

Water Bodies Assessment Field Collection Form

AECOM

Date: June 13/12

Land Parcel/Site ID: GSH2717

Page 3 of 4

D36

Other General Comments Regarding the Study Area:

Watercourse is a wide slow moving system that has turbid water. There is overhanging shrubs lining the banks and then forest area behind. Watercourse was too deep to wade however at edge substrate was silty, sandy + clayey. It has a natural meander.

→ Garter snake observed in grasses → Concrete bridge + pipes ~ 10m away

Additional UTM Coordinates:

Photo log

Picture #	Description	Picture #	Description
1a	Sheet		
1-3	Channel overview in forest area		
4-f	Watercourse from bridge crossing.		

Water Bodies Assessment Field Collection Form

AECOM

Page 4 of 4

Watercourse Sketch

Study Area:

Jericho

Goshen

Bluewater

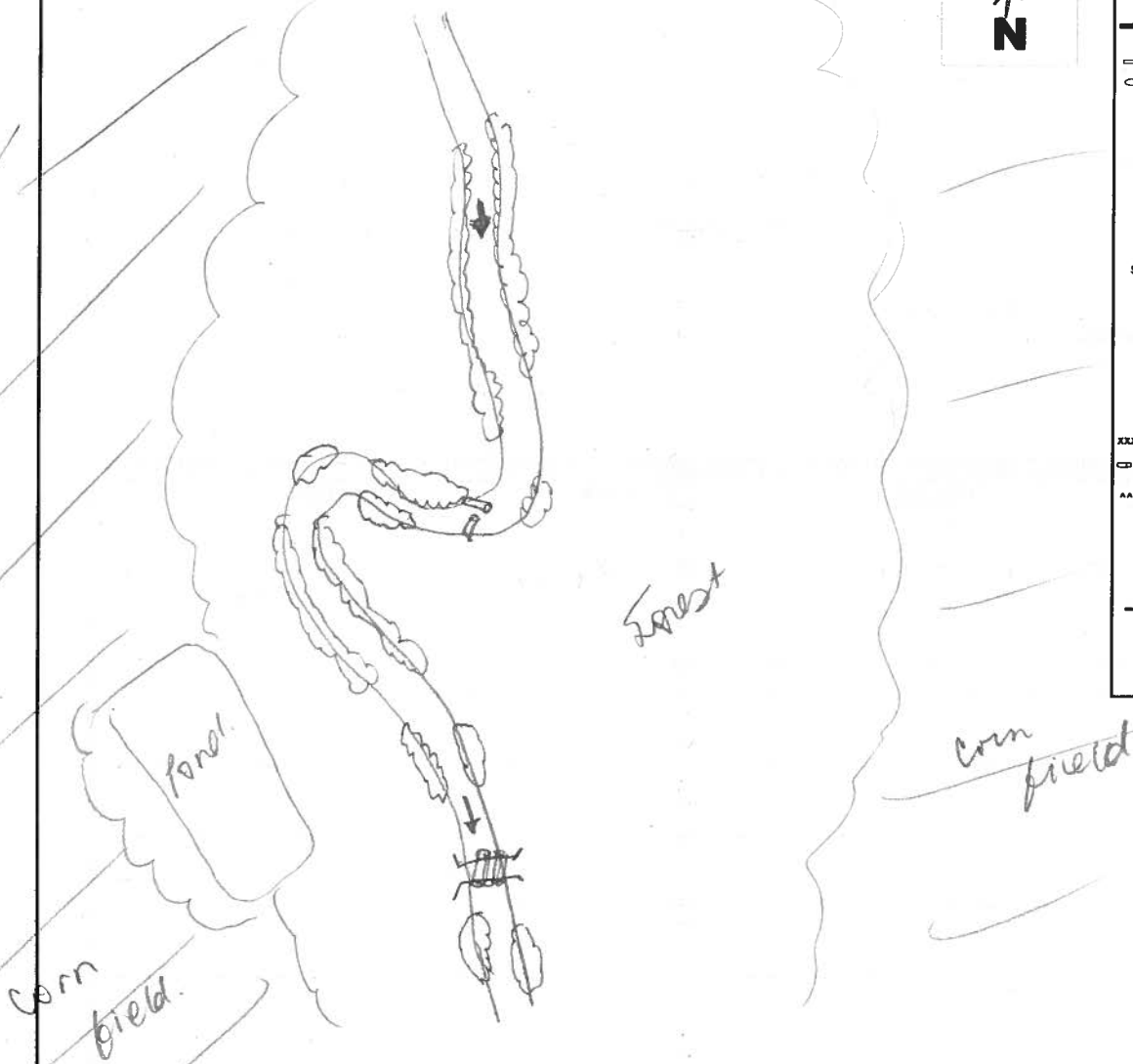
Land Parcel# GSH2717

Site ID

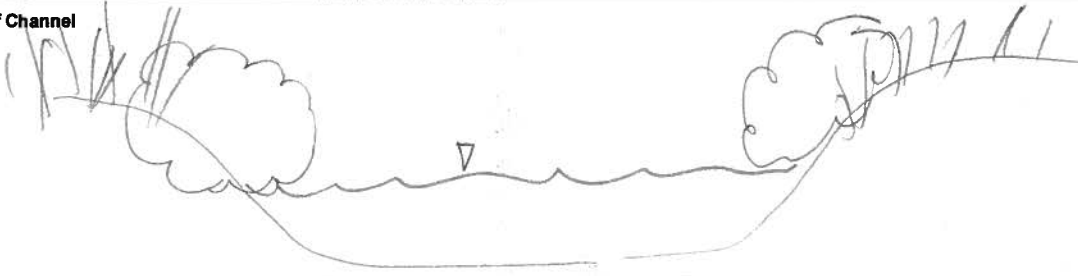
P36



LEGEND	
10d depth (cm)	
0w width	
Riffle	→
Run/Glide	⇨
Pool	○
Island/Bar	■
Fine Substrate	□
Gravel Substrate	###
Cobble/Boulder	oOoo
Debris	***
Cattail	CT
Submerg/Float Veg	SV/FV
Emergent Vegetation	EV
Watercress	W
Iron Staining	Fe
Eroded Bank	
Riprap / Other Stabilization	xxx
Instream Log/Tree	⊃
Dam/Weir / Obstruction	AAA
Riparian Tree	⊙
Seep/Spring	↳
Undercut Bank	—
Barrier to Fish Movement	—
Seasonal Barrier	-S-
Fence line	-x-x-
Culvert	⌊



Horizontal View of Channel



Initial QA/QC By: L. Bentley

Date: June 26, 2012

Technical QA/QC By: [Signature]

Date: July 19, 12

Water Bodies Assessment Field Collection Form

AECOM		Page 1 of 4	
General Information			
Study Area: Jericho <u>Goshen</u>	Bluewater	Land Parcel# <u>2370</u> <u>23609</u> <u>2371</u>	Site ID: <u>037</u>
Date: <u>June 13/12</u>	Start time: <u>9:50</u>	End Time: <u>11:00</u>	
Weather Conditions: <u>Sunny, 12°C</u>		Field Crew: <u>C. Barros, J. Epp</u>	
		Field Notes By: <u>C. Barros</u>	
Site Location			
<u>London Rd, North of Crediton</u>			
UTM Co-ordinates (continue on page 3 if necessary)			
Easting: <u>460956</u>	Northing: <u>4795742</u>	Description: <u>037 start</u>	
Easting: <u>461015</u>	Northing: <u>4795677</u>	Description: <u>037 wq</u>	
Easting: <u>461037</u>	Northing: <u>4795570</u>	Description: <u>037 end</u>	
Easting:	Northing:	Description:	
Surrounding Landuse		Type of Watercourse	
Residential ☐	Meadow ☒	Intermittent ☐	Channelized ☒
Agriculture ☒	Wetland ☐	Permanent ☒	Natural Channel ☐
Forest ☐	Livestock ☐	Ephemeral ☐	
Other ☐			
Description: <u>meadow - west - till train tracks</u> <u>agri - wheat - east</u>		Description: <u>straight</u>	
Notes: (include any inputs into the system i.e. tile drainage, seepages, overland flow)			
<u>Tile drains - some flowing</u>			
Is any portion of the water body underground or not as mapped? <u>Y/N</u>			
If Yes describe:			
GPS Coordinate: Easting -	Northing -	Description -	
Description of Land Topography Surrounding Water Body (rolling hills, sloping towards water body)			
<u>flat</u>			
In-Situ Water Quality		Ground Water and Seepage Indicators	
WT (°C): <u>16.4</u>	AT (°C): <u>12</u>	Watercress ☒	Bank Seepage ☐
pH: <u>7.84</u>	Cond (µs/cm): <u>539</u>	Iron Staining ☐	None ☐
D.O. (mg/L) <u>7.61</u>		Bubbling ☐	<u>water</u> ☒
Water Clarity: <u>Clear</u>	☒ Turbid ☐	Other ☐	<u>speedwell</u>
Water Colour: <u>n/a</u>		Details:	
Notes: <u>wq taken in small pool</u> <u>w depth ~</u>		<u>small sporadic clumps</u>	

ASA
23609

Water Bodies Assessment Field Collection Form

Stream Morphology													
Site Length (m): 150 m				Bank Stability:									
Channel Dimensions Mean Wetted Width (m): 1.75 Mean Wetted Depth (m): 0.25 Mean Bankfull Width (m): 3 Mean Bankfull Depth (m): 1 Mean Top of Bank Width (m): 6 Mean Top of Bank Depth (m): 3				Stable Slightly unstable Moderately unstable Unstable Left Bank ☐ → ☒ ☐ ☐ Right Bank ☐ → ☒ ☐ ☐									
				Description: some areas of erosion + bare soil									
Flow Description: (high or low flow conditions, stagnant, etc)													
moderate flow													
Habitat													
Substrate (<=>)		Description		Morphological Structure (%)									
Bo - Boulder Co - Cobble Gr - Gravel Sa - Sand Si - Silt Cl - Clay MK - Muck DT - Detritus		clay packed bottom w thin layer of sand + silt on top to present		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Pool</th> <th>Riffle</th> <th>Run</th> <th>Flat</th> </tr> </thead> <tbody> <tr> <td>10</td> <td>7</td> <td>3</td> <td>80</td> </tr> </tbody> </table>		Pool	Riffle	Run	Flat	10	7	3	80
Pool	Riffle	Run	Flat										
10	7	3	80										
				Notes: multiple run pool sequences present									
Instream Cover (%) 29													
Other	Woody Debris	Boulders	Cobble	Aquatic Vegetation*	None								
/	/	/	9	20	/								
					Undercut Banks								
					Average Depth: /								
					(% Cover)								
Note: Low = 0 - 30%; Moderate = 30 - 75%; High = 75 - 100%													
*Aquatic Vegetation Species Present (algae, submergent, emergent etc.)													
algae - attached, filamentous > grasses, w.c., + water speedwell													
Canopy Cover (% closed cover):			Types of Cover (% cover)										
100-90%	☐	30-1%	☒	Trees	Shrubs 10								
90-60%	☐	0%	☐	Grasses 90	Herbaceous								
60-30%	☐				Man-made structures								
			Other										
Note: Low = 0 - 30%; Moderate = 30 - 60%; High = 60 - 100%													
Notes: (vegetation species, types of structures)													
willow													
Riparian Vegetation													
Width and Description of riparian vegetation:			LB - 1 m - grasses										
			RB - 15 m - meadow + grasses										
Overhanging Vegetation Present Y / N			% Overhanging Vegetation:										
Description of Overhanging Vegetation:													
Obstructions to Fish Passage													
None Observed	☒	Man-Made	☐	Natural	☐								
Low Flow Barrier ☐													
Description of Barrier:													
Height of Barrier (m)			GPS Coordinates:										

Water Bodies Assessment Field Collection Form

AECOM

Date: June 18/12

Land Parcel/Site ID:

6542370 037 Page 3 of 4
2369 12371

Other General Comments Regarding the Study Area:

- Cyprinids, yoy darters (2), yoy schools
(~75)

It is a straight channelized watercourse that has a hard clay packed bottom + little instream cover. Little canopy cover as well. Ripples, run, pool sequences present however no meandering.

Additional UTM Coordinates:

Watercourse looks similar 30m ups + downs from study area

Photo log

Picture #	Description	Picture #	Description
1a	sheet		
1-3	6542369 from bridge		
4-5	at bridge looking at 2370		
6-10	walking ups to study end (2370)		

Water Bodies Assessment Field Collection Form

AECOM

Page 4 of 4

Watercourse Sketch

Study Area:

Jericho

Goshen

Bluewater

Land Parcel#

QSH 2370/

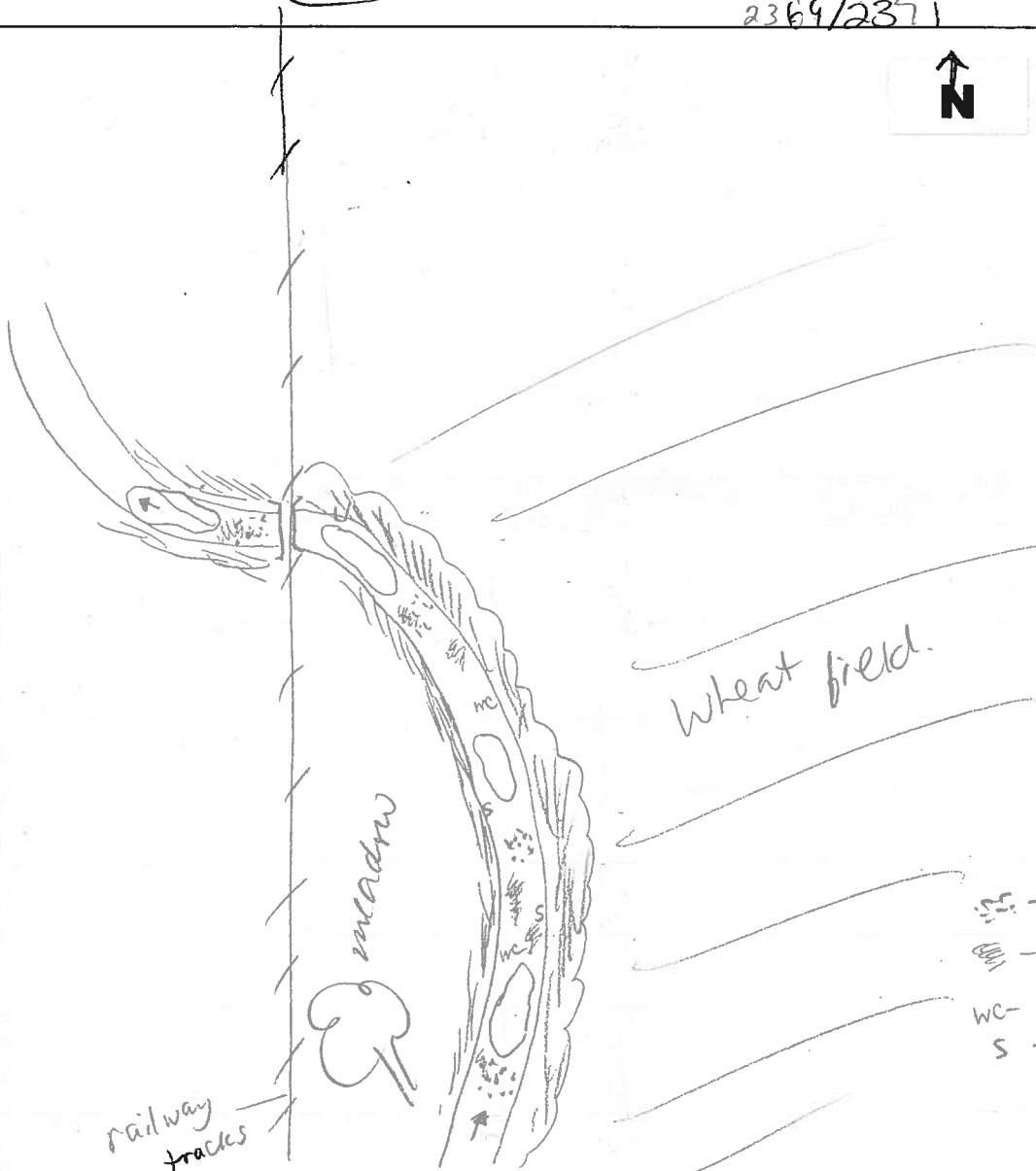
Site ID

037

2369/2371



LEGEND	
10d depth (cm)	
0w width	
Rifle	
Run/Glide	
Pool	
Island/Bar	
Fine Substrate	
Gravel Substrate	
Cobble/Boulder	
Debris	
Cattail	
Submerg/Float Veg	
Emergent Vegetation	
Watercross	
Iron Staining	
Eroded Bank	
Riprap / Other Stabilization	
Instream Log/Tree	
Dam/Weir / Obstruction	
Riparian Tree	
Seep/Spring	
Undercut Bank	
Barrier to Fish Movement	
Seasonal Barrier	
Fence line	
Culvert	



