIME BY (SIGN) BY (SIGN) **RECEIVED** DATE RELINQUISHED TIME BY LAB BY (SIGN) 3501 **REMARKS:** IN 2-16 or AND

Engineering Department Construction Division **Materials Engineering Section**

BORING REPORT

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ECT L	Tune	. P	d G			N/	ME OF CONTI			BORING NO.	SURFACE ELEV.	
TION	Lvori	\ 	\ \			<u>-</u>	traig o	rilling.		CONTRACT NO.	DATE	
CE	· lu)	, 1 "L.L. &	12 2 104	JRSIR		ا.	Biss	1770	Lat.	426-99-006	-1	
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 	n 9 :	5/R	A LL QI	rc	1		Date	Time	Depth		emarks	
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		30 -		# FALL			12-1-00	3:000M	2.0	SAMPle#2		
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•	77	arks					1		} .			
SING	1 -		SPOON	RE- 1	SAMP.2	1	1	3SA	MPI F DE	SCRIPTION AND REMARK	(8	
VS/FT.	DEPTI	ı Bi	.OWS/6"	COV'D	NO.			LII	NE LOCA	TES CHANGE OF PROFIL	.E	
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	3 (10)-			2,5	15		SAM					
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NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used
2 — U = undisturbed; A = auger; OER = open end rod; V = vane
3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

PROJECT:	Port Ivory	P&G			Derro de la constante de la co
DRING No.	<u>L10</u>				PID Model: Nini Rae
FIELD READ	INGS BY:	<u>Z</u>			PID Model: [1][h] KQZ
TIME	SAMPLE No.	IN-SITU Split Spoon Reading	HEAD- Space Reading	BREATHING Zone Reading	REMARKS
PM	1.	0.0	0.0	0.0	
	l	0.0	0.0	0.0	
	3	0.0	0.0	0.0	
	. 4	0.0	0,0	0.0	
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ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION CHAIN OF CUSTODY RECORD

Sheet 3 of 3

PROJECT: Port Ivory P&G			
LOCATION: 25 SE of hydrant 46 & 15	W R.R. Iracks Block	1338 DATE: 12-1-00	3
BORING No: L1	TOTAL No.	of samples: \mathcal{L}	
SIGNATURE OF ALL	>		
PRESENT AT SAMPLING			555555555555555555555555555555555555555
RELINQUISHED	DATE 12-	1-00 RECEIVED	
Mhavi	TIME	BY (SIGN)	
BY (SIGN)	111VIL	D1 (0/01/)	8888888888888888888888888888
RELINQUISHED	DATE	RECEIVED	
BY (SIGN)	TIME	BY (SIGN)	
RELINQUISHED	DATE	RECEIVED	
BY (SIGN)	TIME	BY LAB	
REMARKS: 2 Samples Saved for each . Sample # 2 8 Test Parameters: TPHC,	testing in	TAL metals, PH, O	il & Grease
			. Mig

THE PORT AUTHORITY OF RIYE RU

Engineering Department Construction Division Materials Engineering Section

			-	BORING REPORT		
JECT O) C			3-	NAME OF CONTRACTOR	BORING NO.	SHEET / OF SURFACE ELEV.
H-PEG			<u> </u>	Craix	DATE	
leid out =	316 east of	Blds !	52/2	of of Brock 1338)	CONTRACT NO. 424-99-006	DATE / 8 / 0 6
ON - t	CASING KI	ZE HOLE	TYPE	GF	OUND WATER LEVEL	
ン *O.D. と/() MER	HAMMER		-	Date Time Dept	h	Remarks
140 # FALL 3	. ^ 1	FALL		11 8 00 10.41A 11.0	+ 1574	2
LER Do	ach					
ECTOR -						
SING	SPOON	RE- 1	SAMP.2		ESCRIPTION AND REA	
VS/FT. DEPTH	Handluger	COV'D	NO.	Fell-B1 F Sand & Si	ATES CHANGE OF PRO	
	Janacus	Full		tation	a, mucho	in war, will vege
		pec 1	'	Fill-Br FSad, so	Sit	H. C 0 + CO.
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	+			Sane		
5			3	- sare		
-	10-5	 		1.11 -C. (1) - 1 - 0 +	0	
us _	3-3	/8"	4	fell GryClay w/ wilt	xinces	
-		10		Same		· <u>'</u>
	3-3	18"	5			<u> </u>
	7-3	10		fill-centers, solant films	7//	
	6-7	15"	6	Br M- Frank tiple	- frues, orga	me out
	14-11	13	,	Bin-FSad little	Sil+ + C.	
, -		16"	7	181 M-1 Sad, title	our, y Grave	<u> </u>
	12-14	1				,,
<u></u>	16-12	10"	8	Sarry		15
		<u> </u>				- A Davis
				<u> </u>	Bottom	of poins -
					<u> </u>	
-				To 30 10. \$16	1 5 \$1 1000 00	1/1++
-	-			Hay by a life	ther samples	ver pri ceces
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		<u> </u>		¿ Then decended as re	means by	myer of Kiera
				assoc.		
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	E0. 4 Least			of Comple T. Toronto	····	
NOT	2 — U = undi	isturbed; A	\ ≂ auge	s of Sample, T — Trap used ; OER = open end rod; V = vane of wash water, loss of water, artesia	n water, sand heave in	casing, etc.

ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

Sheet 2 of 3 PROJECT: L-2 DATE: 00 BORING No. FIELD READINGS BY: PID Model: IN-SITU BREATHING HEAD-SAMPLE Split Spoon REMARKS Space Zone TIME No. Reading Reading Reading 0.0 0.0 0,0 0.0 00 6 0.0 0.0 0.0

ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION CHAIN OF CUSTODY RECORD

Sheet 3 of 3PROJECT: East of Bldg 521 (LANAFILL BL-1338) LOCATION: ± 316 DATE: 10 TOTAL No. OF SAMPLES: 🏂 4 **BORING No:** SIGNATURE OF ALL RIIM PRESENT AT SAMPLING RELINQUISHED DATE RECEIVED BY (SIGN) TIME BY (SIGN) RELINQUISHED DATE **RECEIVED** TIME BY (SIGN) BY (SIGN) RELINQUISHED DATE RECEIVED TIME BY LAB BY (SIGN) 3-Samples in 6-16 g jars & REMARKS: Bin 2-Viels amples #1 Et is on Holdes per Killan TPHC, TCL, PH on Egresse-

THE PORT AUTHORITY OF MY & MU

Engineering Department Construction Division Materials Engineering Section

BORING REPORT

							-				SHEET OF 3
K ECT	7		10			N/	AME OF CONT	. 11		BORING NO.	SURFACE ELEV.
Port.	Ivory	٢_	<u> </u>			L	Craig	drilling		L-3 (Fill)	DATE
NOTIAN	ال دائية	L)	ן קינים א	.P	C. Bloc	J,	1228	1.4		CONTRACT NO. 426 - 99-006	DATE 11 - 24 - 00
N NOT	railroad	tracks	CASING SI	ZE HOLE	TYPE	_	1338	-OL I	GRO	OUND WATER LEVEL	11 101
3 AI IER	o.d. 2 -	5/8 *1.D.	Auge				Date	Time	Depth		emarks
			HAMMER]		/	AM.		Carl W.	
_/ 2 RILLER	# FALL	<u>30 ′</u>	<u></u>	# FALL			11-24-00	9:55	مـللــم	' SAMPle #6	
4119	$N K_i$	1)=	5		ļ					1	
S CTO	_	7 1									
CASING	1. 1	Lark		RE- 1	SAMP.2	т-		30.4		CODINTION AND DESCRIPTION	<u> </u>
L ISIFT	DEPTH		SPOON .OWS/6*	COA.D	NO.					SCRIPTION AND REMARK TES CHANGE OF PROFIL	
DAUC	東 0	Har	idauger	Full Rec							
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-	+ .			 	 _ *-	 -	المسير ال	grey n n		<u> </u>	
-~-	+-			 	2*	Ц	Misc till	<u>'c'_{ \ </u>	ND 8	Cravel, tr. Sill, bair	ck cindless Iron
_	5							1		,	-
		<u> </u>	<u></u>	<u> </u>	3	IF	ill grey	sand	&	Gravel some SITU	CLAY & grey Sitty CL
c" 7W E M		1	_ [7		 ,	
i irs .		/	- 10	20"	4	_		0 5/	IND	tr. Gravel , tr. S	:17
<u> </u>	 	- 4	- 17	10	<u> </u>	-	Scown C	= + 1	,	Tr. Graves, Tr	
-	-	15	- 10	- 14	5*	-		- <u>,</u>			
	- 10	→	-35	24"		L	breyish-	brown	<u> </u>	[SAND , fr. Sil	1, tr. bravel
.	<u> </u>	14	-16	<u> </u>	/	L				<u> </u>	
<u> </u>		2	1-27	24"	6		Greyish	brown	C -	C SAND, Ir. G	rowel tr SIT
		1.2	5 - 27				0			J — — — —	
	1		1 - 35	24"	7	D	leddish -		0 5 1	ND tr. Grave	tr. Sill 14.0
+	 	ĺ		~"	-	1-1	leagish -	DIOWN C	-1 24	Ir. Graves	IF, UIII 14.0
	→ 15	_	15	A 1.1	٥	1			·/L -	7010	
<u> </u>	+ -	_ -19	1-27	<i>LA</i> "	8	ĻΚ	eddish-b	rown 5	ITY	UIAY.	160
	ļ	_	·			_					
,	<u> </u>					3	Samples	saved	for .	testing. All other	/_
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NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used 2 — U = undisturbed; A = auger; OER = open end rod; V = vane 3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

ROJECT:	Port Ivoru	PEG				
ORING No.	L3(Filt)			DATE: 11 -	. 24 - 00
TELD READ		Z			D Model: Min	i Kac
	***************************************	IN-SITU	HEAD-	BREATHING		
TIME	SAMPLE No.	Split Spoon Reading	Space Reading	Zone Reading		REMARKS
MA	1 -	0,0	0.0	0.0		· · · · · · · · · · · · · · · · · · ·
	l	0.0	6.0	0.0		
		0.0	0.0	0.0		
	4	0.0	. 0.0	0.0		
•	5	0.0	0.0	0.0		
	6	0.0	0.0	0.0	<u> </u>	
	7	0.0	0.0	0.0		<u> </u>
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ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION CHAIN OF CUSTODY RECORD

		·	Sheet 3 of 3
PROJECT: Port Ivory P&G			
LOCATION: 30'E of railroad tracks 850' N of wire fra	lock 1338	Lot 1 DATE: 11-24	-00
BORING No: L3 (Till)		lo. OF SAMPLES: 3	
PRESENT AT SAMPLING			•
	000000000000000000000000000000000000000	,	:0000000000000000000000000000000000000
RELINQUISHED	DATE 1	-24-00 RECEIVED	•
3Y (SIGN)	TIME	BY (SIGN)	
RELINQUISHED	DATE	RECEIVED	
BY (SIGN)	TIME	BY (SIGN)	
RELINQUISHED	DATE	RECEIVED	
BY (SIGN)	TIME	BY LAB	
REMARKS: 3 Samples saved for		in 2-160z jars	
Sample # 2,5 & 7.			
	1	(1/2 (1/2 000)	3 1011 001 2
lest parameters: 1 PHC, 1C	<u>.L metals</u>	(Vo, Svo, PCBS	3)PH,Oil & gre
	*		
			<u> </u>

	М	(late	ngineering D Construction rials Engine ORING F	n Division ering Sect	ion			SHEET	OF
P+	6	N	AME OF CONT	RACTOR DUIL	inf.	BOI	RING NO. 2 - 4	SURFACE	ELEV.
4			Block	1338		CO	NTRACT NO. 476-99-006	DATE 2	/2/0
SING SIZE	HOLE TYPE				GRO	OUN	D WATER LEVEL		•
yev	/		Date	Time	Depth		Rer	narks	
MMER # FA	ALL "		12/100	PM	2,5	7			
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rsev									

OCATION	E BO	لحا	64			Black	1338		476-99-006	12/	12/00
ON				E HOLE	TYPE			GROU	UND WATER LEVEL	J	
3_	-o.p. 23/8	"I.D.			/	Date	Time	Depth	Re	marks	
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RILLER	Fim F	5 1	'n]	.]				1
PECTO	R	_						 	 		
	harlie	Sp	viger						·}		
CASING WS/F	T. DEPITH	BL	SPOON .OWS/6"	RE- 1 COV'D	SAMP. ² NO.				CRIPTION AND REMARKES CHANGE OF PROFIL		
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NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used 2 — U = undisturbed; A = auger; OER = open end rod; V = vane 3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

1	2. A Tual	y D+1-							
PROJECT:	POUT IVON	/				DATE:	12/	2/00	
BORING No.	ings by: Ch	pulie Si	viser		PID I	Model:	M.W.	2/00 RAE	
ווכנט חבאטו			HEAD-	BREATHING					
TIME	SAMPLE No.	IN-SITU Split Spoon Reading	Space Reading	Zone Reading				REMARKS	
DIN.	1		0,0645						
*M	2		000 PS						
an	3		0.00						<u></u>
	4		0.00		<u> </u>				
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ENGINEERING DEPARTMENT
MATERIALS ENGINEERING DIVISION
CHAIN OF CUSTODY RECORD

		Sheet 3 of 3
P+6-		•
	DATE: 12/2	00
TOTAL No. OF	SAMPLES:	2 Soil
7		
1		
134/		
// DATE	PECEIVED	*********************************
TIME	BY (SIGN)	988889888888888888888888888888888888888
DATE	RECEIVED	
TIME	BY (SIGN)	
DATE	RECEIVED.	
TIME	BY LAB	
in 2:16°2	1:202 51V	\$
For 1 149		· · · · · · · · · · · · · · · · · · ·
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211	100/201010	
PH, OIL+bu	esal	
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	TOTAL No. OF DATE TIME DATE TIME DATE TIME TIME TIME	DATE: 12 2 TOTAL No. OF SAMPLES: DATE RECEIVED TIME BY (SIGN) DATE RECEIVED TIME BY (SIGN) DATE RECEIVED TIME BY LAB

Engineering Department Construction Division Materials Engineering Section

BORING REPORT

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5 c T f	POUT]	Cvov	y P	46		N/	AME OF CONTI	PACTOR Dulling		во	RING NO.	······································	SURFACE EL	EV.	
CATION	巨B	10	64			L		1338		co 4	NTRACT NO.	-006	DATE 12/2	100	ر
				E HOLE	TYPE		<u> </u>	1330	GRO	<u> </u>	D WATER L				
	2/8	*I.D. /	Chiler				Date	Time	Depth			Rer	narks		
13	LD # FALL 30 # FALL #							AM	5.3		<u>-</u>		<u> </u>		
ILLER	Sim	FIL	ch												
Charlie Spricer									-				•		
ASING		SPC	DON NS/6"	RE- 1 COV'D	SAMP. ² NO.							D REMARK OF PROFILE			6.0
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_						L	Fine SA	nd +	pro	5,	LT B	Bra _			
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						L					<u> </u>			· · · · · · ·	

NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used
2 — U = undisturbed; A = auger; OER = open end rod; V = vane
3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

Sheet \geq of \geq

PROJECT:	Part Tu	evi P+1	<u></u>		
BORING No.	15	evy P+1			PID Model: MINI RAE
FIELD READ	INGS BY: (houlie Sp) wirsel		PID Model: MINI RAL
		IN-SITU	HEAD-	BREATHING	
TIME	SAMPLE No.	Split Spoon Reading	Space Reading	Zone Reading	REMARKS
AM	1.		0,00		
MA	2		0.00		
	3		0.00		
	4		0.00		
	5		0.00		
	7		0.00		
					·
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ENGINEERING DEPARTMENT
MATERIALS ENGINEERING DIVISION
CHAIN OF CUSTODY RECORD

			Sheet 3 of 3
PROJECT: POUT IVOUY P+(<i></i>		•
LOCATION: SE BLD 64		DATE: 12/2	100 2 Sail
BORING No: L-S	TOTAL No. OF SA	MPLES:	2 Soil
SIGNATURE OF ALL PRESENT AT SAMPLING	7		355685868588888888888888888888888888888
RELINQUISHED // /	DATE	RECEIVED	
BY (SIGN) / WW UK /	TIME	BY (SIGN)	<u>9888888888888888888888888888888888888</u>
RELINQUISHED	DATE	RECEIVED	
BY (SIGN)	TIME	BY (SIGN)	
RELINQUISHED	DATE	RECEIVED	
BY (SIGN)	TIME	BY LAB	
REMARKS:			
2 Soil			
2 Soil Sample 5 ²⁺⁵ in	2:1602	1,202	Joug
ONALYZE FOU	*		
TPHC	PP+40	Tol metals	
PH c	7,17 Cresco	Tol motols	

THE PORT AUTHORITY OF MY & MJ

Engineering Department Construction Division **Materials Engineering Section**

					BO	RING F	REPORT	•		
		··								SHEET / OF
HH.	- Pi	(_			NAME OF CONTRACTOR				BORING NO.	SURFACE ELEV.
LOCATION		· 				A			DATE; /	
! laid	lout ±3	46' east of	Blds	52(705	atiel B	lack 133	8)	426-95-006	11/8/00
		CASING SI	I U	TYPE '		1			OUND WATER LEVEL	
3 °c	D.D. 6/	"I.D. (LUCUO HAMMER	1	·		Date	Time	Depth	Re	marks
	FALL 3	O , HAMMER	FALL	,		11/8/00	2 45 PM	75	1 In S-4B	
CLLER			FALL			110100	7		10.10	
	D. O.	uch								
PECTOR	1	Ru								·
CASING BIOWS/FT.	DEPTH	SPOON BLOWS/6"	RE- 1	SAMP.	2			NE LOCAT	SCRIPTION AND REMARK TES CHANGE OF PROFIL	E
	0	16.0	Jul		+				100 501	0.3
	-	Orver	Pec	[[4	U-Bi	M-F Sad	Lite	the Graves, little	Conc
		1 9				Sano				
	_			2						
	-	 	 		1_	$\frac{1}{2}\sqrt{-R}$	$\overline{Q} = \overline{Q}$	C-1	+ 1-H. FS. 1	1:HO.G. al
	5		1	3	1 /	H	(ist con	4	T, little FSand	Cap'
rugers		2-1					to 1. 10	in (alt lance	
3	_	3-4	20"	41			+ 27 TWG	~ ~ · ·	Plont filiers	7.5
1	-	5-3			7 +	Same	Mary Way	Ser-u	Isom fives _	
		3-4	14"	5	 					
	► lo	12-13		,	1	. Sam	- 			
		15-26	18.	6					<u> </u>	
	_	18-12		17	1	Sane				
V		11-14	19"	1,7						14.01
		7-17	`8''	8		FR B S	ity lla	·4		15.0
	,,									<i>†</i>
	-								Batton	of Boring -
				1						_0
	-		<u> </u>	1						
· #	-		 		-					
·	-	4	 		Ħ	1. 10	San 00.	#-	1 4 AZ UR LITAR	of it land out.
	-			1	12	Fa. A.	DWINDU	+ 0	Floced on hold	al H.
	-	- 	 	}	-	Jan	W W	سر وب	Exercise as Novo	L. A. O.
	 -	1	, ,		4	sample.	<u>were</u>	scre	end w/ PID & t	ner ourcerkon.
		 	 	}	-		<u> </u>			
			<u>L</u>	<u>l : </u>	1					

NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used 2 — U = undisturbed; A = auger; OER = open end rod; V = vane 3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

PROJECT:	HH-P	\$ 6-			
BORING No.	1 (DATE: 11/8/00
FIELD READ		Tha	_		PID Model: 8
		เพ-รเาบ	HEAD-	BREATHING	7544.0%
TIME	SAMPLE No.	Split Spoon Reading	Space Reading	Zone Reading	REMARKS
PM			0.0		
1	2		0.3		
	3		0.0		
	4 AEB		. 0.0		
	5		0.0		
	6		0.0		
. /	7		0.0		<u></u>
V	8		0.0		
<u> </u>	·			·	
		·			
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		·			

ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION CHAIN OF CUSTODY RECORD

Sheet 3 of 3

PROJECT: ## - PÈG		
LOCATION: +366' east of Bldg 52 (10)	NOFILE - Block 1338)	DATE: 11 / 8 /00
BORING No: L-6	TOTAL No. OF SAM	•
SIGNATURE OF ALL		
PRESENT AT SAMPLING		
RELINQUISHED	DATE 11/8/00	RECEIVED
BY (SIGN)	TIME	BY (SIGN)
RELINQUISHED	DATE	RECEIVED
BY (SIGN)	TIME	BY (SIGN)
RELINQUISHED	DATE	RECEIVED
BY (SIGN)	TIME	BY LAB
REMARKS: 3-Samples in 6-160z	jans & 3 Voa	jars
Sample # 1 on HO	CD!	
Test Parameters = TP	HC, FEL, PI	t, oil è grease.
<u></u>		

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Engineering Department Construction Division Materials Engineering Section

BORING REPORT

							SHEET / OF 3
I JECT		2	97	6 610	NAME OF CONTRACTOR	BORING NO.	SURFACE ELEV.
•		, Port Ivory	1. P+	u she	Craig Drilling	M-1	
OCATION	,				J	CONTRACT NO.	DATE
E	ast of	Building	56			426-99-006	11/25/2000
SF U∕ON		CASING SI	ZE HOLE	TYPE		GROUND WATER LEVEL	
3 "(o.p. $2^3/8$	TI.D. Augers HAMMER	:	1			Remarks
3 *(MER		HAMMER				. ,	
. 40	FALL Saft	730"	FALL	- 1	11125/200 1100 5	0	1
PRILLER	_		*, *,				
	David	Cooks					
N ECTOR							
	Madhu	Patel					
CASING		SPOON	RE- 1	SAMP.2		DESCRIPTION AND REMA	
	DEPTH	BLOWS/6"	COV.D	NO.	17:01	CATES CHANGE OF PROF	
Auger		Hand Auger	EIAII	1.	Black & Growish Br	rown CML SAI	ND. little Silf A
1V	f	130	, ,	1	cmf Gravel, trace o		
			 	 	chi Graver, frace o	7 7 3	THE MER CAL
.	} i		1 1		Fill Brownish Black	CML SAND.	libble my Gravel
1				2	2/2		
	 		 	 	trace sit in R		
	5 <] _	Wet Black cr	OF GRAVEL, Som	e amf sand
				3	trace Silt & c	LAY 15	deen)
ugas	 - -	" "	///	 	† 		
7,4	<u> </u>	4,6	18"	4	Sam	٠٤	
1		11,15		4	Wet, Greenish Gray	emf SAND, JIH	le Silt, trace + Graves
			~∘″	 	Wet, Dark Brown		
	 	7,8	40	5	L =		
1	10	10,12	1		s.)t.		Į.
		6,9	20'		T		
	 	· · · · · · · · · · · · · · · · · · ·	 	6	<u> </u>	<u> </u>	
<u> </u>	12	11:15					
					- Bittum	of the Hole a	+ 12.0
7. 	 - -	<u> </u>	 	1,	<u> </u>		
	<u> </u>		<u></u>	[
,			[J		
	▶ 1			1	·		
	 			4	All Samples	are checked	WHY PID
			1		meter. Samo	Le M. 1 1 3	soved for
,	$\lceil \cdot \rceil$			1			
	 - -		 	4	Environmental	tesony. Ker	7917
			<u></u>	ļ	samples disc	carded.	V
-				1			
	▶ ◀		 	-	<u> </u>		
	<u> </u>			1			
]		}	}			
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				<u> </u>	1		

NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used 2 — U = undisturbed; A = auger; OER = open end rod; V = vane 3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

PROJECT: 1 Port 1407								
BORING No.	M -	.			DATE: 11) 25 2000			
FIELD READ		Madhu	Patel		PID Model: Mar. PAS			
	SAMPLE No.	IN-SITU Split Spoon Reading	HEAD- Space Reading	BREATHING Zone Reading				
TIME			0	0				
1030	1.	0	0	8.				
1045	2	0	0	٥				
11.00	3	Ó		70				
. 1/30	4	0	. 0					
1200	\$	0	0	0				
1230	6	D	ď	0				
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ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION CHAIN OF CUSTODY RECORD

Sheet 3 of 3

PROJECT: Howland Hook, Port	lvory Pt 9	SIL-
LOCATION: East of Building 5	6	DATE: 11/25/2000
BORING No: M-/	TOTAL No. OF SA	MPLES: &
, in the second		
SIGNATURE OF ALL Hadde on. Pa	L.O.	
PRESENT AT SAMPLING		
RELINQUISHED Hadh mla	DATE	RECEIVED
BY (SIGN)	TIME	BY (SIGN)
RELINQUISHED	DATE	RECEIVED
BY (SIGN)	TIME	BY (SIGN)
RELINQUISHED	DATE	RECEIVED
BY (SIGN)	TIME	BY LAB
REMARKS: Ywo soil somple	s are	colle de d = 2 - 16 02
and @-1-202		
Sample # 1 Sample # 3	- Depth	(4-51)
Parameters: TPHC,	TCL (VO, S	SVO, metals and PCBS).
PH, oil	and Gre	ease.
·		
		. (
	· · · · · · · · · · · · · · · · · · ·	

THE PORT AUTHORITY OF MYS MJ

Engineering Department Construction Division **Materials Engineering Section**

BORING REPORT

					SHEET 1 OF 3
ECT	7	0 1 0		-	NAME OF CONTRACTOR BORING NO. SURFACE ELEV.
ort	Lvory	P = G	<u> </u>		Craig drilling M-2
CATION	1 2		.~~ O	1 L	CONTRACT NO. DATE
00 L	of Bld	CASING SI	33 <u>8</u> ze hole	TYPE	426-99-006 11-25-00/11- GROUND WATER LEVEL
	. 9 3/	3 r.D. Auger		,	Date Time Depth Remarks
	afety	HAMMER		L	
	1 1	0 -	# FALL	-	11-25-09 8:15 4.5 5 # 3
LLER					
·	<u> A. K</u>	ides			
ECTOR	٦ -	7 . 1.			
10110		Larks	RE- 1	SAMP.2	2.2 3SAMPLE DESCRIPTION AND REMARKS
ASING ∀S/FT.	DEPTH	SPOON BLOWS/6"	COA,D	NO.	
	D	CUTTER HEAD	Full Rec		
1		HANDREGER	+ 1		CONGRETE
			<u> </u>	1	DGABC - CRUSHED ROCK
1				*	
		1-1-	 	່ ຈົ	Fill greyish - brown C- & SAND to Grave to Sill cindus bo
++		 	 	- <u></u>	1111 greyish - brown C-1 JANN tr. bravel tr JIII cinden, be
	5 -	<u> </u>	 	*	*
1	·			3	Fill black Gravel & C- (SAND to SIT 6.
·W		5 - 7			
EM ER3		7	1	/ /	
1		13-20	12"	4	Brey C- & SAND, some Gravel tr. Clayey SITT
		12 - 12]	
		12 - 12	20"	15	Brown c- P SAND tr. Gravel tr SIT
	- 10 -	_	1-20-	 	- 12 0 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1		8 - 12	 	1	
		16-15	12"	. 6	Brown c - (SAND tr Gravel tr SITT
1 1	•	8 - 13	1.	,	
			24"	7	SAME
+		17 -11	WH		SALL
	- 15 -	9 14		,	*
, [12	17 - 24	24"	8	SAME 16.0
		11-21	~ ·		A STATE OF THE STA
} 		 		{	<u> </u>
			<u> </u>	1	Note: 3 samples saved for testing
.		,	1		All other samples checked w. PiD Met. Bottom of Bori
	 -		1	1	Note: 3 samples saved for testing All other samples checked w. PiD Mety Bottom of Bori & discarded
	► •		 	1	- B GISCOLOGE
			ļ	1	
}					
		F	1	1	
			 	{ `	
		ļ	<u> </u>		
				<u> </u>	

NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used 2 — U = undisturbed; A = auger; OER = open end rod; V = vane 3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

rnoject:	Port Ivor	PE	<u> </u>		
L JRING No.	M - 2				DATE: 11-25-00 /11-27-00 PID Model: Mini Rae
PFLD READ	INGS BY:	<u>. Z</u>		***************************************	PID Model: MINI NOC
	SAMPLE No.	IN-SITU Split Spoon Reading	HEAD- Space Reading	BREATHING Zone Reading	REMARKS
TIME	1	0.6	0.0	0.0	
- •	2	0.6	0.6	0.0	
	3	0.0	0.0	0.0	
	4	0.0	0.0	0.0	
	5	0.0	0.0	0.0	
	6	0.0	0.0	0.0	
	7	0.0	0.0	0.0	
	8	0.0	00	0.0	
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-			<u> </u>		
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ENGINEERING DEPARTMENT
MATERIALS ENGINEERING DIVISION
CHAIN OF CUSTODY RECORD

			Street 2 of 2
PROJECT: Port Ivory P	d G		
LOCATION: + 60 E of Bldg	56 Block 1338 lot	DATE: 11 - 25	-00/11-27-00
BORING No: M-2		OF SAMPLES: 3	
SIGNATURE OF ALL PRESENT AT SAMPLING	who		
RELINQUISHED KH	DATE -	29-00 RECEIVED	
JY (SIGN)	TIME	BY (SIGN)	
RELINQUISHED	DATE	RECEIVED	
BY (SIGN)	TIME	BY (SIGN)	
KELINQUISHED	DATE	RECEIVED	
RY (SIGN)	TIME	BY LAB	
Sample # 2,3 Test Parameters: TP	ved for testing \$ sample # 1 HC ; TCL (VO; ease.		21-202 jar each

Engineering Department Construction Division **Materials Engineering Section**

BORING REPORT

								-			SHEET OF 3
ECT						N.	AME OF CONTI			BORING NO.	SURFACE ELEV.
ort I	VATI	h T	. G Si	te.			Craig d	rillina		M-3	1
CATION	VOI .			<u> </u>			 	······································		CONTRACT NO.	DATE
		. I RI	Jee D	Slook	29 1	ol	- 1	-		426-99-006	
<u> </u>	Worner	9 4	CASING SIZ	F HOLE	TYPE	υL	 		CD		111-21-33
· · · · · · · · · · · · · · · · · · ·	_ 33/.	<u>, </u>	Δ	-			Data	Time		OUND WATER LEVEL	
<u>}′o.</u>	.D. λ ³ /6	71.D.	muyers				Date	ııme	Depth	Re	marks
	7				1			٠	, ,	0 1 11 -	}
	FALL 30	<u> </u>		FALL			11-27-00	7:22	4.0	Sample # 3	
RILLER	N V. 1				ļ						
	A. Kid	es							<u> </u>		
CTOR		7			1				1		j
		-ark	2	_				<u> </u>	ļ		
CASING	. 1	S	POON	RE- 1	SAMP.2			3SA	MPLE DE	SCRIPTION AND REMARK	is
C''/S/FT.	► DEBIH ~		OWS/6"	COV'D	NO.	L		LI	NE LOCA	TES CHANGE OF PROFIL	0.0
1 FHEAd	- 0 -		er Head	Full Rac					NOOI		
		Har	HAUGER	 	İ	-			DO ABC	<u> </u>	1.0
and Augen		}	1		1	1	ill preuie	h. braum	C-1 (AND & Gravel tr.	
		1	1			T		er - Dro MTI		The second second	-111 /
		ļ			*	L					
		1			12	1	38 1	n (MA 2	tr. Gravel & Sill	•
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	> 5 -				3	F	:11	<u> </u>		0 1 6110	7 0.0
**				7_	<u> </u>	₽	ill greyr	sh <u>- browl</u>	7 7	SAND, tr. Gravel	<u>,tc.2111</u>
"?W			9				• •		1		
en en		 1				۲,					
		13	3-18	20"	4	Ц	Drawn C	<u>- 1 SAM</u>	10 10	Gravel to Sil	<u> </u>
		4	_ 8	ļ	i			Ť	-) ·		
				ļ	-	-					
-] 16	5-17	24"	5	İ	SAME	` -			
	► 10 -	1		<u> </u>		T		-,			
		111-	16		,	\vdash	-				
		1.	- 2.4	24'	6		SAME				
-		1~7		~7	 	+					~
		112	- 12		· *	L	`	<u></u>			
· [1		, 0	9 Q	2/. H	, ~ ~ ~		SAME			- · — — 	140
V		10	-29	LAH-	 -/	+	Julie		 		17.0
[. 15	<u> </u>		['	1						
	15	1			1						
				ļ]	N	ote: 2 s	amples_	saved.	for_testing	/
4	· •	ł		}			UA	113		ا فيدا المالية	Bottom of Boring
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*		1		ļ			P1)	meter	· 2	discarded	,
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NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used 2 — U = undisturbed; A = auger; OER = open end rod; V = vane 3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

Sheet 1 of 3

ROJECT:	Port Ivory	PEG	site		DATE: 11 97 00
BORING No.	M-5				DATE: 11 - 27-00
IELD READ	INGS BY:	Zarks	noneces (1888)		PID Model: Mini Rak.
TIME	SAMPLE No.	IN-SITU Split Spoon Reading	HEAD- Space Reading	BREATHING Zone Reading	REMARKS
AM	1	0.0	6.0	0.0	
	2	0.0	0.0	0.0	
	3	0.0	0.0	0.0	
	4	0.0	00	0.0	
•	5	0.0	0.0	0.0	·
	6	0.0	0.0	0.0	
	7	00	0.0	0.0	
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ENGINEERING DEPARTMENT
MATERIALS ENGINEERING DIVISION
CHAIN OF CUSTODY RECORD

			Sheet 3 of 3
PROJECT: Port Ivory P&C	۱ 5		
OCATION: + 72 of SW corner o	Polda 55 Block 13	38 DATE: 11 - 2	7 - 00
BORING No: M-3	TOTAL No. O	•	7
SIGNATURE OF ALL			
RESENT AT SAMPLING	<u>ら、</u>		
VIII		3	8888888888888888888888888888888888
RELINQUISHED)	7 - oo RECEIVED	
Y (SIGN)	TIME	BY (SIGN)	000000000000000000000000000000000000000
IELINQUISHED	DATE	RECEIVED	
BY (SIGN)	TIME	BY (SIGN)	
		DECEMEN	
ELINQUISHED	DATE	RECEIVED	
BY (SIGN)	TIME	BY LAB	
REMARKS: 2 Soundles Sou			ars & 1-20z jar ea
Samples # 2 &	Sample #	7 On hold	
Test Parameters: TPHC	PP+ 40, 1/	Almetals, PH,	Dil & grease.
<u> </u>			
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THE PORT AUTHORITY OF MY & MU

Engineering Department Construction Division Materials Engineering Section

BORING REPORT

									SHEET OF 5
R ECT		2.1			NAME OF CONT			BORING NO.	SURFACE ELEV.
CATION	(VORY	P\$6 5	ri E		CRAIG TI	MUNG		CONTRACT NO.	DATE
· E	NST OF	BULLOWG 54						426-99-006	11/22/00
D IN		CASING	SIZE HOLE	YPE			GRO	UND WATER LEVEL	
		1.D. A164		<u> </u>	Date	Time	Depth	Re	emarks
I / #	FALL SAME V MU	HAMME	# FALL		11/2400	8	5.0	WINLE HAND	AVGERING
PAV	v Mu	LLINX	·		-	: :			
T	I had)RV15		į	·				
CASING _OWS/FT.	DEPTH	SPOON BLOWS/6"	RE- 1	SAMP. ² NO.				CRIPTION AND REMARI ES CHANGE OF PROFIL	
()],			Conc	PETE AN	D STON	15	
NER		Hand Aug	+ Full	-1.1		> BROW		TO MEDIUM SAND, LIT	
- \				2*		SAME		" ————————————————————————————————————	
	<u> </u>			1	FILL -	> GRAY	CLAYEY		
	- 5 -		1 1	-		SAME			
V			V	3		SAME			
7 01		37		Ч *	FILL -	> BROWN	FINE	TO MEDIUM SAND,	TRACE SILT
الماما	Ţ -	12 15	18	1 4					8,0
Wer		8 13			BROW	IN FINE	SAND	, TRACE (-) SILT	
		15 19	14	5			 -/-		
	- 10 -	9 11		in B	O to 8	3" · SAM	6		(0.7
		12 37	70	69	81.2	O OCAN	06 Bru	UN FINE TO MEDI	UM SAND, LITTLE
1		32 19		n		Gen	Y SILT	TRACE GRAVEL	AND CLAY
.1.		26 26	21	7.	REPORTH		_	D AND CLAYEY	,
		15 17	1	8	SAME				
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<u>-</u>		 						2 AND 4 SAVED	
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	 	 	- 						
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NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used
2 — U = undisturbed; A = auger; OER = open end rod; V = vane
3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

PROJECT:	HOWLAND HO	DOK, PORT	IVORY P\$	6 SITE		. 1		
BORING No.	1414				DATE: PID Model:	11/22	00	1
FIELD READI	INGS BY:	AN DAVIS	5	*************	PID Model:	MIN	KNE	
	SAMPLE No.	IN-SITU Split Spoon Reading	HEAD- Space Reading	BREATHING Zone Reading			REMARKS	
TIME	140.	ricading	0,0					
1 AM	2		0,0	`				
	3		0.0					
	4		0,0					
	5		0.0					
1	6		0.0					
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ENGINEERING DEPARTMENT
MATERIALS ENGINEERING DIVISION
CHAIN OF CUSTODY RECORD

Sheet 3 of 3 PEG Site Port Ivory PROJECT: LOCATION: East of Bulder DATE: // TOTAL No. OF SAMPLES: **BORING No:** SIGNATURE OF ALL PRESENT AT SAMPLING **RECEIVED** DATE RELINQUISHED TIME BY (SIGN) BY (SIGN) DATE **RECEIVED** RELINQUISHED TIME BY (SIGN) BY (SIGN) DATE **RECEIVED** RELINQUISHED TIME **BY LAB** BY (SIGN) SAMPLES IN **REMARKS:** FOR TPH

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Engineering Department Construction Division Materials Engineering Section

BORING REPORT

									1.	1 5
JECT YORK	VORY	, P\$6 S	HE		NAME OF CONT	ractor Driwni	, ,	BORING NO. M5		SURFACE ELEV.
EA:	K OF BUIL	01N6 56						CONTRACT NO. 426-99-00	6	DATE 11/30/00
ON	73/	CASING SIZ	E HOLE	TYPE			GRO	UND WATER LEVE	EL	
3 -0	л. 23/8				Date	Time	Depth		Rem	arks
MER 0 #	FALL SAFET	HAMMER	FALL		11/30/00	1500	5.0	DURING H	HNP 1	9V6ER
RILLER	Jim Fine	H							,	
ECTOR	DAN D	avis								
CASING WS/FT.	DEPTH	SPOON BLOWS/6"	RE- 1 COV'D	SAMP. ² NO.				SCRIPTION AND RIFES CHANGE OF P		
:				1	<u>State</u>					a75
					CONCRETE	10 2.75	AND ST	ONE TO 3.0		·
MANAULER		lla vo Ailla	()	2						3.0
HUMAN DEAK	<u> </u>	HAND AVECK	Fore	-	FILL- GRA	ra and a	NOERS_			· —— —— ——
-	- 5 -			3	Day Book	ALANEN SE	IT-KAIP	y" ← Fiu(?)		<u>5.0</u>
<u> </u>		V	V ·	UA*	 					<u> </u>
268		12 13	18	43*	BROWN FIN	E TO MED	IVM SB	D. TRACE SILT		
		33 33	14	5	SAME					
_	- 10 -	52 68				 -	`- 			
1		7 12 15 15	14	6	SAME _					12.0
<u> </u>		13 13		 	- 130	rrom OF	RARIN	b		12.0
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·	(,)		<u> </u>							
÷				1	<u> </u>					
. —				1	- Au	SAMPLES	SUL	ENED WITH	1/12	METER
	- 20 -			1	- A.	DLES 415 Ocma	WING <	SMED FOR ENVI	nanmen EDED	THE IEST ING
			 			1-511/1 <u>1</u>	IIAUAB DE	HILLOS NIGOLII	7 27	_
		-		1.		 -				
			,]`	,					

NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used
2 — U = undisturbed; A = auger; OER = open end rod; V = vane
3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

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Engineering Department Construction Division **Materials Engineering Section**

BORING REPORT

					i,				SHEET OF 3
ect Iv	Š	10			NAME OF CONT	RACTOR	E	ORING NO.	SURFACE ELEV.
tort Ivi	ary	\$ 6		·	Craig d	rilling		Pi	<u>.</u>
		1	betw. Rai	troad to	ack's	7		ONTRACT NO.	DATE
ween	blda 49	A & blda :	SIZE HOLE	ock 140	oo lot 1		14	26-99-001	0 11-22-00
NC	'3''	A & bldg ;	IZE HOLE	TYPE				IND WATER LEVEL	
3 "0.	.o. 2 3/8	1.D. Auger	5 1	. 1	Date	Time	Depth		Remarks
MER AL	rpow.	HAMMER	:			200			
	FALL 30	-	# FALL		11-22-00	1:49 PM	6.0	18# 4	
ILLER					17		0.00_		
	D.Co	OKE ?		į					·
ECTOR		7 5				<u> </u>			·
	_ 1 Z	ark		 				· <u> </u>	
ASING	0	SPOON	RE- 1	SAMP.2		3SA	MPLE DESC	CRIPTION AND REMA	ARKS
NS/FT.	DEPTH	BLOWS/6*	COV'D	NO.		LI	NE LOCATE	S CHANGE OF PRO	FILE 6.
ſ		1	Full				ASPHA	ot & Crushed	<u> </u>
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			1 1		till grey	<u> </u>	ND&	Gravel tr.	Tlie
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1				2	Itill redd	ish - brou	12 C-1	SAND tr. Gran	iel tr SIII
1							į	<i>)</i>	
 	► 5 ◄			٠,					
Ý		<u> </u>		3	SAMI	Ē			
'OW		1 1							
PM		4-6	 	1					
-gers	_	15-4	20"	<u> </u>	L Brown	<u> </u>	SANI) tr. Grave to	SI[[
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+		1-4		∤ _ ⊀	 	_ * _ `			
	- 10 -	4-8	24"	5	Drown	c - \	SAND	r Gravel fr.	CLAY & SIT
		/			F	1	- - -	, 	
+-+		6-2		1	<u> </u>			- — — —	
▼		15-22	24".	6	SAM	<u> </u>			12.0
		[-	,					4
		 		· .		 , -			——————————————————————————————————————
	<u>. </u>		1,	<u>.</u>	Note: 2	samples	sowed	_ for testing	/
1	`}			1					<i></i>
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NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used
2 — U = undisturbed; A = auger; OER = open end rod; V = vane
3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

ቦሜOJECT: ်	Port Ivory	P&G			
)RING No.		<u> </u>			DATE: 11 - 22 - 00
FIELD READ		7			PID Model: Mini Rac
TIME	SAMPLE No.	IN-SITU Split Spoon Reading	HEAD- Space Reading	BREATHING Zone Reading	REMARKS
PM	1	0.0	0.0	0.0	· · · · · · · · · · · · · · · · · · ·
	2	0.0	0.0	0.0	
	3	0.0	0.0	0.0	
	4	0.0	6.0	0.0	
	5	0.0	0.0	0.0	
	6	0.0	0.0	0.0	
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ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION CHAIN OF CUSTODY RECORD

