



Waterproof
Paper

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Project Description: 2012 KITIKMEOT
LANDFILL MONITORING

CAM-1

CAM-3

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CAM-1 JENNY LIND ISLAND

AUGUST 15, 2012

OVERCAST, APC, 20km/h NW.
CAS-1130 TRAVEL VIA TWIN
OTTER FROM CAMBRIDGE BAY
TO JENNY LIND.

SET UP CAMP

JOE KOAHA
KAYLENE EPILON.
CRAEME MALA
DANNY HANAK.

EAST LANDING LANDFILL
C112-32 to 35.

WP
75 71-SW

C112-32 WP 76
0-10 BLK ORG
10- GRAY SILT, W. FG SAND, WETE
0.3m

A-0-15
B-40-50

②

WP 77 C112-35

O - BRN SAND + GRAVEL, DRY, W.G.

A - 0-15

B - 40-50

WP 91 C112-34

O - BRN CS SAND + GRAVEL, LITE

TO NO FINES, DRY, 40 - SOME SILT/
CLAY/SAND.

WP 93 C112-33

SOUTH SIDE OF LF.

O - BRN CS SAND WITH GRAVEL

BD-1 A - 0-15 7x250

B - 40-50

16:40 - SNOW / FREEZING RAIN ③

WP

78 V - SE, sampling e 35

79 V - E, S C TOE NW CRNR

80 V - E, S - e TOP NW CRNR

81 V - ESE, N e SW TOP

82 V - SE ALONG TOE

83 V - NE FROM D

84 V - SE ALONG TOE

85 V - NE ON UPPER BENCH

86 V - WNW, N e SE TOE

87 V - WNW e END

88 V - W ALONG TOE

89 PAN - W - S. ACROSS TOP - NE CRNR

90 V - ESE ALONG Q

NO EVIDENCE OF EROSION, SETTLEMENT
EXCEPT

92 MINOR SETTLEMENT, 1.5m L E-W, 30

60W, 5-10 ↓ ON SW SLOPE

V - E, S

94 CRACK, E-W ALONG SE TOP

V - E, V 5-10 mm W

95 V - W 25m LONG, P. INFILLED
END. upto. 3cm ↓

2x close ups c 4 + 10m E.

FIE

④

USAF - LANDFILL

(SOUTH LOBE)

97 PAN SE - WEST SIDE SLOPE

98 V - SE, NW

99 V - E, NW

100 MARKER POST

101 V - N / SW

102 MARKER POST

103 PAN N - SSW - ACROSS TOP

104 V - WNW, SSE

105 PAN SW - E - ACROSS TOP

(NORTH LOBE)

108 PAN E - INNE

109 V - ENE SIDE SLOPES

110 V - N, WSW

111 V - WNW, S

112 PAN WNW - SSE

113 V - E, S

114 PAN SW - SE

⑤

II JAR - 1 BAG - DER LOCATION

WP 106 C112-31 NE COR

LT BRN SAND, F-MED CR, DAMP

P.G. SOME GRAVEL.

A - 0-15

B - 40-50

WP 107 C112-30 NW COR

0-10 BLK ORG. + SAND

10-50 LT BRN SAND, F-MED

CR, SOME GRAVEL, DAMP, P.G.

A - 0-15

B - 40-50

WP 115 C112-28 W - BLW COR

0-50 LT BRN SAND + GRAVEL,

TR. SHELLS, DRY, TRCBLS.

A - 0-15

B - 40-50

WP 116 C112-29 E - BLW COR

0 - LT BRN SAND, MED CR,

P.G., WITH GRAVEL, TRCBLS.

A - 0-15

B - 40-50

⑥

⑦

WP 118 C(12-27) SLOP LOSES
0-12 BLK ORG + SAND
10 - MED CR. LT BRN SAND
WITH GRAVEL, TRC BLAS, MMP

BD2 - A 0-15
B 40-50

LT SNOW FURRIES & RAIN MOST OF
NIGHT

LOW 0°C

AUGUST 16, 2012.