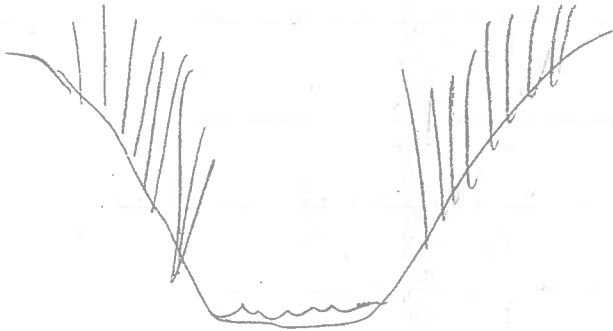
Wheat field

meadow

railway tracks

rf - riffle
 al - algae
 wc - watercross
 S - water speedway

Horizontal View of Channel



Initial QA/QC By: L. Bentley

Date: June 26, 2012

Technical QA/QC By: K. Klemm

Date: July 9, 2012

Water Bodies Assessment Field Collection Form

AECOM		Page 1 of 4	
General Information			
Study Area: Jericho Goshen		Bluewater	Land Parcel# 2485 Site ID: D38
Date: July 12/12		Start time: 14:44 2555	End Time: 15:10
Weather Conditions: Sunny		Field Crew: S. Aitken, B. Ferris Field Notes By: S. Aitken	
Site Location			
located east of London Rd, north of Creation ASA on GSH 2555			
UTM Co-ordinates (continue on page 3 if necessary)			
Easting:	Northing:	Description:	
Easting:	Northing:	Description:	
Easting:	Northing:	Description:	
Easting:	Northing:	Description:	
Surrounding Landuse		Type of Watercourse	
Residential ☐	Meadow ☒	Intermittent ☐	Channelized ☒
Agriculture ☐	Wetland ☐	Permanent ☒	Natural Channel ☐
Forest ☐	Livestock ☐	Ephemeral ☐	
Other ☐		Description: - appears to be naturalizing	
Description: meadow surrounded by agricultural fields - Soybeans			
Notes: (include any inputs into the system i.e. tile drainage, seepages, overland flow)			
- none observed			
- D39			
Is any portion of the water body underground or not as mapped? Y / N			
If Yes describe:			
GPS Coordinate: Easting - Northing - Description -			
Description of Land Topography Surrounding Water Body (rolling hills, sloping towards water body)			
Sloping towards water body			
In-Situ Water Quality		Ground Water and Seepage Indicators	
WT (°C): 22.56	AT (°C): 33	Watercress ☒	Bank Seepage ☐
pH: 8.27	Cond (µs/cm): 457	Iron Staining ☐	None ☐
D.O. (mg/L): 10.83		Bubbling ☐	
Water Clarity: Clear ☒ Turbid ☐		Other ☐	
Water Colour: greyish colour		Details: Small pockets of watercress	
Notes: Wts taken d/s of confluence to D39			

ASA
2555

Water Bodies Assessment Field Collection Form

Stream Morphology																				
Site Length (m): <u>~50m</u>			Bank Stability:																	
Channel Dimensions			<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th></th> <th>Stable</th> <th>Slightly unstable</th> <th>Moderately unstable</th> <th>Unstable</th> </tr> <tr> <td>Left Bank</td> <td>☐</td> <td>☒</td> <td>☐</td> <td>☐</td> </tr> <tr> <td>Right Bank</td> <td>☐</td> <td>☒</td> <td>☐</td> <td>☐</td> </tr> </table>				Stable	Slightly unstable	Moderately unstable	Unstable	Left Bank	☐	☒	☐	☐	Right Bank	☐	☒	☐	☐
	Stable	Slightly unstable	Moderately unstable	Unstable																
Left Bank	☐	☒	☐	☐																
Right Bank	☐	☒	☐	☐																
Mean Wetted Width (m): <u>1.5</u>	Mean Wetted Depth (m): <u>0.08</u>	Description: <u>signs of erosion & undercut banks</u>																		
Mean Bankfull Width (m): <u>2.10</u>	Mean Bankfull Depth (m): <u>0.90</u>																			
Mean Top of Bank Width (m): <u>6.00</u>	Mean Top of Bank Depth (m): <u>2.40</u>																			
Flow Description: (high or low flow conditions, stagnant, etc) <u>low flow conditions, banks on RB - gradual steep LB</u>																				
Habitat																				
Substrate (<=>)		Morphological Structure (%)																		
Description Bo - Boulder Co - Cobble Gr - Gravel Sa - Sand Si - Silt Cl - Clay MK - Muck DT - Detritus <u>Si > Gr > Co</u>		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>Pool</th> <th>Riffle</th> <th>Run</th> <th>Flat</th> </tr> <tr> <td></td> <td><u>10</u></td> <td></td> <td><u>90</u></td> </tr> </table>				Pool	Riffle	Run	Flat		<u>10</u>		<u>90</u>							
		Pool	Riffle	Run	Flat															
	<u>10</u>		<u>90</u>																	
		Notes:																		
Instream Cover (%)																				
Other	Woody Debris	Boulders	Cobble	Aquatic Vegetation*	None	Undercut Banks														
			<u>15</u>	<u>10</u>		Average Depth: <u>0.10m</u> (% Cover) <u>5</u>														
Note: Low = 0 - 30%; Moderate = 30 - 75%; High = 75 - 100%																				
*Aquatic Vegetation Species Present (algae, submergent, emergent etc.) <u>Watercress</u>																				
Canopy Cover (% closed cover):				Types of Cover (% cover)																
100-90%	☐	30-1%	☐	Trees	Shrubs	Man-made structures														
90-60%	☐	0%	☐	Grasses <u>40</u>	Herbaceous	Other														
60-30%	☒																			
Note: Low = 0 - 30%; Moderate = 30 - 60%; High = 60 - 100%																				
Notes: (vegetation species, types of structures) <u>grasses</u>																				
Riparian Vegetation																				
Width and Description of riparian vegetation: LB - <u>>20m meadow</u>			RB - <u>>20m meadow</u>																	
Overhanging Vegetation Present Y/N ☒			% Overhanging Vegetation:																	
Description of Overhanging Vegetation:																				
Obstructions to Fish Passage																				
None Observed ☒	Man-Made ☐	Natural ☐	Low Flow Barrier ☐																	
Description of Barrier:																				
Height of Barrier (m)			GPS Coordinates:																	

Water Bodies Assessment Field Collection Form

AECOM

Date:

July 12/12

Land Parcel/Site ID:

GSH 2485
GSH 2555

D3B
Page 3 of 4

Other General Comments Regarding the Study Area:

- channelized waterbody @ steep banks on left side
- was flowing at time of investigation

Additional UTM Coordinates:

Photo log			
Picture #	Description	Picture #	Description
34	watercress		
35	substrates		
36	facing downstream		
37	overview facing upstream		
38	overview facing downstream		

Water Bodies Assessment Field Collection Form

AECOM

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Watercourse Sketch

Study Area:

Jericho

Goshen

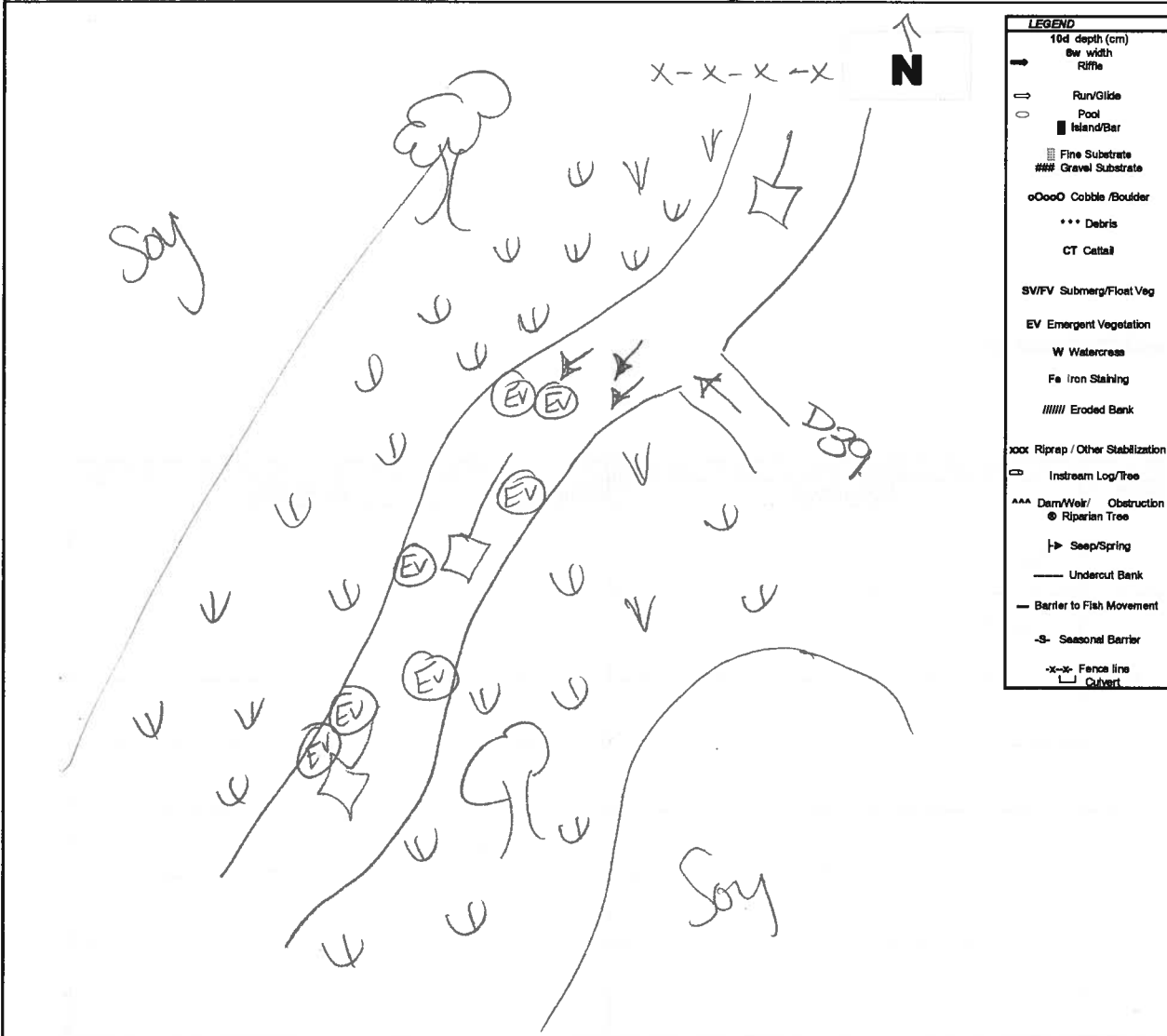
Bluewater

Land Parcel#

2485
2555

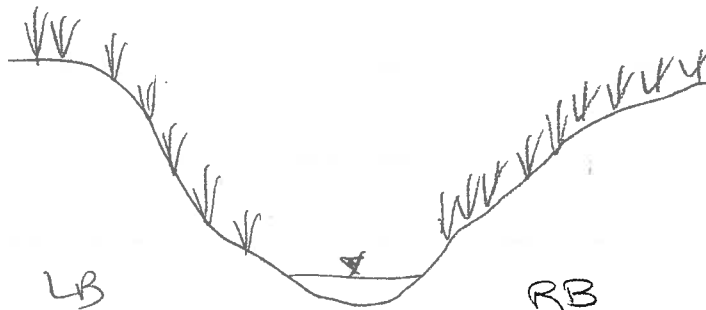
Site ID

D38



LEGEND	
10d depth (cm)	10d width (cm)
Run/Glide	Pool
Island/Bar	Fine Substrate
Gravel Substrate	Cobble/Boulder
Debris	CT Cattle
SV/FV Submerg/Floet Veg	EV Emergent Vegetation
W Watercross	Fe Iron Staining
Eroded Bank	xxx Riprap / Other Stabilization
Instream Log/Tree	AAA Dam/Weir/ Obstruction
Riparian Tree	Seep/Spring
Undercut Bank	Barrier to Fish Movement
Seasonal Barrier	Fence line
Culvert	

Horizontal View of Channel



Initial QA/QC By: L. Bentley

Date: Aug. 2, 2012

Technical QA/QC By: J. [Signature]

Date: 2nd Aug 2012

Water Bodies Assessment Field Collection Form

AECOM		Page 1 of 4	
General Information			
Study Area: Jericho	Goshen	Bluewater	Land Parcel# GSH 2548/
Date: June 25/12	Start time: 9:00	2485/	Site ID: D39
Weather Conditions: Sunny 12°C		Field Crew: C. Barros, J. EPP	End Time: 10:20
		Field Notes By: C. Barros	
Site Location			
Morrison Cree, North of Crediton			
UTM Co-ordinates (continue on page 3 if necessary)			
Easting: 462687	Northing: 4795814	Description: D39 start	
Easting: 462657	Northing: 4795840	Description: D39 wq	
Easting: 462611	Northing: 4795863	Description: D39 end	
Easting: 462594	Northing: 4795965	Description: D38	
Surrounding Landuse		Type of Watercourse	
Residential ☐	Meadow ☐	Intermittent ☒	Channelized ☒
Agriculture ☐	Wetland ☐	Permanent ☐	Natural Channel ☒
Forest ☒	Livestock ☐	Ephemeral ☐	
Other ☐			
Description: begins in		Description: Historically channelized - in forest naturalizing	
Notes: (include any inputs into the system i.e. tile drainage, seepages, overland flow)			
Tile drains - headwater ones not flowing, midway tiles + seeps flowing			
Is any portion of the water body underground or not as mapped? Y / <u>N</u>			
If Yes describe:			
GPS Coordinate: Easting -		Northing -	
		Description -	
Description of Land Topography Surrounding Water Body (rolling hills, sloping towards water body)			
flat			
In-Situ Water Quality		Ground Water and Seepage Indicators	
WT (°C): 9.1	AT (°C): 12	Watercress ☐	Bank Seepage ☒
pH: 6.78	Cond (µs/cm): 589	Iron Staining ☐	None ☐
D.O. (mg/L): 4.72		Bubbling ☐	
Water Clarity: Clear ☒	Turbid ☐	Other ☐	
Water Colour: n/a		Details:	
Notes: wq. taken in shallow riffle		potential bank seepage but could be buried tile drains	

ASA
2485

Water Bodies Assessment Field Collection Form

* Assessment done for Channel in forest

Stream Morphology																				
Site Length (m): 100m			Bank Stability:																	
Channel Dimensions			<table border="1"> <tr> <td></td> <td>Stable</td> <td>Slightly unstable</td> <td>Moderately unstable</td> <td>Unstable</td> </tr> <tr> <td>Left Bank</td> <td>☐</td> <td>☒</td> <td>☐</td> <td>☐</td> </tr> <tr> <td>Right Bank</td> <td>☐</td> <td>☒</td> <td>☐</td> <td>☐</td> </tr> </table>				Stable	Slightly unstable	Moderately unstable	Unstable	Left Bank	☐	☒	☐	☐	Right Bank	☐	☒	☐	☐
	Stable	Slightly unstable	Moderately unstable	Unstable																
Left Bank	☐	☒	☐	☐																
Right Bank	☐	☒	☐	☐																
Mean Wetted Width (m): 1m	Mean Wetted Depth (m): 0.08																			
Mean Bankfull Width (m): 3	Mean Bankfull Depth (m): 0.30																			
Mean Top of Bank Width (m): 4	Mean Top of Bank Depth (m): 1.5	Description: Evidence of erosion																		
Flow Description: (high or low flow conditions, stagnant, etc)																				
slow flow, low water level																				
Habitat																				
Substrate (<=>)		Description		Morphological Structure (%)																
Bo - Boulder Co - Cobble Gr - Gravel Sa - Sand Si - Silt Cl - Clay MK - Muck DT - Detritus		Si = Cl = Sa = Co > Bo		<table border="1"> <tr> <th>Pool</th> <th>Riffle</th> <th>Run</th> <th>Flat</th> </tr> <tr> <td>5</td> <td>25</td> <td>20</td> <td>50</td> </tr> </table>		Pool	Riffle	Run	Flat	5	25	20	50							
Pool	Riffle	Run	Flat																	
5	25	20	50																	
Notes: not a sequence of riffle, run, pool																				
Instream Cover (%) 80																				
Other	Woody Debris	Boulders	Cobble	Aquatic Vegetation*	None															
	25	10	40																	
Undercut Banks																				
Average Depth: 0.25																				
(% Cover) 5																				
Note: Low = 0 - 30%; Moderate = 30 - 75%; High = 75 - 100%																				
*Aquatic Vegetation Species Present (algae, submergent, emergent etc.)																				
Canopy Cover (% closed cover):			Types of Cover (% cover)																	
100-90%	☒	30-1%	☐	Trees	90															
90-60%	☐	0%	☐	Shrubs	10															
60-30%	☐			Grasses																
			Man-made structures																	
			Other																	
Note: Low = 0 - 30%; Moderate = 30 - 60%; High = 60 - 100%																				
Notes: (vegetation species, types of structures)																				
ash, sugar maple, dogwood																				
Riparian Vegetation																				
Width and Description of riparian vegetation:			LB - 15m - forest																	
			RB - 15m forest																	
Overhanging Vegetation Present (Y/N)			% Overhanging Vegetation: 2																	
Description of Overhanging Vegetation:																				
dogwood overhanging at property line																				
Obstructions to Fish Passage																				
None Observed	☐	Man-Made	☐	Natural	☐															
				Low Flow Barrier	☒															
Description of Barrier: no water from start up to 50m																				
Height of Barrier (m)			GPS Coordinates:																	

Water Bodies Assessment Field Collection Form

AECOM

Date: June 25/12

Land Parcel/Site ID:

GSH 2548/2485/

Page 3 of 4

D39

Other General Comments Regarding the Study Area:

D39 is a permanent channel feature but is tile drain fed and at time of investigation the headwater area up to 50m was dry - tile drains were not flowing. 50m to edge of forest was a slow, low water level watercourse in stream cover high of cobble + woody debris. Potential seeps + tile drains feeding stream.