		·	Sheet	ろ of	3
PROJECT: Port Ivory P&G					
LOCATION: Between bldg 42 A & bldg 32	betw. the rail tracks	DATE: 11-22-0	20		
BORING No: P	TOTAL No. OF SAI				
SIGNATURE OF ALL PRESENT AT SAMPLING					
BELLIOUSED V	DATE M. A.S.	PECEIVED.	188888888888	20022588	8888888888
RELINQUISHED	DATE 11-22-00				
BY (SIGN)	TIME	BY (SIGN)	888888888888888888888888888888888888888	38888888	888888888
RELINQUISHED	DATE	RECEIVED			
BY (SIGN)	TIME	BY (SIGN)			
RELINQUISHED	DATE	RECEIVED			
BY (SIGN)	TIME	BY LAB			
Sample # 2 & 5				·	<u>-</u>
Test parameters. TPHC;	PP+40, TAL	metals, PH;	0:18	gre	ase ·
		•	•		
<u> </u>		······			

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Engineering Department , Construction Division **Materials Engineering Section**

BORING REPORT

									SHEET) OF 7		
F DECT					NAME OF CONT			BORING NO.	SURFACE ELEV.		
POVTI	-Uory	PAG SiTe			Crais Di	1/1/18		P-2_			
LOCATION							-	CONTRACT NO.	DATE		
Botwo	en Alde	32A-742 CASING SI	·B		Block	1400 Lo	1	426-99-006	11/30/00		
S DON	3.	CASING SI		TYPE				UND WATER LEVEL			
<u> </u>	D.D. 21/8	TI.D. HUNTER	5	<u> </u>	Date	Time	Depth	R	emarks		
HAMMER	Safar	HAMMER					7 ~	1 , 1 , , ,	10		
40 #	FALL 30 1	- 4	FALL			<u> </u>	7,0	Unile Hon	d Auguring		
Setwe SON 3 ON HAMMER YO # I LLER	S	Burus									
PECTOR	6	Howe									
CASING		SPOON	RE- 1	SAMP.2	<u> </u>	3SAMPLE DESCRIPTION AND REMARKS					
BLOWS/FT.	DEPTH	BLOWS/6"	COA.D	NO.		LI	NE LOCAT	ES CHANGE OF PROFIL			
	0]	1		DSp 1217				<u>0,3</u>		
-,,		1/a. /h		1		<u> </u>		— -			
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NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used
2 — U = undisturbed; A = auger; OER = open end rod; V = vane
3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

Sheet Z of 3

PROJECT:	POTITION	PtG Sil	e		
BORING No.	6-2-	PtG Sij			PID Model: THIM POS
FIELD READ		Morore			PID Model: THIM POE
		IN-SITU	HEAD- Space	BREATHING Zone	REMARKS
TIME	SAMPLE No.	Split Spoon Reading	Reading .	Reading	
AIX			0.9		
	2		C.(
	3		C.c.		
	Ϋ.		.00		
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ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION CHAIN OF CUSTODY RECORD

PAG SIA PROJECT: LUCIN DATE: LOCATION: 22 **BORING No:** TOTAL No. OF SAMPLES: SIGNATURE OF ALL PRESENT AT SAMPLING DATE 11/30/CZ RECEIVED RELINQUISHED TIME BY (SIGN) BY (SIGN) RELINQUISHED DATE **RECEIVED** TIME BY (SIGN) BY (SIGN) DATE RECEIVED RELINQUISHED TIME BY LAB BY (SIGN) **REMARKS:** TPHC, PP+40 with PALMETALS, Dh, OIL & Grease

10 3 4

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<u>. 7</u>

Engineering Department Construction Division Materials Engineering Section

BORING REPORT

SHEET 0F 3 I JECT NAME OF CONTRACTOR BORING NO. SURFACE FLEV. Ivory Craig drilling CONTRACT NO. OCATION DATE OASING SIZE HOLE TYPE Block 1400 Lot1 11-22-00 426-99-006 ON **GROUND WATER LEVEL** Augers Date Time Depth Remarks IAMMER Autom. HAMMER 9:50 30 # FALL # FALL 11-22-00) LER Cook N ECTOR CASING SPOON RE-SAMP. ³SAMPLE DESCRIPTION AND REMARKS LOWS/FT. DEPTH BLOWS/6* COA.D NO. LINE LOCATES CHANGE OF PROFILE ASPHAIT Full Rec Handauger AND Grave 1 rdauge SAME 3 wollot EM gers 24" SAND and Browd , boulders some CLAYEY SITT SAME 10 SAME Note: 2 Samples saved for testing checked w PID mater Bottom of Boring discardeo 20 ·

NOTES: 1 - Length recovered; 0" - Loss of Sample, T - Trap used

2 - U = undisturbed; A = auger; OER = open end rod; V = vane

3 - Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

PROJECT:	Port Ivory	P&G			
ORING No.					DATE: 11-22-00
FIELD READ		7			PID Model: Min, Rae
	SAMPLE	IN-SITU Split Spoon	HEAD- Space Reading	BREATHING Zone Reading	REMARKS
TIME AM	No.	Reading			·
	<u>.</u>	00	0.0	0.0	
	2	0.0	0.0	0.0	
	3	0.0	0.0	0.0	
•	4	0.0	0.0	0.0	
•	5	0.0	0.0	0.0	
	6	0.0	0.0	0.0	
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ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION CHAIN OF CUSTODY RECORD

			Sheet 3 of 3
PROJECT: Port Ivary P&G			
LOCATION: Between bldg 42 C & blg 33 A	20 Wof bldg 420 [DATE: 11 - 22 - 0	O
IBORING No: P-3	TOTAL No. OF SAM	_	
SIGNATURE OF ALL			
PRESENT AT SAMPLING	>		
RELINQUISHED	DATE 11-22-00	RECEIVED	***************************************
3Y (SIGN)	TIME	BY (SIGN)	Ĺ
31 (31014)	88888888888888888888888888888888888888	20000000000000000000000000000000000000	3888888888888888888888888888
RELINQUISHED	DATE	RECEIVED	
BY (SIGN)	TIME	BY (SIGN)	
RELINQUISHED	DATE	RECEIVED .	
BY (SIGN)	TIME	BY LAB	The second secon
REMARKS: 2 Samples saved in	2 - 16 oz jar	S & 1-2 oz	jar each.
	+40 TAL mel	sals PH Oil 8	v grease-
	,	, ,	J

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Engineering Department Construction Division Materials Engineering Section

BORING REPORT

•										SHEET) OF 3
ECT		210				ME OF CONT			BORING NO.	SURFACE ELEV.
ta-t	Lvory	PAG			1 (raig de	illina	-	PD-1	,
CATION	- 77.4	Bldq 31				<u> </u>	J		CONTRACT NO.	DATE ,
± 30	ای الما د	Bldo 31	Blo	ck 140	٥٥	o Lot 1			1426-99-006	11-20-00/11-21-0
N. N	- 'V 0	CASING SI	ZE HOLE	TYPE				GR	OUND WATER LEVEL	1. 1.0 00 /11 11.00
3 10	2 3/0	1.D. Auger	_	1		Date	Time	Depth		emarks
3 0	utam	HAMMER	2	•					`	
	FALL 30		FALL	_		11-90-00	12.20pM	ב צו	SAMPLE #3	
RILLER	TALL DU	<u>' </u>	INLL			1. 20.00	1~.~	<u> </u>	PULIPIC H D	
" د	. Crai	<u>,</u> / ¬ r	raig	· i						
S :CTOR	<u> </u>	3 , 1 3.4	, «,y							
	17	arks	•	l	,					
CASING		SPOON	RE- 1	SAMP.2	Ţ	J	1 3 S A I	MPLF DE	SCRIPTION AND	
JASING JS/FT.	DEPTH	BLOWS/6*	COV.D	NO.					TES CHANGE OF PROFIL	E ø
	0		Full.		T			CONCY		0,7
indauge	<u> </u>	Hand auger	 	-	=					
4			i	- र	T	ill bran	12 c - P	SAN	D little Gravel	to Sill.
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		- 1	24"	5	F	Il brown	c - l S	AND	little Gravel, tr	SIT
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		2-9	<u> </u>							
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NOTES: 1 — Length recovered; 0" — Löss of Sample, T — Trap used
2 — U = undisturbed; A = auger; OER = open end rod; V = vane
3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

	7 1 9	P&G		<u></u>		
BURING No.	Port Ivory	1 4 15			DATE:	11-20-00/11-21-00
		1 7			PID Model:	11-20-00/11-21-00 Mini Rae
FICLD READ	INGS BY:] Z				
		IN-SITU	HEAD-	BREATHING		REMARKS
TIME	SAMPLE No.	Split Spoon Reading	Space Reading	Zone Reading		
20-00 AM	1	0.0	0.0	0.0	<u> </u>	
	٦	0.0	0.0	0.0		
-	3	0.0	0.0	0.0		
1 21-00 .+M	4	0.0	0.0	0.0		
•	5	0.0	0.0	0.0		
	6	0.0	0.0	0.0		
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ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION CHAIN OF CUSTODY RECORD

		·	Sheet 3 of 3
PROJECT: Port Ivory P	G		
OCATION: ± 30 W of Bldg 31	Block 1400 Lo	E 1 DATE: 11 - 20 -	00/11-21-00
BORING No: PD-1	3	OF SAMPLES: 2	
SIGNATURE OF ALL			
'RESENT AT SAMPLING	800000000000000000000000000000000000000	100000000000000000000000000000000000000	888888888888888888888888888888888888
RELINQUISHED	DATE	RECEIVED	
Y (SIGN)	TIME	BY (SIGN)	
RELINQUISHED	DATE	RECEIVED	***************************************
BY (SIGN)	TIME	BY (SIGN)	
RELINQUISHED	DATE	RECEIVED	
BY (SIGN)	TIME	BY LAB	
DI (SIGN)		DI LAG	
REMARKS: 2 Samples Saw	red in 2-11	ooz jars & 1 - 2	oz jar each.
0 1 11 2 0 /		O	O .
Sample # 2 8 6.			
Test parameters: TPHC	. PP+40 TAL	metals PH Oil	& grease
	,	, , , , , , , , , , , , , , , , , , ,	J
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THE PORT AUTHORITY OF MY & MU

Engineering Department Construction Division **Materials Engineering Section**

BORING REPORT

				_						SHEET OF 3
ECT ,		0 1 0				ME OF CONT			BORING NO.	SURFACE ELEV.
ort 1	vory	PEG				Craia	drilling		PD 3	
CATION		11		1		, J.	J		CONTRACT NO.	DATE
= 2511	Motor	lda 33 A	B1	ock 1	14	00 Lot			1426-99-006	11-28-00/11.29
P)N	- - -	CASING S		TYPE	-	ļ			OUND WATER LEVEL	
	D.D. 2 -5/	8-1.0. Auger	S	L		Date	Time	Depth		lemarks
	Safety	HAMMER		}	ļ		3:27 PM	1.81		
O#	FALL J 3		# FALL			11-28-00	3.2/	1.0	Sample #	Ĺ <u></u>
NICLEN	A	Kides		ĺ						
ECTOR		7 1			. !	 			· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
	7.	Larks		į	. 1]	•			
CASING	7	SPOON	RE- 1	SAMP.2	Γ	L	3SAI	MPLE DE	SCRIPTION AND REMAR	KS
L~NS/FT.	DEPTH	BLOWS/6"	COA.D	NO.	上		UI		TES CHANGE OF PROFI	LE O.
u r Head Handauge	0	Cutter Head Handauger	Fuli Rec	-	_				NCRETE	0.
Tangonge		ויי	1-1-	· .	T	71	0 0	ALLA	. (111	
- +	 - -	9	 -		14	<u>rill grey</u>	- c - f - s	5 421011 T	& Gravel, Cobble	s, tr. 5111
	<u> </u>] ,	L					
	_		1	2	F	ill areu	& brow	_ م	P SAND some	Browel little Silt
	 	1	+		+	11 9 24	P WIDWI	-	WHILE THE PARTY OF	DEOUBLE THE STILL
	5 -	d	 	*	<u> </u>				· 	
1	-	1	1	ろ	F	Reddish	brown S	Sillu	CLAY some C-	(SAND tr. Grav
ı" w		7-10	1	1	Τ			J		7
ER S	 	1		/	\vdash					
	<u> </u>	14-20	12"	4_	\perp	SAME_		 -		
	F 	15 - 19	1	1				•		
	Γ –	21-27	8"	5		SAME			· · · · · · · · · · · · · · · · · · ·	
	10 -		O	 	+-	3411C				
	<u> </u>	6-9	<u> </u>	1 7 7						
1		12-16	9 4"	1.6	1	SAME	•			
	_			 	T					
	├ -	12-14	 	7	-					
<u> </u>	<u> </u>	14-20	24	/	\perp	SAME				14
			'		1					
	15	•	 	1						一一一一
-			ļ	4	LN.	lotei 2 s	<u>amples s</u>	aved_	_far_testing ·	/_
			<u> </u>			//A\\	Samples	checked	d with PID mete	r
,				1			lie I		for testing	Bottom of Bor
	 	 	 	1	-		<u>oliscarde</u>	₲		
	<u> </u>		<u> </u>	1	L					
	[2		}							
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	<u> </u>		<u> </u>		L	_ -	· 			
-	Ĺ			ĺ						
	▶ <	_								

NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used 2 — U = undisturbed; A = auger; OER = open end rod; V = vane 3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

	017	ru Pie	C				
PROJECT:	Port Ivo		<u>.</u>		DATE:	11-28-00	/11-29-00
RING No.		T. Z.			PID Model:		
RELD READ							
TIME	SAMPLE No.	IN-SITU Split Spoon Reading	HEAD- Space Reading	BREATHING Zone Reading		REMARKS	
A M	1	0.0	0.0	0.0			
	2	0.0	0.0	0.0			
	3	0.0	0.0	0.0			
	4	0.0	0.0	0.0			
9.J •	5	0.0	0.0	0.0			
	6	0.0	0.0	0.0			
		0.0	0.0	0.0			
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ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION CHAIN OF CUSTODY RECORD

Sheet 3 of 3 Ivory PROJECT: Port DATE: 11 - 28 -00 TOTAL No. OF SAMPLES: **BORING No:** SIGNATURE OF ALL PRESENT AT SAMPLING 8334088039440880344088934408893449883344888 DATE 11-20-00 RECEIVED RELINQUISHED 3Y (SIGN) TIME BY (SIGN) DATE **RECEIVED** RELINQUISHED TIME BY (SIGN) JY (SIGN) DATE **RECEIVED IELINQUISHED** BY LAB BY (SIGN) TIME

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Engineering Department Construction Division **Materials Engineering Section**

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BORING REPORT

									SHEET OF 3
F JECT	<u> </u>	010			NAME OF CONT			BORING NO.	SURFACE ELEV.
OCATION	Ivory	P & G			Graig	drilling		PD 4	
	. i				~ <i>I</i>	· · · · · · · · · · · · · · · · · · ·	10	CONTRACT NO.	DATE
; 21 W	of BH PI	4 A & 25' CASING SI	A of b	dq 36	NW corner) 13	lock 1400	loft	426-99-006	12-2-00
F ON	3/0	CASING SI	ZE HOLE	TYPE				IND WATER LEVEL	
	O.D. 278	1.D. Auger	5		Date	Time	Depth	Re	emarks
,				_		2:13 PM	4 -1	7 1 14	. /.
NILLER			FALL		12-2-00	1.1.3	6.0	Top sample#	- 7
	A Kid	des		Ì					
N ECTOP	₹							 	
	7.7	arks		ļ					
CASING		SPOON	RE- 1	SAMP.2				CRIPTION AND REMARI	
L WS/FT	DEPTH	BLOWS/6"	COV'D	NO.		U		ES CHANGE OF PROFIL	
a suger		Handauger	Full Rec	1	Fill areu c	- Y SANI	TAHGEA C	ravel some Cobble	s tr. Sill 10
	 			1	3.3	- 1 - 2 - 11	110		er
-	 	 	 		Ked - brown	- c - 1 3/	(MI) MI	th silty Clay son	ne browel. 20
-	_ _]	<u></u>			,	
				9	Roddick	b	Sillin P	lay some c-f	SAND & Consol
	 				LIXEUDIISN_=	DEOM1/	2,111	11 - 2 11 - 2 - 1	SULLY & CLARKET
-	→ 5 <				<u> </u>				
*	<u> </u>	<u> </u>		3	SAME				
l ^{Il} ow	1	9	} ``						
s em Gers	 		, p	/ /	CINC				
16615	-	3 - 3	20"	4	SAME				
		3 - 2	l						
		2 - 2	24"	5*	SAME		7		100
	→ 10 →		29		. 371112			<u> </u>	10.0
	 - -	3-2			<u> </u>	_ — —			
		4-5	22"	6	Reddish	- brow	^ CIA	YEY SIIT.	İ
	T	7. (2)		,	, ,		- 		
	 - -	3 - 1		, , ,	C 1 1/1	-			
. 🛨	<u> </u>	9-16	20		SAM				14.0
	L	j		•	Note + 150	mole so	ved Lo	r testing. All chi	ecked w. PID meter 9
	→ 15 <		<i>.</i>		112361				5
	 			1		laining.	samples	_discarded	/-
	<u> </u>			1	L				
]]	}]				Bottom of Boring
	T -			1					
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	 			1	<u> </u>				
	 		<u> </u>	-					
			1	[.					
	T -			1	, , , , , , , , , , , , , , , , , , ,				
	+	<u> </u>	ļ		 				
			<i>_</i>	<u></u>]				

NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used 2 — U = undisturbed; A = auger; OER = open end rod; V = vane 3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

	Port Ivory	Pac			
PROJECT: ORING No.	DD Y ~	1 9 0			DATE: 42 - 2 - 00
HELD READ		.Z			PID Model: Mini Rae
TIELD NEAD			HEAD-	BREATHING	
	SAMPLE	IN-SITU Split Spoon	Space	Zone	REMARKS
TIME	No.	Reading	Reading	Reading	
PM	1 .	0.6	0.6	0.0	
	l.		0.0	0.0	
:	3		0. 0	0.0	
	. 4		0.0	0.0	
	5		0.0	0.0	
	6		0.0	0.0	
	2	4	0.6	0.0	
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ENGINEERING DEPARTMENT
MATERIALS ENGINEERING DIVISION
CHAIN OF CUSTODY RECORD

Sheet 3 of 3

·				
PROJECT: Port	Ivory P&G			
LOCATION: 20'	N of BH 4 A & 25' N	of Blog 36	1400 Lot 1 DATE: 12-2-0	2
BORING No: P	D4	TOTAL No. C	F SAMPLES:	
SIGNATURE OF ALL				
PRESENT AT SAMPL	ING Y, P KOW 'S	<u> </u>	888888888888888888888888888888888888888	888888888888888888888888888888888888
RELINQUISHED	KH P	DATE 12-2	2-00 RECEIVED	
BY (SIGN)	SIPLAND	TIME	BY (SIGN)	338888888888888888888888888888888
RELINQUISHED		DATE	RECEIVED	
BY (SIGN)		TIME	BY (SIGN)	
RELINQUISHED	333333333333333333333333333333333333333	DATE	RECEIVED	•
BY (SIGN)		TIME	BY LAB	
Sample Test Para	mple saved in 2- #5 meters: TPHC, I		IAL metals, PH	Oil & Grease
	· · · · · · · · · · · · · · · · · · ·			
:	· · · · · · · · · · · · · · · · · · ·			
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Engineering Department Construction Division Materials Engineering Section

BORING REPORT

											SHEET OF 3
JECT			١ ٥				ME OF CONT			ORING NO.	SURFACE ELEV.
ocation	voru	P	\$ G				<u>Craiq</u> c	Irillina		² D-5	1
OCATION	J						• 1		10	ONTRACT NO.	DATE
: 10 W	of Bld	13A	2 ±50	'S of NV	N corner	- 619	ablock.	1400 Lo	E1 14	126-99-006	12-02-00
ON	1	, ~	CASING SI	ZE HOLE	TYPE		#Block		GROU	ND WATER LEVEL	
3 *0	D.D. 2	³ /8 "I.D.	Aug en	<u>rs </u>	1		Date	Time	Depth	Re	emarks
AMMER			HAMMER			•				/	
10 #	FALL	<u>30 - </u>	1	FALL			12-2-00	\$:32	7.0	SAMPLE # 4	
ን I FR	1/ 1					ŀ			,	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
	Kid	es									
P PECTOR T 7 1									!		
Larks						<u></u>	1	· ·		<u> </u>	
CASING II OWS/FT.	DEPTI		SPOON .OWS/6*	RE- '	SAMP. ² NO.	1				RIPTION AND REMARKS S CHANGE OF PROFIL	=
I tead	> o		er Nead	Full	110.	+				ONCRETE	0.7
danger	<u></u>		nd auger			P			- P PA	MID & Comet Cat	lea to sill
4		į	1 0		1 +	∤ ₽	ill yreyish	- Drowh	C - 1 2W	ND & Gravel, Cob	1.5
				 	<u>'</u>	┤~~	EN - DIONA	Sith CIA	LY_LINE_	The same of the	4021.
- 4				 	1	-				<u></u>	
					2.	, F	Red-brow	in c- ()	LAND &	Gravel with S	illy CIAY
						T			<u> </u>		
	5	—		 		-					
			\\	—	3	_	SAM	1-		· ··	
H-110N		٦	- 5	,	ļ						
TEM	_	7		, 40	/	1	0 11.1				
pagers	<u></u>	10	- 10	14"	4	\perp	reddish	- brow	<u> 5.1t</u>	y <u>CIAY</u> _	
ין		R	- 13	1			•		_	ł	
				18"	5		 2 \\.\	-			
<u>\\</u>	10	417	- 19	18	ــــــــــــــــــــــــــــــــــــــ	1	Reddish -	•			10.0
]	L	Note: 29	samples	Saved 1	artesting ·	
·										Dineter	7
· .	 -	ا ٺ		 	i	十					
	<u> </u>			 	,	_	_ ` R	em <u>aining</u>	<u>Samples</u>	<u>discarded</u>	
					, `			. J	1		Bottom of Boring
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				<u> </u>	L			- -			

NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used
2 — U = undisturbed; A = auger; OER = open end rod; V = vane
3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

PO IECT: S	ROJECT: Part Ivary P & G									
ORING No.		3			DATE: 12 - 02-00					
TELD READ		Z			PID Model: Mini Rae					
				BREATHING	ı					
TIME	SAMPLE No.	IN-SITU Split Spoon Reading	HEAD- Space Reading	Zone Reading	REMARKS					
3:27 AM	1	σ, ο	0.0	0,0	·					
	2	0.0	0.0	0.0						
	3	0.0	0.0	0.0						
	. 4.	6.0	0.6	0.0						
	5	0.0	.0.0	0.5						
					: 9					
		<u> </u>								
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ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION CHAIN OF CUSTODY RECORD

Sheet 3 of 3

		<u></u>
PROJECT: Port Ivory P&G		
LOCATION: ± 50 'S of NW corner bldg43A&+	10' W of Bld 43 A	DATE: 12-2-00
BORING No: PD 5	TOTAL No. OF SAM	PLES:
SIGNATURE OF ALL		•
PRESENT AT SAMPLING) ::::::::::::::::::::::::::::::::::::	000000000000000000000000000000000000000
RELINQUISHED	DATE 12-2-00	RECEIVED
BY (SIGN)	TIME	BY (SIGN)
50000000000000000000000000000000000000	DATE	RECEIVED
RELINQUISHED	DATE TIME	BY (SIGN)
BY (SIGN)	IIME	
RELINQUISHED	DATE	RECEIVED
BY (SIGN)	TIME	BY LAB
	. (
REMARKS: 2 Samples Saved in	2-160z jars	& 1-20z jar each
Sample # 1 & 2		
Tet Parameters: TPHC PT	P+40, TALm	tale, PH Oil & Grease
TEST WANTED ST		

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Engineering Department Construction Division **Materials Engineering Section**

BORING REPORT

						•			SHEET OF 3
ECT					NAME OF CONT	RACTOR		BORING NO.	SURFACE ELEV.
Part .	Lyaru	PfG			Craig drilling			PD - 6	
CATION	+ VU! (1	-1-7-4			J CONTRACT NO.				DATE
2.01	Wol N'	W Corner o	L Bld	3 17	Block 140	o lot1	Ī	426-99-006	11-21-00
	10	W Corner o	IZE HOLE	TYPE	1			UND WATER LEVEL	
30	D.D. 2 3/6	8 "LD. Auge	rs	Ì	Date	Time	Depth	Re	marks
VIER		HAMMER	<u></u>						
0 #	FALL 3	0 -	# FALL		11-21-00	2:30pm	2.7'	Sample #2	
RILLER	٦ C					•	'	1 "	
:	J. Cra	19							
. Larks									
CASING NS/FT.	DEPTH	SPOON BLOWS/6"	RE- 1	SAMP. ² NO.				SCRIPTION AND REMARK TES CHANGE OF PROFIL	
te Head	DEP 11.	Cutter Head	Full	110.			TE LOOK	LO GIANGE OF THORIE	
/ D - Freue		Current neares]			-(- 	RETE	
]))			CON	<u> </u>	4.5
:			+	 				. 0 1 2 2 2	-
+	_	 	┦├		till greu	+ -c- 	RAMPR	& Gravel, tr. Sil	L
				2	,) (
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	5	←	 	٠,					
1	<u> </u>	<u> </u>	<u> </u>	3	Fill grey	c-1 S	AND	& Gravel tr d	etomaceous 6.º
ow		W = 0		*	0.0	1			
tu gers	-		1/1	1 /	71				
rugers		Hammer	14"	4	Fill gr	ey Wil	etams	xceous	
		W.o	1)	, V	~		
			1211	5	SAM	1F			
	10	Ham me	\ 1h		1 24	1 4			10.0
		1-1] .					
·		1-1	4"	· 6	Fill walls	wich - a	×011 ~	- SAND, to Gra	well to Sitt circles ben
· 	- -		+-2		I mi - dem	WISI	1	7 771100,11 011	
	<u> </u>	1-0	 	, *	 			—' — — —	
		1-0	112"	7	Greenish -	grey	Silli	4 CIAY	
						7 –		J	
	15		+	0	<u> </u>				
4		0 -1	4"	LÖ	SAME				
)	w o	'						_ ,
	 -		7 11	9	-SAME				180
<u>*</u>		Hammer	6"	 	Brown	PEAT	w fike	s, some Clay	18.0
v .								, , , , , , , , , , , , , , , , , , ,	
	- -		1]	N 1 -			<u> </u>	7
··	> 20	◀	+	1				for testing	
			<u></u>]	All	_ other so	mples_	screened with	
					pir	meter &	- ا		Bottom of Boring
	-	 	+	1	<u> </u>	<u></u>	<u> </u>	<u> </u>	
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			1						
	-		 	1					
		┫		<u> </u>	<u> </u>				

NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used 2 — U = undisturbed; A = auger; OER = open end rod; V = vane 3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

		2 4		 -	
ROJECT:	Port Ivor	PEG			DATE: 11 91 0 0
LORING No.	PD-6				PID Model: Mini Rac
FIELD READ	INGS BY: 7	Z		~~~~	PID Model: Mini Nac
	I	IN-SITU	HEAD-	BREATHING	05444040
	SAMPLE	Split Spoon	Space	Zone Reading	REMARKS
TIME	No.	Reading	Reading	neading	
PM	1 .	0.0	0.0	0.0	
	2	0.0	0.0	0 ò	
	3	0.0	0.0	0.0	· · · · · · · · · · · · · · · · · · ·
	4	0.0	. 0.0	0.0	
•	5	0.0	0.0	0.0	
	6	0.0	0.0	0.0	
	7	0.0	0.0	0.0	
	8	0.0	0.0	0.0.	
	9	0.0	0.0	0.0	
					
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ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION CHAIN OF CUSTODY RECORD

·		Sheet 3 of 3
PROJECT: Port Ivory P& G		
.)	Blob 17 blo	ock 1600 DATE: 11-21-00
BORING No: PD-6	101	OF SAMPLES:
SIGNATURE OF ALL PRESENT AT SAMPLING	>	
500000000000000000000000000000000000000	000000000000000000000000000000000000000	
RELINQUISHED	DATE 11-9	LI-00 RECEIVED
JY (SIGN)	TIME	BY (SIGN)
relinguished	DATE	RECEIVED
BY (SIGN)	TIME	BY (SIGN)
	DATE	RECEIVED
RELINQUISHED	DATE	
¹ 9Y (SIGN)	TIME	BY LAB
REMARKS: 2 Samples saved Sample # 4 & 7 saved		sting
·	•	
Test parameters: TPHC, 1	P+40,T	Almetals, PH Ail & grease
	· · · · · · · · · · · · · · · · · · ·	
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BORING REPORT

		•						•		SHEET OF 3
JECT		0 1	^	<u></u>		NAME OF CONT	RACTOR		BORING NO.	SURFACE ELEV.
Port I	voru	b f	('			Craia a	drilling		PD & (FS	<u> </u>
ATION						, J	. · J		CONTRACT NO.	/ DATE
E ol	NE Cor	ner of	Bldg	17	Bloc	K 1400	Loti		426-99-006	11-29-00
POON		CAS	ING SIZE	HOLE	TYPE				UND WATER LEVEL	· · · · · · · · · · · · · · · · · · ·
3 "0	.D. 2 3/8	3 1.D. Au	a e.r	1.1]	Date	Time	Depth		Remarks
MER C	Safety	HAN	HIER							
40 #	FALL	50	# F	ALL		11-28-00	11.00 AM	3.0	Sample#	2
RILLER	1 1/	1							1	
	A. Ki	des								
PECTOR	7 7	}								
		<u>arks</u>					<u> </u>	L		
ASING	DENTI	SPOO		RE- 1	SAMP.2				CRIPTION AND REMA	
WS/FT.	DEPTH	BLOWS	d c	COV'D سال الاجم	NO.	 	LII	CONC	ES CHANGE OF PRO	rile
andangu		HANDA	UGER	UII REE			- DC A		N-1-	
						7-11	- DG AJ	U C V	Mh o C. lic	
+		+				till greyis	h black s	1-34	NU EUravel te	oil, cinders, coal, bric
					Ť	L		- -		
					_ည	SAME		باس.	*	
+		+	-	1-1		3		- 		
	5 -	\longleftarrow				SAME_				
					3	Growich - 1	anauli c-	1 SANT	tr. Grave	£ 5(II)
DW TEM		- ·	_	_ v			· · · · · · · · · · · · · · · · · · ·	†··-		+
TEM		15 - 1	5		/			·		
AUGERS		13 - 2	,	20"	4	SAME		98	3	
		T								
+					_ X					
	► 10 -	5-5		2011	5	SAME			<u> </u>	
	- 10	3-2		1						
+			,		/	<u> </u>				
		2-2		12"	<u>6.</u>	SAME		150	<u> </u>	
		3-2	. [[, ,	ľ	+j		. •	
+	-			10 /14	7	S A Nor		17		
		8 -	6	24"	_/_	SAME_	<u> </u>	1 5	2.6	
		3 - 3	,	ľ		1		_		
	> 15 -	٦ .		н	ರ್	SAME		111,		
+		14-3		20"	× /	SAME		- -		
<u> </u>		3-1			Δ	SAME		_ [0]	16	····
		3 -	/	24 ^H	9 B	Į.	De AT	-		
		+	1	14	_ 5 0					18
		<u> </u>				HOTE: 3 SA	mples_ sa	ved S	or testing	
						All -	_l	ا لمماء	ith PiD meter	/
	>	4					ampies che	EVECT M	un in in meter	RIL Pa
		ļ		[Hoe o	ther samp	ec disc	carded	Bottom of Boring
			}	İ			i			
		+	-			 				
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		†				 				
	> -	↓				l			·····	

NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used
2 — U = undisturbed; A = auger; OER = open end rod; V = vane
3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

OJECT: Port Ivory P&G									
	^-	T			DATE: 11-29-00				
BURING No.		<u>(FS)</u>			PID Model: Mini Kae				
PCLD READ									
5 33333333333	SAMPLE	IN-SITU Split Spoon	HEAD- Space	BREATHING Zone	REMARKS				
TIME	No.	Reading	Reading	Reading					
	1	0.0	0.0	0.0					
	2	•.0	0.0	0.0					
	3	0.0		0.0					
	4	0.0	98.3	0.0					
•	5	0.0	239.6	0.0					
	6	0.0	150.2	0.0					
	7	0.0	132.6	0.0					
	8	0.0	111.4	0.0					
	9 A	00	102.6	0.0					
	ЭВ	0.0	00	.0.0					
	-								
:									
-									
-									
<u></u>									
			** 4						

ENGINEERING DEPARTMENT
MATERIALS ENGINEERING DIVISION
CHAIN OF CUSTODY RECORD

		Sueer 2 or 2
PROJECT: Port Ivory P&G		
LOCATION: 22'E of NE Corner of Bldg 1	7 Block 1400 Lot 1	DATE: 11-20-00
BORING No: PD8 (FS)	TOTAL No. OF SAM	PLES:
PRESENT AT SAMPLING		
RELINQUISHED X	DATE -2 9 -00	RECEIVED
3Y (SIGN)	TIME	BY (SIGN)
 	DATE	RECEIVED
BY (SIGN)	TIME	BY (SIGN)
RELINQUISHED	DATE	RECEIVED
BY (SIGN)	TIME	BY LAB
REMARKS: 3 Samples saved in 2- Samples # 2, #5 & # 9A	16 oz. jars &	U
Test Parameters: TPHC, PP+1	10, TAL metals	PH, Oil & grease.

Engineering Department Construction Division Materials Engineering Section

BORING REPORT

•										SHEET) OF Z
F JECT		. 0			NAME OF CONTRACTOR				BORING NO.	SURFACE ELEV.
COPE I	voru P	કું <u>ક</u> િ			Craig drilling				PD 9	
OCATION	1811	0.1	1 . /		ı	J)		CONTRACT NO.	DATE /
E DN	o Blog	17 Blo	<u>ck 4c</u>	o Lo	t j	<u> </u>			426-99-006	12-4-00
	J	1 .	IZE HOLE	TYPE	-				OUND WATER LEVEL	
3 ' /''MER	O.D. 2 3/8 Safety	HAMMER	<u>r5</u>	L	-	Date	Time	Depth		emarks
	# FALL 30		# FALL		- {	19 / 20	12:35 PM	7.0	1 SAMPle i	#-4
RILLER			FIALL		ŀ	17-4-00	12.22	1.0		<u>· · · · · · · · · · · · · · · · · · · </u>
	D. Coo	ke.		1	ł					
ECTO	` ~ ~	Ì							·	
	<u>, , , , , , , , , , , , , , , , , , , </u>	irks		1			L	l		
CASING L WS/FT	DEPTH	SPOON BLOWS/6"	RE- 1	SAMP. ² NO.					SCRIPTION AND REMAR TES CHANGE OF PROFIL	122
critea		Cutter Head	Full Rec	10.					TES OFFICE OF THOSE	<u>0.0</u>
andonde		HANDAUGER		4			ONCRETE			1.0
_				'	LF	ill greu	c-1 SAN	D same	Genuel Cobbles	tr Silt
<u> </u>	T					- J J			, , , , , , , , , , , , , , , , , , , ,	
- +	 -	 	+	9	<u> </u>				<u></u>	
		-	 	1	لنلإ	1 greyish	black c	<u>- S</u> A1	VD, little Gravel	,fr.314
_]	L			*	1	-		•		
J	→ , Þ ◀			3	I		L 61001	١ ١	CAND 1- Cours)	+ SIT
-110w	 		- - 	 	 	71 - Arear	5N_=121942	۔ کست۔	SAND, Ir Gravel	," <u></u> "
EM-	 	2-2		1						
AUGERS	<u>.</u>	2 - 2	10"	4	LY	isc till	arevish	-blac	k & Orange can't	SAND, to Grayer to SITT
 1			1	1			0-0		0 - 1	CINGUIS, CO O
·	 	1 ~ 1	7'	5	<u> </u>	CANAC	 			
	<u>→</u> 10 <	1-2	12"	12	┡	SAME	- +		·	
	<u> </u>	2-5				<u> </u>				
	}	6-4	2/4 "	6	1	SAME	•			,
	 		Pa	1.	 		 			
	┼ -	1 - 1)	\vdash	TMT				
.	<u> </u>	1-1	4"		L	SAME				
		7 - 9	1		1	SAME			•	15.0
1	→ 15 <	0 0	18"	8			R.		PEAT	
. · <u>K</u>	 	2-2	10		=		- PLO			16.0
	 		-	1	N	ote: 25	imples_	saved.	for testing	
•		į	-	ĺ	-	ΔN	Samples	check	ed w PID meter	
	\top			1					ام الم	
.——	 	 	+	1	-	Ke	maining.	- 25 m	olesdiscarded_	
 	▶ ∢			4	<u> </u>					Bollom of Boring
		<u> </u>	1							
	 		1	1						
	 	<u> </u>	 	1 .	\vdash					
			1].	<u></u>					
				1		,				
	T -		1	1			_ 			
	-		1	<u> </u>	<u> </u>					

NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used
2 — U = undisturbed; A = auger; OER = open end rod; V = vane
3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

DRO IECT:	Port Ivoru	P&G		·	
)RING No.) 1 4 5			DATE: 12-4-00
HELD READ		7_			PID Model: Mini Rac
				BREATHING	T
TIME	SAMPLE No.	IN-SITU Split Spoon Reading	HEAD- Space Reading	Zone Reading	REMARKS
AM	·	0.6	0.0	0.0	
	2	0.0	0.0	0.0	
РМ	3	0,0	0.0	0.0	
	. 4	0.0	.0.0	0.0	
•	5	0.0	0.0	0.0	
	6	0,0	0.0	0.0	
	7	0.0	0.0	0.0	5
	8	0.0	0.0	0.0	
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ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION CHAIN OF CUSTODY RECORD

Sheet 3 of 3 PROJECT: Port Ivoru LOCATION: 150 E DATE: 19 -BORING No: TOTAL No. OF SAMPLES: SIGNATURE OF ALL PRESENT AT SAMPLING DATE 12-4-00 **RECEIVED** RELINQUISHED BY (SIGN) BY (SIGN) TIME DATE RECEIVED RELINQUISHED TIME BY (SIGN) BY (SIGN) RELINQUISHED **RECEIVED DATE BY LAB** TIME BY (SIGN)

THE PORT AUTHORITY OF MY & MU

Engineering Department Construction Division Materials Engineering Section PARING PERART

SHEET / OF 2									
	T		т						
Port frong - P&G	NAME OF	Contractor Lic	ļ E	BORING NO.	SURFACE ELEV.				
ATION DI		1 0, ,		CONTRACT NO.	DATE / /				
POON Block Block Block	- 1400	Lot		426-55-006	11/28/00				
OASING SIZE HOLE TYPE	l	Time		IND WATER LEVEL					
3 "O.D. 2 8 "I.D. Auger 1	Dat		Depth	 	emarks				
MER Selfy 140 # FALL 30 " # FALL	- 11/2	0/00 2:15 pm	5.0'	Ju 2-5					
A. Coope									
ECTOR				 					
SING SPOON RE- SAN				CRIPTION AND REMARI					
WS/FT. DEPTH BLOWS/6" COV'D NO).	LI		ES CHANGE OF PROFIL	E 0.5'				
- II no toll	7-11		4 1 0						
Handley Rec				e, litters, to Co	ble.				
	* fill	- By M-FS	ad, le	tthe Gravel					
	-								
		and							
5 1 1 3	> -				6.0				
hgus 1-1	1 Fill	- White A	atemac	eas Soil w/ Gre					
1-1 20" 4									
1-1	· Tal	- White A	interna	cum Soi					
10 1/12" 18" 3									
1 1-1	· <u> </u>	San							
1/2 /8									
1- WOH/ 7	<u> </u>	ano							
-11119" 7									
wo14/		Sone							
13 124" zo" 0									
wort/1811 C	2	one							
WORY/8" G	1 A 34-121		`		77.5				
1, 1			med		19.0				
20 1,1 18"	Park	Brown O.	sjanic	silt of Piec	es of deconfista				
	- N								
	Med	1 Jany	les #	2 & 4 wer s	and for				
	test	is all	other	son fles wer	e screend u/				
	PID	& the de	ocarde	<u>d_'</u>					

NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used 2 — U = undisturbed; A = auger; OER = open end rod; Y = vane 3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

"ROJECT:	Port Ivory	Pè(F)		· · · · · · · · · · · · · · · · · · ·					
ORING No.	. 11	<u>:l</u>		DATE: 11/28/00					
FIELD READINGS BY: T. Ran PID Model: 14									
		IN-SITU	HEAD-	BREATHING Zone	REMARKS				
TIME	SAMPLE No.	Split Spoon Reading	Space Reading .	Reading					
PM	1.		0.0						
	2		0.0						
	3		0.0						
	4	·	0.8						
•	5		0-0						
	6		0.0						
	7		6.0						
	8		00						
	٩		. O D						
	ŀ			1	·				

ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION CHAIN OF CUSTODY RECORD

SIGNATURE OF ALL 'RESENT AT SAMPLING RELINQUISHED DATE // 28/00 RECEIVED YY (SIGN) TIME BY (SIGN) RECEIVED BY (SIGN) TIME BY (SIGN) TIME BY (SIGN) TIME BY (SIGN) RECEIVED DATE RECEIVED			Sheet 3 of 3
BORING No: PD-10 TOTAL No. OF SAMPLES: 2 SIGNATURE OF ALL PRESENT AT SAMPLING RELINQUISHED DATE 11/28/00 RECEIVED FY (SIGN) TIME BY (SIGN) RECEIVED BY (SIGN) TIME BY (SIGN) RECEIVED DATE RECEIVED BY (SIGN) RECEIVED DATE RECEIVED	PROJECT: Port Luony - PEG		
SIGNATURE OF ALL PRESENT AT SAMPLING RELINQUISHED DATE // 28/00 RECEIVED IY (SIGN) TIME BY (SIGN) RECEIVED BY (SIGN) TIME BY (SIGN) RECEIVED DATE RECEIVED DATE RECEIVED	OCATION: ± 60' North of Blds		DATE: /// 28/00
SIGNATURE OF ALL PRESENT AT SAMPLING RELINQUISHED DATE // 28/00 RECEIVED Y (SIGN) TIME BY (SIGN) RECEIVED BY (SIGN) TIME BY (SIGN) RECEIVED BY (SIGN) RECEIVED DATE RECEIVED	BORING No: PA-10 TO	TAL No. OF SAM	APLES: 2
PRESENT AT SAMPLING T. G. RELINQUISHED DATE // 28/00 RECEIVED FY (SIGN) TIME BY (SIGN) RECEIVED BY (SIGN) TIME BY (SIGN) RECEIVED DATE RECEIVED RECEIVED			
RELINQUISHED DATE ///28/00 RECEIVED Y (SIGN) TIME BY (SIGN) BY (SIGN) TIME BY (SIGN) TIME BY (SIGN) TIME BY (SIGN) RECEIVED RECEIVED RECEIVED RECEIVED	SIGNATURE OF ALL		
TIME BY (SIGN) RELINQUISHED DATE RECEIVED BY (SIGN) TIME BY (SIGN) RELINQUISHED DATE RECEIVED	RESENT AT SAMPLING T. Kga_		
RECEIVED BY (SIGN) TIME BY (SIGN) RECEIVED RECEIVED RECEIVED	RELINQUISHED DA	TE /1/28/00	RECEIVED
BY (SIGN) TIME BY (SIGN) RECEIVED	IY (SIGN) TRUE TIM	ME	BY (SIGN)
BY (SIGN) TIME BY (SIGN) RECEIVED	RELINOLIISHED DA	99999999999999999999999999999999999999	RECEIVED
RELINQUISHED DATE RECEIVED			
	RELINQUISHED DA	NTE	RECEIVED
BY (SIGN) TIME BY LAB	BY (SIGN) TIM	VE	BY LAB
REMARKS: 2 Samples in 4-160, jars é 2-voa jars	REMARKS: 2 Samples in 4-160y jars	¿2-voaja	hs.
Parameters = TPHC, PP+40/TAL metals, PH, oil & greass.	Parameters = TPHC, PP+40	TAL Metals	, PH, orl & greas.
			v
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Engineering Department Construction Division **Materials Engineering Section**