0°C, SNOW FURRIES, CLEARING 730.
TO P. CLOUDY, 20-30 km/h NW

BORROW AREA NORTH (LOBE 1 & 2)

WP
118 V-S @ N END
119 PAN W-S CROSS TDP
120 V-N ALONG E SLOPE
121 MAJOR SETTLEMENT / DEPR. ON SE COR
1m x 1m x 10' V-N E

(LOBE 3)

122 V-S SE / SW
123 PAN. W-S
124 V-S ENE / S
125 V-S MINOR DEPR. ON SIDE SLOPE
4m x 1m W x 10'
127 V-S ALONG W TOE
128 V-N E ALONG TOE & POND.
129 V-N / S E-SIDE
130 FURTHER WETTED AREA, ONLY 1x3
@ TOE. V-S IRON STAINING
THROUGHOUT AREA, SAME AS 2011.
131 V-N @ FURTHER AREA.

WP 126 C112-2 W OF LOBES 1+2

BARRE

0- BRN SAND, MED GR, W.
GRAVEL, DRY

A- 0-15

B- 40-50

WP 136 C112-3 NW OF LOBE 3

0- BRN SAND, WITH GRAVEL,
W.G., DRY, SOME CBLs.

A- 0-15

B- 40-50

WP 137 C112-4 W OF LOBE 3

0- BRN/GREY SAND, MED GR
P.G., WITH GRAVEL, DRY, TRORG

15- BRN AS ABOVE, NO DRG

A- 0-15

B- 40-50

WP 138 C112-1 E OF LOBE 3

0- LT BRN SAND, FRACTURED GR
LST, DRY, TRORG, 0-10

A- 0-15

B- 40-50

WP 140 C112-5 W OF LOBES 4/5

0- LT BRN SAND, MED GR, P.G.,
UNIFORM. (TRORG 0-10)

A- 0-15

B- 40-50

132 PAN N-SW ACROSS TOP

133 PAN NNE-NW, W

134 V- N ALONG W SLOPE

135 V- NE C W SIDE SLOPE

139 BM-1.

141 V- N AT S END

(LOBES 4-5)

141 V- SW OF NE SIDE

142 V- ESE C SL. STAINING ON SUR
143 V- ESW AT SIDE SL SAME AS

144 V- NE ALONG W SIDE SLOPE

145 PAN- NE-NW FROM S END

146 V- WSW AT MINOR EROSION AN
TOE + SIDE SLOPE WASHES OF R
UP TO 5' ON SE CORNER SLOPE
2m L AT TOE 2m W FORECRNE

147 PAN NNE-SW

148 START OF SURFLE CRACK ALONG S

TOP SLOPE, DISCONT. 1-3 mm

V- SW 116m L, 149 END

- ALSO MIN EROSION ON SLOPE

20m L 3m L FROM TOE, V- SSE

50m L V- NW KNOWN SIDE SLOPE

151 PAN E-N FROM S W CORNER

152 V- N ALONG W SIDE SLOPE F

(10)

NORTHEAST LANDFILL

1030

LT RAIN
SNOW

(LOBE 2)

153 V-SW ALONG CL

- W SIDE

- E SIDE

154 V-NE/SW ALONG CL

~~MISSING~~ WP V-NE ALONG CL

- W SIDE

- E SIDE

(LOBES 1+3)

157 PAN S-E

158 V-SW ALONG E SIDE

159 V-W ALONG N SIDE

~~160~~ V-WNW @ SETTLEMENT INSIDE

WP CORNER 1x2x0.2 & SAME

ALSO V-NE/NW ALONG SIDES

160 PAN SW-E ACROSS TOP

161 V-SE ALONG S OF SL

V-SW @ SETTLEMENT ON CRNR

SLOPE 1x4xW, 5-10 &

162 PAN S-NE, V-NE/SE

163 W-WNW, ENE ALONG SIDES

ALSO SEE PHOTO OF FEAT. A V-S

DA
JUNIOR
OF
DEIN
WATER
DO
ALL
DO
R.D.
E

(11)

