

AUG. 15/02

EXISTING LOWER SITE LANDFILL (ELSL)

ELSL PHOTO LOC. 1 (WP 42)

- VIEW OF LANDFILL FROM
PUGRAOON HILL NEAR MW-20.
- PHOTOS 84, 85, & 86 (PANORAMIC)

ELSL PHOTO LOC. 2 (WP 41)

- RIP-RAP LINE DRAINAGE CHANNEL
AT BEND MIDWAY.
- PHOTO 87 (FACING WEST UPTHEM)
- PHOTO 88 (FACING EAST DOWNTHEM)
- RIP-RAP WITH COMPACTED AND
CONTOURED $\Rightarrow$ NO EROSION

ELSL PHOTO LOC. 3 (WP 43)

- SOUTHEASTERN END OF LANDFILL SURGE
- PHOTOS 89 & 90 (PANORAMIC
FROM TOP OF LF NEAR
RIPRAP DRAINAGE CHANNEL
BUTLET.
- NO EROSION OR SURFACE OBSERVED

ELSL CONT (PAGE 2)

ELSL PHOTO LOC. 4 (WP 44)

- NORTHEAST CORNER OF LF
- VIEW FROM BENCH FACING WEST
- PHOTO 91292 (PANORAMIC)

ELSL PHOTO LOC. 5 (WP 45)

- VIEW OF NE CORNER SLOPE
- FROM NW - 17
- PHOTO 95 (FACING SW)
- PHOTO 93 & 94 (PHOTOS OF PHASANTS)

ELSL PHOTO LOC. 6 (WP 46)

- PHOTO 96 (FACING WEST ALONG NORTH CRIST)
- NO TENSION CRACKS OBSERVED
- SOME SEEPAGE FROM LOWER HALF OF NORTH FACE
- NO STAINING OBSERVED

ELSL CONT (PAGE 3)

ELSL PHOTO LOC. 7 (WP 48)

- NORTH SLOPE NEAR THERMISTONS
- PHOTO 97 (FACING SOUTHWEST)
- SEEPAGE FROM LOWER HALF OF SLOPE, NO STAINING
- SOME VERY SMALL, OCCASIONAL tufts OF GRASS/VeG.

ELSL PHOTO LOC. 8 (WP 47)

- NORTH CRIST NEAR THERMISTONS FACING EAST
- PHOTO 98
- NO TENSION CRACKS OBSERVED

ELSL PHOTO LOC. 9 (WP 49)

- PHOTO 99 (FACING SE TO SLOPE)

ELSL PHOTO LOC. 10 (WP 50)

- NORTH SLOPE AT NORTH WEST END
- PHOTOS 100 ^{also (PANORAMIC)} (FACING SOUTHWEST)
- MINOR EROSION OF FINES BUT COARSE ROCKFILL IS SELF-ARMOURING
- NO SEEPAGE OR CRACKS OBSERVED

ELSL CONT (PAGE 4)

ELSL PHOTO LOC. 11 (WP 51)

- NORTHWEST CREST
- PHOTO 102 (FACING EAST ALONG CREST)
- PHOTO 103 (FACING SOUTH)
- PHOTO 104 (FACING WEST ALONG CREST)
- NO TENSION CRACKS OBSERVED

ELSL PHOTO LOC. 12 (WP 52)

- CREST AND TOP AT SOUTHWEST CORNER
- PHOTO 105 (FACING EAST)
- NO CRACKING OR SETTLEMENT OBSERVED

ELSL PHOTO LOC. 12 (WP 53)