D39 on GSH 2485 appeared channelized and had dense grasses

Additional UTM Coordinates:

on banks. Could not see watercourse past 5m

D38 -> Could not see from GSH 2548

ASA

Photo log

Picture #	Description	Picture #	Description
1a	sheet		
1-b	headwater area		
7-14	channel overview after tile + seep feed		
15	ASA for 2485		
16-18	ASA for 2485		
D38			
1	map		
2	ASA D38		

Water Bodies Assessment Field Collection Form

AECOM

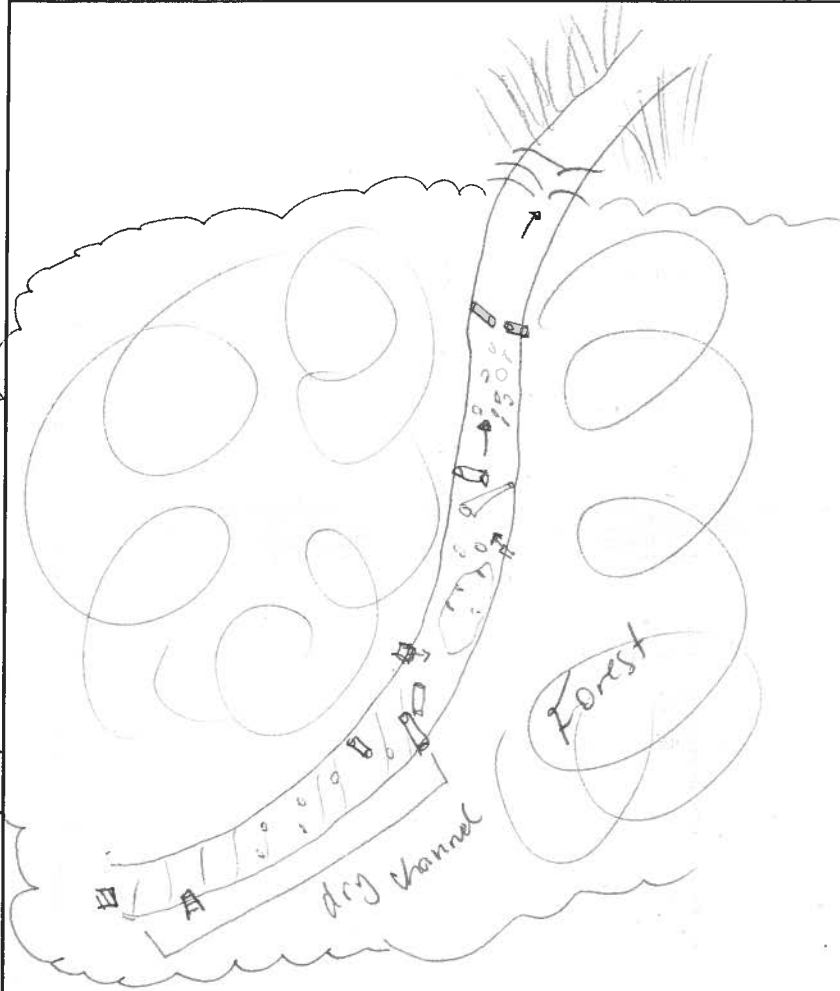
Page 4 of 4

Watercourse Sketch

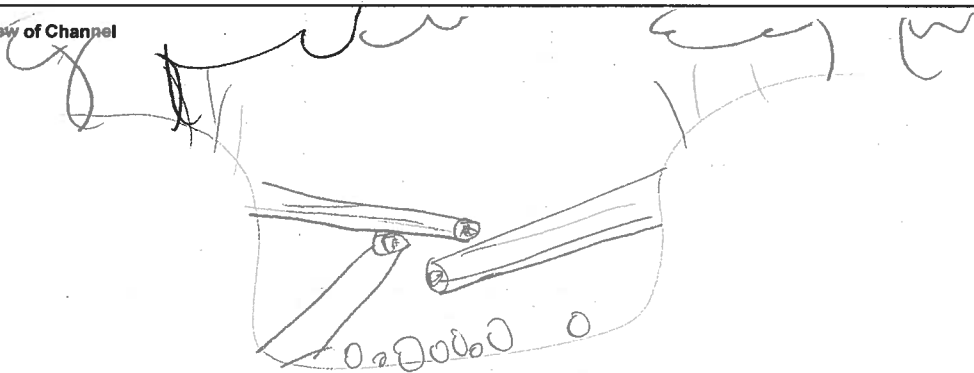
Study Area: Jericho Goshen Bluewater Land Parcel# 6514 2548 Site ID D39
2485

N →

LEGEND	
→	10d depth (cm)
→	8w width
→	Riffle
→	Run/Glide
○	Pool
■	Island/Bar
■	Fine Substrate
###	Gravel Substrate
oOooO	Cobble /Boulder
***	Debris
CT	Cattail
SV/FV	Submerg/Float Veg
EV	Emergent Vegetation
W	Watercress
Fe	Iron Staining
	Eroded Bank
xxx	Riprap / Other Stabilization
—	Instream Log/Tree
AAA	Dam/Weir/ Obstruction
●	Riparian Tree
↳	Seep/Spring
—	Undercut Bank
—	Barrier to Fish Movement
-S-	Seasonal Barrier
-x-x-	Fence line
—	Culvert



Horizontal View of Channel



Initial QA/QC By: L Bentley

Date: June 26, 2012

Technical QA/QC By: Stutka

Date: July 10/12

Water Bodies Assessment Field Collection Form

AECOM		Page 1 of 4	
General Information			
Study Area: Jericho <u>Goshen</u> Bluewater		Land Parcel# <u>2485</u> Site ID: <u>D39</u>	
Date: 14-30 <u>July 12/12</u>		Start time: <u>14:30</u> End Time: <u>1440</u>	
Weather Conditions: <u>Sunny</u>		Field Crew: <u>S. Aitken, G. Ferris</u> Field Notes By: <u>S. Aitken</u>	
Site Location			
<u>located east of London Rd, north of Credition</u>			
UTM Co-ordinates (continue on page 3 if necessary)			
Easting:	Northing:	Description:	
Easting:	Northing:	Description:	
Easting:	Northing:	Description:	
Easting:	Northing:	Description:	
Surrounding Landuse		Type of Watercourse	
Residential ☐	Meadow ☒	Intermittent ☐	Channelized ☒
Agriculture ☐	Wetland ☐	Permanent ☒	Natural Channel ☐
Forest ☐	Livestock ☐	Ephemeral ☐	
Other ☐			
Description: <u>meadow is surrounded by soy bean crops</u>		Description:	
Notes: (include any inputs into the system i.e. tile drainage, seepages, overland flow) <u>none observed</u>			
Is any portion of the water body underground or not as mapped? Y <u>N</u> If Yes describe:			
GPS Coordinate: Easting -		Northing - Description-	
Description of Land Topography Surrounding Water Body (rolling hills, sloping towards water body)			
<u>flat</u>			
In-Situ Water Quality		Ground Water and Seepage Indicators	
WT (°C):	AT (°C):	Watercress ☐	Bank Seepage ☐
pH:	Cond (s/cm):	Iron Staining ☐	None ☒
D.O. (mg/L)		Bubbling ☐	
Water Clarity: Clear ☒ Turbid ☐		Other ☐	
Water Colour:		Details: <u>none observed</u>	
Notes: <u>water not deep enough</u>			

Water Bodies Assessment Field Collection Form

Stream Morphology																				
Site Length (m): <u>~ 30m</u>			Bank Stability:																	
Channel Dimensions			<table border="1" style="width: 100%; text-align: center;"> <tr> <td></td> <td>Stable</td> <td>Slightly unstable</td> <td>Moderately unstable</td> <td>Unstable</td> </tr> <tr> <td>Left Bank</td> <td>☒</td> <td>☐</td> <td>☐</td> <td>☐</td> </tr> <tr> <td>Right Bank</td> <td>☒</td> <td>☐</td> <td>☐</td> <td>☐</td> </tr> </table>				Stable	Slightly unstable	Moderately unstable	Unstable	Left Bank	☒	☐	☐	☐	Right Bank	☒	☐	☐	☐
	Stable	Slightly unstable	Moderately unstable	Unstable																
Left Bank	☒	☐	☐	☐																
Right Bank	☒	☐	☐	☐																
Mean Wetted Width (m): <u>0.50</u>	Mean Wetted Depth (m): <u>0.06</u>	Description: <u>well vegetated</u>																		
Mean Bankfull Width (m): <u>1.8</u>	Mean Bankfull Depth (m): <u>0.60</u>																			
Mean Top of Bank Width (m): <u>6.00</u> 3.20	Mean Top of Bank Depth (m): <u>0.20</u>																			
Flow Description: (high or low flow conditions, stagnant, etc) <u>low flow conditions, steep banks</u>																				
Habitat																				
Substrate (<=>)			Morphological Structure (%)																	
Bo - Boulder Co - Cobble Gr - Gravel Sa - Sand Si - Silt Cl - Clay MK - Muck DT - Detritus			<table border="1" style="width: 100%; text-align: center;"> <tr> <th>Pool</th> <th>Riffle</th> <th>Run</th> <th>Flat</th> </tr> <tr> <td></td> <td></td> <td></td> <td><u>100</u></td> </tr> </table>			Pool	Riffle	Run	Flat				<u>100</u>							
Pool	Riffle	Run	Flat																	
			<u>100</u>																	
Description <u>Cl > Si</u>			Notes:																	
Instream Cover (%)																				
Other	Woody Debris	Boulders	Cobble	Aquatic Vegetation*	None	Undercut Banks														
				<u>100</u>		Average Depth: (% Cover)														
Note: Low = 0 - 30%; Moderate = 30 - 75%; High = 75 - 100%																				
*Aquatic Vegetation Species Present (algae, submergent, emergent etc.) <u>choked w grasses</u>																				
Canopy Cover (% closed cover):				Types of Cover (% cover)																
100-90%	☒	30-1%	☐	Trees	Shrubs	Man-made structures														
90-60%	☐	0%	☐	Grasses <u>100</u>	Herbaceous	Other														
60-30%	☐																			
Note: Low = 0 - 30%; Moderate = 30 - 60%; High = 60 - 100%																				
Notes: (vegetation species, types of structures)																				
Riparian Vegetation																				
Width and Description of riparian vegetation:		LB - <u>> 20 meadow</u>	RB - <u>> 20 meadow</u>																	
Overhanging Vegetation Present ☒ N		% Overhanging Vegetation:																		
Description of Overhanging Vegetation:		<u>grasses</u>																		
Obstructions to Fish Passage																				
None Observed	☐	Man-Made	☐	Natural	☐	Low Flow Barrier ☒														
Description of Barrier:																				
Height of Barrier (m)			GPS Coordinates:																	

Water Bodies Assessment Field Collection Form

AECOM

Date: July 12/12

Land Parcel/Site ID: 2485 D39 Page 3 of 4

Other General Comments Regarding the Study Area:

- Channel is choked w/ grasses
- trickle flow
- Where D39 flows into D38 is grassed channel

Additional UTM Coordinates:

Photo log

Picture #	Description	Picture #	Description
30	facing v/s		
31	facing d/s		

Water Bodies Assessment Field Collection Form

AECOM

Page 4 of 4

Watercourse Sketch

Study Area:

Jericho

Goshen

Bluewater

Land Parcel#

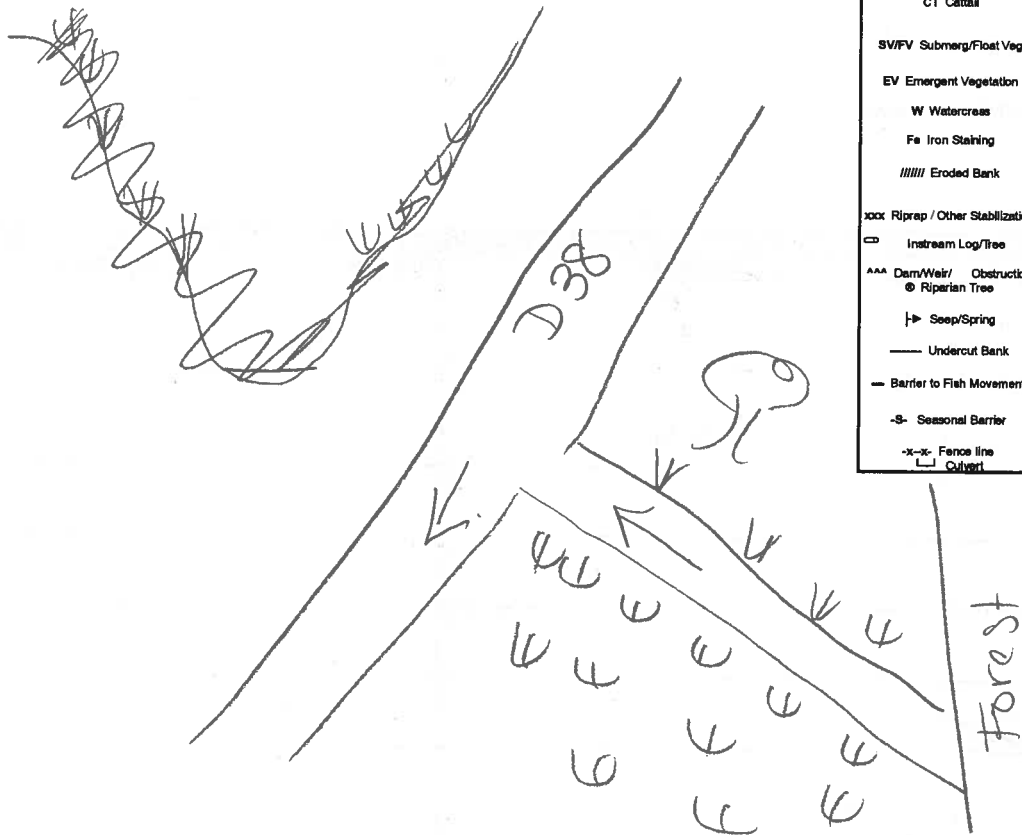
2485

Site ID

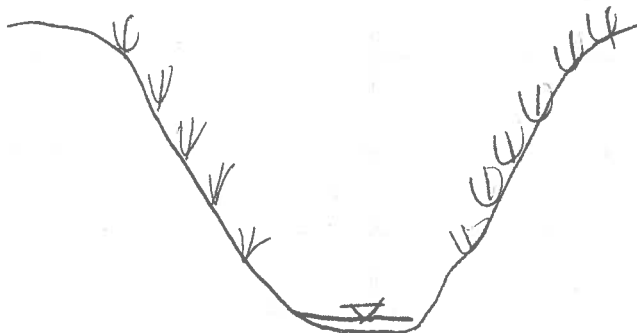
D39



LEGEND	
→	10d depth (cm)
→	8w width
→	Riffle
→	Run/Glide
○	Pool
■	Island/Bar
	Fine Substrate
####	Gravel Substrate
oOooO	Cobble/Boulder
***	Debris
CT	Cattail
SV/FV	Submerg/Float Veg
EV	Emergent Vegetation
W	Watercress
Fe	Iron Staining
	Eroded Bank
xxx	Riprap / Other Stabilization
□	Instream Log/Tree
AAA	Dam/Weir/ Obstruction
⊙	Riparian Tree
↳	Seep/Spring
—	Undercut Bank
—	Barrier to Fish Movement
-S-	Seasonal Barrier
-x-x-	Fence line
□	Culvert



Horizontal View of Channel



Initial QA/QC By: C. Bentley

Date: Aug. 2, 2012 Technical QA/QC By: A. Palmer Date: 2nd August 2012

Water Bodies Assessment Field Collection Form

AECOM		Page 1 of 4	
General Information			
Study Area: Jericho <u>Goshen</u> Bluewater		Land Parcel# <u>GSH 2399</u>	Site ID: <u>D40</u>
Date: <u>June 22/12</u>		Start time: <u>11:00</u>	End Time: <u>12:15</u>
Weather Conditions: <u>Sunny, 20°C</u>		Field Crew: <u>C. Barros, J. Epp</u>	
		Field Notes By: <u>C. Barros</u>	
Site Location			
<u>Sunny Sunshine Line, just north of Crediton</u>			
UTM Co-ordinates (continue on page 3 if necessary)			
Easting: <u>472518</u>	Northing: <u>4796570</u>	Description: <u>D40S</u>	
Easting: <u>472515</u>	Northing: <u>4796581</u>	Description: <u>D41W9</u>	
Easting: <u>472441</u>	Northing: <u>4796766</u>	Description: <u>D40END</u>	
Easting:	Northing:	Description:	
Surrounding Landuse		Type of Watercourse	
Residential ☐	Meadow ☐	Intermittent ☐	Channelized ☒
Agriculture ☒	Wetland ☐	Permanent ☒	Natural Channel ☐
Forest ☐	Livestock ☐	Ephemeral ☐	
Other ☐			
Description: <u>Soy bean</u>		Description: <u>straight</u>	
Notes: (include any inputs into the system i.e. tile drainage, seepages, overland flow)			
<u>Tile drain inputs - flowing</u>			
Is any portion of the water body underground or not as mapped? <u>Y / N</u>			
If Yes describe:			
GPS Coordinate Easting -		Northing - Description -	
Description of Land Topography Surrounding Water Body (rolling hills, sloping towards water body)			
<u>flat</u>			
In-Situ Water Quality		Ground Water and Seepage Indicators	
WT (°C): <u>19.8</u>	AT (°C): <u>20</u>	Watercress ☒ Bank Seepage ☐ Iron Staining ☐ None ☐ Bubbling ☐ <u>Bitterness</u> ☒ Other ☐	
pH: <u>7.93</u>	Cond (µs/cm): <u>581</u>		
D.O. (mg/L) <u>3.53</u>			
Water Clarity: Clear ☒ Turbid ☐			
Water Colour: <u>n/a</u>		Details: <u>Water speedwell</u> ☒	
Notes: <u>Water speed well + watercress present ~ 0.25 m deep</u>		<u>Mats covering entire watercourse for most of reach - mix of all sp.</u>	