WP 154

C112-6 E SIDE OF LOBE 2

0- GRAVEL + CBLs, SOME BRN
SAND F-MED GR, DAMP, B/R
REFUSAL @ 0.9

A- 0-15 B- 35-40

WP 156 C112-7 SW SIDE OF LOBE

0- BRN GRAVEL, SOME MED SAND,
DRY

A- 0-15 B- 40-50

WP 164 C112-8 NW SIDE OF L 1/3

B/D3 0-15 BRN/GRY MED SAND + R
A- 0-15 + GRAVEL, DAMP

B- 40-50 15- GRAVEL, LT BRN, SOME SAND

WP 165 C112-9 N SIDE OF L 1/3

0-15 DK BRN/BLK SAND, MED GR,
SOME ORG, DRY, SOME GRAVEL

15- LT BRN FRCT B/R, SOME SAND

A- 0-15 B- 40-50

(12)

STATION WEST LANDFILL

C112-10 WP 166

0-10' BRN/GRAY SAND WITH
GRAVEL, TR ORG,10- BRN (LT.) GRAVEL, SOME
F-MED SAND

A - 0-15 B - 40-50

C112-11 WP 181

0-10' F-M GR SAND, TR GRAVEL
+ ORG, DAMP10-50' AS ABOVE, LT BRN
A - 0-15 B - 40-50

C112-12 WP 182

0- LT. BRN SAND, F-M GR,
P.G, DAMP, TR ORG 0-5,

A - 0-15 B - 40-50 BD4

C112-13 WP 193

0- LT. BRN/GRAY SAND med gr,
TR GRAVEL, P.G

A - 0-15 B - 40-50

(13)

WP

167

PAN NW-S.

168

V-NW ^{EWSW} AT EROSION ON SLOPE
10-2x0.1x0.05 ⁵ ↓ SLOPE

169

4 MINOR DEPRESSIONS ON SUR

15-23 ²⁰ L, 10W, 0.05-0.1 ↓

V-E SAME

170

V-NW ALONG SIDE SLOPE

171

START OF SINGLE CRACKS, V-NW

15m L, 172-END. 3-10mm W

CLOSE UP - MIN. DEPTH 10cm

TOP OF SLOPE AT EDGE OF LOW AREA

(FORMER BORROW) + FORM. ^{BIASUAL} PONDING

173

EROSION ON FACE FROM ADJ. SEASON

PONDING V-SW 70m L, 4m W

PARABOLIC W/ SOME SETTLEMENT
ON SLOPE 3m L, 30-50 W, 5-10 ↓

174

Single crack, 1m up to 1.5m L, 3m W

V-SE (at W end of erosion), close

175

minor settlement on top near crest

V-E, 1.5m L, 20cm W, 5 ↓, ORIENT

176

DEPRESSION 2m IN FROM CREST

1m L, 10-15 W, 5 ↓ V-SE

(14)

1:30 TUESDAY

- 177 V. SE/SW ALONG TOP ^{TOP} $\frac{1}{2}$ SPAN W-SE
- 178 V-SSW $\nearrow$
- 179 DEPRESSION BELOW CREST
0.5 L; 0.2 W; 0.07 D
- 180 V-W AT UNEVEN END / ROTS IN
SAND NEAR LF.
- 183 V-E C LINEAR STAINING, RUST
COLORED 4m L x 0.3 W
- 184 V-W AT DEPRESSION ON SW CORNER
5m x 5m x 5-15d. UNEVEN SURF?
- 185 PAN SE-NE ACROSS TOP
- 186 V-SE/NE ALONG SIDE SLOPES
- 187 V-NW AT UNEVEN CORNER
- 188 STAINING/RUST, 1.5m UP FROM
CREST; 2m L, 20 W
- 188 STAINING OF 2 // CRACKS ALONG
SIDE SLOPE, V-^{ESE} 2-10mm W
L>190 END. V-~~ESE~~ W
WRAPS AROUND CORNER 16m L
30-60cm APERT. 0.5m Below
Crest.
- 190 PAN NE-W - ACROSS TOP
- 192 V-N-E S END

(15)

