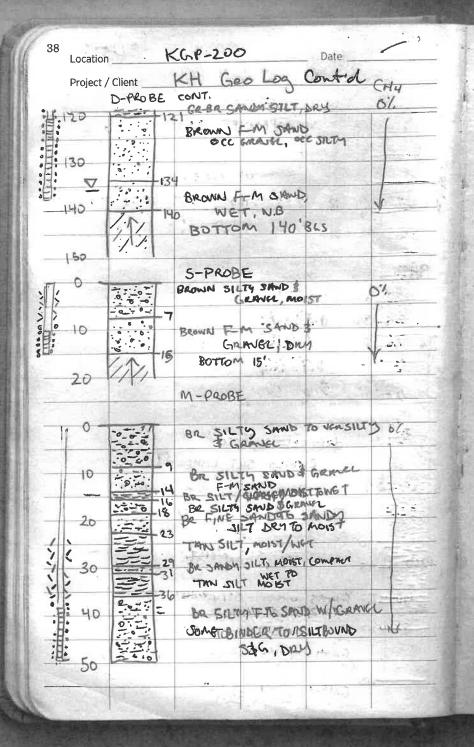
## APPENDIX C KGP-200 FIELD DOCUMENTATION, PHOTOGRAPHS, AND WELL LOGS



## **C-1 Field Notes**



Location KGP-200 Date 3/13/18 KG-200 Date Location Project / Client KH Geo Loth ... Project/Client Kent Hy Wands D-PROBE CHY TUES MARCH 13, 2018 BR SILTY FM SIMBOCEMEN 745 MEBON 0% SILTIER HOUT ON BR F-M SAND GERMEN KE ON DROP OFF HASP BIL VI MOIST - WET F-M SHND 2-280 14 BR SILTEGORIS SAVA CRAPEL SBT UP 201 810 BR V MOIST EM SAID! 0% SAFETY MEETING, RILDP BE FM Samb Sity Gener 0.7% KC-200 D. BY FAND TO SILTY DRILLING 0-5' 03% BROWN SILTY FM SMOS GRACL 01/ BR F-M SIND & GRANGE DIS MOIST OCHY DANS TAN SILT, BASTONET 5-10 SILTIEN 4-9 BIL SILES FIN SAND & GRAVEL 0.5% LRL CREMER IN SILTY STAND 9-10 GR SILT-SILTBOUND SIGMOIST GR SILTY EMSHAUD GRANT Brown THATGEN FM SHUD, WET 925 10-20' & CH4 60 35 4-R GREAT SILTBOUND 386 MOIST GRAY SILT MOIST TO DRY BRITTLE W/ DCC 10-14 Br F-m smd & Graphi OCH4 CLAYEN SILT LAYERS .. 14-16 V. MOIST-WET EM SAND 80 16-18 SILT BOUND SNO CAMEL Ø CHU 18-20 SILTY SEL BROWN OCHL 20-30' O.1% CHY GRAY CLAYES S ILT, MOIST 20-23 0% CHY 25' 0,2% CHy 103 GRAM SANDY SILT, WET/V. MOIST 27' 07% CHA 30 0.3% CH4 GRAY SILT OCC GROVEL, GRAN-BENN SANDA SILT Rite in the Rain.



Location	KG-8-200	Date _	3/13	39
Project / Client	KH	•		

200 D VIMOIST SILTY FIMSAM SAND& GRAVEL BRY BR FM BR. F. M SAUD COCC SILTY DAD. BREM SHUD Dar 29-30 30-40 DRILLING 30-34 0.31. CHU 0% CHY 0.7% CH4 0.6% CHL 30-34 BR SILTY FLM SAND DOC MOIST BRF-M SAND& GRAVER, DAS BR SILT/ SILTY SHOLD SILTBOUND, DRY 0% CMU GAM SILT SILTBOUND OF CHY MOIST NTIL S-MSAN 3 CRAN FI

Rite in the Rain.