- WEST SLOPE AND RIP-RAPPED DRAINAGE DITCH AT TOP
- PHOTO 106 (FACING NE)
- NO EROSION ON SLOPE OR IN DITCH

2008 Monitoring Well Sampling Log (MW # 20)

Site name:		CAM-4					
Date of sampling event:		AUG 14-16 / 2008					
Names of samplers:		TPB					
Monitoring well ID:		MW-20					
Facility:		LOWER SITE					
Known Data							
Depth of installation* (m):		3.43					
Length of screened section (m):		2.05					
Depth to top of screen* (m):		0.30					
Measured Data							
Condition of well:		GOOD		Procedure/Equipment:		INTERFACE METER	
Procedure/Equipment:		INTERFACE METER		Depth to water surface (m):		2.37 m bgs	
0.66m	Well height above ground (m):		2.37 m bgs		0.66	Depth to bottom (m):	2.93 m bgs
Diameter of well (m):		2"		Free product thickness (mm):		0	
Calculations							
Depth of water (m):		2.37		Evidence of sludge:			
Well volume of water (L):		1.12		Evidence of freezing/siltation:			
Static water level* (m):		1.71					
Length of screen collecting water (m):		1.97					
Development/Purging Information							
Equipment:		PERISTALTIC PUMP					
Date & Time	Volume Removed (L)	Temperature (°C)	pH	Conductivity (µS/cm)	Turbidity (NTU)	Description of Water	
15-AUG-08	1.50	4.76	6.67	0.396	4.4	C+L N/O	
Water Sampling				Soil Sampling			
Date & Time Collected:		15-AUG-08		Date and Time Collected:		15-AUG-08	
Sample Number - Water:		MW-20 DUP → MW-200		Sample Number - Soil:		MW-205 MW-20-35 DUP → MW-200-35	
Sample Containers:		4 VOLS 6 100ML AMBERS 2 1000ML AMBERS P.P. 1250ML PLASTIC		Sample Containers:		4/250mL Clear REF SAMPLE = A&S 2/250mL Clear = ESG 2/250mL Clear = Contest	
Procedure/Equipment:		P.P. 1250ML PLASTIC		Procedure/Equipment:		TROWEL	
Water Description:		C+L N/O		Soil Description:		SANDY SILT Brown DTAL	
Sampling Equipment Decontamination (Y/N):		Y		Sampling Equipment Decontamination (Y/N):		Y	
Number Washes:		1		Number Washes:		2	
Number Rinses:		1		Number Rinses:		2	

n/a=not applicable

*From ground surface. Unless this is stated, all measurements are assumed to be from the top of the casing.

2008 Monitoring Well Sampling Log (MW #17)

Site name:		CAM - 4					
Date of sampling event:		AUG 19 - 16 / 2008					
Names of samplers:		TPB					
Monitoring well ID:		MW 17					
Facility:		LOWER					
Known Data							
Depth of installation* (m):		3.82					
Length of screened section (m):		2.03					
Depth to top of screen* (m):		0.83					
Measured Data							
Condition of well:		GOOD		Procedure/Equipment:		INTERFACE METER RE R	
Procedure/Equipment:		INTERFACE METER		Depth to water surface (m):		1.48 STOP	
Well height above ground (m):		0.74		Depth to bottom (m):		2.20 STOP	
Diameter of well (m):		2"		Free product thickness (mm):			
Calculations				Notes			
Depth of water (m):		1.98		Evidence of sludge:		---	
Well volume of water (L):		3.00		Evidence of freezing/siltation:		---	
Static water level* (m):		0.74					
Length of screen collecting water (m):		0.63					
Development/Purging Information							
Equipment:		PERISTALTIC PUMP					
		6.16g					
Date & Time	Volume Removed (L)	Temperature (°C)	pH	Conductivity (µS/cm)	Turbidity (NTU)	Description of Water	
15-AUG-08	3.5 L	5.41	6.16	0.54	27.9	CIC N/O	
Water Sampling				Soil Sampling			
Date & Time Collected:		15-AUG-08		Date and Time Collected:		16-AUG-08	
Sample Number - Water:		MW-17		Sample Number - Soil:		MW-17-15 MW-17-40	
Sample Containers:		3 250ML AMMONIA 2 500ML VILES		Sample Containers:		2/250ML Clear REC SAMPLE	
Procedure/Equipment:		PERISTALTIC PUMP		Procedure/Equipment:		TROWEL	
Water Description:		CIC N/O		Soil Description:		BROWN SANDY SILT	
Sampling Equipment Decontamination (Y/N):		Y		Sampling Equipment Decontamination (Y/N):		Y	
Number Washes:		1		Number Washes:		2	
Number Rinses:		1		Number Rinses:		3	

n/a=not applicable

*From ground surface. Unless this is stated, all measurements are assumed to be from the top of the casing.