BORING REPORT

									SHEET) OF 3
" Por	IUON	1, P&G SI	Té	ارن این از ا	NAME OF CONTR			BORING NO. PD-11	SURFACE ELEV.
⊸ / .	rth of	13W 101 mg	5-					CONTRACT NO. 476-99-000	DATE 11 27 200 0
1//0 PWN	. 31	CASING SI	i -				GRO	OUND WATER LEVEL	
3 *0		8-1.D. Digits	ℓ	·	Date	Time	Depth	Re	marks
10 #	Salt FALL 3		FALL		11/27/00	1000	5.5		
RILLER	Davi	d cooks	5						
ECTOR	Madi	hu Patel							
CASING VS/FT.	DEPŤH	SPOON BLOWS/6"	RE- 1 COV'D	SAMP. ² NO.				SCRIPTION AND REMARK TES CHANGE OF PROFIL	
Na. i					Concrate				0.7
"This		Maril Dage	F./	!			eK c	MY SAND, SO	me emf gravel
					C	Sa	me		
-				?					
- 1							same	 	
	5-	/		3	mer -				
·/		WO	34		UN 116:10				
1ger		L	~ 1	4	mp, te	Diat	amac	acous earth	
		Н		, ,			SAME		
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		1, 1		5					
-	> 10 ◀	2, 3	84		 -	· -	SAM (_	
			7.7	6				-	
		2,2					SAMO	, , 	
		3,3	18	, <u> </u>	Net Black	ele fia	econ of	Rualc. grave	1, Sill- ela
		4,4		7	White a	Green	Dra	for macaous ea	rld material
1 1	أرسي	2,2	16	8	}	9	same	?	
	- 18 <	2,2		8	Wet. Wh	te p	iatar	nacaceon ea	The material
		No	10	9	_		Sam	د	
		Н							
		2,2	12	10	1				trace & sands
1	> 20 ◀	3,4		' -	With pie	ces of	dec	mposeel woo	I (Rest.)
	- 20 <					30thum	of 1	the Hule at	20.0
					011	50,)	san	ples collecte	al and
								PIP. No. 3 S.	
					8	myrnm	se f	estry. Remain	
·						lvicad	-	~	

NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used
2 — U = undisturbed; A = auger; OER = open end rod; V = vane
3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

PROJECT: Port 2 Yary, BA P+G SIL								
30RING No. $PD-II$								
FIELD READ	INGS BY:	PID Model: MINI 12 10 15						
	SAMPLE	IN-SITU Split Spoon Reading	HEAD- Space Reading	BREATHING Zone Reading	REMARKS			
TIME	No.		0	0				
0915	2	ల	O	ο .				
0930	3	0	0	D				
0943	4	0	٠٥	0				
1000	5	0	ಶ	0	•			
1015	6	Ø	0	0				
1030	7	Ø	0	0				
1.45	8	0	٥	0				
1450	9	0	٥	٥	·			
1115	16	G	0	0				
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ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION CHAIN OF CUSTODY RECORD

		<u> </u>	Sheet 3 of 3
PROJECT: Howsland Hook, Por	of avoy		
LOCATION: North of Buildin	J 5-16	DATE: 11/27/20	の
BORING No: PD-11	TOTAL No.	OF SAMPLES: R S	or/
SIGNATURE OF ALL Hadh m.	jal9-		
PRESENT AT SAMPLING	5 <u>6</u> 6688888888888888888888	988998888888888888888888888888888888888	
RELINQUISHED Made m Pale	DATE 11/2	7/200 RECEIVED	
SY (SIGN)	TIME	BY (SIGN)	
RELINQUISHED	DATE	RECEIVED	
RY (SIGN)	TIME	BY (SIGN)	
relinquished	DATE	RECEIVED	
BY (SIGN)	TIME	BY LAB	
REMARKS: 1 800	1 somple	colle cheel . 2-	1662 and
120	12 jar		
Conste	# 3 De	nu- 4-6	
		(0.0)(0.1)	PCR:)
Yarameters -		10,500, metals and	
	PH, Oil one	frease,	
		·	
		,	

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Engineering Department Construction Division **Materials Engineering Section**

BORING REPORT

										•	SHEET OF 3
Port	~	2	10		 	N	ME OF CONT			BORING NO.	SURFACE ELEV.
Port	Tvory	٢	है 6				Craia	drilling		PD-14	
C ION	Ų		1				J	, J)	CONTRACT NO.	DATE ,
W2 .	corner of	Bld 6	4 2 18	3' E os	FOU TOO	d	tracks Bla	ck 1338 1	ot 1	426.99.006	11-24-00
DON	7	,	CASING SE	ZE HOLE	TYPE				GRO	OUND WATER LEVEL	
<u></u>	D.D. 23/	R "I.D.	Auge	rs	1		Date	Time	Depth		emarks
N ER			HAMMER								
40 1	FALL 3		1	# FALL	-		11-24-00	1:13PM	5.0	Sample #	3
			<u> </u>				1, 1-1-1-1			7	~
	A. Kide	S			Ì		Į į	·			
TOR			·								
	7	Lark	رج .				. .				i
# T'NG			POON	RE- 1	SAMP.2	Γ		3SAI	MPLE DE	SCRIPTION AND REMAR	KS
F NG S/FT.	DEPTH		.OWS/6"	COV'D	NO.	1				TES CHANGE OF PROFIL	
nu auger	0	Han	danger	Full Rec		Г					
- •	 .					\vdash					
					1	F	hrown	c-b	SAND	tr bravel to Sil	
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1 4		11-	13	<u> </u>	, *	oxdot					
UGERS		1,5		24"	4	10	1 1		n	SAND Some SIL	TI Coul and
	 -	++	- 10	1/4		-4	regish b	rown_	} - }	SHILL SAME DI	tr. Gravel 8.0
	<u> </u>	12	- 12			L			<u>`</u>		
1		ه ا		24"	.5	l g	2.43.1	L	CIT	Γ	
 	l o -	₹ 12	- 15	LA -		 "	regaish_	DYOMU_	-5111/A	CIAY	
		7	- 7		,						
]	11	- 1 <u>-</u> -	20"	6	Γ	SAME				12.0
<u> </u>	-	10	- 13	10		┝	SHILE				14.0
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	15]			All	other so	males	checkld with Pl	D meter
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	 	+	-	ļ		<u> </u>		discocole	<u>-</u> d		_ Bottom of Borin
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NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used 2 — U = undisturbed; A = auger; OER = open end rod; V = vane 3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

PROJECT: Port Ivery P& G										
ORING No.	- 1 U	<u> </u>	DATE: 11-24-00							
HELD READINGS BY: 7. Z PID Model: Mini Rae										
TIME	SAMPLE No.	IN-SITU Split Spoon Reading	HEAD- Space Reading	BREATHING Zone Reading	REMARKS					
PM		0.0	0.0	0.0						
	2	0.0	0.0	0.6						
	3	0.0	0.0	6 .c						
	4.	0.0	00	0.0						
	5	0.0	0.0	0,0						
	6	0.0	0.0	0.0						
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ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION CHAIN OF CUSTODY RECORD

Sheet 3 of 3 **PROJECT:** LVoru LOCATION: 365 of SW corner of Blog 64 & 18 E of railroad trade block 1338 DATE: BORING No: PD 14 TOTAL No. OF SAMPLES: SIGNATURE OF ALL PRESENT AT SAMPLING DATE 11-24-00 **RECEIVED** RELINQUISHED BY (SIGN) BY (SIGN) TIME RELINQUISHED DATE **RECEIVED** TIME BY (SIGN) BY (SIGN) RELINQUISHED DATE **RECEIVED** BY (SIGN) **BY LAB** TIME **REMARKS:** ear vo. Svo. PCBS) PH. oil

Engineering Department Construction Division Materials Engineering Section

BORING REPORT

									SHEET (OF		
POT	Ivor-1	PHG Sil	Te		Crais L			BORING NO. Q - /	SURFACE ELEV.		
COLATION				cele	J	lc 1338	617	CONTRACT NO. 426-99-006	DATE 11/30/00		
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NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used
2 — U = undisturbed; A = auger; OER = open end rod; V = vane
3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

Sheet 2 of 3

PROJECT:	Port Iver	y PAC S.	Te			11/0.1	
BORING No.	Q1-1	; 			DATE:	11/3dec MINI POTE	
FIELD READI		OHowe			PID Model:	MINI POE	
		IN-SITU	HEAD-	BREATHING			•••••
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ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISIÓN CHAIN OF CUSTODY RECORD

		. St	neet 7 of 7
PROJECT: PORT IVORY POFG	SiTe		
LOCATION: South End of Coty	Noor Truck scale	DATE: 1//3~/00	
BORING No: Ql-/	TOTAL No. O	F SAMPLES: 3 54/	
SIGNATURE OF ALL	2		
PRESENT AT SAMPLING			
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BY (SIGN)	TIME	BY (SIGN)	
RELINQUISHED	DATE	RECEIVED.	
BY (SIGN)	TIME	BY LAB	
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REMARKS:			
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Engineering Department Construction Division Materials Engineering Section

BORING REPORT

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ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

Sheet Z of 3

ROJECT:	PROUT	OR & GAI	nBlé		1/3 20
ORING No.	2R-1	,			DATE: //-3.00
TELD READ	INGS BY: /	4. OUDEF	1		PID Model: Mini PAE
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ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION CHAIN OF CUSTODY RECORD

Sheet **7** of 3 1 noctor GAMBLE PROJECT: LOCATION: AS MARKET OUT PSY KILLIAM ASSOCIATES DATE: **BORING No:** RR-1 TOTAL No. OF SAMPLES: SIGNATURE OF ALL PRESENT AT SAMPLING DATE 11-3-00 RELINQUISHED-**RECEIVED** BY (SIGN) TIME BY (SIGN) DATE RELINQUISHED **RECEIVED** BY (SIGN) TIME BY (SIGN) RELINQUISHED DATE **RECEIVED BY LAB** BY (SIGN) TIME **REMARKS:** PARAMETERS:

Engineering Department Construction Division **Materials Engineering Section**

BORING REPORT

									SHEET 1 OF 9			
JECT					NAME OF CONTE	RACTOR		BORING NO.	SURFACE ELEV.			
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NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used
2 — U = undisturbed; A = auger; OER = open end rod; V = vane
3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

Sheet Z of 4

PROJECT:	Mawland d	lock, Port	Ivory	PAG SIT	ie
30RING No.	PR-2	lock, Part			PID Model: MINI PBE
FIELD READ	NGS BY:	Da-			PID Model: MINI PHE
	SAMPLE	IN-SITU Split Spoon	HEAD- Space Reading	BREATHING Zone Reading	REMARKS
TIME	No.	Reading	O.O	, tiousing	
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ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION CHAIN OF CUSTODY RECORD

			Sheet 3of 4
PROJECT: Howland Mosto,	POT I VORY	, PdG Site	
LOCATION: As Laid OUT by	Fillan, Wwaste	DATE: 14/4	1 loc
BORING No: PR-Z	TOTAL No. O		/
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RELINQUISHED	DATE	RECEIVED	
∠Y (SIGN)	TIME	BY (SIGN) [™]	
ELINQUISHED	DATE	RECEIVED	<u> </u>
BY (SIGN)	TIME	BY LAB	·
REMARKS:			
3 Soil Samples in 2	7-160z juis	f 1 - 200 ja	= Ege4
SH 1,213			
Test for			
TPH, BN+15,	PCB's, TAL	Motals, VOtI	·
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ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION CHAIN OF CUSTODY RECORD

							S	heet 9	of
PROJECT:	Howland	Howle	Port	Ivory	Po	to Sve			1
LOCATION:	Howland + 10' Wago	foris los	aslade	lout By Eilla	<u>د</u>	DATE:	11/6/00		
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Engineering Department Construction Division **Materials Engineering Section**

BORING REPORT

ED ALDRICH
10-4750
(6 pages)

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NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used 2 — U = undisturbed; A = auger; OER = open end rpd; V = vane 3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing. etc.

ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

Sheet Z of 3

PROJECT:		ok and	GAMBLE		1 2 22
ORING No.	RR	3			PID Model: Mini RAE
. IELD READ	INGS BY: M	. OUDEH			PID Model: Mini KAE
TIME	SAMPLE No.	IN-SITU Split Spoon Reading	HEAD- Space Reading	BREATHING Zone Reading	REMARKS
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ENGINEERING DEPARTMENT
MATERIALS ENGINEERING DIVISION
CHAIN OF CUSTODY RECORD

	~					Sheet	5 of 3	
PROJECT:	ROCTOR	& GAME	VE					
LOCATION: A	s markets	of GAME	of by K	ILLIAN DAT	E: //-3	١ / كوه -	1-4-10	
BORING No:	RR-3		TOTAL N	o. OF SAMPLES	S:	5 (11-3-01)	13 (11-4-0	0)
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RELINQUISHED			DATE	RE	CEIVED			
I BY (SIGN)			TIME	BY	LAB			
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REMARKS:	SAMPLE	5 ARE	R	BE TE	STED	FOR	·	
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Engineering Department
Construction Division
Materials Engineering Section

					i	BORING F	REPORT	•		SHEET OF 7
ECT,	- P	ξ (NAME OF CONT			BORING NO.	SURFACE ELEV.
CATION	lout	h	Killan	lsion		339			CONTRACT NO. 426-99-006	DATE / 1 / 4 / 0 0
>. → N	7.3	,/0	CASING SI		TYPE			GRO	UND WATER LEVEL	
3 °C	D.D. U	/8	·I.D. H. S.a.	yes I		Date	Time	Depth		emarks
40 #	FALL 2	30	HAMMER	FALL		114/00	11:57 Am	40'	In 5.#4	
RILLER	J.C	ra	<u> </u>						·	
ECTOR	T.K) 5-1	<u>~</u>							š.
CASING VS/FT.	DEPTH		SPOON BLOWS/6"	RE- 1 COV'D	SAMP. ² NO.		LII	NE LOCAT	SCRIPTION AND REMAR TES CHANGE OF PROFIL	LE .
150		7	Hand	July	, -	··		RUSH	EN STONE	0.5
			auger	Rec	1	Till-By	m-FSand	Some	G little conde	no some Brick
	_	-		-	7	Sam	l			3.4'
						HU - 10	By Ch. C	lay Si	It estle G	ti Cindro.
	> 5	1		1	3	PHICTURE PA	101 way 5	us, s	unin of heave,	6.0'
ges			6-9		11	Gray F:	sand to	Plat	fibero	
-1	_	-	9-8	//'	7	<u> </u>	,		t	
- }		\dashv	2-4	12"	5	130 m -1	-Sad t	م مد	t, to Gravel.	
	/8	1	2-4		1	Son	 ∪			
			4-5	10"	.6		·			
1	<u> </u>	\dashv	5-7	Zt''	7	Sar	<u>u</u>			
. V	<u> </u>	7	3-5	10"	8	Son				15.0
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-		4								
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	_	+				environ	estrig to	o per	(Springer (10)	ellon Osser).
	_	\dashv			,	disco	led.	www.	1-5 were A C. Springer (10)	riot un
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NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used
2 — U = undisturbed; A = auger; OER = open end rod; V = vane,
3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

Sheet 2 of 3

PROJECT:	1-1-1	0 & G.			
BORING No.	RR-4	1			DATE: ///4/00
RELD READ	INGS BY:	1.14-		***************************************	PID Model: 8
TIME	SAMPLE No.	IN-SITU Split Spoon Reading	HEAD- Space Reading	BREATHING Zone Reading	REMARKS
AM	1.		0.0		
	2		0.0		
Pm	3		0.0		
 	4		. 0.0		
	7		0.8		
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ENGINEERING DEPARTMENT
MATERIALS ENGINEERING DIVISION
CHAIN OF CUSTODY RECORD

		Sheet 3 of 3
PROJECT: HH-PEG		·
LOCATION: as laid out by 1 Ce	Dan ascoc	DATE: 11 4 00
BORING No: RR-4	1	OF SAMPLES:
SIGNATURE OF ALL	-0	/1/11/2
PRESENT AT SAMPLING	T.K/	/ (KILLAM)
RELINQUISHED	DATE // 4	O O RECEIVED
BY (SIGN)	TIME	BY (SIGN)
RELINQUISHED	DATE	RECEIVED
BY (SIGN)	TIME	BY (SIGN)
RELINQUISHED	DATE	RECEIVED
BY (SIGN)	TIME	BY LAB
REMARKS: 5 samples m/0 1-FB in 2-Vials	70	
· I		
Note: all samples test	tes for TPI	HC, BM+15, PCB's, TALM
V0+10.	<i>V</i>	
1		
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Engineering Department Construction Division **Materials Engineering Section**

BORING REPORT

							•			SHEET) OF 3
JECT	/ 1/					NAME OF CONT			BORING NO.	SURFACE ELEV.
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OCATION			n Dia o	/	ו נמ		_		CONTRACT NO.	DATE
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3 ~	a = 2	32	CASING	SIZE HOL	J	Para -	71		OUND WATER LEVEL	
!""IMER	0. 0 . <i>O</i>	78	"I.D. HAMMER		2	Date	Time	Depth		Remarks
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HILLER							13			17441.14
	·		Burus							
ECTOR		L	House							
CASING	DEE		SPOON	RE-	SAMP.	2			SCRIPTION AND REMAR	
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Mys			6-8					/	<u> </u>	
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NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used
2 — U = undisturbed; A = auger; OER = open end rod; V = vane
3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

Sheet 2 of 3

PROJECT:	Howland H	ock PORT	Curry Pt	G Site	11/7/00:
BORING No.	RR-5	<u> </u>			PID Model: MINI RAG
FIELD READ	NGS BY:	Ollowe	************		PID Model: MINI RBB
TIME	SAMPLE No.	IN-SITU Split Spoon Reading	HEAD- Space Reading	BREATHING Zone Reading	REMARKS
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	, 4		· 00		
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ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION CHAIN OF CUSTODY RECORD

Sheet 3 of 3

PROJECT: Howland Mock POIT I	vory PtG	Site
PROJECT: Howland Mock Poit I LOCATION: ± 120' South of Blo	18 DC	DATE: 11/7/0c
BORING No: RP-5	TOTAL No. OF SA	2 (
SIGNATURE OF ALL		
PRESENT AT SAMPLING	800808888888888888888888888888888888888	
RELINQUISHED	DATE 11/7/00	RECEIVED
BY (SIGN)	TIME	BY (SIGN)
RELINQUISHED	DATE	RECEIVED
BY (SIGN)	TIME	BY (SIGN) *
RELINQUISHED	DATE	RECEIVED
BY (SIGN)	TIME	BY LAB
REMARKS:		
3 Soil Samples in 2-160	San 21-	- 20 Sin Isch
3 Soil Samples in 2-1609 5H 1.2-3		
T = # 1 1 =		
1.05) 5 152		
TPH, BN+15, PCB's	, TAL mot	31, Va to
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Engineering Department Construction Division **Materials Engineering Section**

BORING REPORT

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R ECT	1 Not	Port Ivory	ptc		NAME OF CONTE	1		BORING NO. RR-6	SURFACE ELEV.
CONTION OF	a plour,	1011 Truly	100.	3))4	Craix	UNIIN	Y		
CATION	<i>~</i> ,	مار <u>ب</u> لام	n	1 , ,		•		CONTRACT NO.	DATE
2010	1 Dide	Bldc #70		lock 1	100 Lat 1			426-99-006	11/6/00
				TYPE			GRO	OUND WATER LEVEL	
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		Burus					{	1	
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CASING		, 	DF 1	04340	ļ _{r—} ———————————————————————————————————		L	CODIDITION AND DEMAN	<u></u>
LASING LAWS/FT	DEPTH	SPOON BLOWS/6"	RE- 1	SAMP. ² NO.	ì			SCRIPTION AND REMARI TES CHANGE OF PROFIL	
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Augr		1 1		1	F11- M-	F Brown	Sand	LITTLE Cuders Tr	377
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NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used
2 — U = undisturbed; A = auger; OER = open end rod; V = vane
3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

Sheet 2 of 3

PROJECT:	Howland	Made, Por	I Tuory	PHG SITU		11/1 /2	
ORING No.	RR-6	Made, Por			DATE:	11/6/0c 12/11/12/12	
FIELD READ	INGS BY:	Phone	SSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSS		PID Model:	1 MM 19803_	
TIME	SAMPLE No.	IN-SITU Split Spoon Reading	HEAD- Space Reading	BREATHING Zone Reading		REMARKS	
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ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION CHAIN OF CUSTODY RECORD

Sheet 3 of 3 Howland Node Port Ivary PAG-Site PROJECT: South Side of Aldg 20 LOCATION: **BORING No: TOTAL No. OF SAMPLES:** SIGNATURE OF ALL PRESENT AT SAMPLING DATE 11/6/00 **RECEIVED** RELINQUISHED BY (SIGN) TIME BY (SIGN) RELINQUISHED DATE **RECEIVED** BY (SIGN) TIME BY (SIGN) RELINQUISHED DATE RECEIVED BY (SIGN) TIME BY LAB **REMARKS:** TOAC, BN +15, PCB'S TAL moTals, Vocto

Engineering Department Construction Division **Materials Engineering Section**

BORING REPORT

									SHEET / OF 3
JECT	1 14	. 0			NAME OF CONTE			BORING NO.	SURFACE ELEV.
olow la	and floo	ik, Port Ivon	~ PJG	SiJe	Craix	Drillin		PR-7	
					U			CONTRACT NO.	DATE
s Laco	4 CVI P	CASING SE	+SSOC	<u>E95)</u>	Side Bldg	40		426-99-006	11/6/00
) } 	.D. 3/8	CASING SIZ		ITPE				UND WATER LEVEL	
<u> </u>	C -C	ALD. DUSY) '		Date	Time	Depth		emarks
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RILLER			TALL		10,			 	
·		Buxus							
ECTOR		D Nows						·	
CASING		SPOON	RE- 1	SAMP.2	T	364	MDI E DES	CRIPTION AND REMAR	K8
WS/FT.	DEPTH	BLOWS/6"	COA.D	NO.				ES CHANGE OF PROFIL	
rind	0	Hard Bugar	FUI	,					
المجروب الم		1 6	17		FILM	FR	.C. /	I.T. CIT TVC	
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					F111 -MF	- Brown	Sand, L	ATTLO Gravel TISI	11, Tr Clay clumps 45
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NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used 2 — U = undisturbed; A = auger; OER = open end rod; V = vane 3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

Sheet 2 of 3

PROJECT:	Howland	Hock, Por	TLuory	PAGS,TO)	
BORING No.	RR-7				DATE:	11/7/oc Mm PAS
FIELD READ	NGS BY:	D) Nowe	***************************************		PID Model:	MINI MIB
TIME	SAMPLE No.	IN-SITU Split Spoon Reading	HEAD- Space Reading	BREATHING Zone Reading		REMARKS
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	2		0./	,		
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ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION CHAIN OF CUSTODY RECORD

Sheet 3 of 3 Howland Mock, Poit Luony P&G Site PROJECT: East Side Bldg 20 LOCATION: DATE: **BORING No:** TOTAL No. OF SAMPLES: SIGNATURE OF ALL PRESENT AT SAMPLING DATE 11/6/00 RECEIVED RELINQUISHED BY (SIGN) TIME BY (SIGN) RELINQUISHED DATE **RECEIVED** BY (SIGN) " BY (SIGN) TIME RELINQUISHED DATE **RECEIVED** BY (SIGN) TIME BY LAB **REMARKS:** PHC, BN+15, PCB's, TALMETALS, Vactor, TCL, Ph, O.I., Grease

10 Tasting 5#3 at This Time

Engineering Department Construction Division
Materials Engineering Section

BORING REPORT

										SHEET 1 OF 3
JECT	_				T	NAME OF CONT	RACTOR		BORING NO.	SURFACE ELEV.
Port	Lvory	b f	<u>G</u>		- 1		drilling	ر ,	RR8	
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3 0	i.D. 9.3/4	Au (Dore	1	}	Date	Time	Depth		Remarks
"IMER	Automobic	HAMM	ER							
		0 -	# FALL			12-1-00	11:45	2.5	1 2 1 119	
ILLER 7	FALL 5	<u> </u>	FFALL			12-1-00	11.43	1.3	Sample #2	
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		<i>p.</i>			Į	, ,				
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NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used 2 — U = undisturbed; A = auger; OER = open end rod; V = vane 3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

Sheet 2 of 3

DOO IFOT:	Port Ivori	Pe	C		
)RING No.) 4	<u> </u>		DATE: 12.01-00
HELD READ		Z			PID Model: Mini Rae
HELD READ	indo br.				
TIME	SAMPLE No.	IN-SITU Split Spoon Reading	HEAD- Space Reading	BREATHING Zone Reading	REMARKS
AM	<u>.</u>	0.0	0.0	0.0	
	2	0.0	0.0	0.0	
PM	3	0.0	0.0	0.0	
	4	0.0	00	0.0	
-	5	0.0	0.0	0.0	
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ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION CHAIN OF CUSTODY RECORD

·			Sheet 3 of 3
PROJECT: Port Ivory P&G			
LOCATION: 25'E of wire fence between	1st & 2 hol R.Rtracks	1400 DATE: 12-01-00)
BORING No: RR8	TOTAL No. (OF SAMPLES: 2	
SIGNATURE OF ALL	$\overline{}$		
PRESENT AT SAMPLING		99999999999999	888888888888888888888888888888888888888
RELINQUISHED	DATE 12-	01-00 RECEIVED	
BY (SIGN)	TIME	BY (SIGN)	000000000000000000000000000000000000000
RELINQUISHED	DATE	RECEIVED	·
BY (SIGN)	TIME	BY (SIGN)	
RELINQUISHED	DATE	RECEIVED	
BY (SIGN)	TIME	BY LAB	
REMARKS: 2 samples saved for Sample # 2 & 4	testing in	1-16 oz jars 21-	2 oz jar each
Test Parameters: TPHC,	BN+15,	PCB-s, TAL meta	ls BO+10
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Engineering Department Construction Division Materials Engineering Section

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BORI	NG	REP	ORT

									SHEET (OF 5
TJECT	TIVO	bry D+	. (~		NAME OF CONTRACTOR CVA: S DILLE BORING NO. RR-10				SURFACE ELEV.
OCATION	1 1 00	7		·	8.00	(OF)	20	CONTRACT NO.	DATE
/	V BL	113			_			426-99-006	12/2/00
NO	~ 3/-	CASING SI	ZE HOLE	TYPE			GRO	UND WATER LEVEL	
S *0	D.D. 278	"I.D. & yel	1 /		Date	Time	Depth	Rei	marks
	SUFT	7 HAMMER			12/00	1200	4.5		
ULER	FALL 30		FALL	-	12/400	1200	117		
	44 1	-			.			Ì	1
<u>5.</u>	701	Twoy					ļ		
MEPECTOR C	varbe ?	Springer		,					
CASING		SPOON	RE- 1	SAMP.		3SA	MPLE DES	SCRIPTION AND REMARK	is .
LOWS/FT.	DEPTH	BLOWS/6"	COA.D	NO.				TES CHANGE OF PROFILI	E 60
A	, ,	HA	Full		(well u/s	oud not			
·		- , , -	 	1 1	Limet =/				
			1-1-	<u> </u>	CINDUS/	work I	36ck		
- 1			1 1	Í _	GIU75in	wite.	Done C	wore	2.5
				2,4	- Civid		-		
			+	-	1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -	+VWW	<u> </u>	Some Slog	
	- 5 -			2				SANGSILT NOTHER	
L		√	J	3	Some		— 	MER HAW BERN	CONSTENS ENTY
Hollow SYOMM		7-10	1.81						
Lup /	- -		11.6	14	<u> </u>			 _	
700		12-19	<u> </u>	1	Some				
		12-11	1'	(X					
1	10	7-6)	Sine				
		8-17	2'	6					
		13-9		0	Some			<u> </u>	
		14-10	21	7	Spre			<u> </u>	
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	15	3-3	11.18	8					
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NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used 2 — U = undisturbed; A = auger; OER = open end rod; V = vane 3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

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ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

Sheet 2 of 3

PROJECT: POUT IVOV/ PLG									
BORING No.	<u> </u>	-10			PID Model: Mini - RAL				
FIELD READ	INGS BY:	whole S		PID Model: MINI - RAL					
1	SAMPLE	IN-SITU Split Spoon	HEAD- Space	BREATHING Zone	REMARKS				
TIME	No.	Reading	Reading .	Reading					
AM	1.		0.00						
AM			0.00	·					
6W	3		0-00						
3W	4		0.00						
D.W	5		0.00	· .					
52	6		000						
PM	7		0.00		·				
PM	8		0.00		·				
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ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION CHAIN OF CUSTODY RECORD

Sheet 3 of 3

PROJECT: POUT IVENT P+6							
LOCATION: N BID 13		DATE: 12/2/00					
BORING No: RR-10	TOTAL No. OF SA	DATE: 1212/00 TOTAL No. OF SAMPLES: 2 Soi L					
SIGNATURE OF ALL	7						
PRESENT AT SAMPLING							
RELINQUISHED	DATE	RECEIVED					
BY (SIGN)	TIME	BY (SIGN)					
RELINQUISHED	DATE	RECEIVED					
BY (SIGN)	TIME	BY (SIGN)					
RELINQUISHED	DATE	RECEIVED					
BY (SIGN)	TIME	BY LAB					
REMARKS:							
Samphos 1/4 2	245 in	2:16°2 1:2°2 525					
" .							
enolyze For	,						
TPA	K, BN+1	15, PCBIS, TOLMOTOLS					
	10+10	, , , , , , , , , , , , , , , , , , , ,					
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Engineering Department Construction Division Materials Engineering Section

BORING REPORT

									SHEET I OF 3
ECT				P+G	NAME OF CONTE	RACTOR		BORING NO.	SURFACE ELEV.
		Port 7	(vory	Site	NAME OF CONTE	Dallin	- 1	RR-15	
C*TION						=	0	CONTRACT NO.	DATE
orth	of B	wilding	56					426-99-006	11 27 2000
OON		CASING SIZ	ZE HOLE	TYPE			GRO	OUND WATER LEVEL	
3 -0	D.D. ^{유 3} /	8"I.D. Augur HAMMER	·	l	Date	Time	Depth	Re	emarks
IER					1110-1		سے سر		
1,10 #			FALL		11/27/264	0745	5.3	_	
RILLER	1			ĺ					
E :CTOR	avid	Cooks							
	Madh	u Patd							
CASING U/S/FT.	DEPTH	SPOON BLOWS/6"	RE- 1	SAMP. ² NO.				SCRIPTION AND REMARI TES CHANGE OF PROFIL	
7		Hand Aug c	Full	1	Fill - "E	3nonish	Blad	c cmb sard,	Pittle cmf
				14	1	trace s	11 5	show, Frock	ele
				ર	1) g 1 + 13	NICK !	Black	C CM SAND	little clay
_					tocece 5	17t. 4	store	2, gravel.	·
	5			3			54 M	<u> </u>	
<u> </u>			4		<u></u>				
Je-6		5,7	181		Wet 11	git Bn	اس	CML SAND,	ristle silt
		9,11			trace el				
·		15,15	२०'	5	met, B	mom e	<u>homi</u>	Gray cmb SA	ND, trace
	10	12,17	ļ	ļ	sint, to		- 1		
- }	L	5, 5	२५''	6	met, 1	3-20 Wy	and -	light green	cwf* 2AND
<u> </u>	<u> </u>	6,7	<u></u>	ļ ·	11+1-				
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17.			<u> </u>	<u> </u> 	<u> </u>	~			
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NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used 2 — U = undisturbed; A = auger; OER = open end rod; V = vane 3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

Sheet & of S

PROJECT:		÷	Port Ivon	Y, P+ G	7 51 6
BORING No.	RI	2-15			DATE: 11/25/ 2000
FIELD READ		Madhu	Patel		PID Model: Min PBS
TIME	SAMPLE No.	IN-SITU Split Spoon Reading	HEAD- Space Reading	BREATHING Zone Reading	REMARKS
/301	1.	0	٥	0	
1400	२	0	D	O .	
0745	3	O	8	0	
.0800	4	۵	. 0	ð	
0615	5	0	0	0	
0850	6	0	0	0	5
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ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION CHAIN OF CUSTODY RECORD

Sheet 3 of 3 Howland Hosk, Port Ivory, Pt G Sile.

Each of Building 56 DATE: 11/25

RR-15 TOTAL No. OF SAMPLES. 2 S PROJECT: DATE: 11/25/2000 LOCATION: **BORING No:** Hadhern later SIGNATURE OF ALL PRESENT AT SAMPLING RELINQUISHED Hall m Va DATE **RECEIVED** BY (SIGN) TIME BY (SIGN) RELINQUISHED **DATE RECEIVED** TIME BY (SIGN) BY (SIGN) DATE RELINQUISHED **RECEIVED** TIME BY LAB BY (SIGN) Ones Soil samples are collected REMARKS: Sample # 1 - Depth- 1-2, Somple # 3 - Depth - 4-5 Parameters - TPHC, BN+15, PCBS, TAL Metale VOHO (For evaluation of pits TPHC, TCL, PH, Oi) and Greare

Engineering Department Construction Division Materials Engineering Section

BORING REPORT

										SHEET / OF /	
IECT					N/	AME OF CONT			BORING NO.	SURFACE ELEV.	
\mathcal{V}_{c}	IV IV	vory PdG	SiTe			craig	Dulling	ρ	STAIN- I		
OCATION	uth of	Building CASING SE	60	B					CONTRACT NO. 426-97-006	DATE 11 24 2000	
-UN	3	CASING SI	ZE HOLE	TYPE	_	T		GRO	OUND WATER LEVEL	-1	
3 .0	.D. 2 /	BILD. AUJERS	' /	ł		Date	Time	Depth		emarks	
uen	FALL Sol	UAMMED				11/24/2000	1145	6.0			
RILLER			FALL			' '-					
W.L.L.	David	d Croks									
ECTOR		thu Patel									
CASING . NS/FT.	DEPTH	SPOON BLOWS/6"	RE- 1	SAMP. ² NO.					SCRIPTION AND REMAR TES CHANGE OF PROFIL		
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Auger		1 /		1 1				_'			
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				a				SAMO	<u> </u>		
)			j		10	511- Bla	ack o	em f	SAND, little	Silt, with stone	
				1	†*			SAME			
 	> 5 ◀	 	├	3	 -						
<u>V</u>		<u> </u>	<u>v</u>	<u> </u>	12	570Wካ፣ ፍለ 	72110W	- 	f SAND, tra		
1000		6,8	24"],	Net, Y	e116615	Bno	wy cmf sx	AND, little	
Ay		10,12		4		silt, trace clay					
		5,10	24"		1,				own cmf s	AND, little	
	- 10	15, 17		5		Silt					
	10	5, 12	24"			wet. Y	ellowish	Re	d cmf SA	ND, PitHe Silt	
		22, 25		6		race c				12,0	
		5,10	24"	, 4	┰╌╸			1144	CLAY, trace	f Gravel	
		11, 13		,7		— /-		glacia	- TII)		
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NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used 2 — U = undisturbed; A = auger; OER = open end rod; V = vane 3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

Sheet 4 of 3

~30JECT:	Hos land	Hook , Po	of Ivory	P+Gi	Sile
	5	TAZN - I			DATE: 11/24/2005
FELD READ	INGS BY:	HuoK, Po TAIN-1 Madhu	Patá		DATE: 11/24/2003 PID Model: MINI RATE
	SAMPLE	IN-SITU Split Spoon	HEAD- Space	BREATHING Zone	
TIME	No.	Reading	Reading .	Reading	
21 15	1		0	0	
11-30	2		0	0 ·	
12. 45	3		0	0	
1200	4	<u>0</u>	. 0	O	
12.15	5	0	0	O	
1245	6	0	0	0	
1805	7	0	0	0	
1315	8	D	0	ð	·
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ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION CHAIN OF CUSTODY RECORD

Sheet 3 of 3Port Zvory PROJECT: Sould of Building 60 B 11124/2000 DATE: LOCATION: 2 Soils STAZN. I BORING No: TOTAL No. OF SAMPLES: Ma The m Pal SIGNATURE OF ALL PRESENT AT SAMPLING RELINQUISHED DATE RECEIVED BY (SIGN) TIME BY (SIGN) **RELINQUISHED** DATE **RECEIVED** BY (SIGN) IBY (SIGN) TIME RELINQUISHED DATE **RECEIVED** BY (SIGN) TIME BY LAB Soil collected. 2-16 02 sol jans **REMARKS:** 3 , Def 11 - 4-6 TPHC, TCL(VO, SVO, metals and PCBs Porametors 1 PH, oil and grease.