Location KGP-200 Date 3/13 Project / Client KH Project / Client 700 D 01. 644 46-55 GRAN SILT SILTBOUND 0% JBG , MOIST 0% GRAM SILTY S\$6, DM 48-52 52-55 Grum SILT SILTBOUND 1330 Sigh , MOIST TO DM" 55-60 WET @ 86 55-56 Cam SUT-SILT BOUND SAC MOIST 58-59 TAN-GRAN SILTS F-M SAND, WET GRAMSILTBOUND SAND 59-60 BSILT, MOIST 1420 11-1130 LUNCH JEFF NEURON ON 120 1205 DRILL 60-70' 107-110 60-61 Gama SILTBOUND 0%. CH4 SAND & GRAVER V. MOIST 61-70 GROY SILT - MOIST TO DAY O/ CHN

200 D 70-77 Even SILT 0% CHY mgo from site of chi DRILL 80-90" 0/ 044 GRAY SILT DRILL 90-107 90 OF CONDUCTOS 01 CH4 CASNIL 90-95 GRAN CLAYEN-SILT V. MOIST 95=102 CIRAL SILT V. NOIST COMPACT 102-103 GAAS SANON SILI UMBIST MET 193-107 - GRAM SILT V, MOIST TO WET DRILL 107-120 \$ 1 CHY GRAN SILT V. MOIST 110-110 GAMY SIT OCC GRAVEL V. MOIST 15-120 GRAN-BR SANION SILT Dry

Riteins

Dat 3/13 KGP-200 Location Project / Client 200 D DRILL TO 130 0%, CH. 130-131 TRANSTIONALGRBA SILTY SAND, MOIST. 121-190 BR F-M SAND OCC GRAPEL OCC SILTY bry of chy 130 -140 130-134 BAF-MSHM Dun 34-140 WET BR F.M. SAND, WI COLLAPSE HOLE 1500 BACK TO 134 The state of the s SCREENED ZONE TO BE 118-138 WILL CONSTRUCT IN AM SET UP FOR CONSTRUCT /CLEANUP 1600 OFF-SITE

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Date 3/15 Location KGP-200 Project / Client middle Probe 200-m MPB ON HOLTON 755 815 DRILLING 0-5 5-10 10-20 "- IS BR SILTY SAG 18-20 BY FING SAND, DAY 20-23 Br SAUDY GILT MOIST TO 23-29 TAN SILFT MOIST-WET 29-30 BUSAND 7.510T COMPACT, FING 900 910 DAYLYNG 30-40 0% CH4 30-31 BRESANDY SILT OCC GRAVEL COMPARET MOIST 316-36 TAN SILT MONT-WET TO DIE) 37-40 BR FING SAMS BOUND SILTY SAND & GRAVELY DE 4050 0/. CHY BR SILTY FINE-M SHOUD W GRAVEL SOME BINDER 129. HAMES, COMPRET SETTING 39-49 1215 MUB OFF

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	S M D 3/1 MORE STANDER OF TWO STANDE	3/16/201 3/16/201 MARIA HA STW 44 STW 50 STW 50 STW 50	BKX 28  AN/KE  S  M \$371  D 1396  3/16/2014  MN \$1316  TW \$11  TW \$11  TW \$0.95  TW 50.87  TW 50.84	BXX 289, 3 AW/KE NOT S 13761 1 3/16/2014. M 937, 5 D 13761 1 3/16/2014. MASH HOUT ON STW 45.1 BLS DTW 50.878 TOO DTW 50.878 TOO DTW 50.878 TOO DTW 50.878 TOO DTW 50.878 TOO DTW 50.84 BTO	BKX 289, 290  AN/KE NOTES:  S 1794  M \$371 52.3  D 13961 140.4  3/16/2014  MARRIE NOTES:  S 1794  M \$371 52.3  D 13961 140.4  STN 413 865  TW 50.95 B TOC  DTW 50.878 TOC	BKX 289, 280, 2  AW/KE NOTES:  S 1794  M \$371 52.3  D 13961 140.41  3/16/2014  MARRIE NOTES:  STW 413' BLS PUR  DTW 451 BLS PUR  DTW 50.87 BTOC  DTW 50.87 BTOC  DTW 50.884 BTOC  DTW 50.884 BTOC	S 1794  M 4371 52.3  D 13761 140.41  3/16/2014  MOB HOLT ON HOLD  STN 41.3 BLS PUNE  STN 45.1 BLS PUNE  STN 50.95 B TOC  STW 50.87 B TOC  STW 50.84 B TOC  STW HASW'T CHARLEN	BKX 289, 290, 291  AN/KE NOTES:  S 1794 32  M \$371 52.3 343  D 13961 140.41 343  STN 413 865 PUMP ON HOLT PU  STN 413 865 PUMP ON HOLT PU  STN 451 BLS PUMP ON HOLT PU  STN 50.878 FOC  STN 50.84 BTOC  STN 50.82-0 TOC APPEAR	BKX 289, 290, 291  AW/KE NOTES:  S	BXX 289, 280, 291  AN/KE NOTES:  S	BXX 289, 280, 291  AN/KE NOTES:  S 1794 32" 2.75  M 4371 52.3 34 ½ 2.89  D 13961 140.41 34" 2.83  3/16/2014  MARY HOLT ON HOLT PUMED WELL  STN 41.3' BLS PUM ON IT.  STN 45.1 BLS PUM ON IT.  STN 45.1 BLS PUM DOWN  STN 50.876 TOC 52.3' BTOC  STW 50.84 BTOC  STW 1435W'T CHAMMEN  TW 50.82-0TOC APPEARS STABLE	BXX 289, 280, 291  AN/KE NOTES:  S	BXX 289, 280, 291  AN/KE NOTES:  S

## **C-2 Photographs**





Overview of the Sonic drilling rig over KGP-200 D.