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2008 Monitoring Well Sampling Log (MW #18)

Site name:		CAM-4					
Date of sampling event:		Aug 14-16/2008					
Names of samplers:		TFB					
Monitoring well ID:		MW-18					
Facility:		LOWER					
Known Data							
Depth of installation* (m):		3.80					
Length of screened section (m):		2.03					
Depth to top of screen* (m):		5.81					
Measured Data							
Condition of well:		GOOD		Procedure/Equipment:		INTERFACE METER	
Procedure/Equipment:		INTERFACE METER		Depth to water surface (m):		0.73	
Well height above ground (m):		0.57		Depth to bottom (m):		2.30	
Diameter of well (m):		2"		Free product thickness (mm):			
Calculations							
Depth of water (m):		0.73		Evidence of sludge:			—
Well volume of water (L):		3.0L		Evidence of freezing/siltation:			—
Static water level* (m):		0.16					
Length of screen collecting water (m):		0.92					
Development/Purging Information							
Equipment:		PERISTALTIC PUMP					
Date & Time	Volume Removed (L)	Temperature (°C)	pH	Conductivity (µS/cm)	Turbidity (NTU)	Description of Water	
15-AUG-08	3.5	5.12	5.82	223	8.6	C+C Slight chemical odour	
Water Sampling				Soil Sampling			
Date & Time Collected:		15-AUG-08		Date and Time Collected:		15-AUG-08	
Sample Number - Water:		MW-18		Sample Number - Soil:		MW-18-15 MW-18-30	
Sample Containers:		3 500mL Amps 2 VOLS		Sample Containers:		2/250mL Clear PER SAMPLE	
Procedure/Equipment:		PERISTALTIC PUMP		Procedure/Equipment:		TROWER	
Water Description:		C+C Slight chemical odour		Soil Description:		BROWN SANDY SILT	
Sampling Equipment Decontamination (Y/N):		Y		Sampling Equipment Decontamination (Y/N):		Y	
Number Washes:		2		Number Washes:		2	
Number Rinses:		2		Number Rinses:		2	

n/a=not applicable

*From ground surface. Unless this is stated, all measurements are assumed to be from the top of the casing.



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2008 Monitoring Well Sampling Log (MW # 19)

Site name:	CAM-4					
Date of sampling event:	AUG-19-16-2008					
Names of samplers:	TFB					
Monitoring well ID:	MW-19					
Facility:	LOWER					
Known Data						
Depth of installation* (m):	3.83					
Length of screened section (m):	2.03					
Depth to top of screen* (m):	0.84					
Measured Data						
Condition of well:	GOOD		Procedure/Equipment:	INTERFACE METER		
Procedure/Equipment:	INTERFACE METER		Depth to water surface (m):	0.78 m 50'		
Well height above ground (m):	0.65		Depth to bottom (m):	7.10 m 50'		
Diameter of well (m):	2"		Free product thickness (mm):			
Calculations						
Depth of water (m):	0.78 m 50'		Evidence of sludge:	---		
Well volume of water (L):	7.70		Evidence of freezing/siltation:	---		
Static water level* (m):	0.78 m 50' 0.13					
Length of screen collecting water (m):	0.61					
Development/Purging Information						
Equipment:	Bailer					
Date & Time	Volume Removed (L)	Temperature (°C)	pH	Conductivity (µS/cm)	Turbidity (NTU)	Description of Water
15-AUG-08	3.2L	7.30	5.75	0.645	260	Clear Slight chemical odor
Water Sampling				Soil Sampling		
Date & Time Collected:	15-AUG-08		Date and Time Collected:	15-AUG-08		
Sample Number - Water:	MW-19		Sample Number - Soil:	MW-19-20		
				MW-19-50		
Sample Containers:	3 500mL Amber 2 VOCs		Sample Containers:	2/250mL Clear POLYMER SAMPLE		
Procedure/Equipment:	BAILER		Procedure/Equipment:	TROWEL		
Water Description:	Clear Slight chemical odor		Soil Description:	BROWN SANDY SILT		
Sampling Equipment Decontamination (Y/N):	Y		Sampling Equipment Decontamination (Y/N):	Y		
Number Washes:	2		Number Washes:	2		
Number Rinses:	2		Number Rinses:	2		

n/a=not applicable

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AUG. 15/08

SELECTING LOWER SITE LANDFILL THERMISTORS

VT-9 (LOWEST/NORTH)

VT-10

VT-11

VT-12 (HIGHEST/SOUTH)