THE PORT AUTHORITY OF MY & MJ

Engineering Department Construction Division Materials Engineering Section

				1	BORING R	EPORT	,		SHEET OF 3
JECT	P+P	<i>इं</i> ५			NAME OF CONTR	ACTOR		STAIN # Z	SURFACE ELEV.
ATION (tinaile	Rble 20 in Deasing size	Pit!	South		(K-1400)		CONTRACT NO. 426-99-006	DATE
иооч	- 3/0	CASING SIZ	E HOLE	TYPE			GRO	UND WATER LEVEL	
<u>) '0.</u> MER	.D. 2/8	"I.D. Lu sers	11		Date	Time	Depth	Re	emarks
	Safet	HAMMEH		_	11/11/00	12%	6.0	While Have	1 Naul
AILLER	FALL 30		FALL		11/1/100	120	<u> </u>	White Take	C BOLENAY
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Augor				2	M-F 6	lact Bri	owi So	nd Little STITY Th	UpgT 310
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NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used 2 — U = undisturbed; A = auger; OER = open end rod; V = vane 3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

PROJECT:	Port. Ivo	ory PdG	siTe		1 11.1.1	
ORING No.	SJan	, 12			PID Model: MINI PA	
FIELD READ		Marie			PID Model:) MINI RA	<i>5</i> -
		เท-รเาบ	HEAD-	BREATHING	REMAI	RKS
TIME	SAMPLE No.	Split Spoon Reading	Space Reading	Zone Reading		
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		Sł	neet 3 of 3
PROJECT: POYT I UOI-J P LOCATION: Bldg DC CONTON BORING NO: STain Z	dc Site		
LOCATION: Bldg DC CONTON	Bay Inspection PIT	DATE: 1//11/00	
30RING No: STain 2	TOTAL No. OF SAM	APLES: 3 Sal/	
IGNATURE OF ALL			
PRESENT AT SAMPLING			
RELINQUISHED	DATE 11/11/00	RECEIVED	
Y (SIGN)	TIME	BY (SIGN)	
RELINQUISHED	DATE	RECEIVED	
∟Y (SIGN)	TIME	BY (SIGN)	
relinguished	DATE	RECEIVED	
BY (SIGN)	TIME	BY LAB	
REMARKS:			· · · · · · · · · · · · · · · · · · ·
3 Soil Samples	n 2-160g Jan	JA Dos fee	lady
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TOST 5#1+2			
TpdC, Pp+40,	TAlmotals, Ph	oil & Greaso	
Pared Test 5# 3 as			
VUNEL JEST 5) av	1 1117 11116		

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Engineering Department Construction Division **Materials Engineering Section**

BORING REPORT

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JECT				^	_				E OF CONT			BORING NO.	SURFACE ELEV.
_ <u>vo</u> r	u Poin	Ł_	P	ر کا				\perp C	raia	drilling		Stain-3	
OCATION .	J			14			A		J)	CONTRACT NO.	DATE
362	Bay	E	NS INC	Ho	USR		Bldg 8) C/_				426-99-006	11-10-00
I ON	- //	7/	CASING	G SIZ	ZE H	OLE	TYPE -	L			GRO	OUND WATER LEVEL	
3 *	<u>'0.D. ኤ</u>	~/8	CASING	ger	حلع		<u> </u>		Date	Time	Depth	Re	emarks
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ECTOR	<u>D.0</u>	<u>suc</u>	.h					-		 	 		i
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CASING	⊤ J - '	~u1	SPOON		RE	_ 1	SAMP.	<u></u>		30/	MDIENE	SCRIPTION AND REMARK	(8
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NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used 2 — U = undisturbed; A = auger; OER = open end rod; V = vane 3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

DOO ICCT:	r D.	L DJC			
PROJECT:	Lvory Poin	<u> </u>			DATE: 11-10-00 / 11-11-00
ORING No.					PID Model: Mini Rae
RELD READ	INGS BY: 7	<u> </u>			
	SAMPLE	IN-SITU Split Spoon	HEAD- Space	BREATHING Zone	REMARKS
TIME	No.	Reading	Reading .	Reading	
РИ	1.	0.0	0.0	0.0	
	L	0.0	0.0	0,0	
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	<u>. </u>		Sheet of 3
ROJECT: Ivory Point			
LOCATION: East Boy, Bldy Do		DATE: 1/- 10	-00
BORING No: STAIN #3	1	o. OF SAMPLES: 2	
IGNATURE OF ALL	M)		
PRESENT AT SAMPLING	::::::::::::::::::::::::::::::::::::::	10000000000000000000000000000000000000	<u>eeego</u> gg88888888888888888888888
HELINQUISHED Hand	DATE)	- 10 - 60 RECEIVED	
Y (SIGN)	TIME	BY (SIGN)	
RELINQUISHED	DATE	RECEIVED	
Y (SIGN)	TIME	BY (SIGN)	
ELINQUISHED	DATE	RECEIVED	
BY (SIGN)	TIME	BY LAB	
Sample #14	16 cz	jars & 2 voajo	erb each,
Sample 1 & 2 Test PHC-	PP+40	,TAL metal, PH,	oil & grease
	<u></u>		
• <u>• • • • • • • • • • • • • • • • • • </u>	·		<u> </u>

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Engineering Department Construction Division
Materials Engineering Section

BORING REPORT

		•					_		SHEET / OF 3		
I ECT		, PdG 5			NAME OF CONTI	<i>a</i> /		BORING NO.	SURFACE ELEV.		
Porl	Dury	, PAG- 5	iJe		Craig	Drilling		STAIN 3B			
CATION	7	7	, 1		U	0		CONTRACT NO.	DATE		
75	Bay, Bl.	ds 20 -	P11, S	South.	A STOLM 3A U26-99-00 11/11/00 GROUND WATER LEVEL						
ېښ _N	7 (3)	CASING S	SIZE HOLI	E TYPE	GROUND WATER LEVEL						
3	5.0. 738 Sef-	"I.D. DUC TY HAMMER	15		Date	Tíme	Depth	R	emarks		
		HAMMER			I bluter	915	7-1	11/12/	n .		
	FALL 30	-	# FALL		11/11/00	- 7	212,	tehilo Hand	Higging		
RILLER	ſ) 00 1		1	ì						
S :CTOR	<u> </u>	Osuch			<u> </u>						
: :CION	Y) Kowe					1		1		
CASING	<u> </u>	SPOON	RE-	1 SAMP.2	<u> </u>	3C A	MDI E DE	SCRIPTION AND REMAR	Ve .		
JASING .(/S/FT.	DEPTH	BLOWS/6"	COA.D	NO.				TES CHANGE OF PROFIL			
	0 1	74. / n.	6.11	1	N4 C	/, C	1. 0	16 15			
and		Have Auga	1 FU!	- 1	TAIGE I-I	11-1-120	21 5 / 2	and, Graud, ETC			
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Ψ	<u> </u>	V		ļ <u></u>	P- Black G	ray Savol	, tr.BI	mek 5111T			
1 lau		6-4		10							
S) in		3-3	16"	14	₽ Brown						
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- 1		6-7	184	15	Sam	0-	-				
	10		+	 		<u></u>					
	 	8 1/2		6	<u> </u>						
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		6-7	,	,	T						
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N.		8-12	- 24	<u> </u>	Sam	<u>u</u>					
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			l	Ì	L S	<u>#</u> _ ,2	24	Sacol, 5th 1,2	Jo BOT-STUY		
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,	→ 23 ◀			 	<u> </u>						

NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used
2 — U = undisturbed; A = auger; OER = open end rod; V = vane
3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

PROJECT:	Port Ivon	, PXGSIT	<u> </u>		1. //.
ORING No.	STOIL	2B DNove			PID Model: Mini RBE
FIELD READ	INGS BY:	Drove	~~~~	HOO STORES STATE	PID Model: MINI 1885
TIME	SAMPLE No.	IN-SITU Split Spoon Reading	HEAD- Space Reading	BREATHING Zone Reading	REMARKS
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1	3		00		
	· Y		. 0.0		
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	6		00		
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		<u> </u>	Sheet	3 of 3
PROJECT: PORT IVORY PAGE	5,7Q			
PROJECT: PORT IVORY PAGE LOCATION: EST Bay, Bldg 20		DATE:	11/19/ec	
BORING No: STAW 3B	TOTAL No. OF SA	MPLES: 3	Soil	
SIGNATURE OF ALL	•			
PRESENT AT SAMPLING		100000000000000000000000000000000000000	888888888888888888888888888888888888888	888888888888888888888888
RELINQUISHED	DATE 11/11/00	RECEIVED		
BY (SIGN)	TIME	BY (SIGN)		
RELINQUISHED	DATE	RECEIVED		
J3Y (SIGN)	TIME	BY (SIGN)		
	DATE	RECEIVED		<u> Printipii in titti tit</u>
BY (SIGN)	TIME	BY LAB		
REMARKS:				
	2-1/	- 1 , 0		
St John Scampages Ju	2-16 og sju	-0-1-	Ja Ja	Jach
	<u>/</u> _			
TosT 5-1-3		<u> </u>		
TOHCT PP-+40 TH/m	Tal, Ph	oil Gr.	RAST	
Do NOT TOST SA 3	at this	Tim.		
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Engineering Department Construction Division **Materials Engineering Section**

BORING REPORT

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	.un 7	, n	3/5		A L. A A	LE HOL	= + TPE		Date	Time	GR0 Depth	DUND WAT	ER LEVEL		narks		\dashv
L	MER C	o.o. 2 Safety	18	1.0.	Auger HAMMER	51 1	·	1	Date	inne	Dehtti			nen	natko		\dashv
	₹	FALL	30	- 1		# FALL	-		11-17-00	11:20	7.01	Sam	nple#	4			
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N	ECTOR			rks											, <u></u>	· - ,	
C/	ASING		- 1	S	POON	RE-	SAMP.	2					N AND REM				
L -	MS/FT.	DEPTI			DWS/6"	COV'D	NO.	+		<u>u</u>		TES CHAN	IGE OF PRO	UHILE	<u>:</u> -	<u> </u>	<u>o'</u>
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		1			1				Fill greyish.	black C-	TON YOU	vravel	, a 311, Cir	lers	wood seel	<u> </u>	1.3
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NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used
2 — U = undisturbed; A = auger; OER = open end rod; V = vane
3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

PROJECT:	Port Ivory	PEG			
BORING No.) 1			DATE: 11 -17-00
FIELD READ	INGS BY:	Z			PID Model: Mini Rac
] JIME	SAMPLE No.	IN-SITU Split Spoon Reading	HEAD- Space Reading	BREATHING Zone Reading	REMARKS
I AM		0.0	0,0	6.0	
1	2	0.0	0.0	0.0	
	3	0.0	0.0	00	
•	4	0:0	. 0.0	0.0	
·	5	0.0	0,0	0.0	
	Ь	0.0	0.0	0.0	
	7	0,0	0.0		
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ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION CHAIN OF CUSTODY RECORD

of3 Sheet 3 PROJECT: Port Ivory Blog 12 & blog 13 wat 1 LOCATION: 40 1/4 DATE: TOTAL No. OF SAMPLES: **BORING No:** SIGNATURE OF ALL PRESENT AT SAMPLING RELINQUISHED DATE 11-17-00 **RECEIVED** TIME BY (SIGN) BY (SIGN) DATE RELINQUISHED **RECEIVED** BY (SIGN) TIME BY (SIGN) DATE **RECEIVED** RELINQUISHED BY (SIGN) TIME BY LAB **REMARKS:** TPHC, PP+40, TAL metal, PH

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BORING REPORT

			•						SHEET 1 OF 3
I JECT	_		- 2		NAME OF CONT			BORING NO.	SURFACE ELEV.
Port	Ivory	P&G			Craig d	rillina	İ	FS-2	
CATION	J		01 '		. J	J	Ţ	CONTRACT NO.	DATE
<u>: 5</u>	o' NE ol	Blog 12	block	1400	Lot 1			426-99-006	11-17-00
NOO48		OASING SI	ZE HOLE	TYPE			GRO	UND WATER LEVEL	
<u> </u>	•o.o. 2 3/6 Safety	HAMMER	rs		Date	Time	Depth	Re	marks
I MER								1 11 1	
1-10	# FALL J	50 -	FALL		11-17-00	PM	7.0	Sample#4	
DRILLER	$\subset D$				3,	•	'	' ' '	,
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040000		ARKS	l p= -	00000	,			ACDIDATION AND DESIGN	···
CASING		SPOON BLOWS/6"	RE- 1	SAMP.2 NO.				SCRIPTION AND REMARK TES CHANGE OF PROFIL	-
=		HANDAUCE						ack DGABC	
			, ,,,,,						
İ		9		·	BALLA	ST - Cr	ushed	Rack	2.0
	 		<u> </u>						
·		 	-	0 *	full red-p	rown_C	<u>:</u> -‡ S	AND tr. Gravel	<u>, te->111</u>
_				/ کر*	Same.		1		,
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-	→ 5 •	 	 	7	<u></u>				
4		1 4	1	3	SAME				
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FM		 ~ ~ ~		/.					:
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- †	 	1	0/1	5	CANA				,
<u> </u>	10	9.10	24"	<u> </u>	<u>Sam</u>	ك	MAP A	vood splinters)	
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		8 - 25	20"	الم	SAM	<u> </u>	with r	vaoel_)	
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- · 		1	2411	7	[]	0 01	NYO	Gravel tr. Si	<u> </u>
- +	+ -	38-25	<u> </u>	-/	Till grey	5-1-5H	TAT K	<u> </u>	∐ <u>₩₽₽</u> ₩
	15	20 - 12		0					
	15.	18 - 27	20"	8	SAMI			·	
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NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used 2 — U = undisturbed; A = auger; OER = open end rod; V = vane 3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

'ROJECT:	Port Ivoru	P& G	·		
BORING No.					PID Model: Mini Rae
TELD READ	000000000000000000000000000000000000000	. Z			Pro Model: [1[h] NAC
TIME	SAMPLE No.	IN-SITU Split Spoon Reading	HEAD- Space Reading	BREATHING Zone Reading	REMARKS
	1 .	0.0	ی. ۵	0.0	
	2	0.0	0.0	0.0	
	3	0.0	0.0	0.0	·
	4.	00	0.0	0.0	
•	5	0.0	0.0	0.0	
	6	00	0.0	0.0	
	7	0.0	0.0	0,0	
	8	0.0	0.0	0.0	
	9	0.0	0.0	0.0	
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g 11					·
	•				· · · · · · · · · · · · · · · · · · ·

			Sheet	3 of 3
PROJECT: Port Ivory	P&G			
LOCATION: +50 NE & B	ldg 12 Block 1400	64 DATE: 11-17-	- 00	
BORING No: FS &	TOTAL No. O	/		
SIGNATURE OF ALL PRESENT AT SAMPLING	and			
THE SERVICE OF THE SE	300000000000000000000000000000000000000	888888888888888888888888888888888888888	28888888888	000000000000000000000000000000000000000
RELINQUISHED	DATE 11-1	7-00 RECEIVED		
BY (SIGN)	~ TIME	BY (SIGN)	xxxxxxxx	000000000000000000000000000000000000000
RELINQUISHED	DATE	RECEIVED		
IRA (21CM)	TIME	BY (SIGN)		
RELINQUISHED	DATE	RECEIVED		
BY (SIGN)	TIME	BY LAB		
SAMPle # 2	$\frac{10 2 - 1602}{5539A}$	jat † 1-20z jar	<u>each</u>	
Test parameters: T	PHC; PP+4	o, TAL metals,	 РН,_	oil & gree
		~		
			<u> </u>	

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BORING REPORT

											SHEEL 1 OF 3	
JECT						N/	AME OF CONTI	RACTOR		BORING NO.	SURFACE ELEV.	
Q) 1	_	$P \in G$	\cap		"	^			1 10 0/2		
	ort	וסע	cy P&	_T		<u>L</u> _	Craig !	arilling		1 - 2 - 2)		
OCATION	1 1		J	6	1.1		7	J		CONTRACT NO.	DATE	
	As la	لمند	out in	the Li	elal			426-99-006 11-15-00				
NC		مديم	CASING SI	ZE HOLE	TYPE				GP/	OUND WATER LEVEL		
	_ 4	3/n	1.D. Auger				Date	Time	Depth		· · · · ·	
3 0	D.D. 2	Rei	marks									
FMER ,			HAMMER	- 11 -	1							
10 #	FALL	j										
RILLER	~	Sample # 5										
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ECTOR	٦.	7	1		. 1		ļ				İ	
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CASING	7		SPOON	RE- 1	SAMP.2	Г		3SA	MPLE DE	SCRIPTION AND REMARK	s	
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	Γ_					Γ		J	7			
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	 			 	{	 - -	<u> </u>	<u>samples</u>	were.	screened with	I'll meters /	
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NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used
2 — U = undisturbed; A = auger; OER = open end rod; V = vane
3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

ROJECT:	Port Ivori	P. D. G	<u></u>			
BORING No.	FS-X	3 P. & G	·		DATE: - 5	5-00
FIELD READ	INGS BY:	τ̈Z			PID Model: Mini	Kae
TIME	SAMPLE No.	IN-SITU Split Spoon Reading	HEAD- Space Reading	BREATHING Zone Reading		REMARKS
AM	1 -		Ø. O			· ·
	2		0.0			
	3		0.0			
	4	·	0.0			
	5		0.0			
<u> </u>	6		0,0	· · · · · · · · · · · · · · · · · · ·		
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		Sheet 3 of 3	
PROJECT: Port Ivory P&G			
LOCATION: As laid out in the	field.	DATE: 11-15-00	
BORING No: FS-9/3	TOTAL No.	OF SAMPLES: 3	
PRESENT AT SAMPLING			
RELINQUISHED K	DATE -	15-00 RECEIVED	
3Y (SIGN)	TIME	BY (SIGN)	8888888
RELINQUISHED	DATE	RECEIVED	
, 3Y (SIGN)	TIME	BY (SIGN)	
RELINQUISHED	DATE	RECEIVED	
BY (SIGN)	TIME	BY LAB	
•		ars each & 1 202 jan each TPHC, PP+40, TAL metals, PH,	oily gra
1 1	ald.		
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THE PORT AUTHORITY OF MYS MJ

Engineering Department Construction Division **Materials Engineering Section**

BORING REPORT

												SHEET 1 OF 3
R ECT	้อ	LT	Vory	D (0 /	7		NAME OF CONTR	1 (1)		BORING NO.	SURFACE ELEV.
OCATIO	<u>[[0]</u>	rt 1	-Vory	<u>P</u>	<u> </u>	7	···	Craig a	<u>arillink</u>	}	FS-4	DATE
	As	laid	lout	in H	ስ የ	\mathcal{E}^{i}	eld	0	•	•	426-99-006	11-15 -00
PUUN		3/	9	ASING SI	ZE I	HOLE	TYPE			GRO	OUND WATER LEVEL	
3 WER	*O.D	270	3 "I.D. #	LUCIET!	<u>s</u>			Date	Time	Depth	Re	marks
		Z	0		FAL			11-15-00	1. LAPM	8.0	Sample #5	(top)
1. O					FAL	<u>-</u>		11-12-00	1,		Sample & S	9//
		ט.ט	such			_						
N ECT	OR	7	Zark	·c								
CASIN	G	7.	SP	00N	R	E- 1	SAMP.2	<u> </u>	3SAI	MPLE DE	SCRIPTION AND REMARK	(S
L NS/	FT.	DEPTH		**************************************		V'D Rec	NO.			IE LOCA	TES CHANGE OF PROFIL	E 0.0 .
1	tube n	• . - .	нан	AUCER		rue c	*					
				1			1	Fill grey o	1A2 2 -:	W and	d Growel tr. SII	<u> </u>
		-						7-2-	7			
		-					2		LI	129	All a sur Conval to	sill cinders coal , we
				1		-	~	Till greyis	D - DIOCK	<u></u>	INTA POLICE PICE A ENTINE	elli-tillibreia , see , see
		- 5		+	-	-	3	6 4 11 5				
<u> </u>				<u> </u>	<u> </u>	<u> </u>		SAME				
EM		_	4-	5	-		/.					
MUGE		_	5	-5_	<u></u>	4"	4	SAM	<u>E</u>			
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		_	9.	. 9	2	ام	5	SAME	()	/ [
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- †		_		1	 	H	6	SAME				
			8-	6	8	.		SAME	(<u>w</u> o	.ed_) .		
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4.		_	4.	-4		Z*1		SAME				<u>µ</u> , 0
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¥		1.3	. 2	- 2	1 2	o"	8	Brown	Peak	-tr. 0	ry silly CLAY	160
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		- 20	-		-		-	and	disca	roled.	B	ottom of Boring
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NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used 2 — U = undisturbed; A = auger; OER = open end rod; V = vane 3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

- 4	017	O O	<u>C</u>				<u></u>
PROJECT:	Port Lyon	ry P.&	<u> </u>		DATE:	11 _ 1	5-00
DRING No.	+5-4				DATE: PID Model:	M:-	Roc
FIELD READ		. Z			I ID Model.	III	100
	SAMPLE	IN-SITU Split Spoon	HEAD- Space Reading	BREATHING Zone Reading			REMARKS
TIME	No.	Reading	neading	tteamig			
MA	1 .		0.0				
	2		0.0	•			
	3		0.0				
PM	4		0.0				
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			Sheet 3 of	3
PROJECT: Port Ivory P&	G			
	the field.	DATE: 11 - 15	-00	
BORING No: FS-4	TOTAL No. 0	F SAMPLES: 1		
PRESENT AT SAMPLING				
RELINQUISHED W	DATE \ -	5.00RECEIVED		
3Y (SIGN)	TIME	BY (SIGN)	988838888888888888	500000000000
RELINQUISHED	DATE	RECEIVED		
3Y (SIGN)	TIME	BY (SIGN)		
RELINQUISHED	DATE	RECEIVED		
BY (SIGN)	TIME	BY LAB		
each. Tests to be performed	r testing 2-		21-20	zjar
3oth sample#122:TPHC, PP	+40 1ALm	etals, PH, oil &	Grease.	
Sample #8 On	hold.		<u></u>	
	· · · · · · · · · · · · · · · · · · ·			

THE PORT AUTHORITY OF RYSKY

Engineering Department Construction Division **Materials Engineering Section**

BORING REPORT

					SHEET OF "3								
JECT				PLG	NAME OF CONTRACTOR BORING NO. SURFACE ELEV.								
	land H	ook, Port	24014	اج رک	Craig Dalling FS-6								
OCATION	<u> </u>	of Buildin	. 0	<u> </u>	CONTRACT NO. DATE								
	North a	or Sunan	~~ `	5 ~	426-99-006 11)24/2000								
ИС	2,	CASING SE	ZE HOLE	TYPE	GROUND WATER LEVEL								
<u> </u>	D.D. 278	CASING SL S'I.D. August HAMMER	s l		Date Time Depth Remarks								
MER	Co Petr	HAMMER			11/24/2000 1530 4.0								
10 #	FALL SORY	30 -	FALL		11/24/2009 1330 4.0								
RILLER		/ l/e		Ì									
: <u> </u>	Jav14	Cooks											
ECTOR	Madhu	Patel		[
CASING		SPOON	RE- 1	SAMP.2	SAMPLE DESCRIPTION AND REMARKS								
NS/FT.	DEPTH	BLOWS/6"	COA.D	NO.	LINE LOCATES CHANGE OF PROFILE O. U								
1 :				١,	Asphall-								
lgrider		Hand Augar	Ry	 	Black & Brusy emf SAMD, trace Silt y stone, grad, Ret								
	_ 1 _		1	ے	Yellowish Brown Emf SAKD, trace Silt &								
	trace clay												
1	5			3	Wet SAME								
1			1,										
·low		16,16	٧,"	,	Yellowish Brown cmf SAND, little Silt trace								
stem Je	1 1	18:18	27	4	clay								
	3 -	4, 8	24"		SAME								
1		11, 12	•	/	Red Silty Chay, trace & SAND, trace & Gravel e								
	10			7	Bothum of the Hole at 10.0								
				16, 10									
				,									
. 61				, .	All Samples are checked for PID								
			\		meter. Sample 1 and 3 are saved								
				1									
·	 		 	1									
· · · · · · · · ·	<u> </u>			ļ	Remaining sample discarded.								
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NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used 2 — U = undisturbed; A = auger; OER = open end rod; V = vane 3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

PROJECT: /	lower has	k, Paq. 2v	on Pta	s, t	
ORING No.	T=5.	-6	7 %		PID Model: Nive PAT
FIELD READ!		Madhu	Patel		PID Model: MINI PAT
		IN-SITU	HEAD-	BREATHING	
	SAMPLE	Split Spoon	Space	Zone Reading	REMARKS
TIME	No.	Reading	Reading .		
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1530	ર		0	<u>ව .</u>	
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				Sheet 3 of 3
PROJECT:	Howare Hork , Port 1	Iven		
LOCATION:	Nort of Bulding 5	2	DATE: 11/2	4/0
BORING No:	FS-6	TOTAL No. OF SA	AMPLES: 6 2	- Sc. 1
	All Godh m Pa			
SIGNATURE OF	ALL Madhim sa			
PRESENT AT SA	AMPLING			
RELINQUISHED	Harry	DATE	RECEIVED	
BY (SIGN)	30000000000000000000000000000000000000	TIME	BY (SIGN)	::::::::::::::::::::::::::::::::::::::
 relinquished		DATE	RECEIVED	
BY (SIGN)		TIME	BY (SIGN)	
RELINQUISHED		DATE	RECEIVED	
BY (SIGN)		TIME	BY LAB	Militaria Menorales
REMARKS:		Jours.	e collectue ead	l - 2-1602
<u> </u>	somple # 1 -	pepH.	1-21,	
<u> </u>	Sompl +2	Depu-	2-4	
Par	ramelus - TPH	C, TCL	(VO, SVO, F	melds and PCRS
· · -	PH,	oil and	greare.	
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THE PORT AUTHORITY OF MY & MJ

Engineering Department Construction Division **Materials Engineering Section**

BORING REPORT

														SHEET OF 2	
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	P	oul 1	Ì۷ø	uy P+6 s	ो	2	•	1 C	VALC.	Duilli	rf.	F	·S-7		
OCA	LIUR			RL2 55					· • · · · · ·	·	0		RACT NO. 5-99-00 (DATE 12/1 00	
S 6					7F	HOLE	TYPE				<u> </u>			L	\dashv
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	MER	بد .ن.	10	HAMMER	<u> </u>		<u> </u>							No. Pos	ᅱ
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· 4	ECTOR					 -				 		_			\exists
		Charl	:L	- Spring	ĵeί	,				<u> </u>					
	SING VS/FT.	DEPTH		SPOON BLOWS/6"		₹E- 1	SAMP.						TION AND REMARK		
		DEF 11	4	··			NO.	(LINE LUCA	IES C	HANGE OF PROFILE	.55′	\dashv
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NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used
2 — U = undisturbed; A = auger; OER = open end rod; V = vane
3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

PROJECT:	POUT I	Vouy P+	45170			15/11/2 >
BORING No.	ドミ	3-7			DATE:	12/1/00
FIELD READ	INGS BY:	Charlie	Springer	,	PID Model:	Mins-RAQ
		IN-SITU	HEAD-	BREATHING		DEMARKS
	SAMPLE	Split Spoon Reading	Space Reading	Zone Reading		REMARKS
**************************************	No #2	neading	6 CHS	1100009		
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0850	¥S		<u> </u>			
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ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION CHAIN OF CUSTODY RECORD

PROJECT: POUT IVOUY P+6 SITE LOCATION: WOSTOF BLD SS 12/1/00 DATE: **BORING No:** TOTAL No. OF SAMPLES: SIGNATURE OF ALL PRESENT AT SAMPLING **DATE** RELINQUISHED **RECEIVED** BY (SIGN) TIME BY (SIGN) DATE RELINQUISHED **RECEIVED** BY (SIGN) TIME BY (SIGN) DATE RELINQUISHED **RECEIVED** TIME BY LAB BY (SIGN) **REMARKS:** Sample 5 #2+5 in 2:1602 and 1:202 ANALIZE: 2+5 FON TPHC, PP740, tolnoths
PH, OIL+ CLESSE

Engineering Department Construction Division **Materials Engineering Section**

BORING REPORT

					•				SHEET / OF 3
JECT	الصيا	Rach	a l Ox	l cat	NAME OF CONTI	_		BORING NO. FS8	SURFACE ELEV.
104 OCATION	VLYNY HO	x, Poer Iva	LY THE		CAMIG 1	RILLING		T > 8 CONTRACT NO.	DATE,
NORT		NG G7N	- 1					426-99-006	11/22/00
3 .	.ь.23/8	CASING SIL	ZE HOLE	ITPE	Date	Time	GRO Depth	OUND WATER LEVEL	emarks
MER	SHET	HAMMER	FALL		11/22/00	60111	8.0	FROM SPUT S	900 N
RILLER	AA		FALL				 -		
ECTOR.	- MUL	ZNX				····			
	an 1)AVIS						-	
CASING WS/FT.	DEPTH	SPOON BLOWS/6"	RE- 1 COV'D	SAMP. ² NO.				SCRIPTION AND REMARITES CHANGE OF PROFIL	
P		HAND	Four	1,*	FILL-ORANG	E/BRUG	VN FI	VE TO MEDIUM	SAND, TRACE SICT
hibal		AVGER		1					_ <
1				2	SAME	- 			
	- 5 -			3	SAME	, - <u> </u>		· · · · · · · · · · · · · · · · · · ·	
<u> </u>		W	₩						
tel.		4 5	1.3	4	SAME	<u> </u>			
		5 5	10	<u> </u>	6 200	700			NE 52 4000
-		66	1,2	5	THE OLENNE	113/4	TALE I	ND BROWN F	WE TOWED
	- 10 -	9 12	14	/ 1	SAME	7-7-15	THE T	2/61	
<i>f</i>	-	67	111	6 B	1/6000	- -			
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				1		tu SA	— — — mples	CHECKED WOH	PID METER
	20 -							IED FOR ENVIRON	
	- 10				7	EMAMI	NG SM	neles Discargi	
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100	15								

NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used
2 — U = undisturbed; A = auger; OER = open end rod; V = vane
3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

Sheet Z of 3

DRO IECT.	Harb MAD	Hook Pa	at WORY	P\$ 6	SITE		
RORING No.	FLO	Hook Po	- 		DATE:	11/22/00	
EE D READ	NGS BY: VA	N DAVIS			PID Model:	MINI RAF	000000000000
	710		HEAD-	BREATHING			
TIME	SAMPLE No.	IN-SITU Split Spoon Reading	Space Reading	Zone Reading		REMARKS	
19m			D. D				
1711	7		00				
	2		O_iD				
	11		0,0				
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					Sheet S of S
PROJECT:	HOWLAND	Hoor,	PORT WORK	P&G SHE	
LOCATION:	NORTH OF	,	67 (N)	DATE: () 22	00
BORING No:	M / C A		TOTAL No.	OF SAMPLES:	501-
SIGNATURE OF	(/	IL		********************************	
RELINQUISHED			DATE	RECEIVED	***************************************
BY (SIGN)			TIME	BY (SIGN)	•
888888888888888888	8888885×408885×485888	1888 P. C. 4888 8898 88	8888888888888888888888	88688888888888888888888888	98888888888888888888888888888888888888
RELINQUISHED)		DATE	RECEIVED	
BY (SIGN)		100000000000000000000000000000000000000	TIME	BY (SIGN)	
RELINQUISHED)	·	DATE	RECEIVED	
BY (SIGN)			TIME	BY LAB	
REMARKS:					
	1 Som	Symple	N 2-1	602 AND 1-2	JARS
	Some #	-1 - 1	BT FOR	TPHC PP+40	with TAL metals
			all and	greuse	
			i m	J	
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THE PORT AUTHORITY OF MY & NU

Engineering Department Construction Division Materials Engineering Section

BORING REPORT

,									SHEET / OF 3
JECT					NAME OF CONTI	RACTOR		BORING NO.	SURFACE ELEV.
1750	octor s	& GAM	BLÉ		CRAIC	7	[FILL-Z	
CATION			· · · · · · · · · · · · · · · · · · ·					CONTRACT NO.	DATE
AS 1	MARKET	> out IN	THE	FIELD	RYKIL	LIAM A	ssoc.	426-99-006	11-3-00
NO		CASING S	SIZE HOLE	TYPE			GRO	UND WATER LEVEL	
<u> </u>	.o. 278 abety)	CASING S TI.D. H.S. A. HAMMER	gers		Date	Time	Depth		Remarks
MER (S	afety)	HAMMER		1		_	111	()	att 2
/U #	FALL :	30 .	# FALL		11-3	Am	4.1'	fourd in	242
ECTOR	ک'ک	Pennell							
	М.	Oudel							
ASING #S/FT.	DEPTH	SPOON BLOWS/6"	RE- 1	SAMP.2 NO.				CRIPTION AND REMA ES CHANGE OF PROF	
	► "⁄′′′′≺	BLOW3/0	1001	110.		Aspho	H Vau		00
٥.	$_{-}$ \cup $_{-}$	HAND	Full	 	<u></u>	ceve	HED I	Bock	
,98rs		AUGER	Full	1	Fill dayle	train c	SANT	some Gravel, tre	10 Silt frew cousted Po
				2	Fill- Drow	r c-f	SAND,	race Gravel, -	trace Silt
	►S < 	1							
		4-4	20"		Fill-		5 A	ME	
1		1 /	100	3				<u></u>	
		6-7		ļ	<u> </u>				
		5-6	∂o"		Fill-		54	nn E	
	► 10 -	10-12		4			_ _		
 		1	1	 	 	- '			
+		8-11	24"	5	jeju-		_ <u>5</u> A	<u>mE</u>	
\perp 1		14-17	' '	ا ا		r			
			21/11	,	Fill-	Z		AME	
1		10-10	124"	ا في ا	F166-		2	MMC	
▼		13.15		1	<u> </u>	- 7			
		9-11	Jy"		Fill-	\	<	AMÉ	
	- 15 -	1	101	7				LL:: We	
	'_	18-22	+	 	ļ				16.0
									Bottom
			-	1					
-				1				— — <i>7</i> — —	of boring _
		}			1 A1 5	an plas	Wese	Soved JAR.	v u
	> 20 <		1	 			ے متابتہ ہے۔ میں میں		
		 	 	-	In Z	ort pt.	_ <u>//4~</u> >_	- 1 4 oz JAR.	
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	 -		 '	1					
				1					
}	20	1	1	}	1			_	
h		L		1	1				

NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used
2 — U = undisturbed; A = auger; OER = open end rod; V = vane
3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

Sheet 7 of 3

ROJECT: PROCTOR & GANBLE										
BORING No.		2	······································		PID Model: Mini RAE					
TELD READ	INGS BY: /	f. OUDEH			PID Model: Ain IZAE					
TIME	SAMPLE No.	IN-SITU Split Spoon Reading	HEAD- Space Reading	BREATHING Zone Reading	REMARKS					
Am	1.	-	0	0						
<u> </u>	2		0	0.	·					
	3		0	0	·					
	4		· 0	O						
	5	_	O	0						
Pm	6		O	0	·					
	7		V	0						
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ENGINEERING DEPARTMENT
MATERIALS ENGINEERING DIVISION
CHAIN OF CUSTODY RECORD

Sheet 3 of 3 PROJECT: PRUCTOR & GAMBIE LOCATION: AS MARKED OUT BY KILLIAM ASSOCIATES DATE: FILL-2 **BORING No:** TOTAL No. OF SAMPLES: SIGNATURE OF ALL PRESENT AT SAMPLING DATE 11-3-00 RELINQUISHED 7 **RECEIVED** BY (SIGN) BY (SIGN) TIME RELINQUISHED DATE **RECEIVED** TIME BY (SIGN) BY (SIGN) **RECEIVED** RELINQUISHED DATE BY (SIGN) TIME BY LAB Somples to be saved for the following Para TPHC, TCL (VO, SVO, Metals and PCBs) pH **REMARKS:**

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Engineering Department Construction Division **Materials Engineering Section**

					BOHING I	KEPUKI			
		1000							SHEET OF
JECT HH-	P + 6				NAME OF CONT	RACTOR	B	FW#3	SURFACE ELEV.
OCATION				- /	V X	BLOCK 140		ONTRACT NO.	DATE /
slaud	lat,	ly Killia	n ask	soc (tiz part of	tankform	latural 4	26-99-006	11/4/80
ION	3/	CASING SI		TYPE	U		GROUI	ND WATER LEVEL	
3 10.1	D. 2/8		en 1		Date	Time	Depth	R	emarks
MER		HAMMER			7.1	10115	2-1	1 (#1)	
	-ALL 30) "	FALL	•	11/6/00	10:05A	7.5'	In 5#4	
RILLER	T. Crain				,				
PECTOR	T. Ra	3							
CASING OWS/FT.	DERTH	SPOON BLOWS/6"	RE- 1	SAMP.	2			RIPTION AND REMAR S CHANGE OF PROFIL	
	- 0 <	Hand	Tull		Mine Till-		TRO	SHED STONE	0,5
		augen	Rec.				- - ,		
				2	Same	u/ti	metal_		
	- _k -			2 Å	1 Do	D. C	75	sed a /	50'
	_		V			异危害	A SECTION	elt to Grow	
'iges	. : 	7-75		11	1 3an	Carried States			
0		1-27	17"			r			
		13-31			Sam				
	- 10 -	54-45	22"	5		` 	· 	·	
1	-	7-11		6	San	<u> </u>		-	
	_ _	18-31	20"		 			_ 	
	_ <u>-</u>	11-17	/堂"	7	Sen Sen	<u> </u>			<u> </u>
~		4-10	12'	8	San			<u> </u>	150'
	- 15 =		'			_ #			4
								Rotto	of Borry
						_ '			
									<u> </u>
	-				Moto:	Sanpl	6tt 1 - 1	were some	for testing all les discarded. Don Hold.
		<u> </u>			other sa	neles w	er scrée	and w/ \$10 47	the discarded.
				-	Samp	W#4	was a	aved & place	bon Hold.
				 	<u> </u>				
			ļ	1	·	<u> </u>			
			L	<u> </u>					

NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used 2 — U = undisturbed; A = auger; OER = open end rod; V = vane 3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

*- Tarks have been removed, foundation only exists.

ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

Sheet Z of 3

PROJECT:	HH-PE	96			· 		. 	
BORING No.	1	3	··		DATE:		100	
FIELD READ	INGS BY:	1.12a			PID Model:	₽	<u> 14 </u>	
	SAMPLE	IN-SITU Split Spoon	HEAD- Space	BREATHING Zone Reading		, .	REMARKS	,
TIME	No.	Reading	Reading	ricaumy				
PM 116100	<u> </u>		0.0					
Am	2		0.0					
1	3		5.0				<u> </u>	· · · · · · · · · · · · · · · · · · ·
	7		6.0					
	5		Ò.O					
	6		0.0					
	7		6.0				<u> </u>	
1/	8		0.0		: -	<u> </u>		
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ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION CHAIN OF CUSTODY RECORD

Sheet 3 of 3

PROJECT: H.H P&G			
LOCATION: (Is laid out by Kill	massoc.	DATE: 11/6/00	
BORING No: Refe Fill #3	TOTAL No.	OF SAMPLES: 4	
SIGNATURE OF ALL	0 /	1 100 000	
PRESENT AT SAMPLING	40-/N	AN DEXIVE	\$338888 <u>8</u>
RELINQUISHED	DATE	RECEIVED	•
BY (SIGN) T. /4	TIME	BY (SIGN)	88888888
RELINQUISHED	DATE	RECEIVED	
BY (SIGN)	TIME	BY (SIGN)	900000000000000000000000000000000000000
RELINQUISHED	DATE	RECEIVED	
BY (SIGN)	TIME	BY LAB	
Sample # 4 to le	-160z jans e put on	HOLD!	
5 0 + 11	-TD11a	Ta 1 011 :0:0	
Jamples tested for	IPAC,	TCL, PH, oil & Grease	
	·		· · · · · ·
	· · · · · · · · · · · · · · · · · · ·	·	

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Engineering Department Construction Division Materials Engineering Section

	BORING REPORT	SHEET / OF
JECT HH-PEG- DOCATION	NAME OF CONTRACTOR Cray HU # 4	SURFACE ELEV.
is laid out by Katlan Classon (BLOCK CONTRACT NO. 1900 Y 26-99-006 GROUND WATER LEVEL	
3 -0.D. 23/8 -1.D. Queens(HS) 1	11/100 1:40 fm 5.9' In 8#	Remarks
140# FALL 30 - # FALL .	11/ 100 1:42 pm 5.9 Jm 5"	
ECTOR T. Ra		
CASING SPOON RE- 1 SAMP BLOWS/6" COV'D NO.	LINE LOCATES CHANGE OF PR	MARKS (Gover Covered)
Hand Jull auger Rec	Fill-Circles Sand, little Br, little	Glaso'
7 2	Same	
3	Samo Till-BAM-F Said little selt, to Grovel	5.0'
icus 2-3 4	Same	
1-1 2-2 17"	By FSad pour Selt, some Plant febre By M. FSad, to Seet, to Gravel	
10 1-2 13" 6	Same	
10-15	Sone	
11-15 24" 7	Sand	/5-0'
	Botton	n of Boring
	Note: Samples # 1-5 were so testing. all other samples were	,
NOTES: 1 — Length recovered; 0" — Log 2 — U = undisturbed; A = aug 3 — Log depth of change in col	ass of Sample, T — Trap used per, OER = open end rod; V = vane or of wash water, loss of water, artesian water, sand heave in	raved & placed on hold, a casing, etc.

THE PORT AUTHORITY OF IN. T & IN.

ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

Sheet \geq of 3

	1111-0	2/			
PROJECT:	1.01#				DATE: // 6 /00
BORING No.	700	-0			PID Model: 8
FIELD READ	INGS BT:	T. Kya-			
ПМЕ	SAMPLE No.	IN-SITU Split Spoon Reading	HEAD- Space Reading	BREATHING Zone Reading	REMARKS
PM	1 -		0.0		
	2		0.0	`	
	3		0.0		
	4.		. 0.0		
	5		0.0		
	6		0.0		
	7		0.0		
V	8		0.0		
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ENGINEERING DEPARTMENT
MATERIALS ENGINEERING DIVISION
CHAIN OF CUSTODY RECORD

Sheet 3 of 3 PROJECT: DATE: 00 **BORING No:** TOTAL No. OF SAMPLES: SIGNATURE OF ALL PRESENT AT SAMPLING DATE ///6 RELINQUISHED **RECEIVED** T.K. BY (SIGN) TIME BY (SIGN) RELINQUISHED DATE **RECEIVED** BY (SIGN) TIME BY (SIGN) RELINQUISHED **DATE RECEIVED** BY LAB BY (SIGN) TIME TPHC, TCL, PH, oil & brease

Engineering Department Construction Division Materials Engineering Section

-	~			ORT
K (1)	KI	MI -	X	

														SHEET OF 3
<u> </u>	ECT							N/	AME OF CONT	RACTOR		BOR	ING NO.	SURFACE ELEV.
۱,	rt I	Vori	, F) } (` 7			1	Crain d	rilling		Fi	11 5	,
)C/	ATION	7 9	<u> </u>		· .	··			j	j		CON	TRACT NO.	DATE
•	80	E o	ol B	da 12	- Bloc	k 140	o Lot	-1	•	•		42	16-99-006	11-18-00
5	H		1	ა c	ASING SIZ	E HOLE	TYPE				GRO		WATER LEVEL	
-	3 "	D.D.	278	*1.D.	lugers	5 1	1		Date	Time	Depth		Rer	narks
4	IER	Safet	.ч	Н	AMMER							, [D 11 d	
4	2 #	FALL	3	0	#	FALL			11-18-00	12:30 19	7.5	′	Bottom of	Sounble # 4
RULER -										7		,	1 ,	
_		Jav	ne S	Fil	ich							\perp		
•	ECTOR	7	7	1	i		l				-	- (
			<u>. </u>	arks	·	 -	لـــــــــــــــــــــــــــــــــــــ	,	<u> </u>		L			
CA	SING VS/FT.	DE	PTH .		DON NS/6"	RE- 1	SAMP.2						PTION AND REMARK	
	45/FI.		ნ"⊲		AU GER	Full Rec	NO.	⊬					CHANGE OF PROFILE	
· 	Jourge			HAND	T' GEK	rull rec		Ŀ		Crust	red. Ko	CK.	*DGABC	0.5
	1				1		,	ī	il _grenis	1	- Oc	in a), little Bravel tr.	lift ainda
-	†				 			╀	்ரு –செனிர	eν−promp	-0-1-3	HIV	Y' in it prover ter	Sili Cinder
_	↓	<u> </u>					*	L						
	1.	ŀ					٦	P	John II	hrown	29 0	INA	Ditr bravel to S	ilt wood.
	1					-	~_	+-	m readist	7-010011		77.0	ent viscosini	
	├ ─	▶ :	5 . ◀	 		 	_	L						
	↓			}	↓	↓	3		$\leq A$	ME				
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ч	GERC	<u>L</u>		6 -	6	20"	4	止	ill brow	N C- [.	<u>SAINU</u>	$\frac{1}{1}$	Gravel to Silt w	ith bl. organic fibers
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•	1	\vdash	-	7-	<u> </u>		5	┢	7 4 4 7					
	- 	> 1	0	3-	5	20		L	SAME	-				
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		_				18x			SAME		- -			
	┪				- 11	10	.6	┼-	JAITE	<u> </u>				
		L		11 -	13	-	,	ĺ			_			
	1				_	24"	7	5		~		7 9	BAND tr Grave	11-51
	 	-			-21	KH.		╁	Al Great	Drowr	r — e :	╁ ~`	יות של אור מו מניי	8-11
	<u> </u>	- 1	5 <	7-	- 10	<u></u>	o.	L						<u> </u>
	↓ 5		•	l in	- 13	2.4"	Ŏ	1	Trou C-	MAP9	D 1	tr.G	rated tr. Si	IT 16.0
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		L_		<u></u>				1	Jote: 25	amples	Save	d	for testing _	
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•		-		 			ł	\vdash	A	other 5	amples	_ <u>C</u> h	ecked w.	
		- 9	۰۵ ح					L	PID	meter 3	k _dis	CA	cded	
		1	٠ -					"					Botton	n of Boring
		 						\vdash						- 1 - 1 -
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-		 -	. —	- -				\vdash						
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NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used
2 — U = undisturbed; A = auger; OER = open end rod; V = vane
3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION CHAIN OF CUSTODY RECORD

		Sheet 3 of 3	
PROJECT: Port Ivory P&C)		
LOCATION: +180E of Bldg 12 -	Block 1400	Lot, DATE: 11-10-00	
BORING No: Fill 5	1	OF SAMPLES:	
PRESENT AT SAMPLING) .		
RELINQUISHED KA	DATE \1-	- 18-00 RECEIVED	عنبتت
BY (SIGN)	TIME	φ BY (SIGN)	88888
RELINQUISHED	DATE	RECEIVED	
BY (SIGN)	TIME	BY (SIGN)	
RELINQUISHED	DATE	RECEIVED	
BY (SIGN)	TIME	BY LAB	********
Sample # 2 &	L-1602 ja Sample #	ars & 1-20z jar each	
Test Parameters: TP	tc, PP+2	40, TAL metals PH, oil & great	<u>دد .</u>
1			
		<u> </u>	
	. ·	<u> </u>	

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Engineering Department Construction Division Materials Engineering Section

BORING REPORT

: 				· · · · ·					SHEET / OF
FCT VauT	YOUT IVORY PLG SITE					RACTOR	ļ	BORING NO. FULL-7	SURFACE ELEV.
DOTTION	LVOIY	160- 211-			Craig	Dr. lling		CONTRACT NO.	DATE
		Chipper CASING SI		1400	LOT 1			426-99-00B	12/4/00
	.,	•		TYPE		T	GRO	OUND WATER LEVEL	
3 10 # WER	D.D. 7/5	*I.D. HOUSE		$L_{}$	Date	Time	Depth		lemarks
	FALL 30	, ,	FALL		124	905	10.0	5×6	
RILLER			TALL			 	 		
ECTOR		S Burus				ļ			
F ECTOR		Oxocore						Í	
CASING	DEDYU	SPOON	RE- 1	SAMP.2				SCRIPTION AND REMAR	
. NS/FT.	DEPTH <	BLOWS/6"	COA.D	NO.	Con cre		NE LOCA	TES CHANGE OF PROFI	LE <u>00</u>
, ,		11 10	ļ						
! /		Hand Auger	FUI	1	Misc Fill	, Sand, O	maust C	redus, wood Sil	T/EIC
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types		11-7		5	<u> </u>				
	→ 10 →	4-3	90.		Same	2			10,0
		3-2	ļ	1	<u> </u>				
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		way							,
		lease	241	ア		sme_			
1-1		WOH-1	* 	-	— — <u>~ </u>	<u>~' ~~</u>			
	- 15 -		23"	8					
-{	<u>.</u> . <u></u>	2-2	3'		$- \frac{1}{2}$	ime_			
-}-		2-2	<u></u>	9	ļ				
		2-2	2411	(<u>S</u>	ane_			
		9-18		,					
		25-45	15"	10	Fill- Whillia	Patrone		Early Lillo Cod	las Tr Gravel
	> 20 <	7-3							-
		7-2	184	11	TU 1.1.	T 1 C	<u></u>		
V		 	16'		1-11-12-12-12-12-12-12-12-12-12-12-12-12	10 of Cra	4 Kra	Tamacacus Ear	<u> </u>
. ———		3-2	101	12 8		we			23.0
		1-/	18,1	$-\underline{\mathcal{B}}$	Brou	in Peat			240
	> 25		<u> </u>			<u> </u>		Bottom of Bori	NY

NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used

2 — U = undisturbed; A = auger; OER = open end rod; V = vane

3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

By Samples Checked with PID Meter 3th 336 Saued

for Entreme to the Romain in Sample Descented

ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

PROJECT:	Port Iu	ory PtG	Sile			15/1/	
BORING No.	Fi11-7	,			DATE:	12/4/ce MINI RAG	
FIELD READ		Plowe			PID Model:	MINI KHE	
		IN-SITU	HEAD-	BREATHING		REMARKS	
TIME_	SAMPLE No.	Split Spoon Reading	Space Reading	Zone Reading			
PM			0.0				
	2		0.0				,
	3		0.0				:
	4		. 0.0				
	5		0.0				
	6		ao				
	7		00				
	8		0.0				
	9		60				
	0		0.0				·
	. 1/		0.0				
	(2A		0.0				
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ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION CHAIN OF CUSTODY RECORD

Sheet 3 of 3

PROJECT:	PORT IVOI.	y PAGS	5,70	··		
LOCATION:	West of w	ood chipp	er!		DATE:	12/4/0c
BORING No:	Fi11-7			No. OF SAM	MPLES:	3501/
SIGNATURE OF	ALL					
PRESENT AT SA	MPLING	200000000000000000000000000000000000000	00000000000	300000000000000	************	
RELINQUISHED			DATE	12/4/0	RECEIVE	ED
BY (SIGN)			TIME	802602000	BY (SIG	N)
RELINQUISHED			DATE		RECEIVE	ED .
BY (SIGN)			TIME		BY (SIG	N)
RELINQUISHED		<u></u>	DATE	<u></u>	RECEIVE	ED ⁻
BY (SIGN)			TIME		BY LAB	
REMARKS:	-					
3 Sc	1 Samples	in 2	1602	Surf	1-200	for early
54	1, 3, 6					
Tos7	-Su TPX	1c, PP+4	c with	TALMe	Tols 14	oil & Grease
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THE PORT AUTHORITY OF MY & MU

Engineering Department Construction Division Materials Engineering Section 🚣

										SHEET OF 3
NECT					1 . A				BORING NO.	SURFACE ELEV.
(OY)	Lyon	PLC SITE			Craig Villing				F111-8	
OCATION	٠.		_						CONTRACT NO.	DATE
NU C	04NUV 07 5	Te, 75 South	of PA	MW-1		block	140c lo	<u> </u>	426-99-006	12/2/00
NON C	~31,	CASING SIZ	E HOLE	TYPE				GRO	OUND WATER LEVEL	
O CAMMER	.D. 0/8	"I.D. ALCEYS	1	<u> </u>		Date	Time	Depth	Re	emarks
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LLER	FALL 50		FALL			1010	11, 15-	70	Critice reason	BUSEVINY
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CASING		SPOON	RE- 1	SAMP.		<u> </u>	3SA	MPLE DE	SCRIPTION AND REMARI	KS
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Tom		1-1	19"	_ ′		F11-	Gray $ ho_0$	atam	1 COOLS Eatth	
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2-7-9		wood	23',	5	-		1716			
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	L <u>-</u>]			_ <u>S^/_/</u>	<u> 44</u> .	Saved COV ENU	ak TosJus _
. {						,	Roma	10,120	Samples asco	rdel
				[F				- Fire -	<u></u>
	>2<	 	L	L	1					

NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used
2 — U = undisturbed; A = auger; OER = open end rod; V = vane
3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

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ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

PROJECT:	POVI IVO	my PAG	SiTe			12 /2
BORING No.	F111-8				DATE:	NIN FOE
FIELD READ	INGS BY:	O Nove			PID Model:	JAINI FIDE
		IN-SITU	HEAD-	BREATHING		REMARKS
TIME	SAMPLE No.	Split Spoon Reading	Space Reading	Zone Reading		
PX	1.		0.0			
	2		0.0			
	3		0.0			
	4		. 0.0			
	7		0.c			
PM	6		0.0			
	7		0.0			
	8		0.0			
	91		0.0			
	98		0.0			
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ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION CHAIN OF CUSTODY RECORD

Sheet 3 of 3

		5.1300 7 6.7
PROJECT: PORT IVORY OFF SI	Te	
LOCATION: NW Corner of SITE, Scutho	f PAMUI	DATE: $12/2/cc$ MPLES: $2-5c_1/c$
BORING No: Fill-S	TOTAL No. OF SAM	MPLES: 2 Soil
SIGNATURÉ OF ALL		•
PRESENT AT SAMPLING	9888888888888888888888888	######################################
RELINQUISHED	DATE INZIN	RECEIVED
BY (SIGN)	TIME	BY (SIGN)
RELINQUISHED	DATE	RECEIVED
BY (SIGN)	TIME	BY (SIGN)
RELINQUISHED	DATE	RECEIVED
BY (SIGN)	TIME	BY LAB
		·
REMARKS:		
2 Soil Samples in 2	16 og Sun	+1-203 Janeach
2 Soil Samples in 2 3# 174	· · · · · · · · · · · · · · · · · · ·	
Tost for TPUC, PP+	1011176 TAIL	Notels Ph Oild Grasso
		30,11, 000422
		
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Engineering Department Construction Division Materials Engineering Section

										SHEET OF
ECT	- T	by P+4	C/\0		NAME OF CONT	RACTOR		BORING NO.		SURFACE ELEV.
To) N T 10	140	- 2116	-	Charge	Lulling		FIHO	ວ	
CATION								CONTRACT NO		DATE
	pouth o	F BUD -						426.99.0	104	12/1/00
NON	-3/c	CASING S	SIZE HOLE	TYPE			GRO	UND WATER		
<u> </u>	D.D. $2/Y$	ri.d. & uge	1		Date	Time	Depth		Re	emarks
WER #	FALL SLET	HAMMER		_	12/160	1025	5.8'			
RILLER	FALL		# FALL		''-					
	eff Cu	dis			İ					
		Springe	· ·							
CASING	1			SAMP.2		30.4	MDI E DEG	SCRIPTION AN	ID DEMADI	<u> </u>
VS/FT.	DEPTH	SPOON BLOWS/6"	RE- '	NO.	Si os i			ES CHANGE		
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Je J		5-23		4.	7	SLic	ht od	alc	7	4-Block -
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NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used
2 — U = undisturbed; A = auger; OER = open end rod; V = vane
3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

# ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

Sheet  $\supseteq$  of  $\supseteq$ 

000 ISCT:	POUT I	·VOV/	P+G-	site		
PROJECT:	<del></del>	11 -10			DATE:	12/1/00
BORING No. FIELD READ!	INGS RY	charlie	Shrincer		PID Model:	12/1/00 nivi RIE
חבנט הכאטו				BREATHING		
	SAMPLE	IN-SITU Split Spoon	HEAD- Space Reading	Zone Reading		REMARKS
TIME	No.	Reading	O. O. W.	House		
1000	2b.		0.00N			
1025	9					
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#### ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION CHAIN OF CUSTODY RECORD

Sheet 3 of 3 TUOUY PAGSITE PROJECT: LOCATION: South OF BLD 72 DATE: 12/1/00 Sel PJ11-10 **BORING No:** TOTAL No. OF SAMPLES: SIGNATURE OF ALL PRESENT AT SAMPLING RELINQUISHED DATE RECEIVED BY (SIGN) TIME BY (SIGN) DATE RELINQUISHED **RECEIVED** TIME BY (SIGN) BY (SIGN) DATE **RECEIVED** RELINQUISHED TIME BY (SIGN) BY LAB **REMARKS:** 26+4 Samples ANALIZO: 26+4 FUV; TPhc PP+40 v/ Nolmetals PHOIL+Greace

### THE PORT AUTHORITY OF MY & MU

Engineering Department Construction Division Materials Engineering Section

											Sincer O. C.
C	a .	1 / /			N/	ME OF CONT			BO	RING NO.	SURFACE ELEV.
You	ZT 1408	W SITE			1	2PMG 1	PRILLING	•	Pr	r FILL II	
<u> </u>		•								NTRACT NO.	DATE /
~ <b>-</b>	BUILDIN	16 70E						11/21/00			
<u>`</u> —	0010011	CASING SIZ	ZE HOLE	TYPE		· · · · · ·		176-99-006 D WATER LEVEL			
**	.D. 23/8	I.D. AUGER	.	1		Date	Remarks				
		HAMMER	<u> </u>	<del>*</del>		1 1	Time	Depth			
	FALL SAFO	·/	FALL	_		11/21/00		NOTICE		ED	
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TOM WARD											ì
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1	<u> </u>				ļ	l					
	DEPTH	SPOON BLOWS/6"	RE- 1	SAMP. ² NO.	1					IPTION AND REMAI CHANGE OF PROF	
		N.	COVB	NO.	┼						
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		Hard Auger	FULL	1	Ī						22-5
		newa Hugh	704	<del></del>	┶	- <u>Fill                                   </u>	DROWNE	t OFE	<u>N</u>	DUTY COST	PENSE_ HND AND GRAVEZ,
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NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used 2 — U = undisturbed; A = auger; OER = open end rod; V = vane 3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

# ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

	III A 10	Ilan O	nos word	PAI C	ITE
PROJECT:	110WYANY	11	PRT WORY	<u> </u>	DATE: 11/21/00
BORING No.	riu	10.1 00.1	. /		PID Model: MINI RAE
FIELD READ	INGS BY: ' \	MN DAV			
		IN-SITU	HEAD- Space	BREATHING Zone	REMARKS
TIME	SAMPLE No.	Split Spoon Reading	Reading .	Reading	
AM	1.		0.0		
3	2		0,0		
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ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION CHAIN OF CUSTODY RECORD

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Howkand Hoax		Sheet # of	4
	511E	3/1	
LOCATION: AS LAID ON BY	Kiugm	DATE: 11/21/0	
BORING No: [W]	TOTAL No. O	SAMPLES:	
SIGNATURE OF ALL	_		
PRESENT AT SAMPLING		30.000.000.000.000.000.000.000.000.000.	#88888888
RELINQUISHED	DATE	RECEIVED	
BY (SIGN)	TIME	BY (SIGN)	88888888888
RELINQUISHED	DATE	RECEIVED	
BY (SIGN)	TIME	BY (SIGN)	
RELINQUISHED	DATE	RECEIVED	<u> </u>
BY (SIGN)	TIME	BY LAB	
REMARKS: 2 SOIL SAMPLE	s N 2-16°2	PAND 1-202 JARS FACH	
TEST #1 AND 2	- FOR TOHC,	PP+40 WITH TAL METALS,	
		and grease	
	* )		
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Engineering Department Construction Division **Materials Engineering Section** 

		•								SHEET ) OF 3	
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OCATION	300	<del>-   -</del>			٠	-1-9V.9	<del>"</del>	CO	NTRACT NO.	DATE	i i
	of bldg	70 D Block	1332	Lot	•	1.	•	149	26-199-006	11-27-00	1
2 W	T	CASING SI	ZE HOLE	TYPE			GF		D WATER LEVEL		1
3 -	an 93/	8-1.0. Auge	r c	, 1		Date Time	Dept	$\overline{}$		narks	1
MER	Salety	8"I.D. Auge		<b></b>		<del> </del>	<del></del>		<del></del>		1
, O	FALL 3		FALL	. ]		11-27-00 1:10	20	<b>)</b>	Sample #2		1
RILLER			TIALL			11-27-00 10-10	7 70.0		Janpa HA		1
	A K	des		·			}	1			
ECTOR		7 1	<del></del>							<del></del>	1
	1	Larks		İ				- (			
CASING	」 →	SPOON	RE- 1	SAMP.2	Π	<del> </del>	SAMPLE D	ESCR	IPTION AND REMARK	s	1
NS/FT	. DEPTH	BLOWS/6"	COV'D	NO.		·		ATES	CHANGE OF PROFILE		
dange	~ 0 ~	U. Janes	Full Rec						CONCRETE	0,0	5
10		Hundgager			-				rushed Rock		<b>∔</b> `
	1			"	1	ill dock ores	12 9.2	GMA	2 Graves som	e cobbles, to Sill	1
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ingers	1	21 16	24"	4	1	Same of P	GNAS	+	Gravel, tr S	AT .	1
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	<b>↓</b> . —	<u> </u>	<u> </u>		_	_ <del> </del>					4
					M	ote: 2 samples	5 4 1100	9	or baken	. /	1
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NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used 2 — U = undisturbed; A = auger; OER = open end rod; V = vane 3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

# THE PORT AUTHORITY OF N.Y & N.J. ENGINEERING DEPARTMENT

#### ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

OJECT:	Port Ivoru	P&G	site			
ชบRING No.		l			DATE: 11-27 -00	2
TELD READ	INGS BY:	. 7			PID Model: Mini Rae	
	9	IN-SITU	HEAD-	BREATHING		
TIME	SAMPLE No.	Split Spoon Reading	Space Reading	Zone Reading	REMARKS	
		0.0	0.0	0.0		
PM		"	0.0	0.0		
	2	0.0	0.0	0.0		
	3	0.0		0.0		
	4	0.0	0.0	0.0		
e,	5	0.0	0.0	0,0		
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ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION CHAIN OF CUSTODY RECORD

Sheet 3 of 3

PROJECT: Port Ivory	bfe	
	10D Block 1338 Lot	1 DATE: 11-27 -00
BORING No: Fill 12	TOTAL No. OF	,
SIGNATURE OF ALL		
PRESENT AT SAMPLING	has 45	
BEI MOUNCHED	DATE 11 27	– ooreceived
RELINQUISHED	h, wy	
BY (SIGN)	TIME	BY (SIGN)
RELINQUISHED	DATE	RECEIVED
BY (SIGN)	TIME	BY (SIGN)
RELINQUISHED	DATE	RECEIVED
BY (SIGN)	TIME	BY LAB
REMARKS: 2 Samples 5	aved for testing i	in 2-16 oz jars & 1-20z jar ea
•	, , , , ,	L 1.1
Sample # 1 > Sa	imple #6 On I	nald
TI TPH	C PP+40 T	Al metals PH Oil & grease
Lest parameters: 1 1	<del>0</del> , 11 <del>1 7 7 0</del> , 11	The includes , III, Office of the second
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#### THE PORTAUTHORITY OF MYS RU

Engineering Department Construction Division Materials Engineering Section

JECT	<u> </u>	01 - 0-			NAME OF CONTRACT		В	ORING NO.	SURFACE ELEV.
TIC	vory_	PJG SITE			Craig Dr.	llery		Fill -13	
CATION	/		Δ.	<b>.</b>	J	•		ONTRACT NO.	DATE 1/1/30/00
=927	of Blds	> 75	Place	<u> </u>	loT1			126-79-006	111 30100
ON	3/2	"I.D. HAMMER	ZE   HOLE	TYPE /				ND WATER LEVEL	
3 ro	.D. 8/8	"1.D. HUSEN	5	/	<u> </u>		epth	R	emarks
MMER	5 4 5	HAMMER			11/30kg /	0 3.	d	1111	/ n. ,
40 #	FALL 30		FALL		1113000 1	$\nu$		while Hono	( DUGATING
LLLI	5	Burus							
ECTOR		0070)							
	$\mathcal{O}_{\mathcal{I}}$	Moure				ļ			
ASING	<del></del>	SPOON	RE- 1	SAMP.		3SAMPLE	DESC	RIPTION AND REMAR	KS _
WS/FT.	DEPTH	BLOWS/6"	COA,D	NO.		LINE LO	OCATE	S CHANGE OF PROFIL	ر.C
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# ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

PROJECT:	PROJECT: POYT I LONY PJ G SITE DATE: 11/3-loc BORING No. Fill -13										
BORING No.					PID Model: MINI PBE						
FIELD READ	INGS BY:	1 Hove	***************		PID Model: Mini PBE						
TIME	SAMPLE No.	IN-SITU Split Spoon Reading	HEAD- Space Reading	BREATHING Zone Reading	REMARKS						
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	2		0.0								
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# ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION CHAIN OF CUSTODY RECORD

		Sheet	, '9 of '3
PROJECT: POIT FUORY PAGSINE			
LOCATION: E 45T of Bldg TS		DATE: 1/30100	
BORING No: Fili-13	TOTAL No. OF SA	MPLES: 3 501/	
SIGNATURE OF ALL			
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BY (SIGN)	TIME	BY (SIGN)	
RELINQUISHED	DATE	RECEIVED	
BY (SIGN)	TIME	BY (SIGN)	
RELINQUISHED	DATE	RECEIVED	
BY (SIGN)	TIME	BY LAB	
REMARKS:	32003		
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Test for 5th 1/2			
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**Engineering Department Construction Division Materials Engineering Section** 

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NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used 2 — U = undisturbed; A = auger; OER = open end rod; V = vane 3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

# ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

PROJECT:	POIT IVO	y PtG	SITO		11/2
BORING No.	Fill !	Y'			PID Model: MILI PAG
FIELD READ		Hz		····nooooooo	PID Model: NIZI PIT
		IN-SITU	HEAD-	BREATHING	REMARKS
TIME	SAMPLE No.	Split Spoon Reading	Space Reading	Zone Reading	
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ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION CHAIN OF CUSTODY RECORD

		Sheet, 3 of 3
PROJECT: POIT IVOIT POSSITE		
LOCATION: HE of Bally 75 Noxt BORING No: Fill-14	* FRTracks	DATE: 11/30100
BORING No: Fill-14	TOTAL No. OF SAM	MPLES: 2501/
SIGNATURE OF ALL		
PRESENT AT SAMPLING		
RELINQUISHED	DATE 1/1301@	RECEIVED
BY (SIGN)	TIME	BY (SIGN)
RELINQUISHED	DATE	RECEIVED
BY (SIGN)	TIME	BY (SIGN)
RELINQUISHED	DATE	RECEIVED.
BY (SIGN)	TIME	BY LAB
REMARKS:		
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2 Scil Samples to 2-1 5th & 2+3		
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Engineering Department Construction Division Materials Engineering Section

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NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used
2 — U = undisturbed; A = auger; OER = open end rod; V = vane
3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

# ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

PROJECT:	Port Iva	ry P.E	G			
)RING No.	Fill 15				DATE: 11 - 2	5-00
FIELD READ	INGS BY:	. 7			PID Model: Mini	Kae
	SAMPLE No.	IN-SITU Split Spoon Reading	HEAD- Space Reading	BREATHING Zone Reading		REMARKS
TIME	,			0.0		
MA		0.0	0.0			
-	2	0.0	97.8	20.3		
	3	0.0	110.5	20.6		
	4	0.0	0.0	0.0	-	
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ENGINEERING DEPARTMENT
MATERIALS ENGINEERING DIVISION
CHAIN OF CUSTODY RECORD

		Sheet 3 of 3
PROJECT: Port Ivory P& G		
LOCATION: 11'S of Wire Pence & 75'E of	Bldg 52 Block 1338 Lot 1	DATE: 11-25-00
IBORING No: Fill 15	TOTAL No. OF SAM	MPLES: ろ
SIGNATURE OF ALL PRESENT AT SAMPLING	<b>)</b>	
333333333333333333333333333333333333333	888888888888888888888888888888888888888	888888888888888888888888888888888888888
RELINQUISHED	DATE 11-25-00	RECEIVED
3Y (SIGN)	TIME	BY (SIGN)
RELINQUISHED	DATE	RECEIVED
IBY (SIGN)	TIME	BY (SIGN)
333333333333333333333333333333333333333		
RELINQUISHED	DATE	RECEIVED
BY (SIGN)	TIME	BY LAB
Sample # 2, 3) & 7  Pest parameters: TPHC;	À	2-16 02 jars & 1-202 jar each , metals & PCBs), PH, Oil&
4		
Sample # 2. Or	holdo; Test	sample # 3 & #7
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## THE PORT AUTHORITY OF MY & NU

**Engineering Department** Construction Division **Materials Engineering Section** 

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N	Felice	2 +75W of Bld	ZE HOLE	TYPE	<u> </u>		<u>v</u>	GRO	UND WATER LEVEL	1 11 ~~ 120
ች <b>"</b> ሰ	D.D. 2 3/2	"I.D. Auge	rc I			Date	Time	Depth		Remarks
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PAUGE	<u> </u>	HANDRUGER		1				CRUSH	D-Rock DGABC	
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NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used 2 — U = undisturbed; A = auger; OER = open end rod; V = vane 3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

# ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

	0 1 7	P&G					
	Port Ivory	1 6 15			DATE:	11	
ORING No.		<u> </u>			PID Model:	Mini	Rae
FIELD READI	NGS BY:	<u> Z</u>					
TIME	SAMPLE No.	IN-SITU Split Spoon Reading	HEAD- Space Reading	BREATHING Zone Reading			REMARKS
PM	1 .	0.6	0.0	0.6			
	2	0.0	0.0	0.0			
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	4.	0.0	0.0	0.0			
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ENGINEERING DEPARTMENT
MATERIALS ENGINEERING DIVISION
CHAIN OF CUSTODY RECORD

Sheet 3 of 3 PROJECT: Lvory Block LOCATION: DATE: Lot 1 **BORING No:** TOTAL No. OF SAMPLES: SIGNATURE OF ALL PRESENT AT SAMPLING DATE 11 -24-00 RECEIVED RELINQUISHED BY (SIGN) TIME BY (SIGN) RELINQUISHED DATE **RECEIVED** TIME BY (SIGN) BY (SIGN) RELINQUISHED DATE **RECEIVED** BY (SIGN) TIME **BY LAB REMARKS:** Saveo TPHC, TCL mtals (VO, SVO, PCBS) PH, Oil & grease

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Engineering Department Construction Division **Materials Engineering Section** 

											SHEET 1	OF 3
ECT			2.6		N/	AME OF CONT	RACTOR		BORING N	Ю.	SURFACE EL	.EV.
		ort luory	PAG	Site	(	Craig	Drillin	9	fill-	-17		
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		Buildin								-99-00 <i>-</i> 6	11124	100
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NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used 2 — U = undisturbed; A = auger; OER = open end rod; V = vane 3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

### ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

Sheet 2 of 3/

(OJECT:	· · · · · · · · · · · · · · · · · · ·	<u></u>	PORT IN  OF BUILDING	ORY PI	+ G Sife
BURING No.	Fill -	17 ( Bes	of Building	Building	DATE: 11/24/2000
reld READ	NGS BY:	Madhu Pa	tel 6	ó	PID Model: MINI PAS
		IN-SITU	HEAD-	BREATHING	
TIME	SAMPLE No.	Split Spoon Reading	Space Reading	Zone Reading	REMARKS
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# ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION CHAIN OF CUSTODY RECORD

					Sheet 3 of 3
PROJECT:	. Port Iv	ory 19+ G	Site		
LOCATION: A Former Building	<del>- 23 - 1 - 2</del> 5	نگم کا ا ·	6 DATE:	11/24/20	in
BORING No: FILL- 17		TOTAL No. (	ر )F SAMPLES:	1 & Que	2 Soil
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RELINQUISHED Handle in	7	DATE	RECEIV	ED	
BY (SIGN)		TIME	BY (SIG	N)	
RELINQUISHED		DATE	RECEIV	ED	
BY (SIGN)		TIME	BY LAB		
REMARKS: 2 S	1817 Samo	Eamole	ded, 4 02 ea	2 sample	e 16 oz
sample #			H- 1-8	2_	
en e				,	
Sample	# 2	Def	以- 2-4	+	
Parametors:-	TPH	C, TCL		VO, meta	als and PCB
	PH,	Oil on	d grea	se	

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Engineering Department Construction Division Materials Engineering Section

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NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used 2 — U = undisturbed; A = auger; OER = open end rod; V = vane 3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

# ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

		31E		
· +166-	20			DATE: 11-2-00
DINGS BY: N	P. OUDEH		*******************************	PID Model: Mini PAE
Ī		HEAD-	BREATHING	DESTABLIC
SAMPLE	Split Spoon	Space Reading	Zone Reading	REMARKS
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ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION CHAIN OF CUSTODY RECORD

		<u> </u>	Sheet 3 of 3
PROJECT: Praction of 6	ramb R		
LOCATION: AS MARKETS OUT BY E	<u> CILLIAN</u>	DATE: 11-2	ص ـ
BORING No: FILL-20	· · · · · · · · · · · · · · · · · · ·	OF SAMPLES: 9	
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Engineering Department
Construction Division
Materials Engineering Section

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NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used
2 — U = undisturbed; A = auger; OER = open end rod; V = vane
3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

# ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

Sheet  $\lambda$  of 3

ROJECT:	Port Ivor	y P.8	G		
DORING No.	Fill 21	J			DATE: 11-13-00
TELD READ	INGS BY:	. Z			PID Model: Mini Rac
	SAMPLE	IN-SITU Split Spoon	HEAD- Space	BREATHING Zone Reading	REMARKS
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ENGINEERING DEPARTMENT
MATERIALS ENGINEERING DIVISION
CHAIN OF CUSTODY RECORD

			Sheet 3 of 3
PROJECT: Port Ivory P	2 G		
	ation Block 1309 Lot	DATE:   -1	3-00
BORING No: Fill 21	1	F SAMPLES: 3 SA	_
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PRESENT AT SAMPLING			
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BY (SIGN)	TIME	BY (SIGN)	
RELINQUISHED	DATE	RECEIVED	
BY (SIGN)	TIME	BY (SIGN)	
RELINQUISHED	DATE	RECEIVED	
BY (SIGN)	TIME	BY LAB	
REMARKS: 3 Samples saved  2 02 jars each  Sample # 2 & 5		z jars each 8 1C; PP+40; TAL	- Isample in
Sample # 7 On 1	hold. (No testino	•	
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#### THE PORT AUTHORITY OF MY & MJ

**Engineering Department Construction Division** Materials Engineering Section

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SJECT					N/	ME OF CONT	RACTOR		BORING NO.	SURFACE ELEV.
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LOCATION	1017	100 317 5			Щ.	-10,78	p	_	CONTRACT NO.	DATE
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NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used 2 — U = undisturbed; A = auger; OER = open end rod; V = vane 3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

# ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

PROJECT:	Port Ivo	ory PAGS	:1/e_		
BORING No.		-25			PID Model: Mm FBD
FIELD READ		O Kowe			PID Model: Mm PDF
		IN-SITU	HEAD-	BREATHING	1
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ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION CHAIN OF CUSTODY RECORD

Sheet 3 of 3

PROJECT: PORT IVORY PJ	G SiTe		
LOCATION: Rudy to Plots No	ith End	DATE: 12/1/00	
BORING No: Fi/- 2	TOTAL No. O	SAMPLES: 3.501/	
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RELINQUISHED	DATE	RECEIVED	
BY (SIGN)	TIME	BY (SIGN)	
RELINQUISHED	DATE	RECEIVED	
BY (SIGN)	TIME	BY LAB	
REMARKS:			
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s+1+3			
Soil sample in	1-1602 for	1	
5#5			
Test All for TOH	C, PP+46 WIT	4 TALMOTER, Ph - OIL & Gros	20
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#### THE PORT AUTHORITY OF MY & MU

Engineering Department Construction Division **Materials Engineering Section** 

**BORING REPORT** 

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NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used 2 — U = undisturbed; A = auger; OER = open end rod; V = vane 3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

# ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

ROJECT:	Port Ivor	PEG			la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de la como de
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## ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION CHAIN OF CUSTODY RECORD

			Sheet 3 of	3
PROJECT: Port Ivory P&	3			
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RELINQUISHED	DATE	RECEIVED		
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REMARKS: 2 samples in 2-	16 oz jars	& 1 - 2 0z jar	each.	
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#### THE PORT AUTHORITY OF MY & NU

**Engineering Department Construction Division Materials Engineering Section** 

**BORING REPORT** 

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NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used
2 — U = undisturbed; A = auger; OER = open end rod; V = vane
3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

# ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

PROJECT:	Port Ivar	y P&G		<u></u>			
ORING No.	UST 2-						30-00 D
HELD READ	INGS BY:	,7		**************	PID Model:	Mini	<u> </u>
TIME	SAMPLE No.	IN-SITU Split Spoon Reading	HEAD- Space Reading	BREATHING Zone Reading			REMARKS
AM	1	<b>Q</b> . •	0.0	0.0			
	2	. 0.0	0.0	0.0	4		
	3	0.0	0.0	0.0	1		
	, 4	0.0	1.9	0.0			
	5	0.0	14.2	0.0			
	6	0,0	14.0	0.0			
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#### ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION CHAIN OF CUSTODY RECORD

Sheet 3 of 3

PROJECT: Port Ivory P&G		·
LOCATION: + Wof BH: UST 2-1A Blod	1400 Lot 1 E	DATE: 11 - 30-00
BORING No: UST 2-1	TOTAL No. OF SAMI	PLES: 2
SIGNATURE OF ALL		
PRESENT AT SAMPLING What 103		
RELINQUISHED	DATE   -30-00	RECEIVED
BY (SIGN)	TIME	BY (SIGN)
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RELINQUISHED	DATE	RECEIVED
BY (SIGN)	TIME	BY (SIGN)
RELINQUISHED	DATE	RECEIVED
BY (SIGN)	TIME	BY LAB
Sample # 4A & Sample #  Test Parameters: TPHC, PP+40	5	PH, Oil & Grease.
<b>!</b>		

**Engineering Department Construction Division Materials Engineering Section** 

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NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used 2 — U = undisturbed; A = auger; OER = open end rod; V = vane 3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

#### ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

	Port Ivor					DATE:	11-3	0-00		
	UST 2-	7 A			PID	Model:	Mini	Rae		
TELD READ		<u></u>								
	SAMPLE	IN-SITU Split Spoon Reading	HEAD- Space Reading	BREATHING Zone Reading				REMARKS	····	
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#### ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION CHAIN OF CUSTODY RECORD

Sheet 공 of 3 PROJECT: Port Ivoru LOCATION: ± 100 15 W 12 Block 1400 lot 1 DATE: 11-30-00 Blda BORING No: UST - 2 - 1 **TOTAL No. OF SAMPLES:** SIGNATURE OF ALL PRESENT AT SAMPLING DATE 11 - 30-00 RECEIVED RELINQUISHED TIME BY (SIGN) BY (SIGN) DATE **RECEIVED** RELINQUISHED TIME BY (SIGN) BY (SIGN) DATE **RECEIVED** RELINQUISHED TIME BY LAB BY (SIGN) Sample # 1
Parameter: TPHC, PP+40, TAL metals, PH, Oil

#### THE PORT AUTHORITY OF MY & MU

Engineering Department Construction Division **Materials Engineering Section** 

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NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used 2 — U = undisturbed; A = auger; OER = open end rod; V = vane 3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

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#### ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

ROJECT: Port Ivory P & G.														
I SING No.	DATE: 11-30-00													
IELD READ		7			PID Model: Mini Rae									
	SAMPLE	IN-SITU Split Spoon	HEAD- Space Reading	BREATHING Zone Reading	REMARKS									
TIME	No.	Reading	Reading											
AM		0.0	0.0	0.0										
	2	0.0	0.0	0.0										
	3	0.0	0.0	00	Fuel odor									
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ENGINEERING DEPARTMENT
MATERIALS ENGINEERING DIVISION
CHAIN OF CUSTODY RECORD

			Sheet	ろ of	3
ROJECT: Port Ivory P & G					
OCATION: 3'W of UST 2-1 A B	lock 1400 lo	DATE: 11- 30	-00		
BORING No: UST 2-1 B		of samples: 2			
SIGNATURE OF ALL	>				
RESENT AT SAMPLING	900000000000000000000000000000000000000	8800808888888888888888888888888888	988888888888	B888888	3888888888888
RELINQUISHED &	DATE    _ ?	60-00 RECEIVED			
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TELINQUISHED	DATE	RECEIVED			
BY (SIGN)	TIME	BY (SIGN)		**********	840445600666
ELINQUISHED	DATE	RECEIVED			
BY (SIGN)	TIME	BY LAB			
REMARKS: 2 Samples sowed for testing	in 2-16	02 jars & 1-20	z jar e	ach_	-
Test Parameters: TPHC, PP,	40 TAL	retals PH Oil &	Greas	e	
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Engineering Department Construction Division Materials Engineering Section

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21 0N	1		CASING SI	ZE   HOLE	TYPE				GRO	OUND WATER LEVEL	
~ "C	).D. 1	3/8	TI.D. ALGER	5	1		Date	Time	Depth	<del></del>	emarks
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NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used
2 — U = undisturbed; A = auger; OER = open end rod; V = vane
3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

#### ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

PROJECT:	ort Ivory	PEG			
)RING No.	UST 2- 2				DATE: 11 - 30 - 00
FIELD READ	NGS BY: ].	7			PID Model: Mini Rae
	SAMPLE	IN-SITU Split Spoon	HEAD- Space Reading	BREATHING Zone Reading	REMARKS
TIME	No.	Reading			
PM	1 .	0.0	0.0	0.0	
	2	0.0	0.0	0,0	
	3	0.0	0.0	0-0	
	. 4	0.0	0.0	6.0	
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## ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION CHAIN OF CUSTODY RECORD

Sheet 3 of 3 PROJECT: Port Ivory LOCATION: 25'S DATE: Block 1400 BORING No: UST TOTAL No. OF SAMPLES: SIGNATURE OF ALL PRESENT AT SAMPLING DATE 11-30-00 **RECEIVED** RELINQUISHED TIME BY (SIGN) BY (SIGN) **RECEIVED** RELINQUISHED DATE TIME BY (SIGN) BY (SIGN) DATE RECEIVED RELINQUISHED TIME BY LAB BY (SIGN) **REMARKS:** Parameters: TPHC, PP+40, TAL metals, PH, Oil & Grease

#### THE PORT AUTHORITY OF MY & MU

Engineering Department Construction Division Materials Engineering Section

#### **BORING REPORT**

				_						SHEET OF	- 3
ECT		0 1 0		·	NAME OF CONT		B	ORING NO.		SURFACE ELEV.	=_
rt.	Lvory	P& G	·		Craia	drilling		1ST 2-	3		
CATION					J	J		ONTRACT NO.	,	DATE	
. 20, M	lof Bld	g 12 Center C CASING S	oncrete R	oadway	1 - Block 11	400 lot 1				12-01-0	0
				TYPE				ND WATER LE			<del></del>
3 "0	<u>ነው ኤ 7/8</u>	"I.D. Auge	rsl	<u> </u>	Date	Time	Depth		Rei	marks	
	lutom	į.		_	10 1 00	9:45	6.0	GANGE -	ルス		
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, J	). Cook	o						-			
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		1	24"	17~	Brown	DEAT	 		<del></del>	<u> </u>	
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NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used
2 — U = undisturbed; A = auger; OER = open end rod; V = vane
3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

### THE PORT AUTHURITY OF IN. Y & IN.

#### ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

PROJECT:	Port Iva		G	-	
E RING No.		13			DATE: 12-1-00
FIELD READ	INGS BY:	Z			PID Model: Mini Rae
		IN-SITU	HEAD-	BREATHING	
TIME	SAMPLE No.	Split Spoon Reading	Space Reading	Zone Reading	REMARKS
₹M	1	0,0	0.0	0.0	
	2	Ø. C	0.0	0.0	
	3	0.0	0.0	0.0	
	. 4	0.6	1.1	0.0	Fuel 2 odor
-	5	0.0	2.6	0.0	
	6	0.0	2.8	0.6	
	7	0. v	24.8	ం. ట	
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## ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION CHAIN OF CUSTODY RECORD

Sheet 3 of 3

PROJECT: Port Ivory P& G			
LOCATION: ± 150 W of Blag 12 Center concrete	Rolway Block 1400 Lot 1	DATE: 12-2-0	0
BORING No: UST 2-3	TOTAL No. OF SAM		·
SIGNATURE OF ALL	s.		
PRESENT AT SAMPLING DI Lauk			2888888888888888888888888888
RELINQUISHED C	DATE 12-1-00	RECEIVED	
BY (SIGN)	TIME	BY (SIGN)	± 17 9 75 (pam 17 )
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RELINQUISHED	DATE	RECEIVED	
BY (SIGN)	TIME	BY (SIGN)	
RELINQUISHED	DATE	RECEIVED	
BY (SIGN)	TIME	BY LAB	
REMARKS: 3 Samples saved for testi	na in 2-16 oz	jars & 1-20z-j	ar. each.
1	J	J	-
Sample # 2, # 5B & #7			<del></del>
Test Parameters: TPHC, PP+	40 TAL meta	ls PH. Oil	& grease
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Engineering Department Construction Division **Materials Engineering Section** 

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		7,	"I.D. Auge	1	TAPE		Date	Time			D WATER LEVEL				4
ا NER	<b>"</b> O.I	D. L 18	HAMMER	<u>rs i</u>	┖{				Depth		1 1/	Remarks			$\dashv$
19	# F	FALL 3		# FALL			11-20-00	2:30PM	5.0	'	Sample#	3			
40 ILLER	·	1 0	<u> </u>				11. 22.00	75 -1			11				1
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CTC	OR ~	- -	J,				ļ	]				-			
		1. 4	arks ·			.T	l	L					:		4
SINC SINC	-T.	DEPTH	SPOON BLOWS/6"	RE- 1	SAMP.2 NO.		•				RIPTION AND REMAR S CHANGE OF PROFI				
aus		►"o"-	Handauge	Full	-1101	上	<del></del>		Hash					<b>0</b> .3	5
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uger	•		3-3	18"	4	М	lisc till	<u>black</u>	ـ ۲ــع	5	AND, little Grave	<u> </u>	wood	_cino	lers
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		- 15 -	4-2	<u> </u>	* A	L	Sane.				· 	<u> </u>			
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NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used 2 — U = undisturbed; A = auger; OER = open end rod; V = vane 3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

# ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

ROJECT: Port Ivory P & G DATE: 11-20-00								
BURING NO. USI 7-1								
TELD READ	INGS BY:	Z						
TIME	SAMPLE No.	IN-SITU Split Spoon Reading	HEAD- Space Reading	BREATHING Zone Reading	REMARKS			
PIY		0.0	0.0	0.0				
	2	0.0	0.0	0.0				
	3	0.0	0.0	0.0				
·	4	0.0	0.0	00				
	5	0.0	00	0.0				
	6 A F	0.0	0.0	0.0				
	7	0.0	0.0	0.0				
	8 8	0.0	0.0	0.0				
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## ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION CHAIN OF CUSTODY RECORD

			Sheet 3 of 3
PROJECT: Port Ivory P&G			
LOCATION: + 80 W of Blog 80		DATE: 11 - 20	-00
BORING No: UST 4-1	TOTAL No	. OF SAMPLES: ろ	
SIGNATURE OF ALL			
PRESENT AT SAMPLING	***************************************	000000000000000000000000000000000000000	
RELINQUISHED STAND	DATE 11-	20-00 RECEIVED	
3Y (SIGN)	TIME	BY (SIGN)	199688888888888888888888888888888888888
RELINQUISHED	DATE	RECEIVED	
BY (SIGN)	TIME	BY (SIGN)	
RELINQUISHED	DATE	RECEIVED	555555555555555555555555555555555555555
BY (SIGN)	TIME	BY LAB	
REMARKS: 3 samples in 2 - 16	oz jars	<u> 21-202 jar</u>	each.
Sample #2: #6	A & 7	# 8 A.	
Test parameters: TPHC, PP+	40 T	al metals, PH,	oil & grease
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Engineering Department Construction Division **Materials Engineering Section** 

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<u>ī</u> ;T		010			NAME OF CONT	RACTOR	Ť Ţ	BORING NO.	SURFACE ELEV.
OTAC	Voru	P & G			Craia	drilling	, ]	UST4-2	
ATION	J				<del></del>	C		CONTRACT NO.	DATE
1011	N of BI	da 38					_	426-99-006	11-20-00
<del>x</del>	<u> </u>	J CASING SI	ZE HOLE	TYPE			GRO	OUND WATER LEVEL	
3 °C	D.D. 2 3/8	8 "I.D. Auger HAMMER	S	<b>\</b>	Date	Time	Depth	F	lemarks
		HAMMER							
4 ) #	FALL 30	<b>)</b>	FALL	•	11-20-06	1:30 pM	5.0	Sample #	3
Luck	~ ^			}	}	'		1	}
	7. Cra	i q							
P TOR	T	J		ì					
	1.4	arks		1		<u>                                     </u>	L	<u> </u>	
ASING )WS/FT.	DEDTU	SPOON BLOWS/6"	RE- 1	SAMP.2 NO.	1			SCRIPTION AND REMAR TES CHANGE OF PROFI	
) 3/F1.	DEPJH-	BLOWS/6	<u>ω, ρ</u>	110.	<u> </u>	<u></u>	ASP		0.0
r augu		Handauger	Full						
		1 4	'1	1	Fill black	L ~ ()	CAND	Some Gravel	1. 8:1
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	<u> </u>	8 - 19	10"	4_	till black	<u>c c-1 S</u>	AND .	tr. Gravel tr Si	ilt, cinders . wood
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	10-	6-6	8 _		Mise till	_black_	·c-1, 7	SAND, tr. Gravel	, to Silt cinder wood
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-	15	6-12			SAM	E			
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,		<u>                                     </u>		]	Note:	2 Samo	les c	aved for testi	ina /
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NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used
2 — U = undisturbed; A = auger; OER = open end rod; V = vane
3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

#### ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

Sheet 2 of 3 PEG 1 OJECT: Port Ivory DATE: BORING No. UST4- & Rae PID Model: Hini **:LD READINGS BY:** BREATHING HEAD-IN-SITU REMARKS Zone **Space** SAMPLE Split Spoon Reading Reading Reading TIME No. 0.0 0,0 0.0 pM 0,0 0.0 0.0 0.0 0.0 0,0 0.0 0.0 0,0 5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0,0 0.0 0.0 0.0

# ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION CHAIN OF CUSTODY RECORD

			Sheet 3 of 3
PROJECT: Port Ivory P&G			
LOCATION: ± 100' W of Blog	38	DATE: ۱۱ - גמ	- 00
BORING No: UST 4-2	TOTAL No.	OF SAMPLES:	
SIGNATURE OF ALL			
PRESENT AT SAMPLING	#8888888888888888888888888888888888888	######################################	######################################
RELINQUISHED	DATE II-	20-00 RECEIVED	
BY (SIGN)	TIME	BY (SIGN)	
RELINQUISHED	DATE	RECEIVED	
BY (SIGN)	TIME	BY (SIGN)	
RELINQUISHED	DATE	RECEIVED	<del></del>
BY (SIGN)	TIME	BY LAB	
REMARKS: 2 Samples Saved	ìn 2- 1	6 oz jars & 1 -	2 oz jar each
Sample #3 & San	uple#7		
Test parameters: TPHC	; PP+40	; TAL metals , Pt	1, Oil & great
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#### THE PORT AUTHORITY OF MY & MU

**Engineering Department Construction Division Materials Engineering Section** 

POST IVORY PAG SITE HOLE TYPE  NAME OF CONTRACTOR  Craig Drilling  CONTRACT N  UST  CONTRACT N  U26-97	SURFACE ELEV.					
Vort Ivory PAG Site Craig Drilling UST:	5-2					
South of Building 17 426-99						
OR CASING SIZE I TICLE I TE I GRUINIT WATER	RLEVEL					
3 "O.D. 23 8"I.D. Augur 1 Date Time Depth  IR Safty HAMMER	Remarks					
ER SORTY HAMMER 111271 00 1345 5.0						
2 # FALL 20 "   # FALL "   ///27 * 0   73 93   3-0						
David Cooks						
:TOR Madhu Patel						
SING SPOON RE- 1 SAMP.2 SAMPLE DESCRIPTION A BLOWS/6" COV'D NO. LINE LOCATES CHANGE						
Concrate Concrate	0,7					
'Aug Hand Auger Fill !						
P Fill - CMF Gravels, Rock	s, tetc					
3 Wet, White A Gray Diator	nacacous Earth					
makinal trace clay						
ger 1 2 24" 1 wet While 1 Gray Diate	ammeacous parth					
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WO 16" SAME						
10 H 16" SAMO						
2 1 20' 7 SAME						
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8 wood (Peat)	16.0					
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MI sonthes cheo						
Somple No # 3 So						
Jesning. Remain	in somple disas					

NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used 2 — U = undisturbed; A = auger; OER = open end rod; V = vane 3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

#### ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

Sheet & of 3

<u></u>			poll- Ivor	1. P+ G	Sile	
PROJECT:	110	1-5-2 Madhu	<u>'</u>	<u> </u>	DATE:	11/27/2000 MIN, PIE
BORING No.	U 3	Madhu	Patel		PID Model:	MIN, FOE
FIELD READ	INGS BY:					
	SAMPLE	IN-SITU Split Spoon Reading	HEAD- Space Reading	BREATHING Zone Reading		REMARKS
TIME	No.			0		
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## ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION CHAIN OF CUSTODY RECORD

3 of 3 Sheet P+G Sile ROJECT: Howland Look, Post Ivory. Soull of Buildin 11/27/2000 OCATION: DATE: UST 5-2 2 BORING No: TOTAL No. OF SAMPLES: Hadle m. Pala JIGNATURE OF ALL RESENT AT SAMPLING Hadhn Pala DATE **RECEIVED** RELINQUISHED TIME BY (SIGN) Y (SIGN) DATE RECEIVED ELINQUISHED TIME BY (SIGN) BY (SIGN) DATE **RECEIVED** ELINQUISHED TIME BY LAB BY (SIGN) **REMARKS:** Potte JA-LmoTal Ph oil & Gresse

Engineering Department Construction Division Materials Engineering Section

### **BORING REPORT**

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პა⊧CT					N	AME OF CONT	RACTOR	<del></del>	BORING NO.	SURFACE E	LEV.
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50 000	W of	center of	bldq 1	7 b	0	ck 1400	Lot		426-99-006	11-21-	00/11-28-00
ООИ	7/~	CASING SI	ZE HOLE	TYPE					OUND WATER LEVEL		
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	7. Zo	rks									
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S/FT.	DEPTH ◀	HAND AUGER	COV'D	NO.	╀	A D C A P		rushed	TES CHANGE OF PROFIL	<u>.</u>	0.2
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NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used 2 — U = undisturbed; A = auger; OER = open end rod; V = vane 3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

## ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

Sheet 2 of 3

ROJECT:	Port Ivor	P&G			
	UST 6 - &	1 1			DATE: 11-21-00/11-28-00
	INGS BY:		1		PID Model: Mini Rae
		IN-SITU	HEAD-	BREATHING	
	SAMPLE	Split Spoon	Space	Zone	REMARKS
TIME	No.	Reading	Reading	Reading	
PM 11-21-0	1	0.0	0.0	0.0	·
11-28-00	٦ 2	0.0	0.0	0.0	
	3	0.0	0.0	0.0	· · · · · · · · · · · · · · · · · · ·
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	7	0.0	0.0	0.0	
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### ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION CHAIN OF CUSTODY RECORD

		Sheet 5 of 3
PROJECT: Port Ivory P& G		
OCATION: + 150 W of center of Bldg 1	7 Block 14	DATE: 11-21-00
BORING No: UST 6-2	· ,	OF SAMPLES: 3
RESENT AT SAMPLING		
RELINQUISHED	DATE   1 – 9	√1 - 0 0 RECEIVED
JY (SIGN)	TIME	BY (SIGN)
relinguished	DATE	RECEIVED
BY (SIGN)	TIME	BY (SIGN)
		DECENTED.
RELINQUISHED	DATE	RECEIVED
'RY (SIGN)	TIME	BY LAB
REMARKS: 3 samples in 2-16  All three samples to be	oz jars tested.	8 1 - 20z jareach Samples #3, #5 & #9
Test Parameters: TPHC, P	P+40,	TAL metals, PH, Oil & grease
<b>s</b>		

### THE PORTAUTHORITY OF MY & MU

Engineering Department Construction Division **Materials Engineering Section** 

					во	RING F	REPORT	•		SHEET OF
Ruy/ECT	0 1	Λ!.			NA	AE OF CONTE	RACTOR		BORING NO.	SURFACE ELEV.
,-	Post for	my - P & 6	····		L_	Craix			4376-3	
TION	+ ./	در داره				O			CONTRACT NO.	DATE
: 110	West of	Blds 17 CASING SIZ	ZE HOLE	TYPE	<del>.</del>			000	426-55-106	11/23/00
3" "	o.d. 23/8	I.D. augus			$\vdash$	Date	Time	Depth	OUND WATER LEVEL	emarks
MER (	AFETY)	HAMMER				1 1				
140 #	FALL 30		FALL		L	11/28/00	10.42M	<u> 3.2</u>	1 In S-2	
RILLER	D. Cool	e a				·		1		
ECTOR					-				<del>-  </del>	
	T.10	yan						<u> </u>	<i>b.</i>	
SING NS/FT.	DEPTH	SPOON BLOWS/6"	RE- 1 COV'D	SAMP. ² NO.			3SAI L11	MPLE DE	SCRIPTION AND REMARITES CHANGE OF PROFIL	KS .E
		Hand	Jull	1 4	Ti	ll-Br	M-F Sand	à Gra	vel, little Brick	_ to Steel
	]	augus	Rec	1 6	<u> </u>		sod.			
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NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used
2 — U = undisturbed; A = auger; OER = open end rod; V = vane
3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

### ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

Sheet Z of 3

ROJECT:	HH-Ports	νοη - P.ξ.( -3	<u> </u>		DATE: 11/28/00
BORING No.	UST-la	-3'			
ELD READ	NGS BY:	T. Ran		100 C	PID Model: 14
TIME	SAMPLE No.	IN-SITU Split Spoon Reading	HEAD- Space Reading	BREATHING Zone Reading	REMARKS
TIME	1.		0.0		
AM				·	
	2		0.0		
-	3		0.0		
	Ψ.	·	0,0		
	5		00		·
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### ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION CHAIN OF CUSTODY RECORD

		!	Sheet 3 of 3
PROJECT: HH- Port Juong- FEG			
OCATION: = 110' West of Bldg 17		DATE: 11 / 28 /	6-9
BORING No: UST 6-3	TOTAL No. OF SA	MPLES: 2	
SIGNATURE OF ALL			•
RESENT AT SAMPLING			000000000000000000000000000000000000000
RELINQUISHED	DATE 11/28/40	RECEIVED	
JY (SIGN) T. Ga-	TIME	BY (SIGN)	
ielinquished	DATE	RECEIVED	
BY (SIGN)	TIME	BY (SIGN)	
ELINQUISHED	DATE	RECEIVED	
BY (SIGN)	TIME	BY LAB	
REMARKS: 2 Samples in 4-16	oz jáns ¿ Z-Vo	ajús	
1-FB in 2 Viols	′ <b>V</b>	V	
			-
Parameters = TPHC, PP.	LUDW/ TAL	PH wilden	
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### THE PORT AUTHORITY OF MY & MU

Engineering Department Construction Division **Materials Engineering Section** 

### **BORING REPORT**

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Now	M OF BUI	colf.	S 37	-25'	WEST	OF	UST7-	1 A		CONTRACT NO. 426-99-006	DATE	3/00
DUN	2.7/		CASING SIZ	E HOLE	TYPE				GRO	UND WATER LEVEL		
[[	1 // 2	*1.D.	1.50			}	Date	Time	Depth		Remarks	
	* FALL SAFET		HAMMER	FALL			11/28/00	15:30	6to7	OBSERVED DI	IRING SPOOL	111/6
ILLER	TALL	Λ	2016	TALL							35	200
TOP	i 1	1	` .							- Andrews State Control	<del></del>	
/ °ING	JAN T		)A/IS	RE- 1	SAMP.	2				SCRIPTION AND REM		
S/FT	DEPTH -	-	OWS/6"	COV'D	NO.	-	n = 0050 - 05			TES CHANGE OF PRO	FILE	0.51
M 1266	ρl	HAR	D Awar	For		+	600 - DAA	AN STONE	LND G	BLACK FINE TO	MECIUM	5AND +
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NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used 2 — U = undisturbed; A = auger; OER = open end rod; V = vane 3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

## ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

Sheet 2 of 3PY6 SITE AJABORITY : PROJECT: DATE: BORING No. PID Model: FIELD READINGS BY: BREATHING IN-SITU HEAD-REMARKS Zone Space Split Spoon SAMPLE Reading Reading Reading No. TIME 0m SPRONG PETROLEUM ODOR 90 to 100

## ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION CHAIN OF CUSTODY RECORD

3 of 3 York_ Pr6 SITE PROJECT: WORT LOCATION: NORTH OF BULLAND S37 - 75' WEST OF UST 7-1 A DATE: SOIL TOTAL No. OF SAMPLES: **BORING No:** SIGNATURE OF ALL PRESENT AT SAMPLING RELINQUISHED DATE **RECEIVED** BY (SIGN) BY (SIGN) TIME **RECEIVED** DATE RELINQUISHED TIME BY (SIGN) BY (SIGN) **RECEIVED** RELINQUISHED DATE TIME BY LAB BY (SIGN) SAMPLES 5 AND REMARKS: ANALYZE #5 For TPHC, PP+40 WITH THE MERZ

Engineering Department Construction Division **Materials Engineering Section** 

### **BORING REPORT**

											SHEET OF 3
D. OT			l			N.	AME OF CONT		<del></del>	BORING NO.	SURFACE ELEV.
1085	1084	P	\$651	ITE			CRAIG DI	RILLING		UST 7-1 A	
ATION	•	-								CONTRACT NO.	DATE
No	PH OF	וטכו	LOING	<b>ンノヤ</b>				<del></del>		1426-99-006	11/28/00
ייכ	'		CASING SIZ		TYPE		<u> </u>	T		OUND WATER LEVEL	
MWEB	).D.	″1.D.	HAMMER				Date	Time	Depth	R	emarks
	FALL	_		FALL	أي		Ì	]			
LLER	FALL		1	FALL			<u> </u>	<del> </del>	<del> </del>		
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	N	)AN	5				<u> </u>	<u> </u>	<u>                                     </u>		
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NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used 2 — U = undisturbed; A = auger; OER = open end rod; V = vane 3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

# ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

Sheet 2 of 3

DOG ITOT:	Hay 4,12	Unal D	16 SIT	2	
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ROKING No.	100 PV:		15		PID Model: BAE MIWI RAG
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ENGINEERING DEPARTMENT
MATERIALS ENGINEERING DIVISION
CHAIN OF CUSTODY RECORD

			Sheet S of S
PROJECT: HOWAND HOOV	P\$6	SITE	
LOCATION: NORTH OF BULLOING		DATE: 1/20	100
BORING No: UST7-1 A	TOTAL No. O	F SAMPLES:   50	11
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Sample #1 1	N 1-202 An	10 2-1602 JARS	
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ANALYTE FOR	PAC PPT40 W	1714 TAL METALS	, et
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### THE PORT AUTHORITY OF MY & MU

Engineering Department Construction Division Materials Engineering Section

**BORING REPORT** 

CATION  NUCH OF BUILDING S 37 -> 8 WEST OF UST7-1 A  CASING SIZE HOLE TYPE  O.D. "I.D. HAMMER  # FALL " # FALL "  OATE 128/00  GROUND WATER LEVEL  Bate Time Depth Remarks  ASING DWS/FT. DEPTH BLOWS/6" COV'D NO. SAMP.2  LINE LOCATES CHANGE OF PROFILE													SHEET OF 3
CATION NORTH OF BULDING S 37 -> 8' WEST OF 0517-1A CONTRACT NO. DATE 11/28/00  I CASING SIZE HOLE TYPE GROUND WATER LEVEL OD TIME DEPTH REMARKS  MMER HAMMER  # FALL  FOLD  PAVIS  ASING SIZE HOLE TYPE  Date Time Depth Remarks    FALL   FR    FALL   FR    FALL   FR    FALL   FR    FALL   FR    FALL   FR    FALL   FR    FALL   FR    FALL   FR    FALL   FR    FALL   FR    FALL   FR    FALL   FR    FALL   FR    FALL   FR    FALL   FR    FALL   FR    FALL   FR    FALL   FR    FALL   FR    FALL   FR    FALL   FR    FALL   FR    FALL   FR    FALL   FR    FALL   FR    FALL   FR    FALL   FR    FALL   FR    FALL   FR    FALL   FR    FALL   FR    FALL   FR    FALL   FR    FALL   FR    FALL   FR    FALL   FR    FALL   FR    FALL   FR    FALL   FR    FALL   FR    FALL   FR    FALL   FR    FALL   FR    FALL   FR    FALL   FR    FALL   FR    FALL   FR    FALL   FR    FALL   FR    FALL   FR    FALL   FR    FALL   FR    FALL   FR    FALL   FR    FALL   FR    FALL   FR    FALL   FR    FALL   FR    FALL   FR    FALL   FR    FALL   FR    FALL   FR    FALL   FR    FALL   FR    FALL   FR    FALL   FR    FALL   FR    FALL   FR    FALL   FR    FALL   FR    FALL   FR    FALL   FR    FALL   FR    FALL   FR    FALL   FR    FALL   FR    FALL   FR    FALL   FR    FALL   FR    FALL   FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR    FR	C CT	1 .	Ø.		_		N/	AME OF CONT	RACTOR		BO	RING NO.	SURFACE ELEV.
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FALL  FER J (PATIG  FOR TOTOR  D PAVIS  ASSINDE DEPTH BLOWS/6" RE-1 NO.  INC.  SAMPLE DESCRIPTION AND REMARKS LINE LOCATES CHANGE OF PROFILE  FILL SPONG AND WOOD  NO.  FILL SPONG AND WOOD  NO.  FILL SPONG AND WOOD  NO.  FILL SPONG AND WOOD  NO.  FILL SPONG AND WOOD  NO.  FILL SPONG AND WOOD  NO.  FILL SPONG AND WOOD  NO.  FILL SPONG AND WOOD  NO.  FILL SPONG AND WOOD  NO.  FILL STANLED FINE TO MEDIUM SAND) - PETROLEUM ODDING  FILL STANLED FINE TO MEDIUM SAND) - PETROLEUM ODDING  SAMPLES SCREENED WITH  PID METER  - SAMPLES SCREENED WITH  TESTING  - ALL RAMAINING SAMPLES DISCARCOUD		.D	"I.D			<u> </u>		Date	Time	Dept	th	Re	marks
FILL - RAKK STAINED FINE TO MEDIUM STAND - PETROLEUM ODDI  SAMPLE SCREENED WITH  PLU SAMPLES SCREENED WITH  PLU METER  - SAMPLES SCREENED WITH  PLU METER  - SAMPLES SCREENED WITH  PLU METER  - SAMPLES SCREENED WITH  PLU METER  - SAMPLES SCREENED WITH  TESTING  - ALL REMAINING SAMPLES DISCARDED	MMER			HAMMER	•								
ASING DEPTH BLOWS/6" COV'D NO. LINE LOCATES CHANGE OF PROFILE  FILL STONE AND WOOD  NOT THE TO MEDIUM STAND - PETROLEUM ODER  FILL - REACK STAINED FINE TO MEDIUM STAND - PETROLEUM ODER  FILL - REACK STAINED FINE TO MEDIUM STAND - PETROLEUM ODER  FILL - REACK STAINED FINE TO MEDIUM STAND - PETROLEUM ODER  FILL - REACK STAINED FINE TO MEDIUM STAND - PETROLEUM ODER  FILL - REACK STAINED FINE TO MEDIUM STAND - PETROLEUM ODER  FILL - REACK STAINED FINE TO MEDIUM STAND - PETROLEUM ODER  FILL - REACK STAINED FINE TO MEDIUM STAND - PETROLEUM ODER  FILL - REACK STAINED FINE TO MEDIUM STAND - PETROLEUM ODER  FILL - REACK STAINED FINE TO MEDIUM STAND - PETROLEUM ODER  FILL - REACK STAINED FINE TO MEDIUM STAND - PETROLEUM ODER  FILL - REACK STAINED FINE TO MEDIUM STAND - PETROLEUM ODER  FILL - REACK STAINED FINE TO MEDIUM STAND - PETROLEUM ODER  FILL - REACK STAINED FINE TO MEDIUM STAND - PETROLEUM ODER  FILL - REACK STAINED FINE TO MEDIUM STAND - PETROLEUM ODER  FILL - REACK STAINED FINE TO MEDIUM STAND - PETROLEUM ODER  FILL - REACK STAINED FINE TO MEDIUM STAND - PETROLEUM ODER  FILL - REACK STAINED FINE TO MEDIUM STAND - PETROLEUM ODER  FILL - REACK STAINED FINE TO MEDIUM STAND - PETROLEUM ODER  FILL - REACK STAINED FINE TO MEDIUM STAND - PETROLEUM ODER  FILL - REACK STAINED FINE TO MEDIUM STAND - PETROLEUM ODER  FILL - REACK STAINED FINE TO MEDIUM STAND - PETROLEUM ODER  FILL - REACK STAINED FINE TO MEDIUM STAND - PETROLEUM ODER  FILL - REACK STAINED FINE TO MEDIUM STAND - PETROLEUM ODER  FILL - REACK STAINED FINE TO MEDIUM STAND - PETROLEUM ODER  FILL - REACK STAINED FINE TO MEDIUM STAND - PETROLEUM ODER  FILL - REACK STAINED FINE TO MEDIUM STAND - PETROLEUM ODER  FILL - REACK STAINED FINE TO MEDIUM STAND - PETROLEUM ODER  FILL - REACK STAINED FINE TO MEDIUM STAND - PETROLEUM ODER  FILL - REACK STAINED FINE TO MEDIUM STAND - PETROLEUM ODER  FILL - REACK STAINED FINE TO MEDIUM STAND - PETROLEUM ODER  FILL - REACK STAINED FINE TO MEDIUM STAND - PETROLEUM ODER  FILL - REACK STAINED FINE TO MEDIUM STAND - PETROLEUM ODER	#	FALL		<u>'                                    </u>	FALL	-			<u> </u>			· · · · · · · · · · · · · · · · · · ·	
ASING DEPTH BLOWS/6' COV'D NO.  SPOON RE- 1 SAMP.2 SAMPLE DESCRIPTION AND REMARKS DWS/FT. DEPTH BLOWS/6' COV'D NO.  FILL STONE AND WOOD  NO.  FILL - RAKK STAINED FINE TO MEDIUM STAND - PETROLEUM ODER  FILL - RAKK STAINED FINE TO MEDIUM STAND - PETROLEUM ODER  FILL - RAKK STAINED FINE TO MEDIUM STAND - PETROLEUM ODER  FILL - RAKK STAINED FINE TO MEDIUM STAND - PETROLEUM ODER  FILL - RAKK STAINED FINE TO MEDIUM STAND - PETROLEUM ODER  FILL - RAKK STAINED FINE TO MEDIUM STAND - PETROLEUM ODER  FILL - RAKK STAINED FINE TO MEDIUM STAND - PETROLEUM ODER  FILL - RAKK STAINED FINE TO MEDIUM STAND - PETROLEUM ODER  FILL - RAKK STAINED FINE TO MEDIUM STAND - PETROLEUM ODER  FILL - RAKK STAINED FINE TO MEDIUM STAND - PETROLEUM ODER  FILL - RAKK STAINED FINE TO MEDIUM STAND - PETROLEUM ODER  FILL - RAKK STAINED FINE TO MEDIUM STAND - PETROLEUM ODER  FILL - RAKK STAINED FINE TO MEDIUM STAND - PETROLEUM ODER  FILL - RAKK STAINED FINE TO MEDIUM STAND - PETROLEUM ODER  FILL - RAKK STAINED FINE TO MEDIUM STAND - PETROLEUM ODER  FILL - RAKK STAINED FINE TO MEDIUM STAND - PETROLEUM ODER  FILL - RAKK STAINED FINE TO MEDIUM STAND - PETROLEUM ODER  FILL - RAKK STAINED FINE TO MEDIUM STAND - PETROLEUM ODER  FILL - RAKK STAINED FINE TO MEDIUM STAND - PETROLEUM ODER  FILL - RAKK STAINED FINE TO MEDIUM STAND - PETROLEUM ODER  FILL - RAKK STAINED FINE TO MEDIUM STAND - PETROLEUM ODER  FILL - RAKK STAINED FINE TO MEDIUM STAND - PETROLEUM ODER  FILL - RAKK STAINED FINE TO MEDIUM STAND - PETROLEUM ODER  FILL - RAKK STAINED FINE TO MEDIUM STAND - PETROLEUM ODER  FILL - RAKK STAINED FINE TO MEDIUM STAND - PETROLEUM ODER  FILL - RAKK STAINED FINE TO MEDIUM STAND - PETROLEUM ODER  FILL - RAKK STAINED FINE TO MEDIUM STAND - PETROLEUM ODER  FILL - RAKK STAINED FINE TO MEDIUM STAND - PETROLEUM ODER  FILL - RAKK STAINED FINE TO MEDIUM STAND - PETROLEUM ODER  FILL - RAKK STAINED FINE TO MEDIUM STAND - PETROLEUM ODER  FILL - RAKK STAINED FINE TO MEDIUM STAND - PETROLEUM ODER  FILL - RAKK STAINED FINE TO MEDIUM STAND - PETROLEUM ODER  FILL - RAKK STAI		J :	CP4	116		ļ							
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2 FILL - RATE STATULE FINE TO MEDION STRIP - PETROLEUM ODDAY  - ALL SAMPLES SCREENED WITH  PLD METER  - SAMPLE 2 SAVET FOR ENVIRONMENTAL—  TESTING  - ALL REMAINING SAMPLES DISCARDED	<u> </u>	,					١,	/ /- 1-				·····	
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NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used 2 — U = undisturbed; A = auger; OER = open end rod; V = vane 3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

## **ENGINEERING DEPARTMENT**

MATERIALS ENGINEERING DIVISION Sheet 7 - of 3PID READINGS PORT WORK PROJECT: 11/28/00 DATE: BORING No. PID Model: MINI RAE DAN DAJIS FIELD READINGS BY: BREATHING HEAD-IN-SITU REMARKS Zone Space Split Spoon SAMPLE Reading Reading Reading No. TIME 00 0.0

#### ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION CHAIN OF CUSTODY RECORD

(+6 SITE Hook PROJECT: HOWIND 11/28/00 LOCATION: NORTH OF BULONG S37-> 8' WEST of UST7-1A DATE: BORING No: UST7-1 TOTAL No. OF SAMPLES: SIGNATURE OF ALL PRESENT AT SAMPLING RELINQUISHED DATE **RECEIVED** BY (SIGN) TIME BY (SIGN) DATE RELINQUISHED **RECEIVED** TIME BY (SIGN) BY (SIGN) RELINQUISHED DATE **RECEIVED** TIME BY (SIGN) BY LAB Damaie #2 REMARKS: PHE PP+40 WHH THE METALS FOR

**Engineering Department** Construction Division
Materials Engineering Section

### **BORING REPORT**

									SHEET	OF 3
CT CT					NAME OF CONTE	RACTOR	Ť	BORING NO.	SURFACE EL	
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CATION		611 12+	15' E of	rail roma	ł. , ∪., .	J		CONTRACTINO.	DATE	
<u> </u>	North of	Bldg 36 5 +	Block	140	o Lot 1	· · · · · · · · · · · · · · · · · · ·		426-99-006	11-21-	-00
0 1	7/-	1 -	,	TYPE	ļ.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		GRO	UND WATER LEVEL		
<u>3 • </u>	o.o. 2 ³ /8	1.D. Auger	rs		Date	Time	Depth	R.	emarks	
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<u>, D #</u> ILućR	FALL 3	2 1	# FALL		11-21-00	1.30 pM	7.0	SAMPle #4		
-	7. Crai						ļ			
HOTC 18	J Crui	<del>J</del> ,	<del></del>		<u> </u>		<del> </del> _			
		arks								
ASING	7	SPOON	RE- 1	SAMP.2	·	3SA	MPLE DES	CRIPTION AND REMAR	KS	
OWS/FT.	DEPTH -	BLOWS/6"	COA.D	NO.				ES CHANGE OF PROFIL		
I Head		Cutter Head	Full		<del></del>			CONCRETE		
1	<u> </u>	Handauger	<del>                                     </del>	1 ,	- 11			CABC		
_	<b>⊢</b> −	<b></b>			Fill greyish-	bl <u>ack</u> c - /	_QUA2	some Gravel, tr SIT	L	
	<u> </u>			] .	Fill reddish - 1	rown Clav	ey Sill	little Gravel same n	- ( SAND	
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¥				3	Fill reddiel	- brown	Grave	and c-1 SAM	D some	CLAYEY
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NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used 2 — U = undisturbed; A = auger; OER = open end rod; V = vane 3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

# ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

Sheet 2 of 3

ROJECT:	Port Ivory	PEG						
DORING No.	USTy-	<u> </u>			DATE:	11-2	1-00	
TELD READ		Z		**************	PID Model:	<u>Mini</u>	<u>Kae</u>	
TIME	SAMPLE No.	IN-SITU Split Spoon Reading	HEAD- Space Reading	BREATHING Zone Reading			REMARKS	
AM -	<u>.</u>	0.0	0.0	0.0				
	2	0.0	0.0	0.0				
	3	0.0	0.0	0,0				
P M	4	0.0	0,0	0.0				
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ENGINEERING DEPARTMENT
MATERIALS ENGINEERING DIVISION
CHAIN OF CUSTODY RECORD

			9	Sheet $3$ of $3$
PROJECT: Port Ivory P&G				
	Block 1	400 lot   DATE: 11-	-21-0Ĉ	)
BORING No: UST7-2	1	. No. OF SAMPLES:		
SIGNATURE OF ALL				
PRESENT AT SAMPLING	>			
	388888888888888888888888888888888888888		:889888888888	9999999999999999999999999
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RELINQUISHED	DATE	RECEIVED		
BY (SIGN)	TIME	BY (SIGN)		
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RELINQUISHED				
BY (SIGN)	TIME	BY LAB		
REMARKS: 2 samples saved	in 9	1/2 07 1042 - 1-	9 07	jar each.
		1602 jars - 1-	_	U -
Sample # 5 & 6 saveo	for	testing.	<u> </u>	
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Test parameters: TPHC, PF	7 40	TAL motals PH	Oil	& grease
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### THE PORT AUTHORITY OF MY & MJ

Engineering Department Construction Division **Materials Engineering Section** 

### **BORING REPORT**

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ASING	<u> </u>		POON	RE- 1	SAMP.2					SCRIPTION AND REMARI	
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NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used
2 — U = undisturbed; A = auger; OER = open end rod; V = vane
3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

## ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

Sheet 2 of 3

PROJECT: 1	Port Ivor	y P.E	G		
)RING No.	UST 9_				DATE: 11 - 25 -00
FIELD READ		1.7		***************************************	PID Model: Mini Rae
	SAMPLE No.	IN-SITU Split Spoon Reading	HEAD- Space Reading	BREATHING Zone Reading	REMARKS
TIME 1:06 AM	140.				
		0,0	0.0	0.0	
	2	0.0	0.0	0.0	
	3	0.0	0.0	0.0	
``	4	0.0	0,0	0.0	
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### ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION CHAIN OF CUSTODY RECORD

-			Sheet 3 of 3	
PROJECT: Port Ivory P&	G			
LOCATION: Between Blog 52 & bldg 53, ±42'S	of SW corner of Bldg 52	1338 DATE: 11-25	.00	
BORING No: UST 9-1	TOTAL No. C			
·				
SIGNATURE OF ALL				
RESENT AT SAMPLING OV NOS		50888888888888888888888888888888888888	68888888888888888888888888	88888
RELINQUISHED	> DATE 11-9	5-00 RECEIVED		
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RELINQUISHED	DATE	RECEIVED		
LJY (SIGN)	TIME	BY (SIGN)		
relinquished	DATE	RECEIVED		
BY (SIGN)	TIME	BY LAB		
Sample # 2 & #5	or testing in	<u> </u>	·	
Test parameters:		· · · · · · · · · · · · · · · · · · ·		
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Engineering Department Construction Division Materials Engineering Section

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7	~ ~ >	6	augers	IZE HOLE	TYPE V		<u> </u>	Time	GRC Depth	OUND WATER LEVEL	
· MER	O.D. 61	7 I.D.	HAMMER	H2 T			Date	emarks			
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	1.1	] 3	3-3	12"	8		Peat	0.9pp	м		12:0,
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NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used 2 — U = undisturbed; A = auger; OER = open end rod; V = vane 3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

# ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

			PID 1	READINGS			Sheet	2	of 3
PROJECT:	HH-P	È 6- 1					2.7		
BORING No.		10			DATE:		9/00	<u> </u>	+
RELD READ	INGS BY:	· Ryan			PID Model:	8_			
		เพ-รเาบ	HEAD-	BREATHING					
ПМЕ	SAMPLE No.	Split Spoon Reading	Space Reading	Zone Reading			REMARKS		
PM	1-		0.0						
,	٤		0-0						· · · · · · · · · · · · · · · · · · ·
	3		6.0						
	4		0.0						
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## ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION CHAIN OF CUSTODY RECORD

Sheet 3 of 3

PROJECT: HH-PEG			•
LOCATION: + 161' S.W. of Bldg 12 (	Block 1400)	DATE: /// 9	100
BORING No: Wood 1.C	TOTAL No. OF	SAMPLES: 2	
	-		
SIGNATURE OF ALL	1000		
PRESENT AT SAMPLING 1. Kyan	MADS	) / R:11 om	100000000000000000000000000000000000000
RELINQUISHED	DATE 11/9 10	D RECEIVED	·
BY (SIGN) T. Kan	TIME	BY (SIGN)	SCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
RELINQUISHED	DATE	RECEIVED	
BY (SIGN)	TIME	BY (SIGN)	
RELINQUISHED	DATE	RECEIVED	
BY (SIGN)	TIME	BY LAB	
REMARKS: Z. Samples in 4-16 Sample # 4 to be o	n HOLD.	Voajan	
y L			
		<u> </u>	
Test Paraneters = TPHC,	PP+40, TAL	metals, PH, or	lé grease
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	· · · · · · · · · · · · · · · · · · ·		

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			i	BORING I	REPORT	ľ		
·				r			<del>-</del>	SHEET OF 3
DECT Awary At	P&G			NAME OF CONT	RACTOR		BORING NO. Word #3	SURFACE ELEV.
ocation.  1 laid out = g	8' South of	Bld: I.A		(Block 140	0		CONTRACT NO.	DATE /10/00
. JON	CASING	ZE HOLE TYP	<u>`</u>	Clours	· /	OUND WATER LEVEL		
*O.D.	"I.D.	1		Date	Time	Depth		Remarks
IMER	HAMMER	<del></del> _	$\dashv$		-	<del> </del>	<del></del>	
# FALL	~ )	# FALL		11/10		pry	·	
DRILLER D. DAUC								
PECTOR T. Q								
		Dr. 1 04		<u> </u>	1			
CASING DEPTH	SPOON BLOWS/6"		MP. ² O.	<u> </u>	*SA L	INE LOCA	SCRIPTION AND REMAR TES CHANGE OF PROFI	ILE .
Ker 0	Hand	<del> </del> _		- 1			G-PA-ISC	6.51
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NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used
2 — U = undisturbed; A = auger; OER = open end rod; V = vane
3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

### ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

Sheet 2 of 3

PROJECT:	wood #	- PEG:			
ORING No.	W000 #	3			DATE: /// 10/00
FIELD READ!	INGS BY: T	Ryan			PID Model: 8
		นี้ เพ-รเกบ	HEAD-	BREATHING	
TIME	SAMPLE No.	Split Spoon Reading	Space Reading	Zone Reading	REMARKS
PM			6.0		
1	2		0.0		
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ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION CHAIN OF CUSTODY RECORD

		Sheet 3 of 3
PROJECT: 粗- PeG - Ja	ory Point	
LOCATION:		DATE: 11 - 10 - 00
BORING No: Wood #3	TOTAL No. OF SA	AMPLES: 2
- ' '		
GIGNATURE OF ALL		1:15pm / ////
PRESENT AT SAMPLING 1 - 1/2	ya / 5/1	arb Mall DXV 7K:71am
RELINQUISHED	DATE 11-10-0	• RECEIVED
Y (SIGN) 7. Kga-	TIME	BY (SIGN)
RELINQUISHED	DATE	RECEIVED
Y (SIGN)	TIME	BY (SIGN)
CELINQUISHED	DATE	RECEIVED
lby (SIGN)	TIME	BY LAB
EMARKS: 2 Samples  Sample #	in 2 - 16 ozs jars	& 2 Voajars each,
Sample 162 Test Parameters	= TPHC , PP+40	,TAL Hetals, PH, oil & grease
Note: BH Wood #	±3 Not finished.	11-10-00
- '		

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### **BORING REPORT**

									SHEET   OF 3
JECT	P1	<b>**</b>		-1-	NAME OF CONT	RACTOR		BORING NO.	SURFACE ELEV.
	TOTT	Ivory p	+ (6	816	Crav's	Dailin	£	Wood-3	
ATION		ناسانی ۵	~ 1	· A				CONTRACT NO.	DATE
	South .	P Bouildi	1	<b>~</b> :	45			100.99-154	1115615903
POON	0,	CASING SI		TYPE			GRO	OUND WATER LEVEL	
3 *0	).D. ≥ ³ /8	I.D. Auga			Date	Time	Depth	R	emarks
MER	Sal	h HAMMER			1.129 lyma	هـ د د	, ,	/	
46 #	FALL 30		FALL		11/29 /200	1600	6.5		
ILLER									
	David	d cooks	S 						
<b>ECTOR</b>	M. Pat	-d							
SING	,	SPOON	RE- 1	SAMP.2	T	3SA	MPLE DE	SCRIPTION AND REMAR	KS
WS/FT.	DEPTH	BLOWS/6"	COV'D	NO.		LI		TES CHANGE OF PROFI	
			2 [-11]		Asphal	1-			
Avy	<del>-</del> -	Hand	<del></del>	-	E.,, -	11 17 20 20 11		- CA. 10 - A.T -	Rick, would eta
		Huger		<b>, '</b>		** 19.4VM	, em	- 34MA 1 2/11/10	
				₹ 🕃	11.11 12.00		Doc 1	k Grav and -	Cu steel and
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NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used 2 — U = undisturbed; A = auger; OER = open end rod; V = vane 3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

# ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

Sheet p of 3

PROJECT: Pan- Ivary, PtG Site									
DATE: "									
FIELD READINGS BY: Madhu Pated PID Model:									
HELD READ									
TIME	SAMPLE No.	IN-SITU Split Spoon Reading	HEAD- Space Reading	BREATHING Zone Reading	REMARKS				
11:80		٥	2 984	0					
1300	₹	0	2 PP n	0.					
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## ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION CHAIN OF CUSTODY RECORD

Sheet 3 of 3 Post Ivory, Sile P+ 07 PROJECT: South of 111291200 Ruidin 1 A **_OCATION:** DATE: wood 3 **BORING No:** TOTAL No. OF SAMPLES: SIGNATURE OF ALL PRESENT AT SAMPLING **RECEIVED** RELINQUISHED DATE BY (SIGN) TIME JY (SIGN) RELINQUISHED DATE RECEIVED TIME BY (SIGN) BY (SIGN) DATE **RECEIVED** RELINQUISHED TIME BY LAB 3Y (SIGN) Soil source collectes. REMARKS: PP + 40 WH TAL metals largneters -

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Engineering Department Construction Division Materials Engineering Section

					i	BORING I	REPORT	•		SHEET OF
NECT		<del></del>				NAME OF CONT	RACTOR		ORING NO.	SURFACE ELEV.
HH.	- Pi (	<u>r</u>				Crai		ľ	Wood 5	SURPACE ELEV.
<del></del>							. 1		CONTRACT NO.	DATE,
loid	wt t	80' Soc	此日别	ds 1.B(	wood Si	ti)(Block 1	400)		426-99-006	11/7/60
				ZE HOLE	TYPE	T T			IND WATER LEVEL	
3 .	D.D. 2	/8 "I.D.	CASING SI Ousers HAMMER			Date	, Time	Depth		Remarks
''MMER		7 %	HAMMER			11.	2:30 Pm	,,,,,	In5#3	
140 #	FALL	30 - ·	<u>'                                    </u>	# FALL		11/7/00	C-PM	5.8'	AW2 7	
JUILLEU	D.O.	l								
PECTOR		_		· <del>· · · · · · · · · · · · · · · · · · ·</del>			<del> </del>			
	7	. Ka	<u></u> :				Ì			
CASING 5' OWS/FT.	DERT	н В	SPOON LOWS/6"	RE- 1	SAMP.2 NO.		3SA	MPLE DESC NE LOCATE	CRIPTION AND REMARES CHANGE OF PROFI	ILE 1
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			lager	Rec			~ .	1-0		۷.۵′
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			12-13	8"	6					
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						1/20	Sem p	les#1	-5 and # 8 h	vere saved Other
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NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used 2 — U = undisturbed; A = auger; OER = open end rod; V = vane 3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

# ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

Sheet 2 of 3

PROJECT: HH-P&G.  BORING No. Wood # 5  DATE: 11/7/00								
BORING No. Wood # 5  FIELD READINGS BY: T. R. PID Model: 8								
HEW READ				BREATHING	· ·			
TIME	SAMPLE No.	IN-SITU Split Spoon Reading	HEAD- Space Reading	Zone Reading	REMARKS			
PM	1.		0.0					
	2		0.0	`				
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## ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION CHAIN OF CUSTODY RECORD

Sheet 3 of 3 PROJECT: HH- P&G LOCATION: = 80' So. of Blog 1.B Wood Site Block 1400 DATE: BORING No: Wood #5 TOTAL No. OF SAMPLES: SIGNATURE OF ALL MAJKU PRESENT AT SAMPLING DATE ///3/80 **RECEIVED** RELINQUISHED BY (SIGN) BY (SIGN) TIME DATE **RECEIVED** RELINQUISHED BY (SIGN) BY (SIGN) TIME RECEIVED DATE RELINQUISHED TIME **BY LAB** BY (SIGN) Samples in 12-16 or jars & 6-Voa **REMARKS:** nalysis-TPHC, TCL, PHEOil & prease

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Engineering Department Construction Division **Materials Engineering Section** 

**BORING REPORT** 

					-				SHEET	OF 5
PI. JECT					NAME OF CONTRA		E	ORING NO.	SURFACE ELE	v.
Port	Ibory	PJG5,70			Craix Dr	ulling		PAMW-10D	DATE	
LI ATION	,	- / - 0	ما آهه ديا	. И.а	+ 00 0 1	0 BL-11	611	CONTRACT NO. 476-99-006	DATE 11/27/	cc
' <i>อ</i> บ]หู เ spoon	LNS (O)	CASING SIZ	E HOLE	TYPE	+ PR Bridge	e nacers	GROL	IND WATER LEVEL		
3 "O	.D. 78	I.D. XW	Wall	UNITED	Date	Time	Depth		emarks	
	Sefit		<del>-</del>		311-0	1020		4		1
	FALL 30	#	FALL		11/27	10	Q.8	5 5		
DRILLER	T Craix									
II PECTOR		Howe								
ASING	, )	SPOON	RE- 1	SAMP.2				CRIPTION AND REMAR		
WS/FT.	DEPTH	BLOWS/6"	COV'D	NO.	Crushed STO		NE LUCATI	ES CHANGE OF PROFIL	.E	0.0
Hard	<u> </u>	Hand Auger	Full	1						
uga				14	1 511- M-F	= Brown	Cray S	Sund LITTESITY TIGE	Well Tilledon	STOR
				7						
				2	Samo	0_				4.0
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<del>`</del>	5		<del>                                     </del>	31						
<u> </u>		<u> </u>	<u> </u>				Ploton	Sity Cudons luc	od (stavel	
IW		9-9	ļ	14 B	Scn	ne				7,0
Cesing		12-20	18"	1 + B	F11- Blac	k 5,71	Some (1	idea Trucod, I	Y F Soud	80
		5-6				- 7	•	,	·	
		7-7	911	5,	Fill- Yall	our Brown	u clar	104 Sill Same F	2 Sayal	10.c
	<b>&gt;</b> 10 <b>&lt;</b>	2 -2			<#	4-1	Tata II	ith 3" spoons		
	<u> </u>	2-2	194	6		). +		- in Thoms -		12.0
	<u> </u>	3-2	1 1 1		Brown &			-		100
		4-9	<u> </u>	フ				WITH & Speaks		
<b>1</b>		9-10	114	<u></u>	M-F Gro	y Sano	1 Irsi	11, TV Gravel_		
0,11						,	•	,		
houd	<b>►</b> 15 <	8-11		1	<b> </b>		<del></del>			
	-	11-19	14'	8	Same					
With 2	<del> </del>	11 17	17	-	- some					175
BUIT	<del> </del>	И <u>—</u>			<u> </u>					
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	<b>₹</b> 25 <b>₹</b>			<del></del>						

NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used
2 — U = undisturbed; A = auger; OER = open end rod; V = vane
3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

### THE PORT AUTHORITY OF MY & MJ

Engineering Department Construction Division Materials Engineering Section

**BORING REPORT** 

						5
'R. JECT	-	0)			NAME OF CONTRACTOR  BORING NO.  SURFACE ELEV.	}
101)	Luory	PJG Site			Crais Dilling PAME -100	
				LAA	CONTRACT NO.   DATE , ,	]
S JT E	NdotLo	CASING SIZ	F HOLE	TYPE B	Broke Black 1738 LaTI 426-99-006 11/27/00	
	.D. 11/8	"I.D. ReverT			Date Time Depth Remarks	
O WER	Soft	/ HAMMER	10.33	3,0 (,0,		
	FALL 30	/ "\ #	FALL	-		
ORILLER						
N ECTOR		Craix				
N ECTOR	,	O House				
SING	,	SPOON	RE- 1	SAMP.2	² 3SAMPLE DESCRIPTION AND REMARKS	
WS/FT.	DEPTH	BLOWS/6"	COA.D	NO.	LINE LOCATES CHANGE OF PROFILE	
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WITH				1		
PUST						
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	> 30 →			<del> </del>		
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_	L _	7-7	18"	10	Red Brown Clayery STT, Tr PSoud, Tr Grovel	
	}				, , , , , ,	
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	35 -			ļ		
	33	12-14	}			
		11-17	14"	13	Rad Brown Classes S. IT TV BC / TVC / TVP-166-16	
	<del> </del>	'' '/	11/	<del> </del>	Rad Brown Clayer SIT, Tr FSand, Tr Gravel, Tr Robshile	
	<u> </u>	-	ļ	1'		
	<u> </u>	<u>.                                    </u>	ר [	]		
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- +	- 40 -	15-19	<del></del> -	1		
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;	<u> </u>	75-30	144	/	Decomposed Red Shale, LIDIa Claya, SITE Tr Pson	<u>/</u>
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	'	10901 20/01	04	1	Rolosal, Bottom of Boring	7)
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	1					
				7		
:	<b>►</b> 'YC' -	<del></del>	٠	<u> </u>		

NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used
2 — U = undisturbed; A = auger; OER = open end rod; V = vane
3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