Overview of the KGP-200 drilling site.





Overview of KGP-200 relative to the northern property boundary.



Photograph of the typical screen install, slotted on one-side only.





KGP-200 at 5 feet.



KGP-200 at 10 feet.





KGP-200 at 15 feet.



KGP-200 at 20 feet.





KGP-200 at 25 feet.



KGP-200 at 30 feet.





KGP-200 at 35 feet.



KGP-200 at 40 feet.





KGP-200 at 45 feet.



KGP-200 at 50 feet.





KGP-200 at 55 feet.



KGP-200 at 60 feet.





KGP-200 at 65 feet.



KGP-200 at 70 feet.





KGP-200 at 75 feet.



KGP-200 at 80 feet.





KGP-200 at 85 feet.



KGP-200 at 90 feet.





KGP-200 at 95 feet.



KGP-200 at 100 feet.





KGP-200 at 105 feet.



KGP-200 at 110 feet.





KGP-200 at 115 feet.



KGP-200 at 120 feet.





KGP-200 at 125 feet.



KGP-200 at 130 feet.





KGP-200 at 135 feet.



KGP-200 at 140 feet.



## C-3 Well Logs



			PROJECT: Parametrix SPU Kent Highlands Landfill		DJECT NUN 1887	MBER:				
	hsi		LOCATION: SW of Veterans Drive and Riverview Blvd in Kent, WA		_L ID: <b>GP-200-</b> \$	S				
<b>EHS-I</b> 1011 SW	<b>nternatio</b> / Klickitat Way	nal, Inc. , Suite 104	DRILLING CONTRACTOR: Holt Services		RTHING: prox. 47.	393794		EASTING: Approx122.282513		
Ph: 206.	Washington 98 381.1128 5.254.4279	3134	DRILLING EQUIPMENT: Track Mounted Sonic	GRO	DUNDWATI	ER ELEV	.:	TOC ELEVATION: Approx. 260'		
			DRILLING METHOD: Sonic		AL DEPTH	:		DEPTH TO WATER:		
LOGGE <b>MPB</b>	D BY:		SAMPLING METHOD:	DAT	' <b>bgs</b> E STARTE // <b>14/18</b>	D:		DATE COMPLETED:		
-		(0	6" continuous core	03	<del>// 14/ 16</del> <u> </u>			03/14/18		
Depth (feet)	Groundwater Depth	USCS	Soil / Lithologic Description		CH4 Reading (%)		W	ell Installation Data		
<b>-</b> 5						-5				
-						_		TOC 2.75' above grou	ınd	
_						_	-	3' Stick Up Monume	ent	
0 -						-0		Concrete		
-		GM	Brown silty sand and gravel, moist		0.0	_		Bentonite Chips (2' - 8' bgs)		
5 —					0.0	<b>-</b> 5		3/4-inch diam. Schedule 80 PVC		
-					0.0	_	0.5	Blank Riser (-2.75' - 1	0' bgs	
10 —					0.0	- - 10	=			
-		GM	Brown fine to medium sand and gravel, dry		0.0	_		Pea Gravel (8'-15' bgs)		
_					0.0	_		3/4-inch diam. 0.010	" Slot	
15 —					0.0	_ _ 15		Schedule 80 PVC Screen (10' - 15 Total well depth 17.94' BTOC	ō' bgs)	
-			EOD 15! has			-				
-			EOB 15' bgs							
20						20		Page 1	of 1	
NOTES	S:					abla	Water Not en	bearing zones at time on countered		