ASA
3068

Water Bodies Assessment Field Collection Form

Stream Morphology																				
Site Length (m): 120m				Bank Stability:																
Channel Dimensions				<table border="1" style="width: 100%; text-align: center;"> <tr> <td></td> <td>Stable</td> <td>Slightly unstable</td> <td>Moderately unstable</td> <td>Unstable</td> </tr> <tr> <td>Left Bank</td> <td>☒</td> <td>☐</td> <td>☐</td> <td>☐</td> </tr> <tr> <td>Right Bank</td> <td>☒</td> <td>☐</td> <td>☐</td> <td>☐</td> </tr> </table>			Stable	Slightly unstable	Moderately unstable	Unstable	Left Bank	☒	☐	☐	☐	Right Bank	☒	☐	☐	☐
	Stable	Slightly unstable	Moderately unstable	Unstable																
Left Bank	☒	☐	☐	☐																
Right Bank	☒	☐	☐	☐																
Mean Wetted Width (m): 3	Mean Wetted Depth (m): 0.45		Description: will vegetated																	
Mean Bankfull Width (m): 3.75	Mean Bankfull Depth (m): 0.7																			
Mean Top of Bank Width (m): 5	Mean Top of Bank Depth (m): 3																			
Flow Description: (high or low flow conditions, stagnant, etc)																				
slow flow, moderate water level																				
Habitat																				
Substrate (<=>)		Morphological Structure (%)																		
Description Bo - Boulder Co - Cobble Gr - Gravel Sa - Sand Si - Silt Cl - Clay MK - Muck DT - Detritus		<table border="1" style="width: 100%; text-align: center;"> <tr> <td>Pool</td> <td>Riffle</td> <td>Run</td> <td>Flat</td> </tr> <tr> <td></td> <td></td> <td></td> <td>100</td> </tr> </table>				Pool	Riffle	Run	Flat				100							
		Pool	Riffle	Run	Flat															
			100																	
si = sa = mk top layer to gravel bottom		Notes: no meanders																		
Instream Cover (%) 70																				
Other	Woody Debris	Boulders	Cobble	Aquatic Vegetation*	None															
				80																
Undercut Banks																				
Average Depth: 0.2m																				
(% Cover) 5																				
Note: Low = 0 - 30%; Moderate = 30 - 75%; High = 75 - 100%																				
*Aquatic Vegetation Species Present (algae, submergent, emergent etc.)																				
pondweed > bitter melon, water speedwell, w.c., grasses > arrowhead, water plantain, Cat-tail, sedges																				
Canopy Cover (% closed cover):			Types of Cover (% cover)																	
100-90%	☐	30-1%	☐	Trees	Shrubs															
90-60%	☒	0%	☐	Grasses	Herbaceous															
60-30%	☐			10	10															
			Man-made structures																	
			Other																	
Note: Low = 0 - 30%; Moderate = 30 - 60%; High = 60 - 100%																				
Notes: (vegetation species, types of structures)																				
grasses in stream																				
Riparian Vegetation																				
Width and Description of riparian vegetation: LB - 1m - meadow			RB - 1m - meadow																	
Overhanging Vegetation Present ☒ N			% Overhanging Vegetation: 8																	
Description of Overhanging Vegetation:																				
some dogwood overhanging just bankside - not over entire stream																				
Obstructions to Fish Passage																				
None Observed	☒	Man-Made	☐	Natural	☐															
Low Flow Barrier ☐																				
Description of Barrier:																				
Height of Barrier (m)																				
GPS Coordinates:																				

Water Bodies Assessment Field Collection Form

AECOM

Date: June 22/12

Land Parcel/Site ID:

Q54 2399/
3048

040
Page 3 of 4

Other General Comments Regarding the Study Area:

- green frog heard calling
- school of fish observed by culvert (in pool), 4 m observed
in channel - in pondweed

Watercourse straight channelized stream w/ stable banks.
Vegetation mats ^{almost entire} cover watercourse. In substrate a mix of sand, silt
+ gravel.

Additional UTM Coordinates:

Additional UTM Coordinates:
 Could not see actual watercourse on A54306 but could see
 channel corridor & it look similar width + veg.

ASA

Photo log

[illegible]

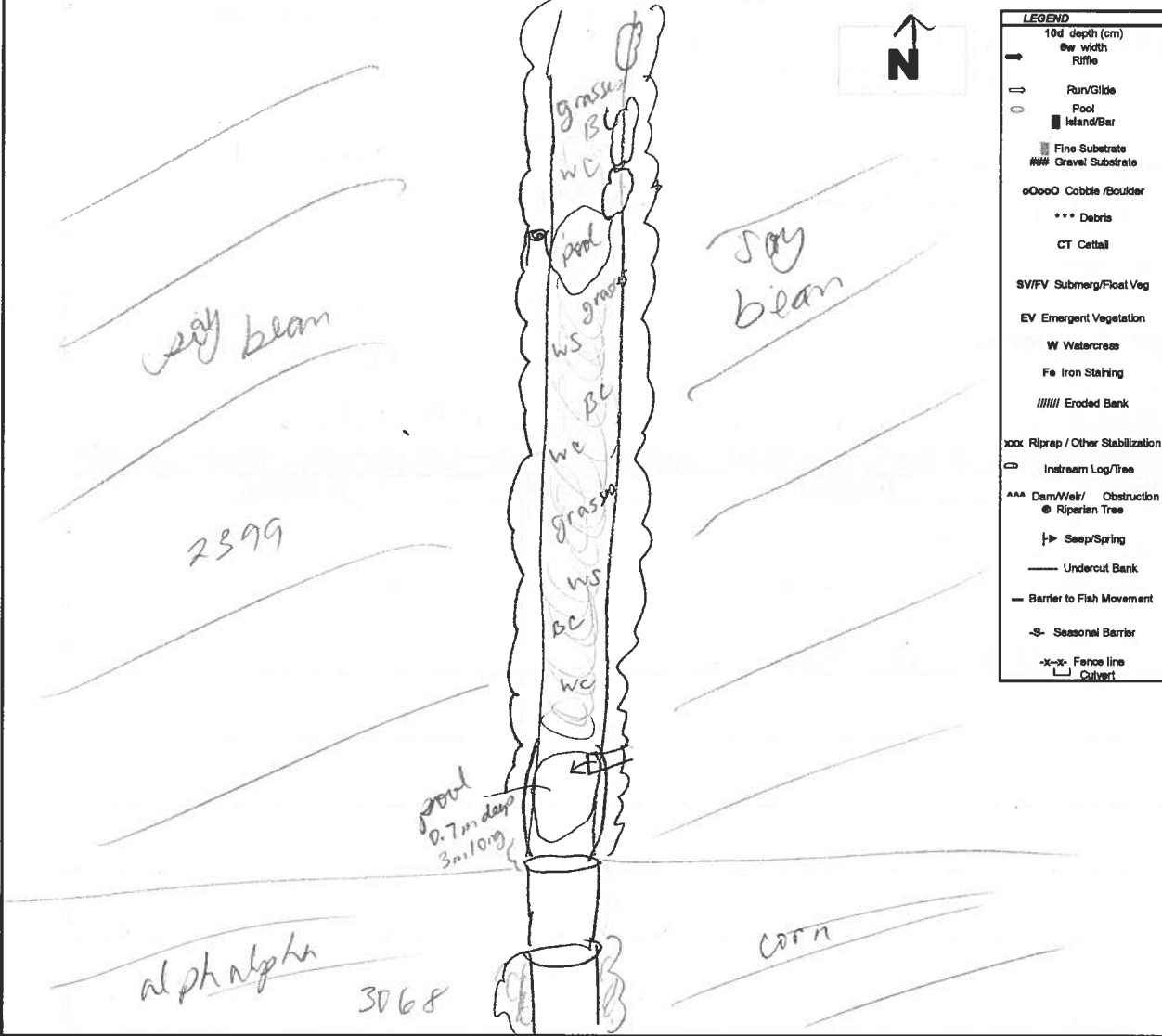
Water Bodies Assessment Field Collection Form

AECOM

Page 4 of 4

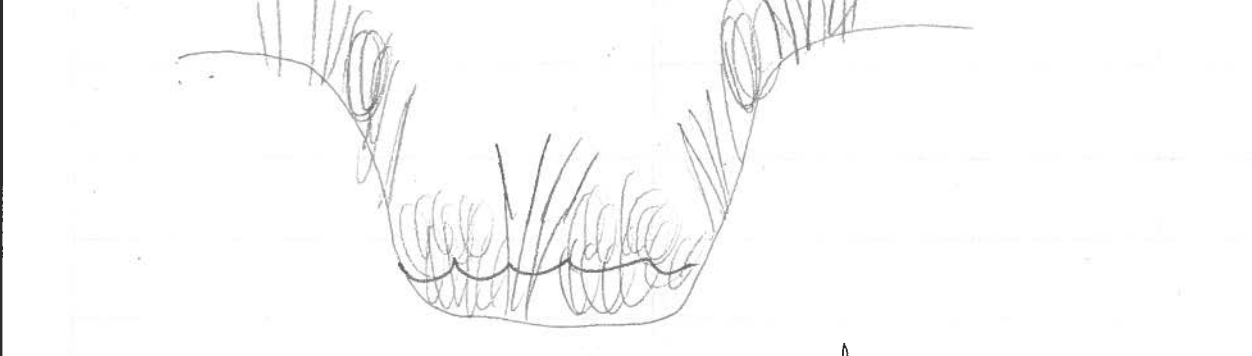
Watercourse Sketch

Study Area: Jericho Goshen Bluewater Land Parcel# ASH 2399/3068 Site ID D40



LEGEND	
10d depth (cm)	
10w width	
Riffle	
Run/Glide	
Pool	
Island/Bar	
Fine Substrate	
Gravel Substrate	
Cobble/Boulder	
Debris	
Cattail	
Submerg/Floal Veg	
Emergent Vegetation	
Watercress	
Iron Staining	
Eroded Bank	
Riprap / Other Stabilization	
Instream Log/Tree	
Dam/Weir/ Obstruction	
Riparian Tree	
Seep/Spring	
Undercut Bank	
Barrier to Fish Movement	
Seasonal Barrier	
Fence line	
Outlet	

Horizontal View of Channel



Initial QA/QC By: L. Bentley

Date: June 26, 2022

Technical QA/QC By: Autkin

Date: July 7/12

**Assessment of Non-Water Body
(update to mapping required)**

AECOM				Page 1 of 2	
General Information					
Study Area: Jericho <u>Goshen</u> Bluewater		Land Parcel# <u>GSH 2399/3068/29102</u>		Site ID: <u>D41</u>	
Date: <u>June 22/12</u>		Start time: <u>11:30</u>		End Time: <u>12:15</u>	
Weather Conditions: <u>Sunny 25°C</u>			Field Crew: <u>C. Boros, J. Epp</u>		
			Field Notes By: <u>J. Epp</u>		
Site Location					
<u>Sunshine Line, East of end of Crediton Rd.</u>					
UTM Co-ordinates					
Easting: <u>472649</u>		Northing: <u>4796588</u>		Description: <u>D41</u>	
Easting: <u>472808</u>		Northing: <u>4796799</u>		Description: <u>D41 Snake - gutter</u>	
Easting: <u>472810</u>		Northing: <u>4796717</u>		Description: <u>D41 END (edge of forest)</u>	
Easting:		Northing:		Description:	
Surrounding Landuse Residential ☐ Meadow ☐ Agriculture ☒ Wetland ☐ Forest ☒ Livestock ☐ Other ☐			Ground Water and Seepage Indicators Watercress ☐ Bank Seepage ☐ Iron Staining ☐ None ☒ Bubbling ☐		
Description: <u>soybeans - GSH 2399</u> <u>corn - GSH 3068</u> <u>Forest at edge</u>			Details: <u>None observed</u>		
Feature Description					
Is the mapped water body any of the below:					
1) a grassed waterway? <u>Y</u> / <u>N</u>					
2) Temporary channel for surface drainage, that can be tilled or driven through? <u>Y</u> / <u>N</u>					
3) Rock chutes or spillways? <u>Y</u> / <u>N</u>					
4) Roadside ditches that are not connected or do not contain a permanent or intermittent stream? <u>Y</u> / <u>N</u>					
5) Temporarily ponded areas that are normally farmed? <u>Y</u> / <u>N</u>					
6) Artificial bodies of water intended for storage, treatment for farming purposes? <u>Y</u> / <u>N</u>					
8) Any other:					
Description: (i.e. length of change, if it reappears, if there is evidence of water)					
<u>Possibly tile drained, at edge of forest running water</u> <u>could be heard. But could not see on GSH 2399</u> <u>due to rock piles ~ 7 ft high.</u> <u>Ploughed through.</u>					
Photo log					
Picture #	Sheet	Description	Picture #	Description	
16		Looking South			
2-3		Looking Northeast			
4-5		Edge of forest			

ASA
3068
29102

Assessment of Non-Water Body
(update to mapping required)

AECOM

Date: June 22/12

Land Parcel/Site ID:

GSH2399/3068/2962

Page 2 of 2

D41

Site Sketch

↑
N

SOY Bean

ROCK
PILE

D41 - DOES NOT EXIST

Watercourse may exist
in forest, heard
running water

lane way

corn

FOREST

Initial QA/QC: L. Bentley June 26, 2012
Technical QA/QC: S. Atkins Aug 2/12

Water Bodies Assessment Field Collection Form

AECOM		Page 1 of 4	
General Information			
Study Area: Jericho <u>Gosher</u>		Bluewater	Land Parcel# <u>G42255</u> Site ID: <u>MM 043 043</u>
Date: <u>June 11/12</u>		Start time: <u>15:40</u>	End Time: <u>16:30</u>
Weather Conditions: <u>Cloudy, 30°C</u>		Field Crew: <u>C. Baros, J. Epp</u> Field Notes By: <u>C. Baros</u>	
Site Location			
<u>Crediton Rd, west of Parr Line</u>			
UTM Co-ordinates (continue on page 3 if necessary)			
Easting: <u>454850</u>	Northing: <u>4794053</u>	Description: <u>043 start</u>	
Easting: <u>454865</u>	Northing: <u>4793886</u>	Description: <u>043 w.d.</u>	
Easting: <u>454829</u>	Northing: <u>4793807</u>	Description: <u>043 pop turtle</u>	
Easting: <u>454777</u>	Northing: <u>4793663</u>	Description: <u>043 end</u>	
Surrounding Landuse		Type of Watercourse	
Residential ☐	Meadow ☐	Intermittent ☐	Channelized ☒
Agriculture ☒	Wetland ☐	Permanent ☒	Natural Channel ☐
Forest ☐	Livestock ☐	Ephemeral ☐	
Other ☐			
Description: <u>soy bean fields</u>		Description: <u>does not meander</u>	
Notes: (include any inputs into the system i.e. tile drainage, seepages, overland flow)			
<u>Tile drains observed - one flowing</u>			
Is any portion of the water body underground or not as mapped? Y / <u>N</u>			
If Yes describe:			
GPS Coordinate Easting -		Northing - Description -	
Description of Land Topography Surrounding Water Body (rolling hills, sloping towards water body)			
<u>flat.</u>			
In-Situ Water Quality		Ground Water and Seepage Indicators	
WT (°C): <u>20.7</u>	AT (°C): <u>30°C</u>	Watercress ☐	Bank Seepage ☐
pH: <u>7.35</u>	Cond (µs/cm): <u>675</u>	Iron Staining ☐	None ☐
D.O. (mg/L): <u>5.80</u>		Bubbling ☐	<u>water</u> ☒
Water Clarity: Clear ☒	Turbid St. ☒	Other ☐	<u>speed well</u>
Water Colour: <u>brown when in turbid area</u> <u>9/5/over moving</u>		Details:	
Notes: <u>Water depth 0.2 m - dead cattail</u> <u>+ emergent veg present</u>			

Water Bodies Assessment Field Collection Form

Stream Morphology																				
Site Length (m): 200m			Bank Stability:																	
Channel Dimensions			<table border="1" style="width: 100%; text-align: center;"> <tr> <td></td> <td>Stable</td> <td>Slightly unstable</td> <td>Moderately unstable</td> <td>Unstable</td> </tr> <tr> <td>Left Bank</td> <td>☒</td> <td>☐</td> <td>☐</td> <td>☐</td> </tr> <tr> <td>Right Bank</td> <td>☒</td> <td>☐</td> <td>☐</td> <td>☐</td> </tr> </table>				Stable	Slightly unstable	Moderately unstable	Unstable	Left Bank	☒	☐	☐	☐	Right Bank	☒	☐	☐	☐
	Stable	Slightly unstable	Moderately unstable	Unstable																
Left Bank	☒	☐	☐	☐																
Right Bank	☒	☐	☐	☐																
Mean Wetted Width (m): 1.7	Mean Wetted Depth (m): 0.15	Description: well vegetated																		
Mean Bankfull Width (m): 2.5	Mean Bankfull Depth (m): 0.5																			
Mean Top of Bank Width (m): 4	Mean Top of Bank Depth (m): 2.5																			
Flow Description: (high or low flow conditions, stagnant, etc)																				
slow flow, low water level																				
Habitat																				
Substrate (<=>)		Morphological Structure (%)																		
Bo - Boulder Co - Cobble Gr - Gravel Sa - Sand Si - Silt Cl - Clay MK - Muck DT - Detritus		<table border="1" style="width: 100%; text-align: center;"> <tr> <td>Pool</td> <td>Riffle</td> <td>Run</td> <td>Flat</td> </tr> <tr> <td>5</td> <td></td> <td></td> <td>95</td> </tr> </table>				Pool	Riffle	Run	Flat	5			95							
Pool	Riffle	Run	Flat																	
5			95																	
Description: mk = si = cl > sa		Notes: small pools observed																		
Instream Cover (%) 85																				
Other veg debris	Woody Debris	Boulders	Cobble	Aquatic Vegetation*	None															
30	/	/	/	55	/															
Undercut Banks																				
Average Depth: /																				
(% Cover) /																				
Note: Low = 0 - 30%; Moderate = 30 - 75%; High = 75 - 100%																				
*Aquatic Vegetation Species Present (algae, submergent, emergent etc.)																				
cattails > grasses, water speedwell > algae - blooms																				
Canopy Cover (% closed cover):			Types of Cover (% cover)																	
100-90% ☐	30-1% ☐	Trees 10	Shrubs 40	Man-made structures																
90-60% ☐	0% ☐	Grasses 50	Herbaceous	Other																
60-30% ☒																				
Note: Low = 0 - 30%; Moderate = 30 - 60%; High = 60 - 100%																				
Notes: (vegetation species, types of structures)																				
cattail > shrubs - dogwood, willow, grasses - emergent																				
Riparian Vegetation																				
Width and Description of riparian vegetation: LB - < 0.5m - meadow			RB - < 0.5 - meadow																	
Overhanging Vegetation Present (Y) N			% Overhanging Vegetation: 7																	
Description of Overhanging Vegetation: dogwood + willow - dense cover sporadically																				
Obstructions to Fish Passage																				
None Observed ☒	Man-Made ☐	Natural ☐	Low Flow Barrier ☐																	
Description of Barrier:																				
Height of Barrier (m) /																				
GPS Coordinates: /																				

Water Bodies Assessment Field Collection Form

AECOM

Date: June 11/12

Land Parcel/Site ID:

RSH 2255

Page 3 of 4

~~124~~ D43

Other General Comments Regarding the Study Area:

Watercourse is a straight channelized feature. There is high instream cover due to veg debris, cattail + water speedwell. The substrate is soft. Canopy cover is moderate.