3 — Color Marm mer Used

## PORT AUTHORITY OF NY & NJ Engineering Department - Materials Division

Nell Installation Report		Sheet 3 of 5
PORT DUORY PAG SITE		CONTRACT NO. 426-99-006
South end of Lot, Near Western VELL NO. WELL TYPE	Aug + RD - Bridge	Craig On Ilino
VELL NO. WELL TYPE  PAMW-IAD AT MONITOR	INSPECTOR DRILLER	DATE 1
	77000	11/08/00
Well Development Report (NOTE: WATE	R LEVEL READINGS FROM TOP OF PVC)	<del></del>
WATER LEVEL BEFORE	WATER LEVEL AFTER	TAKEN MINUTES AFTER
dia. PVC pipe w/steel lock	ing cap ——	
· · · · · · · · · · · · · · · · · · ·		
11 3c		
L1 = L1		•
L2 = <u>20.0</u>		Towns of an Arma
L1 = 30 $L2 = 200$ $L3 = 100$	.0	<ul> <li>Top of surface</li> <li>&amp; cement grout</li> </ul>
•	000	·
L2	W.E	Top of bentonite seal
LZ	}	
	<u> 180</u>	- Top of well gravel filter
;		
	openings:	
, · ·	.020	
L3		
•		
:	300	≥ Bottom of well
	-4510	— Bottom of boring
	Cap	
	Boring diameter	
HEMARKS:  Mole Back Fulled 45-30		

### ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

Sheet U of \ PORT IVOIN PLASITE PROJECT: 11/27/00 DATE: 80-MW-10D BORING No. RBG MINI PID Model: D Howe HELD READINGS BY: BREATHING IN-SITU HEAD-**REMARKS** Zone **Space** Split Spoon SAMPLE Reading Reading Reading No. TIME 0.0 AM 2 0.0 U.O 0.0 4 A 0.0 0.0 O.O 0.0 00 0<u>.C</u> 10 0.0  $\mathcal{O}_{\mathcal{B}}$ 12

ENGINEERING DEPARTMENT
MATERIALS ENGINEERING DIVISION
CHAIN OF CUSTODY RECORD

			Sheet	5 of 5
PROJECT: PORT IVORY	PtG Site			
LOCATION: South end of Lot,	, at NOSPORIS PR B.	DATE: //	127100	
BORING No: PAJMU-10D	•	OF SAMPLES: 5	Soil	
SIGNATURE OF ALL				
PRESENT AT SAMPLING	8888888888888888888888888888888	19888888888888888888888888888888888888	000000000000000000000000000000000000000	888888888888888888888888888888888888888
RELINQUISHED	DATE	RECEIVED		
BY (SIGN)	TIME	BY (SIGN)	888888888888888	::::::::::::::::::::::::::::::::::::::
RELINQUISHED	DATE	RECEIVED		•
BY (SIGN)	TIME	BY (SIGN)		
RELINQUISHED	DATE	RECEIVED		
BY (SIGN)	TIME	BY LAB		
S# 1,3 +6 IN 6 S# 4B IN 1-1 S# 5 M 1-1	7-160g Jus 8	1-20z fm e.	ec4	
5≠4B iN 1-	160g Jan			
5# 5 Mu 1-1	600 tu 2 1-2	or la.	·	
			•	
TOST St 1,	3			
TPK , PP+40		Oh cold Gran	· <b>22</b> .	
8#6 on h	ide			

# ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION CHAIN OF CUSTODY RECORD

Sheet 5 of 5

PROJECT: POTT IVORY PAG S.	TQ	
LOCATION: South end of Lot, of NOOT	erns PR Bridge	DATE: 11/27/00
DORING No: PHIME-100	TOTAL No. OF SAI	MPLES: 5 Soul
SIGNATURE OF ALL		
RESENT AT SAMPLING	989888888888888888888888888888888888888	3838383888888888888888888888888888888
ELINQUISHED	DATE	RECEIVED
BY (SIGN)	TIME	BY (SIGN)
ELINQUISHED	DATE	RECEIVED
~Y (SIGN)	TIME	BY (SIGN)
RELINQUISHED	DATE	RECEIVED
Y (SIGN)	TIME	BY LAB
Than DVC	:	
EMARKS:		
3 1,376 IN 2-160g A	as & 1-20	z fu each
3 48 - Ballon ya		
the hour ton far		a.
		•
TOST 5# 1, 3		
	mothy, Ph	culd-Grome
11/23/00 TEST S#	4B AND	5 - SAME PARAMETERS
8#6 on hole		CILL Granze 5 - SAME PARAMETERS
i		
•		

### THE PORT AUTHORITY OF MY & NU

Engineering Department Construction Division Materials Engineering Section

### **BORING REPORT**

					one.	7
Towland Moule, PORT IVORY & Ode S. T.				T	NAME OF CONTRACTOR BORING NO. SURFACE ELEV	• }
A HUN	01 1100K	, YOY LUOY	1 5040	5,10	Crais Dilling MW-PA12 CONTRACT NO. DATE	
^ 1	d out	by killen	ZE HOLE	<u>550c.</u>	426-99-006 11/2loc	
POON TO	. 23/2	CASING SI	SE HOLE	type lawiJoy	GROUND WATER LEVEL  Date Time Depth Remarks	
N IER	Safa 7	*I.D. AUGUS HAMMER	0 1	1,000	1. 2//	
160 #	FALL 30		FALL		11/2/00 12% 3.0 while Hond Augering	
₹I' ¹ ER	]	P Pensell		1		}
SPECTOR		P Howe	<del></del>			•
SING	-	SPOON	RE- 1	SAMP.2	3SAMPLE DESCRIPTION AND REMARKS	
.( /S/FT.	DEPTH	BLOWS/6"	COV'D	NO.	LINE LOCATES CHANGE OF PROFILE	0.0
lan P		Kand Auger	FV		MISC Fill Sand Conday Gravel, co-1, ETC	-1,5
) pr		<del>                                     </del>		2	Fill-white Fith Material (Diatomacous Earsh)	
	<u> </u>				Fill Choders, Brios	2.7
				<u> </u>	Fill - WhID FITTON Material (DISTORAGE ESOS)	
7				] —		
V	<b>&gt;</b> 5 ₹		4	j		
low		WCH-1	*			
STAM	<del></del>	0-1	20"	3	Same 0.1	
205		wad				
1	10	WOH	241		- Same O.1	
	<b>&gt;</b> {0	WOX-1				
		0-1	2411	],	-Same Oil	
		1-0		,		
		0-0	244	-	Some 0.2	
		WOX				
	> (5)	WOH-1	24"	1	Same 0.5	
-	<del></del>	1-0				
1	<del></del>	0-0	7411		Same Ir Grave Gray Organic SIITy Clay IN Typot Tpoo	~
	<del></del>	1-1			Same 15 H 3	
		2-3	194	1.4		19,5
	> 20 €	<del></del>	' ' -	<del>                                     </del>	Gray organic 5.17 clay, LIDTO Brown Post, LITTO Black B	OT JOY
	<del> -</del>	ļ	<del> </del>	}		£
		<u> </u>			Bo Dom of Borry	
	<del></del>		<u> </u>		All Seil checked with PID NOTEN	
					SH 1,2,384 Sawd for Tosting	
	> 25 <				Romaining Soil Discorded	
	- C) -					

NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used
2 — U = undisturbed; A = auger; OER = open end rod; V = vane
3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

# PORT AUTHORITY OF NY & NJ Engineering Department - Materials Division

Well Installation Report		Sheet 2 of 4
Howard Mode, Port Ivory Pd	G SITO	CONTRACT NO. 426-79-006
LOCATION		CONTRACTOR
WELL NO. WELL TYPE	(INSPECTOR IDRILLER	Crais
MW-PAI2 "B" MONTO	r DHowe SBO	rus 11/2/00
Well Development Report (NOTE: WAT	ER LEVEL READINGS FROM TOP OF PVC)	
DATE	WATER LEVEL AFTER	TAKEN MINUTES AFTER
* dia. PVC pipe w∕steel loc	king cap ———	
	<b>A</b>	
,		•
$L1 = \frac{3.0'}{}$		
L2 = 30		
		<b>-</b> , ,
L3 = 15.0'	*	Top of surface & cement grout
13	00	a bemone grout
L2		Top of bentonite seal
		·
	<u>S'2</u>	Top of well gravel filter
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Top of tron grator mass
	*	
•	openings	
	.020	
L3		•
		·
•		
		1
	10.0	, - Bottom of well
•	10:00	- Bottom of boring
	Cap	-
	k <del></del> ≯ Boring diameter	
	porning diamotor	

HOLD Back Filled 18.0-20.0 WITH Well Group

# ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

Sheet 3 of 4

PROJECT:	EWR-	Port Ivory	, PdG Si.	R	la arr	10/31/00	
BORING No.					DATE: PID Model:	MMI RAE	
FIELD READ	INGS BY:	Phores				14/10( 1-1/2	
TIME	SAMPLE No.	IN-SITU Split Spoon Reading	HEAD- Space Reading	BREATHING Zone Reading		REMARKS	
PM	1		00				
	2		0.0	`			
,	2.4-2.71		00				<del> </del>
<b>I</b>	2.7-6'		. 00				
1	3		0.1				
	6-8'		0./				
	8-10' 16-18'		0./				
	16-18'		0.2				
	4		0.5		<u>.</u>		
	i.						<u> </u>
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			·				
-							·
•							
.1			-				
							<u> </u>
]							

ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION CHAIN OF CUSTODY RECORD

Sheet 4 of PROJECT: Howland Hook, Poit Ivory PAG Site 11/2/00 BORING No: MW PA-TO TOTAL NO DATE: TOTAL No. OF SAMPLES: **BORING No:** SIGNATURE OF ALL PRESENT AT SAMPLING DATE 11/2/00 RELINQUISHED **RECEIVED** BY (SIGN) TIME BY (SIGN) RELINQUISHED DATE **RECEIVED** TIME BY (SIGN) " BY (SIGN) DATE **RECEIVED** RELINQUISHED TIME BY LAB BY (SIGN) REMARKS:

### THE PORT AUTHORITY OF MY & MJ

Engineering Department Construction Division **Materials Engineering Section** 

### **BORING REPORT**

										SHEET OF Y	
R			-			NAME OF CONTRACTOR BORING NO.				SURFACE ELEV.	
	Tyr	DORY	PAG SITE	<u>.</u>		Chair 1	Charge Drilling PAMW-13				
O'	TION					·	CONTRACT NO.			DATE / ,	
	35.T	SIde of	LOT NEAV	BURNON	OUT BIL	e Block 1	309605	10	426-99-006	11/15/00	
POO					ETYPE T	,			UND WATER LEVEL		
	<b>"</b> C	D.D. 7/5	"I.D. DUCAN HAMMER	; B'	MoniTor	Date	Time	Depth	R	emarks	
	ER	Safan	HAMMER				245	a .	545		
13	C #	FALL 30	•	# FALL		11/20/00	9第	9.0	3"5		
)R(I I	E	$\sigma$	·					{		• • •	
<del></del> :	CTOR		Craig			ļ <b> </b>	ļ		_ <del> </del>		
Ollowe											
	ING /S/FT.	DEPTH	SPOON BLOWS/6*	RE- COV'D	SAMP. ²	<u></u>			CRIPTION AND REMAR ES CHANGE OF PROFIL		
Hay	/		Mand Augor	Full			c cru			10	
9 ;	m	_		++-		Misc Fi	11- Cobb	by Con	crata Brick SIT	Sandy ETC	
~	<del> </del>	<u> </u>		++-	2	Mis Fi	// S.//C	Cravel	Brick, Cinders CI	ava SITI FRE	
_ ]			· ·	11	1	1	4	Q LESO J.	<u> </u>	77-17	
		5	<b> </b>	<del></del>	٦ ا	<u> </u>					
_ ,	<u></u>		1		] 3	Mise Fil	1- Concy	1 <u>10 10 10 10 10 10 10 10 10 10 10 10 10 1</u>	ick SIT, Grave	LENC	
1	ou		2-3			]		,	// • /	;	
Par			4-4	18"	7	Same			<del></del>		
} _	ers		8-63								
<b>-</b>	1	10	122-43	114	15		7-,		round Crapton E		
		10	96-100	,	1	MiscFill- Concrete, Gravel, Croden, ETC					
		<u> </u>	100-115	<del></del> -	- 6			CIT	Indus, Erc		
		_	18-18	†		) (	3 pm	-31-4/3	-1000 LIC _		
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, <u>L</u>		<del>                                     </del>	77	1, 3	+	MISC IX	11- Wo.	of ), 1),	EIC	14.0	
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<u> </u>	<u> :</u>	<u> </u>	8-9	24'	<u>'</u>	Brown	Pat	- 		160	
.; 					_						
				-	_			·	Botton of B	Poring	
<del> ,</del>	<del></del> .			-			<u> </u>			)	
<b>-</b>	<del></del>	<b>&gt;</b> 20 <b>→</b>		-		<u>-</u>	tt 12	<u> 105 Ch</u> کال	ected WITH P	W Maples	
<u> </u>		<del> </del>	<del> </del>		-	F 3	B1 Samples Checked WITH PIO Mater				
		<u> </u>			_		Kemaini.	my San	upla Piscond	ed	
		<del>-</del>			-	<del></del>	_ <del></del>				
			<b></b>	<del> </del>	-{	<u></u>					
		2/-				<u> </u>					

NOTES: 1 — Length recovered; 0" — Loss of Sample, T — Trap used
2 — U = undisturbed; A = auger; OER = open end rod; V = vane
3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

# PORT AUTHORITY OF NY & NJ gineering Department - Materials Division

Well Installation Report	Sheet Zof Y
Port Ivery PLG SITE	CONTRACT NO. 496-99-006
LOCATION  FIGST SIDE FLOT, Near BURNESCUT Block, 1309 LOT  INO. WELL TYPE, PINSPECTOR DRILLER	Crais Only
Fast sidet Lat, Near Burned out Block, 1309 Lat INO. WELLTYPE PAMW-13 HOLLER DRILLER DRILLER TOWN	DATE
PAMW-13 'A' MONITON D'Hoine J Cross	s 11/2da
*ell Development Report (NOTE: WATER LEVEL READINGS FROM TOP OF PVC)	
LE 11/20/00 WATER LEVEL BEFORE 11.1 WATER LEVEL AFTER 11.1	EN MINUTES AFTER
* dia. PVC pipe w/steel locking cap ———	
A	
L1 = 3.0' $L2 = 4.0'$ $L3 = 10.0'$	-
L2 = 4.0'	
Tr.	op of surface
L3 = 10.0 &	cement grout
L2 2.0 To	op of bentonite seal
	op or bentomic sear
3.0 / T	op of well gravel filter
	op of well graver inter
*	
openings 020	
, , , , , , , , , , , , , , , , , , , ,	
L3	,
LS	
14.0' B	ottom of well
/ 16.0° n	ottom of boring
Cap	
<del>K ────────────────────────────────────</del>	
IEMARKS:	

# ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

Sheet 3 of  $\frac{9}{3}$ 

PROJECT:	Part T	vory OdG	5/10			
ORING No.	$\rho p$ -M	W-13			DATE:	11/15/00 Mini PAB
FIELD READ		Olove			PID Model:	MINI PAB
	SAMPLE	IN-SITU Split Spoon	HEAD- Space	BREATHING Zone		REMARKS
TIME	No.	Reading	Reading	Reading		
PM	1.		0.0			
HZW AM	2		0.0	`		
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	4		· 0.0			
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	6		511		Wegg	/
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### ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION CHAIN OF CUSTODY RECORD

Sheet Y of Y POST INOIN POG Sire 'ROJECT: OCATION: E95T Side of Lot Behiad Burntout House DATE: TOTAL No. OF SAMPLES: 3 South PAR PANU-13 RORING No: JIGNATURE OF ALL RESENT AT SAMPLING 71115 DATE **RECEIVED** RELINQUISHED 11/20 TIME BY (SIGN) Y (SIGN) DATE **RECEIVED** ELINQUISHED TIME BY (SIGN) BY (SIGN) DATE **RECEIVED ELINQUISHED** TIME **BY LAB** BY (SIGN) **REMARKS:** Same # 78 5#1

### THE PORT AUTHORITY OF MY & MU

Engineering Department Construction Division **Materials Engineering Section** 

### **BORING REPORT**

						·				SHEET / OF 3		
Phweg	T					NAME OF CONT	RACTOR		BORING NO. SURFACE ELEV.			
$\nu$	'syT	Dur	, PAGSi	To					PD-MW 14D			
- L	<del></del>		1 100 51	<del></del>		CONTRACT NO. DATE						
.C 11	ON	,				70.	O	1				
1 2	ィス	or Pul	15			Black	1309 L	0110	476-99-006	11/15/00		
SPOON	<del>/</del>	-	CASING SIZ	E HOLE	TYPE		GROUND WATER LEVEL					
7		- 21/2		1	• –	D-4-	T					
H, IE		D. 2/8/				Date	Time	Depth	He	marks		
H, IE		Setter	HAMMER			1 ,	1.36	_	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	_		
140	<i>'</i> #6	FALL 30"	- #	FALL	#*	11/15	1236	3.8	While March 7	recerins		
DRILLE	R	<del></del>				,	<del> </del>	·		-		
		~	J Fred			11/10	100	3.8'	open hole			
= =		<u>`</u>	1 1 1001			1111/	10	) 0	- pre roce			
ik. ic	TOR	0	Horas				Ĭ	Į		1		
		Vo	vore			}	j	ļ		İ		
\$17	NG	,	SPOON	RE- 1	SAMP.		3SA	MPLE DES	CRIPTION AND REMARK	S		
	/FT.	DEPTH	BLOWS/6"	COA,D	NO.	1			ES CHANGE OF PROFIL			
		<i>►"Ö"</i> <				<del> </del>			20 011/1102 01 11101 12			
Yand	40-0	_	March Auger	Full		ì						
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- (	- 1				<b>'</b>	1 17,50 F	11- Saun	Cuda	is, Brick, wood, L	Class EV		
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<u> </u>			Tappedspace	18"	ا _							
Cast		3	0. 10		3	1		1				
Cash	77		<u> </u>			MISC FI	11 LINO	Urs Br	icla Growl ETE			
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			1-2		4							
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•			5-7			0,1 ppm						
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u/	Ī		7-24	7"		MiscFill - Wood, Cholon, ETC 123						
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NOTES: 1 — Length recovered; 0" — Loss of Sample, T. — Trap used
2 — U = undisturbed; A = auger; OER = open end rod; V = vane
3 — Log depth of change in color of wash water, loss of water, artesian water, sand heave in casing, etc.

### ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION PID READINGS

Sheet 2 of 3

PROJECT:	POYT I	1014 020 -140 DAve	SiTe				J -
ORING No.	PAMW	-140			DATE: PID Model:	11/157	200
FIELD READ	INGS BY:	Dree_			PID Model:	JMIKL	KH5
222220000000000	SAMPLE	IN-SITU Split Spoon	HEAD- Space	BREATHING Zone			REMARKS
TIME	No.	Reading	Reading	Reading			
AM	1.		0.0				
	2		0.0	•			
AM AM	3		0.0		· ·		
	4		· V.a				
	2		0.0				
PN	6		0./			<del></del> _	
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# ENGINEERING DEPARTMENT MATERIALS ENGINEERING DIVISION CHAIN OF CUSTODY RECORD

					·	·····	Sheet 3	of 3
ROJECT:	Post Ivory	PtG SIX						
OCATION:	Rdw/ Fr	Piors		1	DATE:	11/15/0	k	<u> </u>
	PANA-140		TOTAL	No. OF SAM	IPLES:	250H		
GNATURE OF A	LL							
RESENT AT SAN	APLING	:6888868888888888888888888888888888888	9888888888	888888888888888888888888888888888888888	2000000000	88888888888888	188888888888888	38888888888888888
RELINQUISHED			DATE	11/15/00	RECEIV	ED		
(SIGN)		000000000000000000000000000000000000000	TIME	10000000000000000000000000000000000000	BY (SIG	iN)	000000000000000000000000000000000000000	000000000000000000000000000000000000000
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Į⊳/ (SIGN)			TIME		BY (SIG	iN)		
:LINQUISHED			DATE		RECEIV	FD		
BY (SIGN)			TIME		BY LAB			
DI (SION)						888888888888888888888888888888888888888		
REMARKS:			<del></del>			. <u></u>		
. 1 Soi	1 Samples	In 2-16	icz h	uns d	<b>#</b> -20	e lan-	lack	
541				<b>4</b> - 14		<del></del>		
Test	5#/							
TPUC	pp+40 }	A WITH T	Alme	Tek. Oh,	oils	-Chenso		
	<del>                                     </del>			ή,				
10/1	Tloc Sample I ne TosTs a	5#3						
1 50,1	Sample I	in 2=160	, jui	+1	203	fai		
Sam	ne Tosts a	2 5 H/						<del> </del>
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THE PORT AUTHORITY OF N.Y. & N.J.

MATERIALS ENGINEERING DIVISION

WELL MONITORING DATA SHEET

PROJECT: HH - P	ORT IVOR	Y PAG SITE	JOB NO:	501-23	3-29	5	<b>1</b>			
WELL DESIGNATION CHECK BOX FOR			DATE:	11/29/60 DIAMETÉR:			]			
LIFATUED CON	DECOME		1.0	VI DPDICCH		'' Inch	1			
WEATHER CONDITIONS; STATIC WATER LEVEL GPS COORD'S : LONG: LAT:										
							A 17 0/			
	TIME	DISTANCE FROM T WATER (FEET)	PRODUCT		1 ech	argu apx	0.27 e/m			
PRE-PURGE:	7.55	5.22	PRODUC	(FEET)						
POST PURGE:	11:05	12.30					•			
DEDTHO	- \AN-1 1						cirla			
DEPTH OF DEPTH TO		14.33				FEET	QQ x (m			
	WATER C	OLUMN 9.1			<del></del>	FEET				
FACTO	R # 4		2.47/		<del></del>		~ =33 mis			
WELL PLICEL /			2.6.(0)	·····	<del>-</del>		203/462			
TIME PH	TEMP	CONDUCTIVITY	SALINITY	TURBIDIT	v	DISS. O2				
(SU)	(C)	(umeha/cm) m S	(0/00)	TORBIDIT	•	(mg/l)	· ·			
8:25 9.41	13.0	1.9:	1.0	9.6		1	10.62			
9:40 10.43	14.6 Weil	runs dry	1.2	40			11.10			
10:40 12.26	15.0	S. S	C.8		30	<del> </del>	12.6			
			-0		3 <i>U</i>	<del> </del>				
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SAMPLED BY:	<b></b>						. **			
COMMENTS: *		1 -	· · · · · · · · · · · · · · · · ·	<del>*************************************</del>	<del></del>					
COMMENTS:	Well rung	dry @ 10:60 12.	wst.	<del></del>		<del></del>	•			
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THE PORT AUTHORITY OF N.Y. & N.J.

MATERIALS ENGINEERING DIVISION

WELL MONITORING DATA SHEET

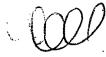
PROJECT:	HH-Pa	RTIVOR	Y PIG	SITE	JOB NO:	501-2	33-20	95		
WELL DES	GNATION:	: MW C	5_7_		DATE:	11 - 24-0	00			
CHECKE	30X FOR	LOWFLOW	12 RATE	(HL):		IAMETER:	2	<del></del>	Inch	
1. TE ATIL	FR CON	DHIANS.	SULAY	180 K	151	CK-UP DIST	ANCE:	/.3		
STATIC WATE	RLEVEL	795 CC	ORD'S	Lor	36:		AT.:			
-	2.34				<b>.</b>		<u> </u>			
					OP OF PIPE					
PRE-PURG	E.	TIME	WATER	<del></del>	PRODUCT	(reel)				
POST PUR		9.18AM 10:57AM	13.4	7						
1001101	OL.	70.770M	1 ). [	<u>,</u>	<u> </u>					
	DEPTH OF	WELL	· ·		14.32					
	DEPTH TO				10.90			FEET		
	DEPTH OF	WATER C	OLUMN		5.36					
4	FACTO	PR #		X	× 0.618					
WELL PURGE		IETOBE!	ZIMOVA	·	2.00	8				
							UTV.	Teres		
TIME	pH (SU)	TEMP	CONDUC (umohs		SALINITY (0/00)	TURBID	HIY	DISS		
9,224.	9.45	(C)	154		0.8	20		(111	9/1)	
9:33AM	9.41	13.60	148		0.8	30 25				
9.38 Mg	9.16	14.10	141		0.7	23	<del></del>	<b>-</b>		
	evacuate			Vistume,	1					
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SAMPLED	BY:	R	L S	E.M.						
00144545	ro.	WA	.//	10/	1	9:55AM	1			
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MATERIALS ENGINEERING DIVISION

WHITE SHEET

WELL MONITORING DATA SHEET

PROJECT:	HH – Po IGNATION:	RTIVOR	y PAG	SITE	JOB NO:	501-233-2	195			
WELL DES	IGNATION:	MW-EW-	- 3	-	DATE:	11/24/0				
CHECKE	BOXFOR	LOWFLOW	J. KATE	(HL):		IAMETER:	2 '' Inch			
WEATH	ER CONI	MIONS:	· · · · · · · · · · · · · · · · · · ·		[37]	CK-UP DISTANCE:				
STATIC WATE	ER CONT	<u> 195 CC</u>	ORD's	:Lo	NG:	LAT.:				
•					OP OF PIPE	TO:				
[	· · · · · · · · · · · · · · · · · · ·	TIME	WATER		PRODUCT					
PRE-PURG	E:	13:15	1	3-41			•			
POST PUR	GE:	14:30		193						
	DEPTH OF		·	17.90			FEET			
	DEPTH TO		· ·		13.41 FEET					
	DEPTH OF		OLUMN	4·49 FEET						
WELL PURGE	FACTO			<u>X.</u>	0.6					
VILLE I DINOC	WOLUM	2-7	//							
TIME	·			TIVITY	SALINITY	TURBIDITY	DISS. O2			
1	(SU)	(C)	(umohs	(umohs/cm)			(mg/l)			
13.31	8.27	14.9	14	61	0.7	330				
13:45	8.20	15.0	17	49	0-8	65				
13:58	8-23	15-2	1702		0-8	27				
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COMMEN	COMMENTS:		Well went dig after one volume - Very don							
		revers								
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# THE PORT AUTHORITY OF N.Y. & N.J. MATERIALS ENGINEERING DIVISION

	•		BY YYELL IV	ONLICKI	NG DATA SH	<u>ce i</u>				
PROJECT:	HH-PO	RTIVOR	y PIG	SITE	JOB NO:	501-2	33-29	5		
WELL DES	IGNATION:	MW-	EW-6	'	DATE:	11/24	100			
CHECK	BOXFOR	LOWFLOW	12 RATE	(HL):	CASING D		4	Inch		
WEATH	ER CONI	DITIONS:			<u>  [51]</u>	CK-UPDIST	ANCE:			
STATIC WATE	ER CONI	-PS CO	ORD'S	:Lo	N(F:	<u> </u>	AT.:			
-					OP OF PIPE	TO:				
		TIME	WATER		PRODUCT	(FEET)				
PRE-PURG		9:20		20				. •		
POST PUR	GE:	10:55/	//.	96						
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	DEPTH OF					1.96		FEET		
	DEPTH OF	WATER C	OLLIMN	10-20 FEET 9-76 FEET						
	<u></u>		OLOWA	X 2-47/						
WELL PLINGE	WELL DIDOL									
11CCC TOTOL	WOLUM	le to bef	REMOVED	l	. 24	• 12				
TIME	(SID	TEMP	CONDUC	TIVITY	SALINITY	TURBID	ΠY	DISS. O2		
	(00)	(C)	(umohs		(0/00)			(mg/l)		
9255	2.75	15.3	35	96	2.4			مستو		
10:10	12:83	15.9	79		5.4	8.		-9		
10:20	12-80	17.4		90	4-8	6.		ļ <u> </u>		
10:25	12-78	17-3		30	4-9	7·6 5-4		<del> </del>		
10:34	12.89	17-1		00	15.4	5.5	, ,	1		
10.43	1.2.82	1770			<del>  2 7  </del>			1		
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MATERIALS ENGINEERING DIVISION
WELL MONITORING DATA SHEET

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PROJECT:	HH- P	RTIVOR	y 1 \$ 6	SITE	JOB NO:	501-2	33-29	15			
	IGNATION		0 104	Z\2	DATE: //	- 24~00 IAMETER:					
CHECK	SOX FOR	LOWFLOW	13 IKALE	(HL):			2	Inct			
WEATH	ER CON	othons:	SUNAY	34°F	[51]	CK-UPDIST	ANCE	0.()			
STATIC WATE	KLEVEL	795 CC	ORD's	::Lor	V(5:	L	AT:				
-		• ]			OP OF PIPE	TO:					
		TIME	WATER	<u>-</u>	PRODUCT						
PRE-PURG	E:	3 26PM	6.9			<u>,,,                               </u>		•			
POST PUR		4:19PM	7.8			<u></u>					
				·	. <del> </del>	·		-			
· · · · · ·	DEPTH OF	WELL		<u> </u>	13.42			FEET			
••	DEPTH TO		W.		6.98			FEET			
	DEPTH OF	WATER C	TER COLUMN 6.44					FEET			
	FACTO	PR # .	* X 0.618								
WELL PURGE		IETOBE!	RIMOVED		3.98						
THE					SALINITY	THOOLO	ITV	Inice co			
TIME	pH (SU)	TEMP (C)	CONDUC	/cm) (v S)	(0/00)	TURBIC	71 T	DISS. O2 (mg/l)			
3.30Pm	8.13	15.20	262/		1.4	50		(111911)			
3:42/M	8.07	15.1°	252		1.3	30					
3:50PM	7.69	15.20	27/8		1.4	ā5		-			
3:59PM	7.72	15.30 .	2712		1.4	23	· <del></del>				
25.2.1.	1	1		·							
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COMMEN	<u>TS:</u>		well	Sampl	ed a	4:1791	1				
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MATERIALS ENGINEERING DIVISION
WELL MONITORING DATA SHEET

PROJECT:	HH - Po	RTIVOR	y PIG	SITE	JOB NO:	801-2	-33-29	5			
WELL DES	IGNATION:	GW-3	· · · · · · · · · · · · · · · · · · ·	<del></del>	DATE:	11157/5	<i>\alpha</i>				
CHECK	30x FOR	LOWFLOW	12 KATE	(HT):	CASING D			Inch			
WEATH	ER CONI	MIONS:			[57]	ck-up dis	ANCE:				
STATIC WATE	RLEVEL	<u> 195 CO</u>	ORD's	: Lor	V(T:		.AT.:				
•					OP OF PIPE						
		TIME	WATER	(FEET)	PRODUCT	(FEET)		a rel			
PRE-PURG		12:15	8.64		<b> </b>		-MWP	e 6.64			
POST PUR	GE:	13:00	<u>_6.70</u>	<u> </u>	<u></u>						
	55571.05	- > > 0 1 - 1	<del></del>	17 42		<del></del>					
	DEPTH OF DEPTH TO			16.78							
		WATER	:OLUMN	2.1	it -		<del></del>	FEET			
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TIME PH TEMP CONDUCTIVITY SALINITY TURBIDITY DISS. 02											
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12:30	7.20	6.2	1:0	4	0.5	80					
1235	6.93	16.6	0.91	<u> </u>	0.5	<u> 29</u>		<u> </u>			
1240	4.87	16.7	0.9	<u> </u>	0.5	14	····				
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THE PORT AUTHORITY OF N.Y. & N.J.

MATERIALS ENGINEERING DIVISION

WELL MONITORING DATA SHEET

PROJECT:	HH - Po	RTIVOR	Y P&G	SITE	JOB NO:	501-2	33-290					
<b>WELL DES</b>	<u>IGNATION:</u>	<u> </u>	· <u>S</u>		DATE:	111271	<u>00</u>					
	BOXFOR			(HL):	CASING D			Inch				
WEATH	ER CODI	MIONS:			51	CK-UP DISTA						
STATIC WATE	RIEVEL C	PS CO	ORD'S	::Lor	J(5:		47.:					
-					OP OF PIPE	TO:						
		TIME	WATER		PRODUCT	(FEET)						
PRE-PURG		1320	10.6					· •				
POST PUR	GE:	14:05	14.50	2								
<b>,</b>	DEPTH OF	NAMEL I	<del> </del>	16.72	<del>,                                      </del>	<del></del>		FEET				
	DEPTH TO			10.60	·			FEET				
		WATER C	OLUMN	6.12				FEET				
· · •	FACTO	R # 2	211	X A.	618	!						
WELL PURGE VOLUME TO BEREMOVED 3.79												
TIME	TIME PH TEMP CONDUCTIVITY SALINITY TURBIDITY DISS. 02											
1 mic	(SU)	(C)	(u <del>mohs</del>	/em)m 5	(0/00)	( ÓINDIDI	• • •	(mg/l)				
13:20	6.92	15.4	G.		0.2	110		· · · · · ·				
3:39	4.79	15.9	Ŏ	0.41		50						
13:47	6.88	16.5	0.38		0.2	<u>G.</u>	7					
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MATERIALS ENGINEERING DIVISION

WELL MONITORING DATA SHEET

PROJECT:	ROJECT: HH - PORT IVORY P&G SITE JOBNO: SO1-233-295									
IWELL DES	IGNATION:	MW	r GW-	7	DATE:	11/24/00				
CHECKE	SOXFOR	LOWFLOW	12 IRATE	(Hr):	CASING D		" Inch			
WEATH	ER CONI	MIONS:	·	·	51	KK-UP DISTANCE:				
WEATH STATIC WATE	RLEVEL	-PSCO	ORD'S	:Lor	S(T:	LAT.:				
-					OP OF PIPE	TO: 1				
		TIME	WATER		PRODUCT					
PRE-PURG	F:	11:14	8.	\$2	_	(1 221)				
POST PUR		12:36	9.	26	-					
				<u> </u>	 		.			
	DEPTH OF	WELL			14.0	98	FEET			
	DEPTH TO				8-8		FEET			
	DEPTH OF	WATER C	OLUMN		6-16 FEET					
4	FACTO	R # .		X	0.6	18				
WELL PURGE	VOLUM	ETORER	REMOVED		. 3-6	31				
TIME	pH	TEMP	CONDUC		SALINITY	TURBIDITY	DISS. O2			
LIME	(SU)	(C)	(umohs		(0/00)	TORDIDITI	(mg/l)			
11:36	6.87	15714			0.4	60	 (g.,)			
11:39	6.60	16.6	70		0-3	14	-			
11:45	6.61	16.7	70		0.3	5-1	_			
11:50	6.60	16.7	705	<u>-</u>	0.3	5.2	-			
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THE PORT AUTHORITY OF N.Y. & N.J.

MATERIALS ENGINEERING DIVISION

WELL MONITORING DATA SHEET

PROJECT:	HH- Po	RTIVORY	r P#G	SITE	JOB NO:	501-233-2	95		
WELL DESI	GNATION:	GW9	· ************************************		DATE: \	1271 W			
CHECKE	SOXFOR	LOWFLOW	H. KATE	(HL):		IAMETER:	Inch		
WEATHI STATIC WATE	RCOPI)HIONS:			151	CA-UP DISTANCE:]		
STATIC WATE	R LEVEL	-PSCO	ORD'S	::Lor	J(T.:	LAT.:			
-		· [DISTANC	FROM TO	OP OF PIPE	TO			
		TIME	WATER		PRODUCT				
PRE-PURG	E:	14:30	9.45		1	1, 221,	•		
POST PUR		15:20	10.20	î					
					· · · · · · · · · · · · · · · · · · ·		-		
	DEPTH OF	WELL		16.8	4		FEET		
	DEPTH TO			9.4	5		FEET		
į	DEPTH OF	WATER C		39	·	FEET			
4	FACTO	R # 2	<u>,</u> u	$\times .6$	18				
WELL PURGE	VOLUM	LETOBER	REMOVED	4.5	57 ·				
TIME	рН	TEMP	CONDUC		SALINITY	TURBIDITY	DISS. O2		
1 mc	(SU)	(C)		/em) m 5	(0/00)	· · · · · · · · · · · · · · · · · · ·	(mg/l)		
14:HQ	7.10	15.3		5	0.1	290	1-1-1		
4:43	7.05	15.6	0.2	3	0,1	17.			
14:55	7.21	15.8	0.	24	0.1	6.4			
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SAMPLED	SAMPLED BY: DI+EW								
COMMEN	<u>rs:</u>	Well 13	Well is not marked. I.D. by proximity to PAMIL-11)						
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THE PORT AUTHORITY OF N.Y. & N.J.

MATERIALS ENGINEERING DIVISION

WELL MONITORING DATA SHEET

PROJECT:	HH-Pe	RT IVOR	y PAG	SITE	JOB NO:	501-233-2	95	j :
WELL DESI	IGNATION:	: PAMW -	ID_		DATE:	11/29/00		
CHECKE	BOX FOR	LOWFLOW	13 RATE	(HL):		IAMETÉR: 2"	Inch	1
WEATH	ER CONI	DITIONS:			151	CK-UP DISTANCE:		
WEATHI STATIC WATE	RLEVEL	7PS CC	ORD'S	LON	365:	LAT.:		
-	Z., Z.	. المارية المارية المارية المارية المارية المارية المارية المارية المارية المارية المارية المارية المارية الما المارية المارية المارية المارية المارية المارية المارية المارية المارية المارية المارية المارية المارية المارية			<u> </u>		· · · · · · · · · · · · · · · · · · ·	,
					OP OF PIPE			
	_	TIME	WATER		PRODUCT	(FEET)	t	
PRE-PURG		1245	12.62	,			•	
POST PUR	GE:	1355	12.6	<u>/</u>	<u> </u>			
1	25271.05	- \ 1 (- 1)		= 4 4				- !
	DEPTH OF			56.7	<u> </u>		FEET	
	DEPTH TO	WATER C	· OLL BAN	12.6	<u> </u>		FEET	
				2		FEET		
	FACTO	火 *	2"	X, 0.0	018	1		
WELL PURGE	VOLUM	LETORES	REMOVED	27	1,3			
TIME	рН	TEMP	CONDUC		SALINITY	TURBIDITY	DISS. O2	
1 11111	(SU)	(C)		1cm) m 5	(0/00)	TORBIDITI	(mg/I)	
13:20	7.06	15.4	H.7		2.2	11.3	(119-17	12.65
13:32	7.05	15.6	4.5		2.6	9.09		100.00
3:45	7.07	15.6	''''	a	2.6	5.4		
13.73	1101	1310	1.	7				
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* FACTOR = 0.618 FOR LINCH DIAMETER WELL CASENG * FACTAD . O 117.

MATERIALS ENGINEERING DIVISION
WELL MONITORING DATA SHEET

PROJECT:	HH-Po	RTIVOR	y P&G	SITE	JOB NO:	501-2	33-295			
WELL DES	IGNATION:	PA	M4-1		DATE:	11/	18/00			
CHECKI	BOXFOR	LOWFLOW	CIRATE	(HL):		IAMETER:	2"	Inch		
WEATH	ER CONI	MIONS:			51	CK-UP DIST	ANCE:			
STATIC WATE	RLEVEL	PS CO	ORD'S	: Lon	S(T:		AT.:			
-		_	· · - · - · - · - · - · - · · - · · - ·		OP OF PIPE	•				
		TIME	WATER		PRODUCT					
PRE-PURG	E:	10:54		164	_	-		•		
POST PUR		12:34		.32		-				
										
	DEPTH OF					-93		FEET		
	DEPTH TO		.01.19.01	<u></u>	5 • 64 FEET					
		WATER C	OLUMN			110		FEET		
WELL BURGE	FACTO			<u> </u>		618				
WELL PURGE VOLUME TO BEREMOVED 6.36										
TIME	рН	TEMP	CONDUC	TIVITY	SALINITY	TURBIC	YTIC	DISS. O2		
1	(SU)	(C)	(umohs	/cm)	(0/00)			(mg/l)		
11:04	11.85	15-1	13		0.7	Er	3			
11:28	12.25	16.5		70	1.2	F13				
11-45	12.35	16-4		00	1.34	E	,			
11:55	12:35	16-4	2)	129	1-4	<u> </u>	5			
					 					
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MATERIALS ENGINEERING DIVISION

WELL MONITORING DATA SHEET

PROJECT:	HH-Pe	RTIVOR	y PAG	SITE	JOB NO:		33-29	5			
WELL DES	IGNATION:	M	W-3		DATE:	7//	28/00	1/			
CHECK	IGNATION: 30xF0R	LOWFLOW	I RATE	(HL):	CASING D	IAMETER:	4	inch inch			
LIFATU	ER CON	THOUS.	·		1.51	CK-UP DIST	AIVL:				
STATIC WATE	RLEVEL	000	2002	+10	1071						
	ER CONT	FFS CC	OKUS		OCF.		AT:				
-					OP OF PIPE	TO:					
	· · · ·	TIME	WATER	<u>-</u>	PRODUCT						
PRE-PURG	:E•	12550		29		1.221		•			
POST PUR		13:55		31							
1.001101	OL.	1977.2	a	71							
	DEPTH OF	- VAZEL I			16.5	2 /2		FEET			
	DEPTH TO				5.2	3					
		WATER	·OLIMAN					FEET			
	<u> </u>		OLUMIA								
	FACTO	<u>R * .</u>		X	X 2-471						
WELL PURGE	Value	LE TOBE!	RIMOVED		6-8	P 27.1	18				
			<u>-</u>		lear mone	TUDDID	1774	Inion on I			
TIME	pH	TEMP	CONDUC		SALINITY	TURBID	1114	DISS, O2			
	(SU)	(C)	(umohs		(0/00)		·	(mg/l)			
13:15	7.01	16.1	90		5-1	68		1			
13:25	6.93	16.9		090	5.7	4.					
13:25	691	17-0	10,	020	5.7	25	-				
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PROJECT: WELL DES	HH- TO	RTLVOR	y P#6	51TE 1-45	JOB NO: DATE:	501-2	33-29	5			
	SOXFOR				CASING D	IAMETED.	B/00	<i>j.j.</i>			
LICATION	10 CON	LOWFLOW	AT TIME	(ML)•	1 24			Inch			
WEAT-HI STATIC WATE	RLEVEL	0111005	2003	- + / -	1011	CK-UP DIST					
-	17	713 CC				<u>_</u> <u>L</u>	AT:				
					OP OF PIPE						
DDE DUDO	·	TIME	WATER		PRODUCT	(FEET)					
PRE-PURG		8:45		3-53	+			·			
1001101	<u> </u>	107	l	7-7							
	DEPTH OF	WELL	······································	T	19-0	20		FEET			
	DEPTH TO				3.0		FEET				
	DEPTH OF	WATER C	OLUMN		15-	FEET					
4	FACTO	R #		X	0.6	18					
WELL PURGE	WELL PURGE VOLUME TO BEREMOVED 9-61										
TIME	рH	TEMP	CONDUC	TIVITY	SALINITY	TURBIL	OITY	DISS. O2			
· [(SU) (C) (umohs				(0/00)			(mg/l)			
4:05	6.90	14.9	62		0-3	80	2	-			
9:14	6.91	15-7	62		0-3	6.		-			
9:24	6.91	16.2	. 6	31	0.3		-0	 -			
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SAMPLED	BY:	AZ	LIEM				····				
COMMENT	rs:	Dup	ICATE	TAUE	N MW-	Dup					
	<u></u>	DUPLICATE TAKEN MW-DUP									
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MATERIALS ENGINEERING DIVISION

PROJECT: HH - PORT IVORY P&G SITE JOB NO: SO1-233-295

WELL MONITORING DATA SHEET

WELL DES	IGNATION:	: PA	MW-4	DATE:	11/28/0	0				
WELL DES	BOXFOR	LOWFLOW		IAMETER: 2"	Inch					
WEATHER CONDITIONS: STKK-UP DISTANCE:										
STATIC WATER LEVEL GPS COORD'S : LONG: LAT.:										
-		.			OP OF PIPE	•				
r		TIME	WATER		PRODUCT					
PRE-PURG	E •	10,00		×78	PRODUCT	(reel)	•			
POST PUR		10:44	6	×90	 					
1 551 1 511	<u> </u>	10.17	<i></i>	10		.,, -	·•			
	DEPTH OF	WELL	 	l	14.0	69	FEET			
	DEPTH TO				6.7	18	FEET			
	DEPTH OF	WATER C	OLUMN		7.9	11	FEET			
4	FACTO	R # .		X	0-6					
WELL PURGE	VOLUM	LE TORK!	REMOVED		. 418	39				
TIME	рН	TEMP	CONDUC		SALINITY	TURBIDITY	DISS. O2			
THAIC	(SU)	(C)	(umohs		(0/00)	TORDIDITI	(mg/l)			
10:10	6.70	14-7	3		0.2	EE3555	1 -			
10215	6.70	14-4	3:	39	0-2	69-4	_			
10:22	6.69	14.5	. 33	33	0.2	11,0				
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SAMPLED	BY:	_A2	& EN	1						
COMMENTS:										
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^{*} FACTOR = 0.618 FOR LINCH DIAMETER WELL CASENG お CACTOO . O リコ.