		PROJECT: Parametrix SPU Kent Highlands Landfill	PROJECT NI <b>10887</b>	UMBER:		
ehs.		LOCATION: SW of Veterans Drive and Riverview Blvd in Kent, WA	WELL ID: KGP-200	)-M		
<b>IS-Internatio</b> 11 SW Klickitat Wa	nal, Inc.	DRILLING CONTRACTOR: Holt Services	NORTHING: Approx. 4	7.393795	EASTING: Approx122.282485	
attle, Washington 9 : 206.381.1128 x: 206.254.4279	98134	DRILLING EQUIPMENT: Track Mounted Sonic	GROUNDWA		TOC ELEVATION: Approx. 260'	
		DRILLING METHOD: Sonic	TOTAL DEPT	TH:	DEPTH TO WATER: 50.82' BTOC	
GED BY: <b>PB</b>		SAMPLING METHOD: 6" continuous core	DATE START 03/15/18	ſED:	DATE COMPLETED: 03/15/18	
Groundwater Depth	nscs	Soil / Lithologic Description	CH4 Reading (%)	,	Well Installation Data	
			<u> </u>	5	TOC 2.89' above ground	
					3' Stick Up Monument	
- - -					Concrete	
	GM	Brown silty to very silty sand and gravel, moist to dry		<u>-</u> 5	Bentonite Chips (2'-37' bgs)	
			0.0	F	3/4-inch diam. Schedule 80 PVC	
-	GM	Brown silty fine to medium grained sand and gravel, dry		- 10 -	Blank Riser (-2.89' - 39' bgs	
	ML	Brown silt, very moist to wet	0.0	_ _ 15		
	GM	Brown silty sand and gravel, dry	0.0			
	SM	Brown fine sand to sandy silt, dry to moist		20		
			0.0	- - 25		
	ML	Tan silt, compact, very moist to wet		- 20		
	SM	Brown silty fine to medium sand occasional gravel, dry to moi	0.0 st 0.0	30		
	ML	Tan silt, compact, wet				
;			0.0	- 35 - -	52	
				40		
	GM	Brown silty fine to medium sand with gravel to silt-bound sand gravel, compact, dry	b		Pea Gravel (37'-50' bgs)	
- - - - -		and graver, compact, dry		- - 45 -	3/4-inch diam. 0.010" Slot Schedule 80 PVC Screen (39' - 49' bgs)	
- <del>-</del>		EOB 50' bgs	0.0	50	Total well depth 52.30' BTOC	
		EOB 30 bys		E		
				<sup>_</sup> 55		
		level in completed probe at 50.82'			Page 1 of 1	

	PROJECT: Parametrix SPU Kent Highlands Landfill	PROJECT NUI	MBER:	
ehsi 2	LOCATION: SW of Veterans Drive and Riverview Blvd in Kent, WA	WELL ID: KGP-200-I	D	
EHS-International, Inc. 1011 SW Klickitat Way, Suite 104	DRILLING CONTRACTOR: Holt Services	NORTHING: Approx. 47.	393797	EASTING: Approx122.282458
Seattle, Washington 98134 Ph: 206.381.1128 Fax: 206.254.4279	DRILLING EQUIPMENT:  Track mount	GROUNDWAT		TOC ELEVATION: Approx. 260'
	DRILLING METHOD: Sonic	TOTAL DEPTH	l:	DEPTH TO WATER: 139.61' BTOC
GGED BY:	SAMPLING METHOD: 6" continuous core	DATE STARTE 03/13/18	D:	DATE COMPLETED: 03/14/18
Groundwater Depth USCS	Soil / Lithologic Description	CH4 Reading (%)	,	Well Installation Data
0 —			-5 - - - 0	TOC 2.83' above ground  3' Stick Up Steel Monumen  Concrete
5 _ GM	Brown silty fine to medium sand and gravel, moist	0.0	- - - 5 -	Bentonite Chips (2'-116' bgs)
0 − GM	Brown fine to medium sand and gravel	0.0	- - 10 - -	3/4-inch diam. Schedule 80 PVC Blank Riser (-2.83' - 118' bg
5 - SP	Brown fine to medium sand, wet		_ _ 15	
GM	Brown silt-bound sand and gravel, dry		_	
GM	Brown silty sand and gravel	0.0	_ 20	
SP SP	Brown fine to medium sand, very-moist to wet		-	
		0.0	-	
95 — - - - -	Brown fine to medium sand with gravel occasional silty, dry	0.2	- 25 - -	
50 - SM	Brown fine to medium sand to silty sand, dry	0.3	- - - - -	
35   GM	Brown fine to medium sand and gravel,dry	0.3 0.0 0.7 0.6	- - 35 - - -	
10	Tan silt, bound/compact, dry to wet	0.0	- 40	
H5 GM	Brown silty fine to medium sand and gravel, dry		45	Page 1 of ing zones at time of drilling:

			Parametrix SPU Kent Highlands Landfill	PROJECT NU 10887	JMBER:			
	hs		LOCATION: SW of Veterans Drive and Riverview Blvd in Kent, WA	WELL ID: <b>KGP-200</b> -	-D			
EHS-I	nternati	onal, Inc.		NORTHING: Approx. 47	393797	EASTING: Approx122.282458		
Seattle, ' Ph: 206.	Washington 381.1128 5.254.4279			GROUNDWAT		TOC ELEVATION: Approx. 260'		
				TOTAL DEPTH	H:	DEPTH TO WATER: 139.61' BTOC		
DGGED BY: MPB			SAMPLING METHOD:  6" continuous core	DATE STARTE 03/13/18	ED:	DATE COMPLETED: <b>03/14/18</b>		
Depth (feet)	Groundwater Depth	uscs	Soil / Lithologic Description	CH4 Reading (%)		Well Installation Data		
5 _	<u> </u>			0.5	_ 45			
-		ML-GM	Gray silt to silt-bound sand and gravel, moist	0.0	-			
0 -		GM	Gray silty sand and gravel, dry	0.0	- - 50			
5 —	$\nabla$	GM	Gray silt-bound sand and gravel, dry to moist	0.0	- - - 55	Bentonite Chips (2'-116' bgs)		
-		SM	Tan-gray fine to medium grained sand, wet					
0 -		GM	Gray silt-bound sand and gravel, very moist	0.0	60			
- - 65 — - -				0.0	- - - - 65 - -	3/4-inch diam. Schedule 80 PVC Blank Riser (138' - 140' bgs)		
0 —				0.0	- - 70 - -			
5 —		ML	Gray silt, brittle with clayey silt and sandy silt layers, moist to ve moist	ry	- 75 -			
0 —				0.0	- - - 80 -			
- 5 — -				0.0	- - - 85 -			
0 —				0.0	90			
- - - 05		ML-CL	Gray clayey silt / silty clay, very moist		95	Page 2 of		
OTE:	S: <u>V</u>	···a.c.	level in completed well 139.61 feet below casing (BTOC)	$\Box$	Water bear ~14 feet bg	ring zones at time of drilling: is, ~41 feet bgs, ~56 feet bg igs, and ~137 feet bgs		

	ho	ier	PROJECT: Parametrix SPU Kent Highlands Landfill LOCATION: SW of Veterans Drive and Riverview Blvd in Kent, WA	PROJECT NUMBER: 10887  WELL ID: KGP-200-D		
EHS-International, Inc. 1011 SW Klickitat Way, Suite 104 Seattle, Washington 98134 Ph: 206.381.1128 Fax: 206.254.4279  LOGGED BY: MPB			·	NORTHING: Approx. 47.393797 GROUNDWATER ELEV.:  TOTAL DEPTH: 140' bgs  DATE STARTED: 03/13/18		EASTING: Approx122.282458
			DRILLING EQUIPMENT:  Track mount			TOC ELEVATION: Approx. 260'  DEPTH TO WATER: 139.61' BTOC  DATE COMPLETED: 03/14/18
			DRILLING METHOD: Sonic			
			SAMPLING METHOD: 6" continuous core			
Depth (feet)	Groundwater Depth	NSCS	Soil / Lithologic Description	CH4 Reading (%)	V	Well Installation Data
00 -	∨	ML	Gray silt, compact, very moist	0.0	- - - - - 100	
-	<del>-v</del> .	ML-SM	Gray sandy silt / silty sand, wet			
05 –		ML	Gray silt, very moist to wet	0.0	- 105 -	Bentonite Chips (2'-116' bgs)
10 —		ML	Gray silt occassional gravel, moist	0.0	- - 110 - - - 115	3/4-inch diam. Schedule 80 PVC Blank Riser (138' - 140' bgs)
20 –		SM	Gray-brown sandy silt, dry	0.0	_ _ 120	Pea Gravel (116'-140' bgs)
_	abla	SM	Brown fine to medium sand occassional gravel and some silty sand, dry  Brown fine to medium sand with some silty sand, wet	0.0		3/4-inch diam. 0.010" Slot Schedule 80
25 —				0.0	- - 125	PVC Screen (118' - 138' bgs
30 — -				y 0.0	- - - - 130	
35 —				0.0	_ _ 135	
40				0.0	-	Total well depth 140.41' BTOC
40 — - -			EOB 140' bgs	0.0	- 140	
45 -					_ 145	Page 3 of
NOTES	S: <b>V</b>		level in completed well 139.61 feet below casing (BTOC)	$\nabla$	~14 feet bgs	ng zones at time of drilling: s, ~41 feet bgs, ~56 feet bgs gs, and ~137 feet bgs