- Snapping turtle observed.

Additional UTM Coordinates:

Photo log

Picture #	Description	Picture #	Description
1a	Sheet		
1-2	road culvert		
3-14	Channel overview		
15	Snapping turtle		
16-17	Channel overview		

Water Bodies Assessment Field Collection Form

AECOM

Page 4 of 4

Watercourse Sketch

Study Area:

Jericho

Goshen

Bluewater

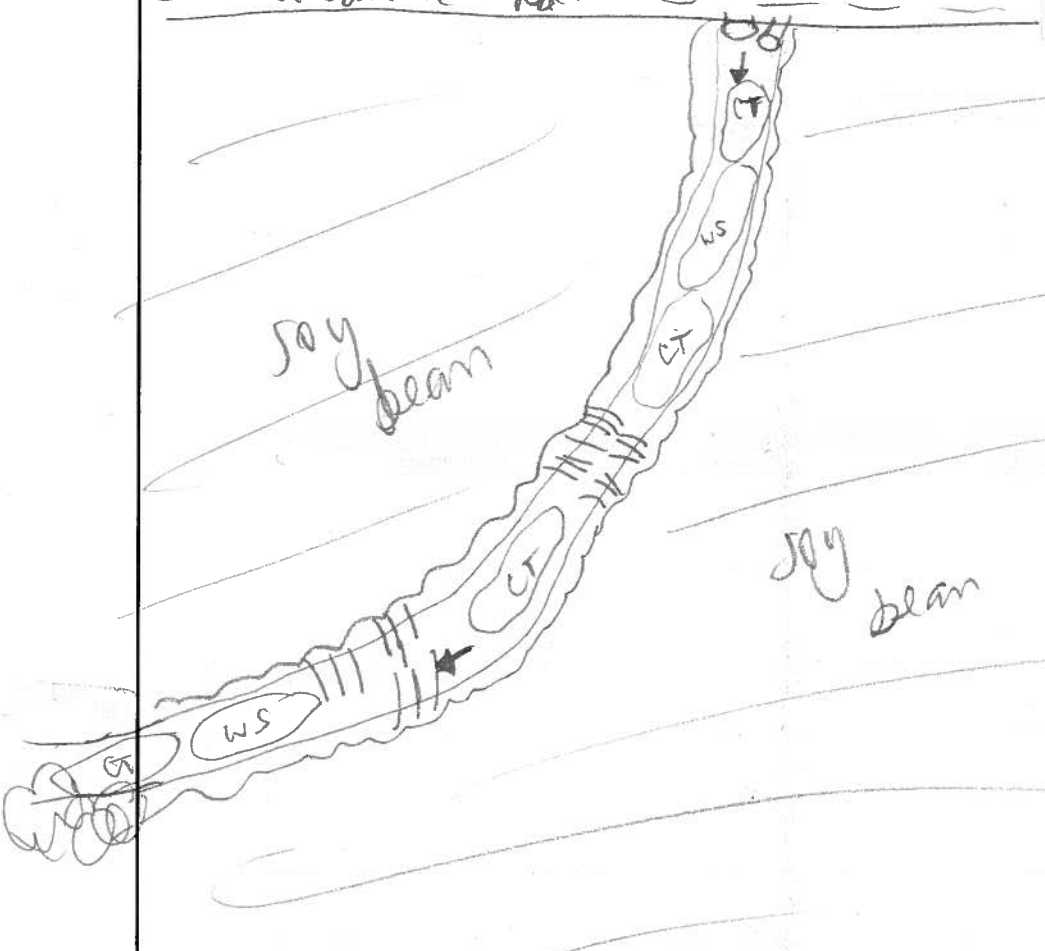
Land Parcel#

02255

Site ID

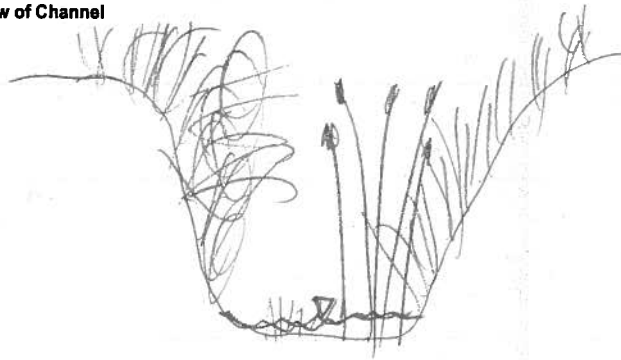
D43

Crediton Rd.



LEGEND	
10d depth (cm)	
8w width	
Riffle	
Run/Glide	
Pool	
Island/Bar	
Fine Substrate	
Gravel Substrate	
Cobble/Boulder	
Debris	
Cattail	
Submerged/Float Veg	
Emergent Vegetation	
Watercress	
Iron Staining	
Eroded Bank	
Riprap / Other Stabilization	
Instream Log/Tree	
Dam/Weir/ Obstruction	
Riparian Tree	
Seep/Spring	
Undercut Bank	
Barrier to Fish Movement	
Seasonal Barrier	
Fence line	
Culvert	

Horizontal View of Channel



Initial QA/QC By:

L. Bentley

Date:

June 26, 2012

Technical QA/QC By:

Butler

Date:

July 9/12

Water Bodies Assessment Field Collection Form

Page 1 of 4

AECOM

General Information

Study Area: Jericho	<u>Goshen</u>	Bluewater	Land Parcel# <u>654 1068</u>	Site ID: <u>Turbine 63</u>	<u>D44</u>
Date: <u>April 18/12</u>	Start time: <u>11:20</u>	End Time: <u>12:20</u>			
Weather Conditions: <u>Sunny, 10°C</u>			Field Crew: <u>C. Boreas, S. Lohes</u>		
			Field Notes By: <u>C. Boreas</u>		

Site Location

Turbine 63 Duffer area
→ Accessed by ~~Highway~~ Greenway dr.

UTM Co-ordinates (continue on page 3 if necessary)

Easting: <u>0438374</u>	Northing: <u>478 7766</u>	Description: <u>East end</u>
Easting: <u>0438288</u>	Northing: <u>478 7779</u>	Description: <u>Rock pile</u>
Easting: <u>0438289</u>	Northing: <u>478 7857</u>	Description: <u>North end</u>
Easting:	Northing:	Description:

Surrounding Landuse		Type of Watercourse	
Residential ☐	Meadow ☐	Intermittent ☐	Channelized ☒
Agriculture ☒	Wetland ☐	Permanent ☒	Natural Channel ☐
Forest ☐	Livestock ☐	Ephemeral ☐	
Other ☐			
Description: <u>rough follow/crop</u>		Description: <u>straight</u>	

Notes: (include any inputs into the system i.e. tile drainage, seepages, overland flow)

-none observed

Is any portion of the water body underground or not as mapped? Y / N

If Yes describe:

GPS Coordinate: Easting -

Northing -

Description -

Description of Land Topography Surrounding Water Body (rolling hills, sloping towards water body)

flat

In-Situ Water Quality

WT (°C): <u>12.5</u>	AT (°C): <u>10°C</u>
pH: <u>7.82</u>	Cond (s/cm): <u>624</u>
D.O. (mg/L) <u>11.3</u>	
Water Clarity: Clear ☒	Turbid ☐

Water Colour: clear

Notes:

Ground Water and Seepage Indicators

Watercress ☒	Bank Seepage ☐
Iron Staining ☐	None ☐
Bubbling ☐	
Other ☐	

Details:

Water Bodies Assessment Field Collection Form

Stream Morphology																			
Site Length (m): <u>40m</u>			Bank Stability:																
Channel Dimensions			<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th></th> <th>Stable</th> <th>Slightly unstable</th> <th>Moderately unstable</th> <th>Unstable</th> </tr> <tr> <td>Left Bank</td> <td>☒</td> <td>☐</td> <td>☐</td> <td>☐</td> </tr> <tr> <td>Right Bank</td> <td>☒</td> <td>☐</td> <td>☐</td> <td>☐</td> </tr> </table>			Stable	Slightly unstable	Moderately unstable	Unstable	Left Bank	☒	☐	☐	☐	Right Bank	☒	☐	☐	☐
	Stable	Slightly unstable	Moderately unstable	Unstable															
Left Bank	☒	☐	☐	☐															
Right Bank	☒	☐	☐	☐															
Mean Wetted Width (m): <u>0.8</u>	Mean Wetted Depth (m): <u>0.05</u>		Description: <u>veg bank</u>																
Mean Bankfull Width (m): <u>1.3</u>	Mean Bankfull Depth (m): <u>0.5</u>																		
Mean Top of Bank Width (m): <u>4.5</u>	Mean Top of Bank Depth (m): <u>2</u>																		
Flow Description: (high or low flow conditions, stagnant, etc) <u>- no flow observed, stagnant</u>																			
Habitat																			
Substrate (< = >)		Morphological Structure (%)																	
Bo - Boulder Co - Cobble Gr - Gravel Sa - Sand Si - Silt Cl - Clay MK - Muck DT - Detritus <u>Si, Sand</u>		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>Pool</th> <th>Riffle</th> <th>Run</th> <th>Flat</th> </tr> <tr> <td></td> <td></td> <td></td> <td><u>100</u></td> </tr> </table>			Pool	Riffle	Run	Flat				<u>100</u>							
		Pool	Riffle	Run	Flat														
					<u>100</u>														
Notes: <u>Straight</u>																			
Instream Cover (%) <u>75</u>																			
Other <u>detritus</u>	Woody Debris	Boulders	Cobble	Aquatic Vegetation*	None	Undercut Banks													
<u>30%</u>	<u>10%</u>	<u>/</u>	<u>/</u>	<u>35%</u>	<u>/</u>	Average Depth: <u>/</u> (% Cover) <u>/</u>													
Note: Low = 0 - 30%; Moderate = 30 - 75%; High = 75 - 100% *Aquatic Vegetation Species Present (algae, submergent, emergent etc.) <u>Phragmites, Cattails, WC, algae, grasses</u>																			
Canopy Cover (% closed cover):				Types of Cover (% cover)															
100-90% ☐	30-1% ☐	Trees <u>35</u>		Shrubs <u>50</u>	Man-made structures														
90-60% ☒	0% ☐	Grasses <u>15</u>		Herbaceous	Other														
60-30% ☐																			
Note: Low = 0 - 30%; Moderate = 30 - 60%; High = 60 - 100% Notes: (vegetation species, types of structures) <u>deciduous</u>																			
Riparian Vegetation																			
Width of riparian vegetation: <u>1m</u>																			
Description of vegetation community surrounding 30 m from watercourse: <u>deciduous trees, shrubs, grass</u>																			
Obstructions to Fish Passage																			
No Obstructions ☒	Man-Made ☐	Natural ☐	Low Flow Barrier ☐																
Description of Barrier:																			
Height of Barrier (m)			GPS Coordinates:																

Water Bodies Assessment Field Collection Form

AECOM

Date:

April 18/12

Land Parcel/Site ID:

GSH 1068
Turbine 63

Page 3 of 4

D44

Other General Comments Regarding the Study Area:

- Rock pile at corner [5m x 3m x 0.75m]
- minnows observed.

Watercourse is channelized and ~~highly~~ ^{moderately} vegetated
 w/ cattail + phragmites followed by grasses + algae.
 Canopy cover is high and a mix of trees + shrubs
 silty sand bottom.

Additional UTM Coordinates:

Photo Log

Picture #	Description	Picture #	Description
1-3	overview		
4-5	East channel.		
6	Substrate		
7	North overview		
8	Rock piles		
9-10	elbow		
10-11	North branch		
12	North - Substrate		

Water Bodies Assessment Field Collection Form

AECOM

Page 4 of 4

Watercourse Sketch

Study Area:

Jericho

Goshen

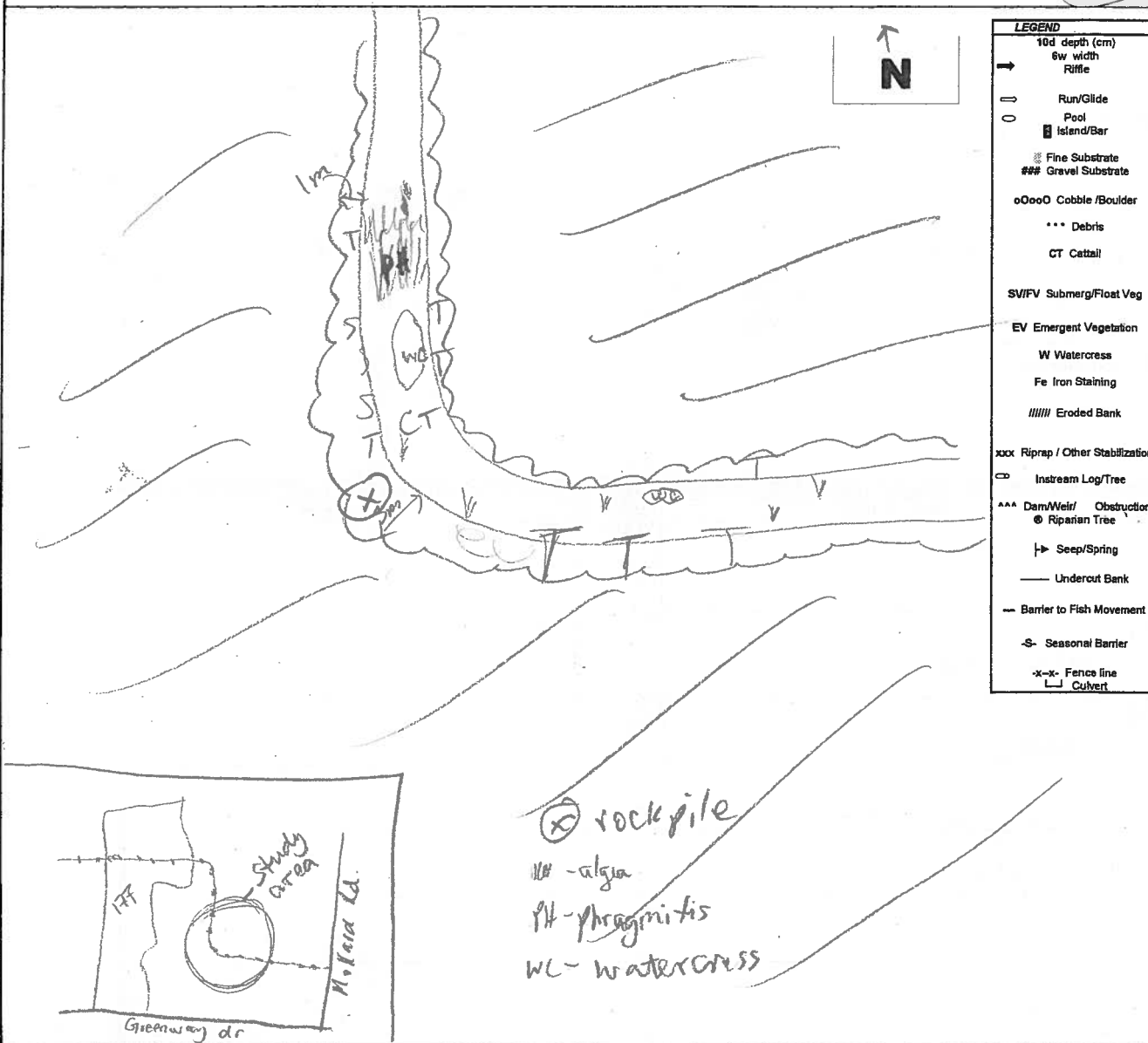
Bluewater

Land Parcel# 6841068

Site ID

Thabine 6.3

D44



Horizontal View of Channel



Initial QA/QC By:

AMS

Date: 19/04/2012

Technical QA/QC By:

Sautkin

Date:

May 3/12

Water Bodies Assessment Field Collection Form

AECOM		Page 1 of 4	
General Information			
Study Area: Jericho	Goshen	Bluewater	Land Parcel# GSH 1058 (Asia) GSH 1092 Site ID: <u>D19 D45</u>
Date: <u>July 12/12</u>		Start time: <u>11:00</u> End Time: <u>11:16</u>	
Weather Conditions: <u>Sunny, hot</u>		Field Crew: <u>S. Aitken, G. Ferris</u> Field Notes By: <u>S. Aitken</u>	
Site Location			
<u>located along credithon Rd</u> <u>Roadside Survey for GSH 1058</u>			
UTM Co-ordinates (continue on page 3 if necessary)			
Easting: <u>449590</u>	Northing: <u>4793324</u>	Description: <u>at culvert - south side</u>	
Easting:	Northing:	Description:	
Easting:	Northing:	Description:	
Easting:	Northing:	Description:	
Surrounding Landuse Residential ☐ Meadow ☐ Agriculture ☒ Wetland ☐ Forest ☐ Livestock ☐ Other ☐		Type of Watercourse Intermittent ☐ Channelized ☒ Permanent ☒ Natural Channel ☐ Ephemeral ☐	
Description: <u>South side runs parallel to credithon road</u>		Description: <u>on south side runs parallel to road in ditch</u>	
Notes: (include any inputs into the system i.e. tile drainage, seepages, overland flow) <u>yes, large culverts & roadside ditch</u>			
Is any portion of the water body underground or not as mapped? <u>Y (N)</u> If Yes describe:			
GPS Coordinate: Easting - Northing - Description -			
Description of Land Topography Surrounding Water Body (rolling hills, sloping towards water body) <u>rolling towards water body</u>			
In-Situ Water Quality		Ground Water and Seepage Indicators	
WT (°C): <u>17.48</u>	AT (°C): <u>29°C</u>	Watercress ☐ Bank Seepage ☐	
pH: <u>7.75</u>	Cond (µs/cm): <u>2520</u>	Iron Staining ☐ None ☒	
D.O. (mg/L): <u>8.47</u>	Water Clarity: Clear ☒ Turbid ☐	Bubbling ☐ Other ☐	
Water Colour: <u>clear</u>		Details: <u>none observed.</u>	
Notes: <u>WQ taken at culvert on south side</u>			

Water Bodies Assessment Field Collection Form

Stream Morphology																				
Site Length (m): <u>~50m</u>			Bank Stability:																	
Channel Dimensions			<table border="1" style="width: 100%; text-align: center;"> <tr> <td></td> <td>Stable</td> <td>Slightly unstable</td> <td>Moderately unstable</td> <td>Unstable</td> </tr> <tr> <td>Left Bank</td> <td>☒</td> <td>☐</td> <td>☐</td> <td>☐</td> </tr> <tr> <td>Right Bank</td> <td>☒</td> <td>☐</td> <td>☐</td> <td>☐</td> </tr> </table>				Stable	Slightly unstable	Moderately unstable	Unstable	Left Bank	☒	☐	☐	☐	Right Bank	☒	☐	☐	☐
	Stable	Slightly unstable	Moderately unstable	Unstable																
Left Bank	☒	☐	☐	☐																
Right Bank	☒	☐	☐	☐																
Mean Wetted Width (m): <u>1.25</u>	Mean Wetted Depth (m): <u>0.08</u>	Description: <u>well vegetated</u>																		
Mean Bankfull Width (m): <u>3.00</u>	Mean Bankfull Depth (m): <u>0.8</u>																			
Mean Top of Bank Width (m): <u>6.00</u>	Mean Top of Bank Depth (m): <u>2.00</u>																			
Flow Description: (high or low flow conditions, stagnant, etc) <u>low flow conditions</u>																				
Habitat																				
Substrate (<=>)		Morphological Structure (%)																		
Bo - Boulder Co - Cobble Gr - Gravel Sa - Sand Si - Silt Cl - Clay MK - Muck DT - Detritus		<table border="1" style="width: 100%; text-align: center;"> <tr> <td>Pool</td> <td>Riffle</td> <td>Run</td> <td>Flat</td> </tr> <tr> <td></td> <td></td> <td></td> <td><u>100</u></td> </tr> </table>				Pool	Riffle	Run	Flat				<u>100</u>							
Pool	Riffle	Run	Flat																	
			<u>100</u>																	
Description: <u>Si -> Boulder</u>		Notes: <u>lots of vegetation</u>																		
Instream Cover (%)																				
Other	Woody Debris	Boulders	Cobble	Aquatic Vegetation*	None															
				<u>90</u>																
					Undercut Banks															
					Average Depth: (% Cover)															
Note: Low = 0 - 30%; Moderate = 30 - 75%; High = 75 - 100%																				
*Aquatic Vegetation Species Present (algae, submergent, emergent etc.) <u>common reed, grasses, duckweed</u>																				
Canopy Cover (% closed cover):			Types of Cover (% cover)																	
100-90%	☐	30-1%	☐	Trees	Shrubs															
90-60%	☒	0%	☐	Grasses <u>50</u>	Herbaceous <u>50</u>															
60-30%	☐				Man-made structures															
			Other																	
Note: Low = 0 - 30%; Moderate = 30 - 60%; High = 60 - 100%																				
Notes: (vegetation species, types of structures) <u>aquatic vegetation</u>																				
Riparian Vegetation																				
Width and Description of riparian vegetation: <u>LB - 5m grasses + herbaceous</u>			<u>RB - 5m grasses + herbaceous veg</u>																	
Overhanging Vegetation Present Y/N <u>(N)</u>			% Overhanging Vegetation:																	
Description of Overhanging Vegetation:																				
Obstructions to Fish Passage																				
None Observed	☐	Man-Made	☐	Natural	☐															
				Low Flow Barrier	☒															
Description of Barrier:																				
Height of Barrier (m)			GPS Coordinates:																	

Water Bodies Assessment Field Collection Form

AECOM

Date:

July 12/12

Land Parcel/Site ID:

65H 1058 + 1092
~~D19~~ D48
 Page 3 of 4

Other General Comments Regarding the Study Area:

- flows through ditch on south side through box culvert into agri field on north side
- channel choked w/ grasses & herbaceous veg
- cyprinid observed
- green frog seen & heard
- small pool (no flow) on north side

Additional UTM Coordinates:

Photo log

Picture #	Description	Picture #	Description
13-15	South side		
16-19	north side		

Water Bodies Assessment Field Collection Form

AECOM

Page 4 of 4

Watercourse Sketch

Study Area:

Jericho

Goshen

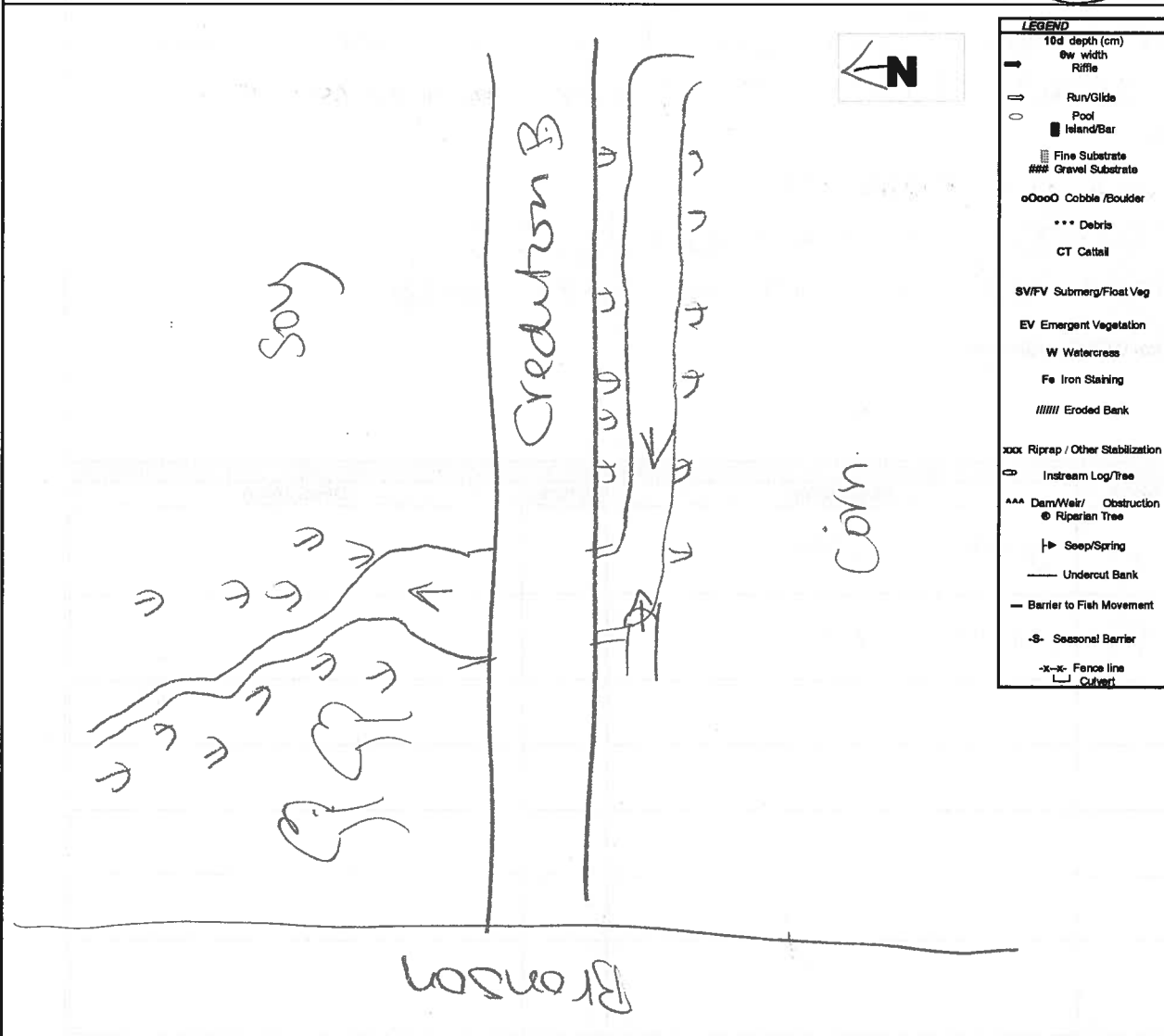
Bluewater

Land Parcel#

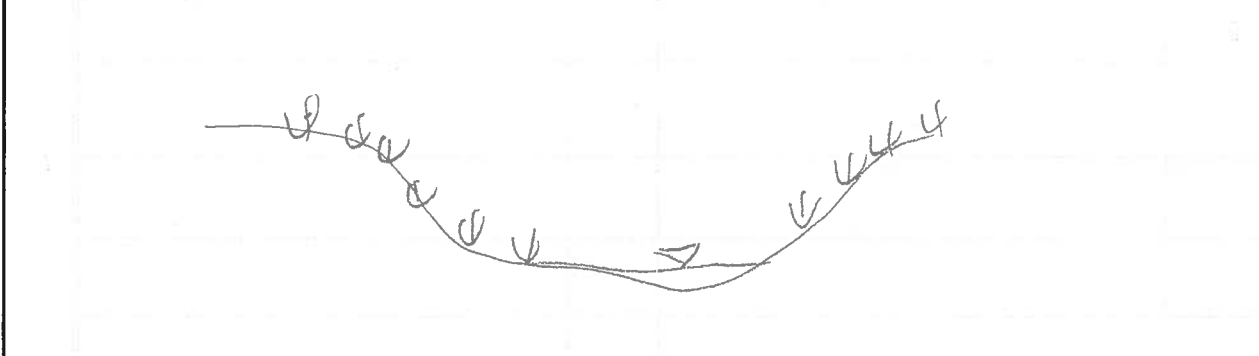
1058+
1092

Site ID

219 (D45)



Horizontal View of Channel



Initial QA/QC By: L. Bentley

Date: Aug. 2, 2012

Technical QA/QC By: [Signature]

Date: 2nd August 2012

Water Bodies Assessment Field Collection Form

AECOM		Page 1 of 4	
General Information			
Study Area: Jericho	Goshen	Bluewater	Land Parcel# 2147+2160
Date: July 12/12		Start time: 11:20	End Time: 11:30
Weather Conditions: Sunny, hot		Field Crew: S. Aitken, G. Ferris	
		Field Notes By: S. Aitken	
Site Location			
located along Crediton Road east of Goshen Line			
UTM Co-ordinates (continue on page 3 if necessary)			
none taken			
Easting:	Northing:	Description:	
Easting:	Northing:	Description:	
Easting:	Northing:	Description:	
Easting:	Northing:	Description:	
Surrounding Landuse		Type of Watercourse	
Residential ☐	Meadow ☐	Intermittent ☐	Channelized ☒
Agriculture ☒	Wetland ☐	Permanent ☒	Natural Channel ☐
Forest ☐	Livestock ☐	Ephemeral ☐	
Other ☐		Description: starting to naturalize	
Description: corn - SE wheat - SW corn on north			
Notes: (include any inputs into the system i.e. tile drainage, seepages, overland flow)			
- roadside ditch			
Is any portion of the water body underground or not as mapped? Y / <u>N</u>			
If Yes describe:			
GPS Coordinates: Easting - Northing - Description -			
Description of Land Topography Surrounding Water Body (rolling hills, sloping towards water body)			
fairly flat Slopes towards waterbody			
In-Situ Water Quality		Ground Water and Seepage Indicators	
WT(°C): 18.19	AT(°C): 29	Watercress ☐	Bank Seepage ☐
pH: 7.61	Cond (µs/cm): 557	Iron Staining ☐	None ☒
D.O. (mg/L): 1.75		Bubbling ☐	
Water Clarity: Clear ☐	Turbid ☒	Other ☐	
Water Colour: brown		Details: none observed	
Notes: WQ taken on South side at culvert			

Water Bodies Assessment Field Collection Form

Stream Morphology																				
Site Length (m): <u>~ 20m</u>			Bank Stability:																	
Channel Dimensions			<table border="1" style="width: 100%; text-align: center;"> <tr> <td></td> <td>Stable</td> <td>Slightly unstable</td> <td>Moderately unstable</td> <td>Unstable</td> </tr> <tr> <td>Left Bank</td> <td>☒</td> <td>☐</td> <td>☐</td> <td>☐</td> </tr> <tr> <td>Right Bank</td> <td>☒</td> <td>☐</td> <td>☐</td> <td>☐</td> </tr> </table>				Stable	Slightly unstable	Moderately unstable	Unstable	Left Bank	☒	☐	☐	☐	Right Bank	☒	☐	☐	☐
	Stable	Slightly unstable	Moderately unstable	Unstable																
Left Bank	☒	☐	☐	☐																
Right Bank	☒	☐	☐	☐																
Mean Wetted Width (m): <u>1.50</u>	Mean Wetted Depth (m): <u>0.16</u>	Description: <u>well vegetated</u>																		
Mean Bankfull Width (m): <u>4.50</u>	Mean Bankfull Depth (m): <u>0.25</u>																			
Mean Top of Bank Width (m): <u>7.00</u>	Mean Top of Bank Depth (m): <u>3.5</u>																			
Flow Description: (high or low flow conditions, stagnant, etc) <u>low flow</u>																				
Habitat																				
Substrate (<=>)			Morphological Structure (%)																	
Bo - Boulder Co - Cobble Gr - Gravel Sa - Sand Si - Silt Cl - Clay MK - Muck DT - Detritus <u>Si</u>			<table border="1" style="width: 100%; text-align: center;"> <tr> <td>Pool</td> <td>Riffle</td> <td>Run</td> <td>Flat</td> </tr> <tr> <td></td> <td></td> <td></td> <td><u>100</u></td> </tr> </table>			Pool	Riffle	Run	Flat				<u>100</u>							
			Pool	Riffle	Run	Flat														
			<u>100</u>																	
			Notes: <u>slow moving</u>																	
Instream Cover (%)																				
Other	Woody Debris	Boulders	Cobble	Aquatic Vegetation*	None	Undercut Banks														
	<u>5</u>			<u>10</u>		Average Depth: (% Cover)														
Note: Low = 0 - 30%; Moderate = 30 - 75%; High = 75 - 100%																				
*Aquatic Vegetation Species Present (algae, submergent, emergent etc.) <u>algae, pond weed sp, duckweed</u>																				
Canopy Cover (% closed cover):				Types of Cover (% cover)																
100-90%	☐	30-1%	☐	Trees	Shrubs <u>100</u>	Man-made structures														
90-60%	☐	0%	☐	Grasses	Herbaceous	Other														
60-30%	☒																			
Note: Low = 0 - 30%; Moderate = 30 - 60%; High = 60 - 100%																				
Notes: (vegetation species, types of structures) <u>willow shrubs</u>																				
Riparian Vegetation																				
Width and Description of riparian vegetation: LB - <u>5m willow shrub</u>			RB - <u>5m willow shrub</u>																	
Overhanging Vegetation Present <u>Y/N</u>			% Overhanging Vegetation:																	
Description of Overhanging Vegetation:																				
Obstructions to Fish Passage																				
None Observed ☒	Man-Made ☐	Natural ☐	Low Flow Barrier ☐																	
Description of Barrier:																				
Height of Barrier (m)			GPS Coordinates:																	