THE PORT AUTHORITY OF N.Y. & N.J.

MATERIALS ENGINEERING DIVISION

WELL MONITORING DATA SHEET

PROJECT: WELL DESI	HH-Po	RT IVOR	y PAG	SITE	JOB NO:	501-233-	295			
WELL DESI	GNATION:	PAP	1W-4D		DATE:	12/01/	9'' Inch			
WEATH	R COPI	MIONS:	51	CK-UP DISTANCE:						
WEATHER CONDITIONS: STATIC WATER LEVEL GPS COORD'S : LONG: LAT:										
•	DISTANCE FROM TOP OF PIPE TO:									
TIME WATER (FEET) PRODUCT (FEET)										
PRE-PURG	E:	9:45		-45	_		•			
POST PUR	SE:	113/5	13	-83	<u> </u>					
	DEPTH OF				421		FEET			
	DEPTH OF	WATER	:OLLIMN		33.1		FEET			
			OLOMIT	X	0.61					
WELL PURGE	FACTO		2542-1642		20.5					
		ie to Bei								
TIME	рН	TEMP	CONDUC		SALINITY	TURBIDITY	DISS. O2			
10 170	(SU)	(C)	(umohs		(0/00)	70	(mg/l)			
10:10	6.57	154	115		0.6					
10:21 10:44	6.51	15.9	115		0.6	24				
103-1-4	6-01			<u>د</u>						
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SAMPLED	BY:	A	2 & E	M	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	· · · · · · · · · · · · · · · · · · ·				
or nen salab					····					
COMMENT	<u>rs:</u>	5/00	MEREN	Ch.						
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* FACTOR = 0.618 FOR LINCH DIAMETER WELL CASENG

* FACTOD . O 117.

JOB NO:

501-233-295

MATERIALS ENGINEERING DIVISION WELL MONITORING DATA SHEET

PROJECT: HH - PORT IVORY P&G SITE WELL DESIGNATION: PAMW-5

WELL DESI	GNATION		- <u>5</u>		DATE:	1-24-00		1 ··	
HECKE	SOX FOR	LOWFLOW	12 JRATE	(HL):	CASING D	IAMETER:	2 Inch	<u>.</u>	
JEATHI	ER CON	DITIONS:		30°F	51	CK-UP DISTANCE	₹ 3.60	1	
ATIC WATE	R LEVEL	FPS CC	ORD'	5:LO	NG:	LAT	•	1	
			DISTANC	F FROM 1	TOP OF PIPE	TO:			
		TIME	WATER		PRODUCT				
RE-PURG	E:	1:18 Am	7:0				•		
OST PÚR	GE:	1:59PM	7.1	6					
								•	
	DEPTH O			!	/3.20		FEET		
	DEPTH OF	WATER C	OLUMN	 	7.03 6,6,17		FEET FEET		
			OLOMIT	X	0.618			1	
ELL PURGE	FACTO	K * ETOBEREMOVED		1		<u> </u>		F	•
	VOLUP				3.81			<u>.</u>	
TIME	рН	TEMP	CONDUC		SALINITY	TURBIDITY	DISS. O2	•	
1:0004	(SU) 6.47	(C)	(umohs		(0/00) 0.6	<i>e. 3</i>	(mg/l)		
1:30PM	6.87	14.70	1045		0.6	Er 3 320		ł	
148PM	6.76	148°	1048		05	45			- \
:54Pm		_					eter inother	Volume (424)
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ANDI ED	DV.		ML	F.M.		•			
AMPLED	BI:		11-0-	E.M.					. ~!
OMMENT	Γ S :	L	sell .	eva wal	ted Du	Minu 25	Volume 2000	>5/0W	ed th
		Relov		324 B	<u> </u>		Wa ~ ZOOML	(mix)	From n
		6000		'r\					
				mpled	@ 198	M		_	
				/					200
FACTO	2R = 1	7 618	FOR) TNOL	DIAMET	ER WELL C	1521/-	•	
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MATERIALS ENGINEERING DIVISION
WELL MONITORING DATA SHEET

PROJECT:	HH - Po	RTIVOR	Y PAG	SITE	JOB NO:	501-233-2	95				
WELL DES	IGNATION:	YAMW-	DATE:	11127100							
CHECKI	NAMETER:	Inch									
WEATH	WEATHER CONDITIONS: ISTKA-DPDISTAIKE:										
STATIC WATER LEVEL GPS COORD'S : LONG: LAT.:											
DISTANCE FROM TOP OF PIPE TO:											
	TIME WATER (FEET) PRODUCT (FEET)										
PRE-PURG	F:	10:30	7.60			1, ==:/	•				
POST PUR		11:55	7.68								
											
	DEPTH OF		•	17.80			FEET				
	DEPTH TO			7.68		· · · · · · · · · · · · · · · · · · ·	FEET				
	DEPTH OF	WATER C		10.12		· · · · · · · · · · · · · · · · · · ·	FEET				
	FACTO	R # .	2	X O.	618						
WELL PURGE	VOLUM	ETORES	REMOVED	6	25.						
TIME	pH	TEMP	CONDUC		SALINITY	TURBIDITY	DISS. O2				
1	(SU)	(C)		tem)MS	(0/00)		(mg/l)				
10:30	10.59	19.0	4.54		2.5	FR.3					
11:20	16.95	19.7	4.6		2.5	ER-3 ER-3					
11:20	11.36	19.7	4.78	3	2.6	FR-5					
											
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SAMPLE	BY:		Dl+ En								
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THE PORT AUTHORITY OF N.Y. & N.J. MATERIALS ENGINEERING DIVISION

WELL MONITORING DATA SHEET

(202 122 122 122 122 122 122 122 122 122	11:1 13				1.05						
PROJECT: HH - PORT IVORY P&G SITE JOB NO: SO1-233-295 WELL DESIGNATION: PAMW-6D DATE: 11/30/00											
WELL DES	IGNATION:	YA	MW- 61)	DATE:	il	130/00				
CHECKE	30XFOR	LOWFLOW	13 IKATE	(nt):	CASING D			Inch			
WEATH	WEATHER CONDITIONS: ISTKI-UPDISTANCE:										
STATIC WATE	WEATHER CONDITIONS: STRICTURE GPS COORD'S : LONG: LAT.:										
-	• · · · · · · · · · · · · · · · · · · ·										
	DISTANCE FROM TOP OF PIPE TO:										
TIME WATER (FEET) PRODUCT (FEET)											
PRE-PURG		11:29		26	-						
POST PUR	GE:	12:58	13	-63							
							-				
	DEPTH OF				45-			FEET			
	DEPTH TO				8.	26		FEET			
;	DEPTH OF	WATER C	OLUMN			159		FEET			
4	FACTO	R #	*		0.						
WELL PURGE			2 Selection	<u> </u>		1-23	·				
	MOLUM	ie to bei									
TIME	рН	TEMP	CONDUC		SALINITY	TURBIL	YTIC	DISS. O2			
I	(SU)	(C)	(umohs		(0/00)			(mg/l)			
11:46	7.04	16-2	1+80	19810	11-8		6				
11:58	7.10	16.6	22	100	13.2	T	40	~			
12:16	7:09	16.8	. 22	200	13-4	3	9	<u>_</u>			
12:29	7.08	16-8	22	300	13.5		6				
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CAMDI ED	BV.	A-	7 d	F. M.							
SAMPLLO	SAMPLED BY: A 2 & E.M. COMMENTS: Slow recovery										
COMMEN	τς.	ζ/	ba : = 3	2 (4							
COMMEN.	10:	1100	recov	-7							
											
											
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MATERIALS ENGINEERING DIVISION
WELL MONITORING DATA SHEET

IDDO ITOT	11:1 10	05 7	017	(c	Lionaro	0.1.	22 22			
PROJECT: HH - PORT IVORY PAG SITE JOB NO: SO1-233-295 WELL DESIGNATION: PAMO? DATE: 1/27/00										
CHECK BOX FOR LOWFLOW: RATE (HL): CASING DIAMETER:										
CHECKE	-/11-/-0	Inch								
WEATH STATIC WATE	RIEVEL I	THIONS:			1911	CK-UP DIST	ANCE.			
OTATIO WATE	C	FPS CC	OKD 3	LOI	V(7:	<u>_</u>	AT.:			
-		-	DISTANC	FROM TO	OP OF PIPE	TO:				
	TIME WATER (FEET) PRODUCT (FEET)									
PRE-PURG	E:	8:10	6.63			-\ <i>l</i>		•		
POST PUR		10:25	7.0							
1										
	DEPTH OF			13.	10			FEET		
	DEPTH TO			4.	.63			FEET		
		WATER C		6	·	FEET				
4	FACTO	R *	2"	XO	.618					
WELL PURGE	7	ETORES	REMOVED		3.99					
TIME	рН	TEMP	CONDUC		SALINITY	TURBIC	ITY	DISS. O2		
HIME	(SU)	(C)		icm) MS	(0/00)	TORDIC	71 T	(mg/l)		
8:25 *	7.06	14.9	(annons	1011) 1113	(0.00)	700		1.06		
10:50	7.40	15.6	1.00		0.5	27	0	1.06		
10:55	7.41	15.6	0.90		0.5	12	0			
n:00	7.42	15.8	0.9	3	0.5	210				
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MATERIALS ENGINEERING DIVISION
WELL MONITORING DATA SHEET

PROJECT:	HH - Pa IGNATION:	RT IVOR	y PAG	SITE	JOB NO:	501-233-	295		
WELL DES	IGNATION:	PA	MW- 7	D	DATE:	11/30	100		
CHECKE	30XFOR	LOWFLOW	12 RATE	(HL):	CASING D		2'' Inch		
WEATH	ER CONI	MIONS:	•	•	1511	CK-UP DISTANCE:			
STATIC WATE	RLEVEL	PS CC	ORD'S	LO	N(5:	LAT.			
DISTANCE FROM TOP OF PIPE TO:									
		TIME	WATER	<u> </u>	PRODUCT				
PRE-PURG	·E•	10:08		01	TRODUCT	(PEET)			
POST PUR		11:25		•37					
1001101	VL.	1(1)	7 8						
	DEPTH OF	WELL		·	46.40	2	FEET		
	DEPTH TO				11.01		FEET		
	DEPTH OF	WATER C	OLUMN		35-34		FEET		
4	FACTO	R #		X	0.618	?			
WELL PURGE		ETOBE	REMOVED		21.8	7			
TIME	pH	TEMP	CONDUC		ISALINITY	TURBIDITY	DISS. O2		
1	(SU)	(C)	(umohs		(0/00)	· onbibit	(mg/l)		
10,22	7.78	15.2		54	1.4	110	,		
10-35	7.32	16.8		86	2.4	950	_		
11'00	7.32	17.0		94	1.6	O.R.	_		
11:16	7-31	16.9	31	23	1-6	O.R.			
			 						
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COMMENT	rs.	1100	15/00	, resi	erera = 1	t runs als	10 st 13		
COMMEN	<u>10.</u>	1 10	<i>1</i> /	. La/	7	L 1 - 1) ar	3.0		
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MATERIALS ENGINEERING DIVISION

WELL MONITORING DATA SHEET

PROJECT:	HH-Po	RT IVOR	y P\$6	SITE	JOB NO:	501-233-					
WELL DESI	COATION:	1777	1 10 ATT	DATE: CASING DI	11/20/2						
CHECKE	SOX FOR	LOW LOW	M IKALE	JOASING DI	CK-UP DISTAIKE	2'' Inch					
STATICWATE											
WEATHER CONDITIONS: STATIC WATER LEVEL GPS COORD'S : LONG: LAT.:											
	DISTANCE FROM TOP OF PIPE TO:										
TIME WATER (FEET) PRODUCT (FEET)											
PRE-PURG		13:10		6-01	-		•				
POST PUR	GE:	16:45	<u></u>	7-80							
ı	DEDTUO	- \ \ \ T - \ \ 1					· ·				
	DEPTH OF			 	9-9	/	FEET				
			OLLIMN :		3-9		FEET				
			WATER COLUMN								
WELL PURGE	FACTO			<u> </u>	0-61						
WELL PORGE	VOLUM	le to Bes	REMOVED	<u> </u>	.2-4	5					
TIME	рН	TEMP	CONDUC	TIVITY	SALINITY	TURBIDITY	DISS, Q2				
	(SU)	(C)	(umohs		(0/00)		(mg/l)				
13:15	6-67	11-7	4701		2-5	39					
13:45	6-78	12-3	46		2-5	12	-				
14:30	6:79	12-8	47		2.6	66					
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COMMEN	ΓS:	Very	slow,	recore	<u> 1</u>						
	_ _	VOAR &	Metal	2 colle	eted wil	3 Groundfos	pump.				
	Other perameters were collected with a bailer										

PROJECT:	ROJECT: HH - PORT IVORY P&G SITE JOBNO: SO1-233-295										
WELL DES	IGNATION:	P	4 MW-10	Δ	DATE:	111	20/00				
CHECKE	SOX FOR	LOWFLOW	12 RATE	(HL):	CASING D	AMETER:	2	Inch			
WEATH	ER CONI	MIONS:	•	•	1591	CK-UPDIST	4NCE:				
WEATH! STATIC WATE	RLEVEL	PS CC	ORD'S	LO	V(T:		AT.:				
-					OP OF PIPE	TO:					
		TIME	WATER		PRODUCT						
PRE-PURG	E:	14:36		7-18	===	·					
POST PUR	GE:	15:30	7	-68							
							-				
	DEPTH OF					3-58		FEET			
	DEPTH TO		· · · · · · · · · · · · · · · · · · ·	<u> </u>		-18		FEET			
		WATER	OLUMN			110		FEET			
WELL PURGE	FACTO			<u> </u>	Or.						
TILL FUNGE	WELL PURGE VOLUME TO BEREMOVED 16.32										
TIME PH TEMP CONDUCTIVITY SALINITY TURBIDITY DISS. 02											
	(SU)	(C)	(umohs		(0/00)			(mg/l)			
14346	6-76	14-8		42	1.4	32					
14-56	6-74	15-6	26		1-4	40	=	<u> </u>			
15207	6-76	15-8	. 27	29	1-4	35					
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COMMENT	ΓS:	Fa	od re	uo re	/E)						
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MATERIALS ENGINEERING DIVISION

WELL MONITORING DATA SHEET

PRO JECT	HH - PA	PT Time	v P&C	CITE	JOB NO:	80/- 1	33-29				
WELL DES	HH - Pa IGNATION:	PAMIN	- 1175	1114		129/00	- > > - 27	2			
CHECKI	30×FOR	LOWFLOW	PATE	(HL):	CASING D	AMETER:	2	Inch			
WEATH	ER CONI)Mons:			511	CK-UP DIST	ANCE:				
STATIC WATE	RLEVEL	PS CC	ORD'S	Lor	V(5:		AT.:				
-		. !			OP OF PIPE						
		TIME	WATER	(FEET)	PRODUCT	(FEET)					
PRE-PURG		1415	22,28	3				. •			
POST PUR	GE:	1510	22.2	<u>5</u>	<u> </u>						
	DEPTH OF	- \An-1 I		117 6				CCC			
	DEPTH TO			46.5				FEET			
	DEPTH OF		OLUMN	24	27			FEET			
	FACTO			X	18 .618	/					
WELL PURGE) Fether view		15	*	<u> </u>				
TIME	TIME PH TEMP CONDUCTIVITY (SU) (C) (umobs/cm)/m.5				(0/00)	TURBIL	ЯΙΥ	DISS. O2 (mg/l)			
14:40	7.44	(4.0)	0.7	411/11/	0.3	110		(mgri)			
14:41	7.42	14.6	0.6	•	0.3	40		1			
15:00	7.47	14.5	0.7	, ,	0.3	18		1			
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COMMENT	TC.										
COMMEN	COMMENTS:										
											
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MATERIALS ENGINEERING DIVISION
WELL MONITORING DATA SHEET

PROJECT:	HH - Pa	RT TWO	v PtG	SITE	JOB NO:	801-7	33-29						
WELL DES	HH - Po IGNATION:	PA	MW-12	-	DATE:	111	28/00	<u> </u>					
CHECK F	LOVEDA	I OWELD.	PRATE	(HI):	CASING D		2"	Inch					
WEATH	ER CONI	MIONS:	<u> </u>		<u> [51</u>	CK-UP DIST	ANCE:						
STATIC WATE	ER CONT	PS CC	ORD'S	:LO	NG:	L	AT.:						
-					OP OF PIPE	TO:							
		TIME	WATER		PRODUCT	(FEET)							
PRE-PURG		15:05		-82	↓								
POST PUR	GE:	16:10	13	-21									
	DEPTH OF	WELL		1	2.0-	89	<u>.</u>	FEET					
	DEPTH TO				48		· · · · · · · · · · · · · · · · · · ·	FEET					
	DEPTH OF	WATER C	OLUMN		16.00 FEET								
4	FACTO	R # .		X	016								
WELL PURGE VOLUME TO BEREMOVED 9-89													
TIME	рН	TEMP	CONDUC	TIVITY	SALINITY	TURBIC	DITY	DISS. O2					
	(SU)	(C)	(umohs		(0/00)			(mg/l)					
15:15	12-80	15-5		90	4-1	85	0						
15:25	12-90	15-8	72	360 360	4-0	<u> </u>	<u> </u>						
15=36	12-91	16.0		50 <i>D</i>	4.0	E;	5						
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COMMENT	Γ S •	Fil	1400d	Mot	als)					
COMMEN	12.	- 11/ - 1/	سامم ل	· · · · · ·	1260 11	is wi	Tion.	<i>id</i>					
			~ 140°C	 J -)	J V	<u> </u>	4						
			comments: Filtered Metals slow revovery, very viscous liquid										

PROJECT:	PROJECT: HH - PORT IVORY P&G SITE JOBNO: SO1-233-295									
	GNATION:		MW- 13	7.3-	DATE:	11/3	28/00	1		
CHECKE	OXFOR	LOWFLOW	13 KATE	(HT):	CASING D			Inch		
WEATH	ER CONI	MIONS:			1371	CK-UP DIST	ANCE:			
STATIC WATE	KLEVEL C	PS CC	ORD'S	::Los	V(5:	L	AT.:			
•		٠	DISTANC	FROM T	OP OF PIPE	TO:	1	_		
		TIME	WATER		PRODUCT					
PRE-PURG	E:	14:05	11	115			Sheen			
POST PUR	GE:	14:53	1/	.21			,			
							.,			
	DEPTH OF					-00		FEET		
	DEPTH TO			 		15		FEET		
	DEPTH OF		OLUMN		5.85 FEET					
4	FACTO	R # .		<u>X</u>	0-6					
WELL PURGE	VOLUM	ETOBEL	REMOVED		. 3.	62				
TIME	рН	TEMP	CONDUC		SALINITY	TURBII	OITY	DISS. O2		
1	(SU)	(C)	(umohs		(0/00)			(mg/l)		
14:18	6.66	105	12	,670	7.3	6	0			
14:22	6.69			,110	7.6					
14:27	6.70	15-8 15-7	. 13	200	7.7	· c	7-3			
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SAMPLED	DV.	A2	\$ E.1	M.			······································	<u> </u>		
SAMPLED	<u></u>	VI-				 -				
COMMEN.	TS:	Black	liquille	wall it	5 heen					
<u></u>		Black liquid/smelle of sheen After one boling clear liquid								
		- Tree	- (0 00	<u> </u>	Teat [1	7-90				
		·····		············						

CHECK BOX FOR LOWFLOWS IRTEGREY: CASING DIAMETER: 9 IN WEATHER CONDITIONS: ISTUMPHOPOSIANE: STATE WATER FEET OF STATE WATER FEET) PRE-PURGE: ///30 3/86	WELL DES	GNATION	: PA	MW-14	, 1/c	DATE:	12/11	33-29	15
WELLPURGE: CONDITIONS; STICHPOSTANCE: LAT.:	CHECK	BOXFOR	LOWFLOW	J: TRATE	(HL):	CASING D	IAMETER:	9	// In
DISTANCE FROM TOP OF PIPE TO: TIME WATER (FEET) PRODUCT (FEET)	WEATH	er con	DITIONS			151			
DISTANCE FROM TOP OF PIPE TO: TIME WATER (FEET) PRODUCT (FEET)	STATIC WATE	ERLEVEL	FPS CC	ORD'	:Lo	NG:	L	AT.:	
TIME WATER (FEET) PRODUCT (FEET)	-					4			
DEPTH OF WELL			TIME						
DEPTH OF WELL DEPTH TO WATER DEPTH OF WATER COLUMN STOLY FACTOR * X 0.6/8; WOLUMETOBEREMOVED TIME PH TEMP CONDUCTIVITY SALINITY (000) (mg/l) 11:57 6-6/14-9 /4780 8-6 15 12:19 6-67 15-2 15360 9-0 8-1 12:29 6-68 15-2 15580 9-1 4-9 12:29 6-68 15-2 15580 9-1 4-9 SAMPLED BY: SAMPLED BY: A Z & EM COMMENTS: SOMMENTS: SOMMENTS:			11:30		186	,			•
DEPTH TO WATER DEPTH OF WATER COLUMN 37-14 FEET FACTOR * X 0.6/8; WELL PURGE VOLUME TO BEREMOVED 2.2.95 TIME PH TEMP CONDUCTIVITY SALINITY TURBIDITY (mg/n) 11:57 6.6/ 14.9 /4780 8.6 15 - 12:10 6.67 15.2 15360 9.0 8.1 - 12:12 6.68 15.2 15580 9.1 4.9 - 12:12 6.68 15.2 15580 9.1 4.9 - SAMPLED BY: A Z & EM	POST PUR	GE:	13:11	4	.98				
DEPTH TO WATER DEPTH OF WATER COLUMN 37-14 FEET FACTOR * X 0.6/8; WELL PURGE VOLUME TO BEREMOVED 2.2.95 TIME PH TEMP CONDUCTIVITY SALINITY TURBIDITY (MOD) 11:57 6.6/ 14.9 /4780 8.6 15 -12.10 6.67 15.2 15.360 9.0 8.1 12.10 6.67 15.2 15.360 9.1 4.9 -12.12 6.68 15.2 15.580 9.1 4.9 -12.12 6.68 15.2 15.580 9.1 4.9 -12.12 6.68 15.2 15.580 9.1 4.9 -12.12 6.68 15.2 15.580 9.1 4.9 -12.12 6.68 15.2 15.580 9.1 4.9 -12.12 6.68 15.2 15.580 9.1 4.9 -12.12 6.68 15.2 15.580 9.1 4.9 -12.12 6.68 15.2 15.580 9.1 4.9 -12.12 6.68 15.2 15.580 9.1 4.9 -12.12 6.68 15.2 15.580 9.1 4.9 -12.12 6.68 15.2 15.580 9.1 4.9 -12.12 6.68 15.2 15.580 9.1 4.9 -12.12 6.68 15.2 15.580 9.1 4.9 -12.12 6.68 15.2 15.580 9.1 4.9 -12.12 6.68 15.2 15.58 15.2 15.58 15.2 15.58 15.2 15.58 15.2 15.58 15.2 15.58 15.2 15.58 15.2 15.58 15.2 15.2 15.3 15.2 15.2 15.2 15.3 15.2 15.2 15.2 15.2 15.2 15.2 15.2 15.2		DEPTH OF	= VA/IEL I			111.0	<u> </u>		
DEPTH OF WATER COLUMN FACTOR * X 0.618. VOLUMETORER MOVED TIME PH TEMP CONDUCTIVITY SALINITY TURBIDITY (1901) [SU] (C) (umohs/cm) (0/00) [II:57] 6-61 14-9 14-9 14-780 8-6 15						71.01			
FACTOR * X 0.618. VOLUMETOREREMOVED 2.2.95 TIME pH TEMP CONDUCTIVITY SALINITY TURBIDITY DISS. O (mg/l) 11:57 6.61 14.9 14.780 8.6 15 12:10 6.67 15.2 15.360 9.0 8.1 12:129 6.68 15.9 15.580 9.1 4.9 FACTOR * X 0.618. FACTOR * X 0.618. TIME pH TEMP CONDUCTIVITY SALINITY TURBIDITY DISS. O (mg/l) 11:57 6.61 14.9 14.780 8.6 15 12:10 6.67 15.2 15.360 9.0 8.1 12:129 6.68 15.9 15.580 9.1 4.9 FACTOR * X 0.618. FACTOR * X 0.61				OLUMN		37-14	1		
TIME pH TEMP CONDUCTIVITY SALINITY TURBIDITY DISS. O (mg/l) [SU) (C) (umohs/cm) (0/00) (mg/l) [12:57 6:6/ 14:9 /4780 8:6 15 [2:40 6:67 15:2 15360 9:0 8:1 [2:29 6:68 15:2 15580 9:1 4:9		FACTO	P #		X	0-61	P		
TIME pH (SU) (C) (umohs/cm) (0/00) (1/157 6-6/ 14-9 /4780 8-6 15 12-10 6-67 15-2 15-360 9-0 8-1 1-2/19 6-68 15-2 15-580 9-1 4-9	WELL PURGE			REMOVED					
(SU) (C) (umohs/cm) (0/00) (mg/l) 11:57 6-61 14-4 14780 8-6 15 12:10 6-67 15-2 15360 9-0 8-1 12:29 6-68 15-2 15580 9-1 4-9 SAMPLED BY: A Z & EM Slow recovery	TIME		 			SALINITY	TURRID	ITY	DISS O
11:57 6.61 14.9 14.780 8.6 15 - 12:10 6.67 15.2 15.360 9.0 8.1 - 12:29 6.68 15.9 15.80 9.1 4.9 - SAMPLED BY: COMMENTS: Slow recovery	·	(SU)		(umohs	/cm)	(0/00)		•••	
19:29 668 15.2 15580 9.1 4.9 — SAMPLED BY: COMMENTS: Slow recovery				14	780			`	
SAMPLED BY: AZ & EM SOMMENTS: Slow recovery	12/10			15	360				
SAMPLED BY: AZ & EM COMMENTS: Slow recovery	1 4.24	6.68	1572	. 15	280	1-91	4.0	1	+=
SAMPLED BY: AZ & EM COMMENTS: Slow recovery	1					1			
SAMPLED BY: AZ & EM COMMENTS: Slow recovery									
SAMPLED BY: AZ & EM COMMENTS: Slow recovery				·		 			
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COMMENTS: Slow recovery				 ,		 			
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COMMENTS: Slow recovery						1			-
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COMMENTS: Slow recovery			 			-			1
COMMENTS: Slow recovery	 -	 				-			
COMMENTS: Slow recovery	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	·	ـــــــــــــــــــــــــــــــــــــ	l		<u> </u>		····	
	SAMPLED	BY:	H2	/ EE	14				
	COMME	·o.	(1-	,	- 				
FACTOR = 0 618 FOR DEADLA DIAMETER	COMMENT	<u>ə:</u>) 104	recon	rg		 		
FACTOR = 0 618 FOR DENNISSON									
FACTOR = 0618 FOR DEADLE DIAMETER								······································	·
FACTOR = 0 618 FOR DEADLA DIAMETER									
	FACTO	R = 1	0.618	FOR 1	TNOL	DIAME	60 tras	حد درس	~ \

FACTOR

MATERIALS ENGINEERING DIVISION

WELL MONITORING DATA SHEET

PROJECT:	I								
	IGNATION:			7 3-	DATE:	11/20			
	BOXFOR				CASING D		2	Inch	
WEATH	RLEVEL /	MIONS:	Good		[5]	CK-UP DISTAN	KE:	3.20'	
STATIC WATE	K LEVEL	PS CC	ORD'S	::Lor	J(F:	LA	丁:		
-			DISTANCI	FROM TO	OP OF PIPE	TO:			
		TIME	WATER		PRODUCT				
PRE-PURG	E:	10:07	ė	-59				. •	•
POST PUR	GE:								
	DEPTH OF		· · · · · · · · · · · · · · · · · · ·			00		FEET	•
	DEPTH TO				4-			FEET	
	DEPTH OF		OLUMN	<u> </u>	600			FEET	
	FACTO	R *		<u>X</u>	0.6	18			<u>-</u>
WELL PURGE	VOLUM	ETORES	REMOVED	}	.3.9	6			
TIME	рН	TEMP	CONDUC		SALINITY	TURBIDIT	Y	DISS. O2	
1	(SU)	(C)	(umohs		(0/00)	rondion	•	(mg/l)	
10:44	6-48	16.0	37		0.2	05			
11:00	6-48	15+3	36		0.2	05			
11:10	6146	16.4	. 37	, 2	0.2	650			
11:45	6.56	16-0	30	71	0.2	210		٠	44 71
12:15	6.59	16-1	3 9	5	0-2	205			057 offscole
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SAMPLED BY: AZ Q E.M.									•
COMMENTS: Well mes dry after each yelme - Very is Low flow was used to tem loved for bidit appliest sample. Sampling commend						Sinad Lity d 11	ldy if bai/ 2.16 →	er of fest Consumations Setting gruses	
Used 0145 micron for metals									

MATERIALS ENGINEERING DIVISION

WELL MONITORING DATA SHEET

PROJECT:	PROJECT: HH - PORT IVORY PAG SITE JOB NO: SO1-233-295 WELL DESIGNATION: FAMW-ISD DATE: 11/20/00											
WELL DES	IGNATION:	FAA	1W-15D	Z N-	DATE:	1411	1/20/00					
CHECK	30x FOR	LOWFLOW	JE JKATE	(HT):		IAMETER:	2'	' Inch				
WEATH	ER CONT	MIONS:	<u> </u>		137	CK-UP DIST						
STATIC WATE	KLEVEL C	PS CC	ORD'	::Lor	J(5:	L	AT:					
-	<u>-</u>	·			OP OF PIPE							
1		TIME	WATER		PRODUCT	(FEET)						
PRE-PURG		10:08		-दव				•				
POST PUR	GE:		L	-	l							
	DEDTH OF	18871			#0.	(1 f)		CCCT 1				
	DEPTH OF			<u> </u>	92.	49		FEET				
		WATER	OLLIMN		42			FEET				
			OLOIMI			18		1661				
WELL PURGE	FACTO			<u> </u>								
VOLOMETO BERITOVED 26.27												
TIME	рН	TEMP	CONDUC	TIVITY	SALINITY	TURBIC	OITY	DISS. O2				
	(SU)	(C)	(umohs		(0/00)			(mg/l)				
12-23	6.83	15-7		32	1.1	D.S		_				
13:05	14.76.9		21	62	1-1-1	<u> </u>						
13:48	687	15.4		57	1.2	2/		<u> </u>				
14:15	6-99	15-6		64	1-2	0-						
14:20	6-99	15-7	2 2	84	1-2	0-						
14:35	7.00	15.5	22	90	1-2	- O7	<u> </u>	1				
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SAMPLED	BY:	AZ	2 d E /	ч								
COMME	re.	1/20	.) [itered i	Motol	`					
<u>COMMEN</u>	10:	1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	~ uddy	<u> </u>	170,00 1	16/100	,					
												
												

MATERIALS ENGINEERING DIVISION
WELL MONITORING DATA SHEET

PROJECT: WELL DESI	HH-Po	RTIVOR	y PAG	SITE	JOB NO:		295				
WELL DESI	GNATION:	PA	MW-15	D Repeat	DATE:	11 30/00 AMETER:					
CHECKE	OX FOR	LOWFLOW	13 KATE	(HL):	CASING DI	AMETER:	2 Inch				
WEATH	R CON	MIONS:	·		151	CK-UP DISTANCE:					
WEATHE STATIC WATE	R LEVEL	<u>-PS CC</u>	ORD'S	LO	NG:	LAT.:					
-		· !			OP OF PIPE	TO					
f		TIME	WATER		PRODUCT						
PRE-PURG	E:	8:16		3.23	-	<u> </u>					
POST PUR	GE:	9:56	13	5-53							
	DEPTH OF		-		52-4		FEET				
	DEPTH TO				13-2		FEET				
	DEPTH OF		OLUMN		39		FEET				
	FACTO	R #		<u>X</u>	0.61						
WELL PURGE VOLUME TO BEREMOVED 24.26											
TIME	рН	TEMP	CONDUC		SALINITY	TURBIDITY	DISS. O2				
	(SU)	(C)	(umohs		(0/00)		(mg/i)				
8:45	7.53	14-2	22	74	1.2	D.R.					
9:18	7.43	16.4	23	37	1.2	0.R.	_				
9:33	7.40	18.0	. 23	32	1-2	O.R.	_				
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SAMPLED BY: AZYEM											
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COMMEN	rs:	Vers	madde	-5/0	w recove	is well a	ses dry				
		between	y volum	lo		0	7 -0 -				
		Fil	tered m	etab.							

PROJECT:	PROJECT: HH - PORT IVORY P&G SITE JOB NO: SO1-233-295 WELL DESIGNATION: MIX PZ-1 DATE: 11-24-00										
			PZ-1	7 3	DATE:	11-24-00					
CHECKE	SOX FOR	LOWFLOW	J. KATE	(HT):	CASING D	IAMETER: 2	2. Inch				
WEATH	ER CON	DITIONS:	SUM1)	34°F	51	CK-UP DISTANC	£: 2.4				
STATIC WATE	RLEVEL	FPS CC	ORD'S	: LON	305:	LAT	.:				
-	•			FROM TO		·					
r		TIME	WATER		PRODUCT						
PRE-PURG	F:	2:10/14	4.6			<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>	•				
POST PUR		2 49PM	4.9								
		<u> </u>	<u> </u>	<u> </u>	l						
i	DEPTH OF	WELL			14.	/3	FEET				
	DEPTH TO					63	FEET				
	DEPTH OF	WATER C	OLUMN		9.	5	FEET				
	FACTO	R #		X	0.61						
WELL PURGE		IETOBES	REMOVED		5.8	71					
TIME	рН	TEMP	CONDUC	TIVITY	SALINITY	TURBIDITY	DISS. O2				
	(SU)	(C)	(umohs		(0/00)		(mg/l)				
a:15Pm	7.32	13.60	[a4.	5	0.6	95	-				
2:21PM	7.20	14.40	123	9	0.6 0.6	110					
2:35Pm	7:02	15.60	. /260)	0.6	110 *					
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SAMPLED	BY:		6. 15.	14.							
COMMENT	<u>rs:</u>	W	/e// s	ampled	at	2:45PM					
		*	METALS	FILT	ered						
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* FACTOR = 0.618 FOR LINCH DIAMETER WELL CASENG

#FAMO - n 117.

MATERIALS ENGINEERING DIVISION
WELL MONITORING DATA SHEET

IDDO ITOT.	HH. P.	05 T	0+7	(175	JOB NO:	0.1.2	22 00			
WELL DES	HH - Po IGNATION:	RILVOR	y P\$6	>1/E	DATE:	501-2		5		
CHECK F	30XFOR	LOWFLOW	I TRATE	(HL):	CASING DI		4"	Inch		
WEATH	ER CONI)Mans:			1511	CK-UP DIST	dive:			
STATIC WATE	ER CON[-PSCO	ORD'	: 10	NG:		AT.:			
-	G.,,C.	·]			OP OF PIPE					
		TIME	WATER	<u>-</u>	PRODUCT					
PRE-PURG	E:	14:50	4	-64						
POST PUR	GE:	16:20	12	75						
(<i>7</i> 1.				
	DEPTH OF				16.84			FEET		
	DEPTH OF		OLUMN	}	12-	FEET				
	FACTO			X	2.4	سور برسود و المراجع				
WELL PURGE	VOLUM		2 FAMOVED		30.					
							im.	Inion on I		
TIME	pH (SU)	TEMP (C)	CONDUC (umohs		SALINITY (0/00)	TURBID	HY	DISS. O2 (mg/l)		
15:23	9.02	13.2		5-5-	0.3	955	· · · · · · · · · · · · · · · · · · ·	(1191)		
15:30	10.60	15.0	7	10	0.3	310		-		
15:41	11-22	15.0	y	48	0.2	200				
15:52	11.24	15-1	4	34	0-2	188		-		
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SAMPLED	SAMPLED BY: AZ & DP COMMENTS: Filtered Metals									
COMMEN	<u> 15:</u>	ril+	ered r	retal						
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THE PORT AUTHORITY OF N.Y. & N.J. MATERIALS ENGINEERING DIVISION

PROJECT: HH - PORT IVORY P&G SITE JOBNO: SO1-233-295											
WELL DES	IGNATION:	: MW R	5-2		DATE:	-24-00					
CHECKE	30XFOR	LOWFLOW	13 RATE	(HL):	CASING D		4	Inch			
WEATH	ER CONT	OHIONS:	SUNNY		× 51	CK-UP DIST	ANCE:	0.0			
STATIC WATE	RLEVEL	FPS CC	ORD'S	: LO	V(7:	L	AT.:				
-					OP OF PIPE	·					
		TIME	WATER		PRODUCT						
PRE-PURG	F.	11.24Ar	6.00	1 6619		(1221)		•			
POST PUR		12:1apm	6.70								
\		<u> </u>			-1	· · · · · · · · · · · · · · · · · · ·		-			
	DEPTH OF	WELL			6.02			FEET			
	DEPTH TO				7.20			FEET			
		WATER C	COLUMN		/./8 FEET						
4	FACTO		X	2.471	<u>.</u>						
WELL PURGE	VOLUM	ETOBEL	REMOVED		2.92						
TIME	TIME pH TEMP CONDUCTIVITY SALINITY TURBIDITY DISS. 02										
111111	(SU)	(C)	(umohs		(0/00)	, 0,,,,,,,	••••	(mg/l)			
11:30AM	8.56	14.10	1883			E-					
11.40Am	8.57	16.60	184	<i>4.</i>	0.9	270	;				
11:47Am	8.54	16.7°	1840	2	0.9	250					
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L	1	<u> </u>	<u> </u>	/		<u> </u>		····			
SAMPLED	SAMPLED BY: R.6. /E.M.										
COMMEN.	COMMENTS: No.			ampbel	@ 12:	05 PM					
* Metals / Fixtered											
		·									

* FACTOR = 0.618 FOR LINCH DIAMETER WELL CASENG

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MATERIALS ENGINEERING DIVISION

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PROJECT: HH - PORT IVORY P&G SITE JOBNO: SO1-233-295												
WELL DES	IGNATION:	TW *1	<u>l</u> _		DATE:	11/29/06 DIAMETER: 2"						
CHECKE	BOXFOR	LOWFLOW	12 RATE	(HL):		IAMETER: 2"	Inch					
WEATH! STATIC WATE	ER CONT	TIONS:			159	KA-UP DISTANCE:						
STATIC WATE	RLEVEL	20666	2000	- 1/00	3/	LAT.:	 - 					
-	177	7) 3 CC		, acor	<u> </u>	<u> </u>						
		•	DISTANC	FROM TO	OP OF PIPE	TO:						
f		TIME	WATER	(FEET)	PRODUCT	(FEET)	•					
PRE-PURG	E:	11:35	6.10				•					
POST PUR	GE:											
\			<u> </u>				-					
	DEPTH OF	WELL	·	13.9	70		FEET					
	DEPTH TO				10		FEET					
		WATER C	OLUMN		% 0		FEET					
ا			2"		618	· · · · · · · · · · · · · · · · · · ·						
WELL PURGE	FACTO	B T										
WELL PURGE	VOLUM	ie to bef	LEMOVED		t.8 ·							
TIME	рН	TEMP	CONDUC	TIVITY	SALINITY	TURBIDITY	DISS. O2					
	(SU)	(C)		tem) m 5	(0/00)		(mg/l)					
11:45	7.62	13.9	1.4		0.7	Errorlichal						
11:55	7.05	145	7.5		0.9	Error (to high	/]					
11:05	7.12	14.5	1.8		0.9	E2						
11103	1-12	 , , , , , , , , , , , , , , , , , , ,			\							
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CAMPLED	, DV											
SAMPLED	/ D1:											
001414545	το.	ha c	15	v.11 (11.	· N. C 41						
COMMEN	19:	10 Jan	nph tox	rietals 1	rillee	in the field						
			'									

THE PORT AUTHORITY OF N.Y. & N.J. MATERIALS ENGINEERING DIVISION

WELL MONITORING DATA SHEET

PROJECT: HH - PORT IVORY P&G SITE JOB NO: SO1-233-295								
WELL DES	CNATION:	KILVOR	y PAG	SITE	JOB NO:	501-233-	295	
WELL DESIGNATION: TW 2					DATE:	12-2-00	Inch	
WEATHER CONDITIONS: SUMY 28°F STRA-DPDISTANCE: 2.0 STATIC WATER LEVEL GPS COORD'S: LONG: LAT:								
GPS COORD'S: LONG: LAT:								
DISTANCE FROM TOP OF PIPE TO:								
TIME WATER (FEET) PRODUCT (FEET)								
DDE BUDO	r:.				PRODUCT (PEET)		•	
PRE-PURGE: POST PURGE:		11:15AM	6.85				•	
FOST FOR	GE.	Ta. aupin	<u></u>	0 3	<u> </u>	- <u></u> 1		
DEPTH OF WELL //, 05 FEET								
	DEPTH TO			11.03			FEET	
			WATER COLUMN		4.28			
1				X 0.619			FEET	
WELL PURGE	FACTO					<u> </u>		
WELL PURGE VOLUME TO BEREMOVED 2.65								
TIME	pH TEMP C		CONDUC	CONDUCTIVITY		TURBIDITY	DISS. O2	
	(SU)	(C)		tan) uS	SALINITY (0/00)		(mg/l)	
1):21AM	7.18	16.3°	29		17.5	F2		
11:30AM	7.28	16.2	3167		1.5	1,006		
11:40	7.10	17.1		3%	1.7	735 ×		
<i>V' 1 10</i>				<i>V.U</i>				
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SAMPLED BY:								
COMMENT	<u>rs:</u>	(Sheen Visible in Purged volumes					
* METALS SAMPLED WITH FILTER								
Well sampled at 12:00PM								