PROGRAMMING CHECK

① CONFIG MODE

↳ SUMMARY TAB

- RECORD VOLTAGE

- SAMPLING RATE $\Rightarrow$ 12 hrs

- CHECK TIME & DATE

② CORRECT TIME & DATE (IF
REQUIRED)

CLOCK TAB

↳ SET DATAWALKER CLOCK

③ CHECK REPROGRAMMING

NUMBER - Last 2 digits of datawalker
serial number

SAMPLING - 12 hrs

"STOP WITH MEMORY FULL"

- WARM UP TIME = 0.21 sec w
no delay
- MULTIPLEXER $\Rightarrow$ ENABLE
- ENABLE CHANNEL 1-16
- STROBES - NOT CHANGED
- STARTS IMMEDIATELY
- CHECK DOUBLE PRECISION
- EXCEPTION $\Rightarrow$ SOURCE MONITOR
- NO MIN, MAX OR DIGITAL INPUT

VT-12 $\Rightarrow$ DOWNLOADED AT 12:15PM

CHANNEL	TEMP (FROM COMPUTER)	VOLTAGE (FROM MULTIMETER)
1	15.78°C	1.41V
2	10.5°C	1.26V
3	6.7°C	1.14V
4	5.3°C	1.10V
5	2.97°C	1.03V
6	0.02°C	0.94V
7	-1.35°C	0.90V
8	-2.58°C	0.86V
9	-4.08°C	0.82V
10	-5.36°C	0.78V
11	-5.37°C	0.78V

- VT-12 BATTERY VOLTAGE
MAIN = 11.34V
Aux. = 13.38V
- RESET CLOCK TO 12:30PM
- PROGRAMMED DATA LOGGER AFTER
CHARGING AND CHARGING
STOP WHEN MEMORY FULL TO ON.
- RESTARTED DATA LOGGER

VT-11 DOWNLOADED AT 12:45PM
BATTERY MAIN 11.34V
Aux. 13.63V

- DOWNLOADED 511 WORDPAR FILE
25,227 DATA FILES

CHANNEL	TEMP	VOLTAGE
1	24.93°C	1.39V
2	7.40°C	1.17V
3	5.84°C	1.12V
4	4.51°C	1.07V
5	1.81°C	0.99V
6	-0.51°C	0.92V
7	-2.06°C	0.88V
8	-3.25°C	0.85V
9	-4.08°C	0.82V
10	-2.84°C	0.86V

- CHECKED PROGRAMMING AND DATE
- UPDATED CLOCK TO 1:00PM
- CHECKED "STOP WHEN MEMORY FULL"
- RESTARTED DATALOGGER

VT-10 DOWNLOAD AT 1:30PM

- BATTERY MAIN = 11.34V
AUX = 12.53V
- DOWNLOADED 511 NOTEPAD FILES
25,229 DATA FILES

CHANNEL	TEMP. (°C)	VOLTAGE
1	14.04	1.37
2	7.42	1.17
3	4.23	1.07
4	2.55	1.02
5	1.85	0.99
6	-0.08	0.94
7	-1.53	0.89
8	-2.75	0.86
9	-4.53	0.809
10	-5.19	0.79

- CHECKED PROGRAMMING & DATE
- UPDATED CLOCK AND CHECKED "STOP WHEN FULL"
- RESTARTED DATALOGGER

VT-9 DOWNLOAD AT 2:00PM/2:30

BATTERY MAIN = 11.34V

AUX = 13.50V

DOWNLOADED 511 NOTEPAD FILES
25,229 DATA FILES

CHANNEL	TEMP (°C)	VOLTAGE (V)
1	16.17 15.99	1.423
2	12.98 13.21	1.34
3	6.05 6.09	1.12
4	4.49 4.49	1.079
5	1.95 1.95	1.002
6	-0.58 -0.58	0.925
7	-1.90 -1.90	0.886
8	-3.16 -3.16	0.849
9	-4.44 -4.44	0.811
10	-5.37 -5.37	0.785

- CHECKED PROGRAMMING & DATE
- UPDATED CLOCK & CHECKED "STOP WHEN FULL"
- RESTARTED DATALOGGER

NOTE: COMPUTER BATTERY DIED DURING 1ST ATTEMPT TO DOWNLOAD VT-9, CHANGED BATTERY.