Water Bodies Assessment Field Collection Form

AECOM

Date: July 12/12

Land Parcel/Site ID:

65H 2160 & 2147

Page 3 of 4

D46

Other General Comments Regarding the Study Area:

- channelized feature turning to natural
- willow shrubs along south side
- box culvert
- natural hydrocarbons
- raccoon tracks

Additional UTM Coordinates:

Photo log

Picture #	Description	Picture #	Description
20-22	South side		
23-24	North side		

Water Bodies Assessment Field Collection Form

AECOM

Page 4 of 4

Watercourse Sketch

Study Area:

Jericho

Goshen

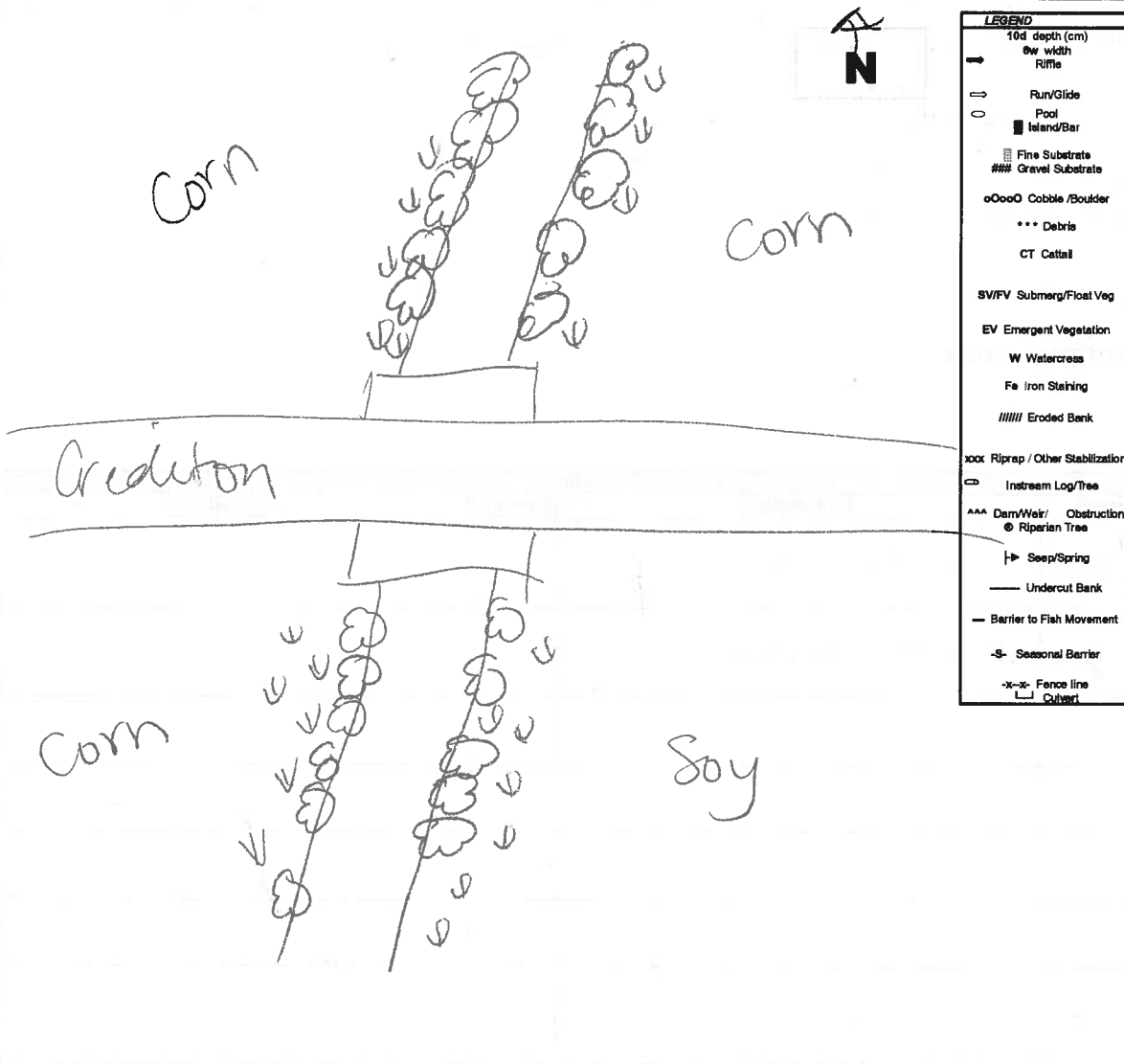
Bluewater

Land Parcel#

216042147

Site ID

D46



LEGEND	
10d depth (cm)	
Sw width	
Riffle	
Run/Glide	
Pool	
Island/Bar	
Fine Substrate	
Gravel Substrate	
Cobble/Boulder	
Debris	
Cattail	
Submerg/Floal Veg	
Emergent Vegetation	
Watercross	
Iron Staining	
Eroded Bank	
Riprap / Other Stabilization	
Instream Log/Tree	
Dam/Weir/ Obstruction	
Riparian Tree	
Seep/Spring	
Undercut Bank	
Barrier to Fish Movement	
Seasonal Barrier	
Fence line	
Culvert	

Horizontal View of Channel



Initial QA/QC By: L. Bentley

Date: Aug. 2, 2012

Technical QA/QC By:

Other

Date:

2nd August 2012

Water Bodies Assessment Field Collection Form

AECOM		Page 1 of 4	
General Information			
Study Area: Jericho <u>Goshen</u> Bluewater	Land Parcel# 805142052	Site ID: <u>Home Run #3 D47</u>	
Date: <u>July 12/12</u>	Start time: <u>11:40</u>	End Time: <u>11:50</u>	
Weather Conditions: <u>Sunny, hot</u>		Field Crew: <u>S. Aitken, br. Ferris</u>	
		Field Notes By: <u>S. Aitken</u>	
Site Location			
<u>crossing located on Crediton Rd east of Babylon Line</u>			
UTM Co-ordinates (continue on page 3 if necessary)			
Easting: <u>0453946</u>	Northing: <u>4793916</u>	Description: <u>WG</u>	
Easting:	Northing:	Description:	
Easting:	Northing:	Description:	
Easting:	Northing:	Description:	
Surrounding Landuse		Type of Watercourse	
Residential ☐	Meadow ☐	Intermittent ☐	Channelized ☒
Agriculture ☒	Wetland ☐	Permanent ☒	Natural Channel ☐
Forest ☐	Livestock ☐	Ephemeral ☐	
Other ☐			
Description: <u>soy - SE pasture - SW</u> <u>soy - NE + NW</u>		Description: <u>channelized feature</u> <u>starting to naturalize</u>	
Notes: (include any inputs into the system i.e. tile drainage, seepages, overland flow) <u>-collects water from roadside ditch</u>			
Is any portion of the water body underground or not as mapped? Y <u>(N)</u> If Yes describe:			
GPS Coordinate: Easting - Northing - Description -			
Description of Land Topography Surrounding Water Body (rolling hills, sloping towards water body)			
<u>flat</u>			
In-Situ Water Quality		Ground Water and Seepage Indicators	
WT (°C): <u>19.73</u>	AT (°C): <u>29</u>	Watercress ☐	Bank Seepage ☐
pH: <u>7.72</u>	Cond (µs/cm): <u>1860</u>	Iron Staining ☐	None ☒
D.O. (mg/L): <u>5.89</u>		Bubbling ☐	
Water Clarity: Clear ☐ Turbid ☒		Other ☐	
Water Colour: <u>light brown</u>		Details: <u>none observed</u>	
Notes: <u>WG taken at south culvert</u>			

Water Bodies Assessment Field Collection Form

Stream Morphology																				
Site Length (m): <u>~ 20 m</u>			Bank Stability:																	
Channel Dimensions			<table border="1" style="width: 100%; text-align: center;"> <tr> <td></td> <td>Stable</td> <td>Slightly unstable</td> <td>Moderately unstable</td> <td>Unstable</td> </tr> <tr> <td>Left Bank</td> <td>☒</td> <td>☐</td> <td>☐</td> <td>☐</td> </tr> <tr> <td>Right Bank</td> <td>☒</td> <td>☐</td> <td>☐</td> <td>☐</td> </tr> </table>				Stable	Slightly unstable	Moderately unstable	Unstable	Left Bank	☒	☐	☐	☐	Right Bank	☒	☐	☐	☐
	Stable	Slightly unstable	Moderately unstable	Unstable																
Left Bank	☒	☐	☐	☐																
Right Bank	☒	☐	☐	☐																
Mean Wetted Width (m): <u>0.60</u>	Mean Wetted Depth (m): <u>0.08</u>	Description: <u>well vegetated</u>																		
Mean Bankfull Width (m): <u>3.00</u>	Mean Bankfull Depth (m): <u>0.40</u>																			
Mean Top of Bank Width (m): <u>5.00</u>	Mean Top of Bank Depth (m): <u>2.5</u>																			
Flow Description: (high or low flow conditions, stagnant, etc) <u>low flow conditions</u>																				
Habitat																				
Substrate (< = >)		Morphological Structure (%)																		
Bo - Boulder Co - Cobble Gr - Gravel Sa - Sand Si - Silt Cl - Clay MK - Muck DT - Detritus		<table border="1" style="width: 100%; text-align: center;"> <tr> <td>Pool</td> <td>Riffle</td> <td>Run</td> <td>Flat</td> </tr> <tr> <td><u>5</u></td> <td></td> <td></td> <td><u>100</u> 95</td> </tr> </table>				Pool	Riffle	Run	Flat	<u>5</u>			<u>100</u> 95							
Pool	Riffle	Run	Flat																	
<u>5</u>			<u>100</u> 95																	
Description: <u>Si</u>		Notes:																		
Instream Cover (%)																				
Other	Woody Debris	Boulders	Cobble	Aquatic Vegetation*	None															
				<u>100</u>																
					Undercut Banks															
					Average Depth: (% Cover)															
Note: Low = 0 - 30%; Moderate = 30 - 75%; High = 75 - 100%																				
*Aquatic Vegetation Species Present (algae, submergent, emergent etc.) <u>Cattails, Sedges</u>																				
Canopy Cover (% closed cover):			Types of Cover (% cover)																	
100-90%	☐	30-1%	☐	Trees	Shrubs															
90-60%	☒	0%	☐	Grasses	Herbaceous															
60-30%	☐			<u>50</u>	<u>50</u>															
			Man-made structures Other <u>Sedges</u>																	
Note: Low = 0 - 30%; Moderate = 30 - 60%; High = 60 - 100%																				
Notes: (vegetation species, types of structures)																				
Riparian Vegetation																				
Width and Description of riparian vegetation: <u>LB - 5m</u> <u>mix of grasses + herbaceous</u>			<u>RB - 5m</u> <u>→ same</u>																	
Overhanging Vegetation Present Y / N			% Overhanging Vegetation:																	
Description of Overhanging Vegetation:																				
Obstructions to Fish Passage																				
None Observed	☒	Man-Made	☐	Natural	☐															
		Low Flow Barrier	☐																	
Description of Barrier:																				
Height of Barrier (m)			GPS Coordinates:																	

Land Parcel/Site ID:

Page 3 of 4

D 47

- Channel is slightly choked w cattails & sedges
- low flow
- raccoons walking through channel
- natural hydrocarbon

Additional UTM Coordinates:

[illegible]

Water Bodies Assessment Field Collection Form

AECOM

Page 4 of 4

Watercourse Sketch

Study Area:

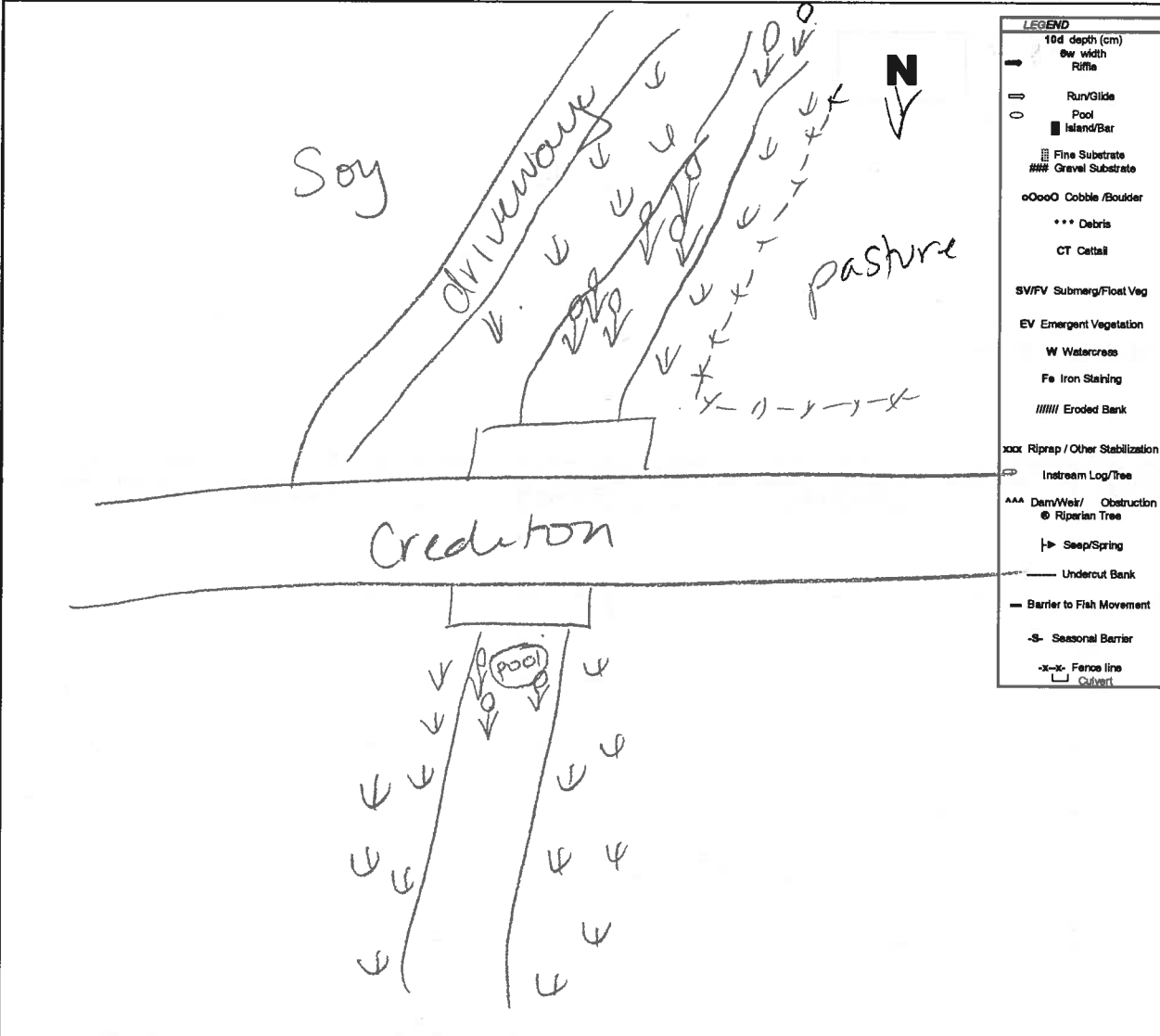
Jericho

Goshen

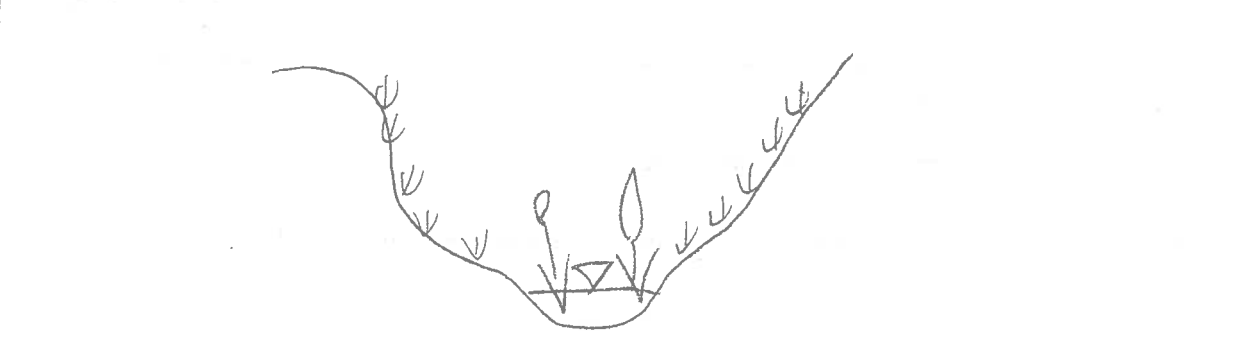
Bluewater

Land Parcel# 2053 + 2051 Site ID

D47



Horizontal View of Channel



Initial QA/QC By: L. Bentley

Date: Aug 2, 2012 Technical QA/QC By: [Signature]