SOUTHEAST LANDFILL

- C112-18 WP 194
0-15 BRN SAND F-med gr.
p.g. dry
15-25 - W blk org.
25-50 LT BRN SAND, TR GRAVEL
A- 0-15 B- 40-50
- C112-17 WP 199
0-20 BRN/GREY GRAVEL, W-
SAND, F-MED GR. DRY B-
20 RUST CORRODED SAND, FRACT
A- 0-15 B- 40-50
- C112-16 WP 206
0- LT BRN SAND, SOME GRAVEL
F-MED GR., p.g. DRY - DAMP
TR OXID + CRG
A- 0-15 B- 40-50
- C112-14 WP 209
0- BRN GREY SAND + GRAVEL
WET, DRY
A- 0-15 B- 40-50

(B)

(SOUTH LOBE)

- 195 PAN SW-E ACROSS TOP
- 196 V- SW/E ALONG SIDE SLOPES
- 196 VEHICLE RUTS - SAME, V- NW/SE
- V- NE/S ALONG SIDE SLOPES
- 197 PAN ^E - N. FROM S. END.
- 198 V- N/NE ALONG SIDE SLOPES
- 200 START OF MINOR EROSION.
- V- SSE 15m L, 5-7cm W, 1-2cm D
- WASHING FINES VNNWC201
- 202 PAN N-SW. SAMPLING @ 16.
- 203 V- SW ALONG SIDE SLOPE
- 204 V- SW ALONG PC
- 205 MINOR DEPRESSION ON CREST.
- 50' x 15' V- 3' D, V- SE/NE
- OTHER SW/NE 30cm IN FROM TOP.

(NORTH LOBE)

- 207 PAN SW-E, SAMPLING @ 14.
- V- SSW, SE ALONG SIDE SLOPES
- 208 LIN. DEPR. L TO SLOPE
- 2m L, 0.15m W, 3-5' D V- NW/SW
- 210 V- NW/S ALONG SLOPE.
- 211 V- N/W

212 PAN NNE-SW. ACROSS TOP

C112-15 WSP 213

O - LT. BRN. SAND, SAWYER
GRAVEL, WGL DRY.

A-0-15 B-40-50

STATION EAST LANDFILL.

WSP

214 V- NNE ALONG TOE, SE "

215 MIN. EROSION NEAR TOE, FINES
DEP. SAME 3x1.5x54V- SW; LOW SPOT - SEASONAL
RUNOFF ALONG TOE.

216 V- NE/S ALONG SLOPE.

PAN - SSW - NE ACROSS TOP

217 V- SW/ESE " SLOPES.

218 V- WNW & LINEAR DEPRESSION
3-5m UP FROM CREST

4m L x 0.1-0.15 W, 5cm D, V- SE

e219

220 V- SE, NW.

(18)

221 50x50cm Pothole, 7cm d
V-E / SAMPLING @ 19

C112-19 WP 229

0-10 dk brn sand, ^W 30 gravel
F-Med gr, damp. some org
10- LT BRN, NO org
A- 0-15 B- 40-50

223 V- NW / S ALONG SIDE SLOPES

~~224~~ V- SW SEE 15

224 PAN NE-SW ACROSS TOP

225 V- NE / W SIDES PAN NE / - W TOP

226 V- NNE

227 V- NW / SW @ SIDE SLOPES

C112-20 WP 228

0 - BRN GRAVEL, SOME SAND,
F-MED GR, TRORG 0-10

A- 0-15 B- 30-40
40 BIR Refusal

PCB AREA INSPECTION

234 VIEW SW FROM RD

235 WSW @ SIGNAGE

236 NW "

237 NE "

238 SE, SIGNAGE MISSING / DOWN

DAMAGE TO N SIDE OF 248254.

10cm hole & base

ALSO SE SIDE BASE: 130cm LONG

2186555 - gauge on E side 20cm
40cm above floor

2086427 - puncture
gauge on west side
6cm L, 20cm above base floor

239 V- WNW ALONG S END

240 V- E DOWN CENTER ISLE

241 V- WSW ALONG N END

242 V- WNW @ OVERPACKS

243 V- ENE " "

244 V- SE @ SOIL BOXES

245 V- NE @ " "

(19)

(20)

LRN
- MAJORITY OF SOIL BOXES MISSING PLB LABELS
SEE SHEET

245 V-WIND & SOIL BOX AREA

NO EVIDENCE OF LEAKAGE / SPILLS

88	77	48	9	34	18	39	40
89	78	12	60	74	55	52	99
90	79	76	54	51	101	7	107
91	85	104	10	102	109	12	115
92	1	12	103	110	117	100	123
93		120	111	118	125	108	131
94		140	119	126	133	116	
95			127	134		124	132

↑ BOXES W/ MISSING LABELS

600 CALM, P. SUNNY (OVERCAST)

(21)

AUGUST 17, 2012

NO SNOW OVERNIGHT, MOSTLY MET
BY 7AM

P. SUNNY, 2°C IN AM, 5-10 KM E
P. CLOUDY 9AM

C112-21 WP 246

0- LT BRN SAND, SOME GRAVEL,
DRY, F-MED GR,
0.2 FRACT. BIR. TR. SAND BS
ABOVE, AS-Refusal

BDS A- 0-15 B- 35-45

C117-22 WP 250

0- LT BRN SAND WITH GRAVEL,
F-MED GR, P.G. TR-ORG 0-10,
A- 0-15 B- 40-50

WP

247 LOCAL DEPRESSION NEAR TOP SLOPE
60x30x.5 ↓ N-S. V-SW/NE
248 LOCAL DEPRESSION
30x40x.3 ↓ E-W. V-NE

FIELD

(22)

249. DEPRESSION ON COVER. 1.5m NE/SW

x 0.5m W x 10↓. EOC-POND 27

V-S.

251 PAN E-NNW

MAIN LANDFILL

252 V-ENE/1SW - SLOPES

253 V-SE @ MIN. DEPR. ON SIDE

SLOPE 1.5m L x 0.2 x 5↓

254 V-SW AT MIN. WASH OF FINES

ALONG TOE (IN 2011) - SLOPE.

255 V-NE/S - SLOPES

256. EROSION ON CRNR. 4m L x 50 W x

5-15↓ V-NE/SW

PAN SE-N.

257 V-S @ WASHED FINES ON TOE

258 V-ENE/N - SLOPES

PAN SE-N.

259 SEASONAL PONDING, EROSION

ON SLOPE, V-N, SAME.

260. TOP SLOPE 1. EROSION 1m L, 30-5 W.

TAPERING, S↓, V-N.

261 V-SW - SLOPES. SEAS. PONDING

V-NE MIN. EROSION SLOPE - 2.5m L^{AREA} 1m² 30 W x 3↓

(23)

262 PAN E-NW ACROSS TOP.

263 V-NE/W - SLOPES

264 V-SW/EE - SLOPES.

265 V-NW AT END

C112-24 WP 266

0-15 BRN SAND, MED GR, PG,
AND GRAVEL, TR OR GR 0-1015-^{ROCK} GRAVEL, ^{TR} FINE SAND

A-0-15 B-40-50

C112-25 WP 267

0-BON/CRET SAND, F-MED GR,
PG, TR, TR OR GR 0-10

WITH GRAVEL/BR, REGR 45.

B06 A-0-15 B-35-45

268 V-NE - SLOPE

V-NW @ MIN. DEPRESSION ON INSIDE

CRNR 3m L x 0.5m W, 5-10↓

SOME DEP. OF FINES, TR-TOE

269 PAN NW-S ACROSS TOP

270 V-NW/SE - SLOPES.

FIELD

(26)

MW-6W Slup = 0.54

Σ = 1.655, BENT ON TOP
(-dry) bottom

TP - 4m NE (710)

0 - dk brn / grey sand, with gravel
dry f-med gr, tr.org.

15 - Brn, as above

A - 0-15

B - 40-50

MW-7W Slup = 50

Σ dry bott. 1.545

frozen

TP 4m W - brn sand, with
gravel, f-med gr, dry, chls.

A - 0-15, B - 35-45

45 - refusal on berm

MW-8 Slup = 0.48m

Σ dry bottom = 1.595
frozen

TP 4m N

0 - BRN / GREY SAND + GRAVEL
F-med gr, dry

0.15 - BEN

A - 0-15

B - 40-50

(27)

1 SE @ 716

715 V-NW @ MIN - EROSION - TOP →

10m L, 2 dy, 15-20W

fined deposited mid slope

716 MIN SENT (DEPRESSION) JUST BELOW

CREST (1.5 slope) 1.2m, 25W, 10↓

V-NW @ 1.5

718 V-SE @ VT-2, VT-A IN BACKGROUND

719 MW-7

720 V-SE @ SIDE SLOPE

721 MW-8

722 V-SE / NE @ TOE

723 " " @ MIDSLOPE

724 PAN SE-N FROM W CORNER

725 PAN ENE-W FROM S CORNER

V-SSW DOWN SLOPE

726 V-NW / NE @ MIDSLOPE

727 " " @ TOE

728 V-NE @ S END / SLOPE

(28)

NON-HAZARDOUS WASTE LF.

729 - BMW-01

Slup 0.52

Z: dry bottom - 2.22
fryer.

TP - 4ms. BRN/GRY SAND + GRAVEL

2 1 SOME SILT + CBLS DRY

A - 0-15 B - 40-50

730 PAN SE - N. FROM W CRNR

V - SE ALONG SIDE

V - NE " 1

731 V - NE ALONG TOE

732 PIECE OF GEOTEXTILE, V - SE
SAME.733 LOCAL DEPRESSION @ EDGE OF COVER/
RIP RAP. 1.5m L x 0.3-0.5W, 100
V - NW

734 PAN ENE - NW ACROSS TOP

735 PAN NNW - SSW " " E CRNR

736 V - SW/NW FROM E CRNR TOE

737 EXP. GEOTEXTILE (SAME). V - S

738 MW-2

740 MW-3

741 MW-4

(29)

MW-2

Slup 35 1.595

TOTAL 1.89 HW = 0.295

O - LT BRN SAND, F - M GR PC,
SOME GRAVEL, BIRC 30.

A - 10-15 B D 8.

TRY 4 OTHER LOCATIONS - BIR BW 0.2
0.3ONLY 1x500ml ^{AMBER} BOTTLE, LT BRNINSUFF. - SAMPLE VOLUME
1x500 ml

MW-3 (BDW1)

TP - 3ms.

Slup 0.36

Z 1.312

TOTAL 2.235 HW =

C3C

T = 3.2/1.8 C = 1.906 ms/
TURB 2-37 pH 8.54/
8.95

L > 36/29.

6x500ml AM 3x250pl

6x250ml AM 9x40ml

O - BRN SAND WITH GRAVEL

F - MED GR, DRY, SOME CBLS

A - 0-15 B - 40-50.

(30)

MW-4. TD 3 m NE
 Slup = 0.37. γ 1.528
 bottom = 2.105. MW =

T = 2.4°C / 2.1

Cond 1.627 ms / 1.741

pH 12.45 / 11.82

Turb 07 / 84.

0- B2N SAND, WITH GRAVEL, DEW

FRACT. BIR 0.4 m, 1 SL-OXID

A - 0-15 - B - 40-50

742 - V. SE/SW. ALONG TDE FROM
 N. END.

743 PAN W-ESE ACROSS TOP.

744 EXP GEOTEXTILE, SAME. V-SSW.

* OVERALL - SUSTLE UNDULATIONS ACROSS
 SURFACE, UP TO 5 CM ↓

BD1	33A	-5	21A
2	27A	-6	25A
3	8A	-7	8.6A
4	12B	-8	26A

(31)

AUGUST 18, 2012

- Weathered in CAMBRIDGE Bay

AUGUST 19, 2012

- Weathered in CAMBRIDGE Bay
 2 OUT OF TAILORANK /
 GJOAHAVEN (REFUEL)

AUGUST 20, 2012

- Fog in CAMBRIDGE Bay
 ALL DAY

AUGUST 21, 2012

B30 TRAVEL TO CAM-1, PICKUP QVA
 CAMPING EQUIP. → TRAVEL TO CAM-2
 FORGED IN, → LAND AT ASAND. AIRS
 @ BEACH POL