Date: 2nd April 2012

Water Bodies Assessment Field Collection Form

AECOM		Page 1 of 4	
General Information			
Study Area: Jericho	Goshen	Bluewater	Land Parcel# 10608
Date: July 12/12	Start time: 9:45	Site ID: D48	
Weather Conditions: Sunny, 27°C		Field Crew: S. Aitken, G. Ferris	
		Field Notes By: S. Aitken	
Site Location			
located west off Mollard Drive along Old Ausable channel.			
UTM Co-ordinates (continue on page 3 if necessary)			
Easting: 437067	Northing: 4789043	Description: WQ	
Easting:	Northing:	Description:	
Easting:	Northing:	Description:	
Easting:	Northing:	Description:	
Surrounding Landuse		Type of Watercourse	
Residential ☐	Meadow ☐	Intermittent ☐	Channelized ☐
Agriculture ☒	Wetland ☐	Permanent ☒	Natural Channel ☒
Forest ☐	Livestock ☐	Ephemeral ☐	
Other ☐			
Description: Corn in agri field		Description: large wide channel	
Notes: (include any inputs into the system i.e. tile drainage, seepages, overland flow)			
several channels flow into channel on LB			
Is any portion of the water body underground or not as mapped? Y ☒ N ☐			
If Yes describe:			
GPS Coordinate: Easting - Northing - Description -			
Description of Land Topography Surrounding Water Body (rolling hills, sloping towards water body)			
fairly flat gradually slopes towards channel			
In-Situ Water Quality		Ground Water and Seepage Indicators	
WT (°C): 21.95	AT (°C): 27°C	Watercress ☐	Bank Seepage ☐
pH: 8.36	Cond (µs/cm): 476	Iron Staining ☐	None ☒
D.O. (mg/L): 8.58		Bubbling ☐	
Water Clarity: Clear ☐	Turbid ☒	Other ☐	
Water Colour: brown		Details: none observed	
Notes: WQ taken along LB pockets of floating algae			

Water Bodies Assessment Field Collection Form

Stream Morphology																				
Site Length (m): <u>~50m</u>			Bank Stability:																	
Channel Dimensions			<table border="1" style="width: 100%; text-align: center;"> <tr> <td></td> <td>Stable</td> <td>Slightly unstable</td> <td>Moderately unstable</td> <td>Unstable</td> </tr> <tr> <td>Left Bank</td> <td>☒</td> <td>☐</td> <td>☐</td> <td>☐</td> </tr> <tr> <td>Right Bank</td> <td>☒</td> <td>☐</td> <td>☐</td> <td>☐</td> </tr> </table>				Stable	Slightly unstable	Moderately unstable	Unstable	Left Bank	☒	☐	☐	☐	Right Bank	☒	☐	☐	☐
	Stable	Slightly unstable	Moderately unstable	Unstable																
Left Bank	☒	☐	☐	☐																
Right Bank	☒	☐	☐	☐																
Mean Wetted Width (m): <u>19</u>	Mean Wetted Depth (m): <u>~0.40</u>	Description: <u>well vegetated</u>																		
Mean Bankfull Width (m): <u>25</u>	Mean Bankfull Depth (m): <u>1.3</u>																			
Mean Top of Bank Width (m): <u>33</u>	Mean Top of Bank Depth (m): <u>2.5</u>																			
Flow Description: (high or low flow conditions, stagnant, etc.) <u>low flow conditions water is barely moving - at 1m from bank - depth is 0.30m - very turbid</u>																				
Habitat																				
Substrate (< = >)		Morphological Structure (%)																		
Bo - Boulder Co - Cobble Gr - Gravel Sa - Sand Si - Silt Cl - Clay MK - Muck DT - Detritus		<table border="1" style="width: 100%; text-align: center;"> <tr> <td>Pool</td> <td>Riffle</td> <td>Run</td> <td>Flat</td> </tr> <tr> <td></td> <td></td> <td></td> <td><u>100</u></td> </tr> </table>				Pool	Riffle	Run	Flat				<u>100</u>							
		Pool	Riffle	Run	Flat															
			<u>100</u>																	
Description: <u>Si</u>		Notes: <u>very low flow</u>																		
Instream Cover (%)																				
Other	Woody Debris	Boulders	Cobble	Aquatic Vegetation*	None	Undercut Banks														
	<u>10</u>			<u>10</u>		Average Depth: (% Cover)														
Note: Low = 0 - 30%; Moderate = 30 - 75%; High = 75 - 100%																				
*Aquatic Vegetation Species Present (algae, submergent, emergent etc.) <u>algae > milfoil > duckweed</u>																				
Canopy Cover (% closed cover):				Types of Cover (% cover)																
100-90%	☐	30-1%	☒	Trees	<u>10</u>	Shrubs														
90-60%	☐	0%	☐	Grasses	<u>15</u>	Man-made structures														
60-30%	☐			Herbaceous		Other														
Note: Low = 0 - 30%; Moderate = 30 - 60%; High = 60 - 100%																				
Notes: (vegetation species, types of structures) <u>willow trees & shrubs</u>																				
Riparian Vegetation																				
Width and Description of riparian vegetation: <u>LB - 6m willow trees shrubs, herbaceous, grass</u>		RB - <u>6m Same</u>																		
Overhanging Vegetation Present ☒ N		% Overhanging Vegetation: <u>5%</u>																		
Description of Overhanging Vegetation: <u>willow shrubs</u>																				
Obstructions to Fish Passage																				
None Observed	☒	Man-Made	☐	Natural	☐	Low Flow Barrier														
Description of Barrier:																				
Height of Barrier (m)																				
GPS Coordinates:																				

Water Bodies Assessment Field Collection Form

AECOM

Date: July 12/12

Land Parcel/Site ID:

65H1068
D48

Page 3 of 4

Other General Comments Regarding the Study Area:

- wide slow moving channel barely moving, very turbid
- green frogs heard
- very uniform system.

Additional UTM Coordinates:

Photo log			
Picture #	Description	Picture #	Description
4	facing west		
5	facing u/s		
6	" "		
7	facing d/s		
8	facing u/s		
9	facing d/s		

Water Bodies Assessment Field Collection Form

AECOM

Page 4 of 4

Watercourse Sketch

Study Area:

Jericho

Goshen

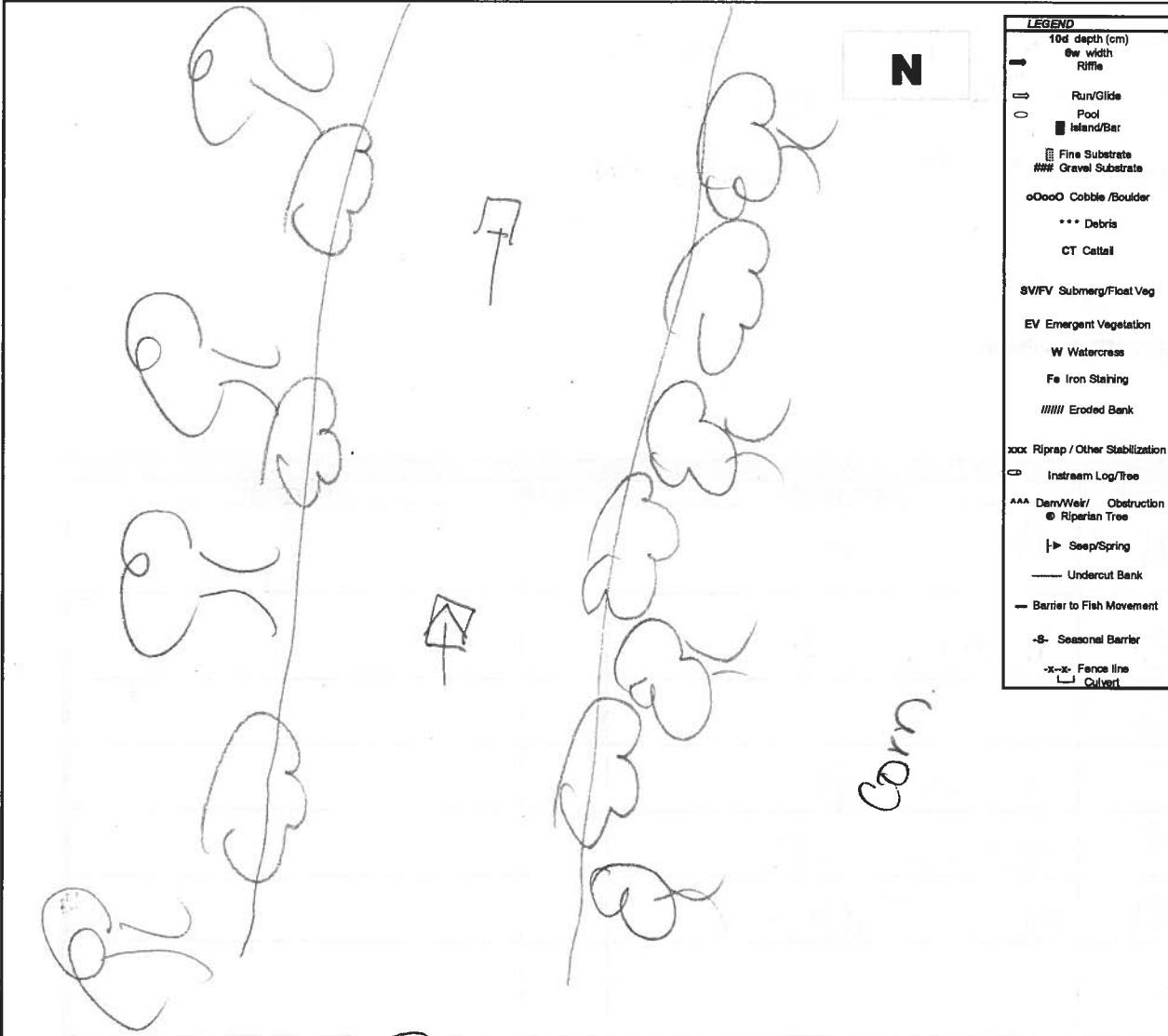
Bluewater

Land Parcel#

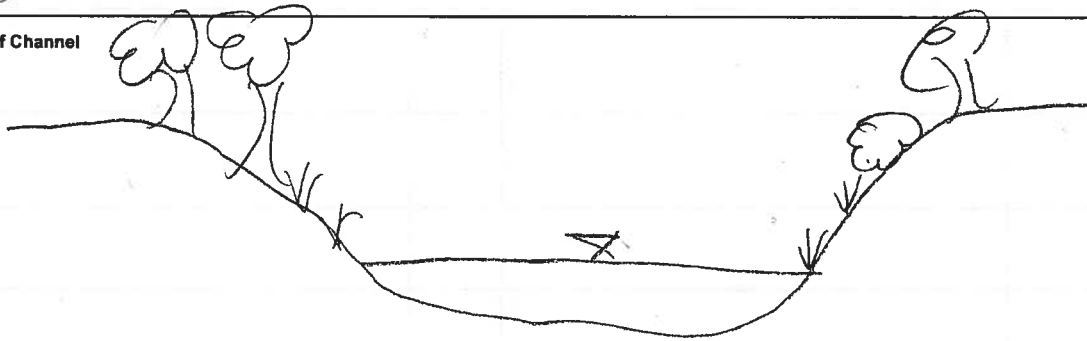
0608

Site ID

D48



Horizontal View of Channel



Initial QA/QC By:

L. Bentley

Date:

Aug. 2, 2012

Technical QA/QC By:

Almer

Date:

2nd August 2012

Water Bodies Assessment Field Collection Form

AECOM		Page 1 of 4	
General Information			
Study Area: Jericho	Goshen	Bluewater	Land Parcel# GPH1659
Date: June 11/12		Start time: 12:20	End Time: 13:50
Weather Conditions: Cloudy, 25°C		Field Crew: C. Boros, J. Epp	
		Field Notes By: C. Boros	
Site Location			
Shipka Cr, South of Kirkton			
UTM Co-ordinates (continue on page 3 if necessary)			
Easting: 444277	Northing: 4793877	Description: D1000 start + wq	
Easting: 444222	Northing: 4793766	Description: D1000 end 2 → 10m south of D1000 end	
Easting: 444322	Northing: 4793813	Description: D1000 wq 2	
Easting: 444350	Northing: 4793864	Description: D1000 snake	
Surrounding Landuse		Type of Watercourse	
Residential ☐	Meadow ☐	Intermittent ☒	Channelized ☐
Agriculture ☐	Wetland ☐	Permanent ☐	Natural Channel ☐
Forest ☒	Livestock ☐	Ephemeral ☐	
Other ☐			
Description: deciduous deciduous forest		Description: → stagnant pools between dry stretches starting 30m from Tile drain	
Notes: (include any inputs into the system i.e. tile drainage, seepages, overland flow)			
Tile drain - flowing - at beginning			
Is any portion of the water body underground or not as mapped? ☒ N			
If Yes describe: New watercourse			
Tile drain feeding into forest forest creating an intermittent watercourse			
GPS Coordinate: Easting - 444277		Northing - 4793877	
Description -			
Description of Land Topography Surrounding Water Body (rolling hills, sloping towards water body)			
flat			
In-Situ Water Quality		Ground Water and Seepage Indicators	
D1001-2 / D1000			
WT (°C): 21.1 / 14.9	AT (°C): 26°C	Watercress ☐	Bank Seepage ☐
pH: 7.75 / 8.94	Cond (µs/cm): 628 / 906	Iron Staining ☐	None ☒
D.O. (mg/L): 7.25 / 6.21		Bubbling ☐	☐
Water Clarity: Clear ☐	Turbid ☒	Other ☐	
Water Colour: brown		Details:	
Notes:			

Water Bodies Assessment Field Collection Form

Stream Morphology																				
Site Length (m): 120m				Bank Stability:																
Channel Dimensions				<table border="1" style="width:100%; text-align: center;"> <tr> <td></td> <td>Stable</td> <td>Slightly unstable</td> <td>Moderately unstable</td> <td>Unstable</td> </tr> <tr> <td>Left Bank</td> <td>☒</td> <td>☐</td> <td>☐</td> <td>☐</td> </tr> <tr> <td>Right Bank</td> <td>☒</td> <td>☐</td> <td>☐</td> <td>☐</td> </tr> </table>			Stable	Slightly unstable	Moderately unstable	Unstable	Left Bank	☒	☐	☐	☐	Right Bank	☒	☐	☐	☐
	Stable	Slightly unstable	Moderately unstable	Unstable																
Left Bank	☒	☐	☐	☐																
Right Bank	☒	☐	☐	☐																
Mean Wetted Width (m): 0.4	Mean Wetted Depth (m): 0.25	Description: no erosion																		
Mean Bankfull Width (m): 3	Mean Bankfull Depth (m): 0.10																			
Mean Top of Bank Width (m): 3	Mean Top of Bank Depth (m): 0.10																			
Flow Description: (high or low flow conditions, stagnant, etc)																				
no flow for most of site → only slow flow (trickle) out of drainage pipe at start																				
Habitat																				
Substrate (< = >)		Morphological Structure (%)																		
Bo - Boulder Co - Cobble Gr - Gravel Sa - Sand Si - Silt Cl - Clay MK - Muck DT - Detritus	Description SA = Cl = Si	<table border="1" style="width:100%; text-align: center;"> <tr> <td>Pool</td> <td>Riffle</td> <td>Run</td> <td>Flat</td> </tr> <tr> <td></td> <td></td> <td></td> <td>100</td> </tr> </table>	Pool	Riffle	Run	Flat				100	Notes: stagnant water									
Pool	Riffle	Run	Flat																	
			100																	
Instream Cover (%)																				
Other	Woody Debris	Boulders	Cobble	Aquatic Vegetation*	None	Undercut Banks														
/	20	/	/	/	/	Average Depth: (% Cover) /														
Note: Low = 0 - 30%; Moderate = 30 - 75%; High = 75 - 100%																				
*Aquatic Vegetation Species Present (algae, submergent, emergent etc.)																				
Canopy Cover (% closed cover):				Types of Cover (% cover)																
100-90%	☒	30-1%	☐	Trees	90	Shrubs														
90-60%	☐	0%	☐	Grasses		Herbaceous														
60-30%	☐					Man-made structures														
				Other																
Note: Low = 0 - 30%; Moderate = 30 - 60%; High = 60 - 100%																				
Notes: (vegetation species, types of structures)																				
Ash, Hawthorn, sumac, basswood																				
Riparian Vegetation																				
Width and Description of riparian vegetation:	LB - >15m - forest			RB - >15m - forest																
Overhanging Vegetation Present Y/N				% Overhanging Vegetation:																
Description of Overhanging Vegetation:																				
Obstructions to Fish Passage																				
None Observed	☐	Man-Made	☐	Natural	☐	Low Flow Barrier														
Description of Barrier: patches of dry channel throughout																				
Height of Barrier (m)				GPS Coordinates:																

Water Bodies Assessment Field Collection Form

AECOM

Date: June 11/12

Land Parcel/Site ID: GSH 1659

Feat 258
Page 3 of 4

DSI

Other General Comments Regarding the Study Area:

The watercourse is a result of tile drain input. Poorly defined channel - stretches of dry channel in stagnant pools.

Chimney crayfish houses noted throughout → ideal habitat due to fleshy system → large floodplain area.

Additional UTM Coordinates:

Photo log			
Picture #	Description	Picture #	Description
1a	sheet		
1b	review		
2-3	tile drain input → start of watercourse		
4	chimney crayfish stock		
5-18	channel review		
19-30	map Main watercourse		
31-32	Snake location		

Water Bodies Assessment Field Collection Form

AECOM

Page 4 of 4

Watercourse Sketch

Study Area:

Jericho

Goshen

Bluewater

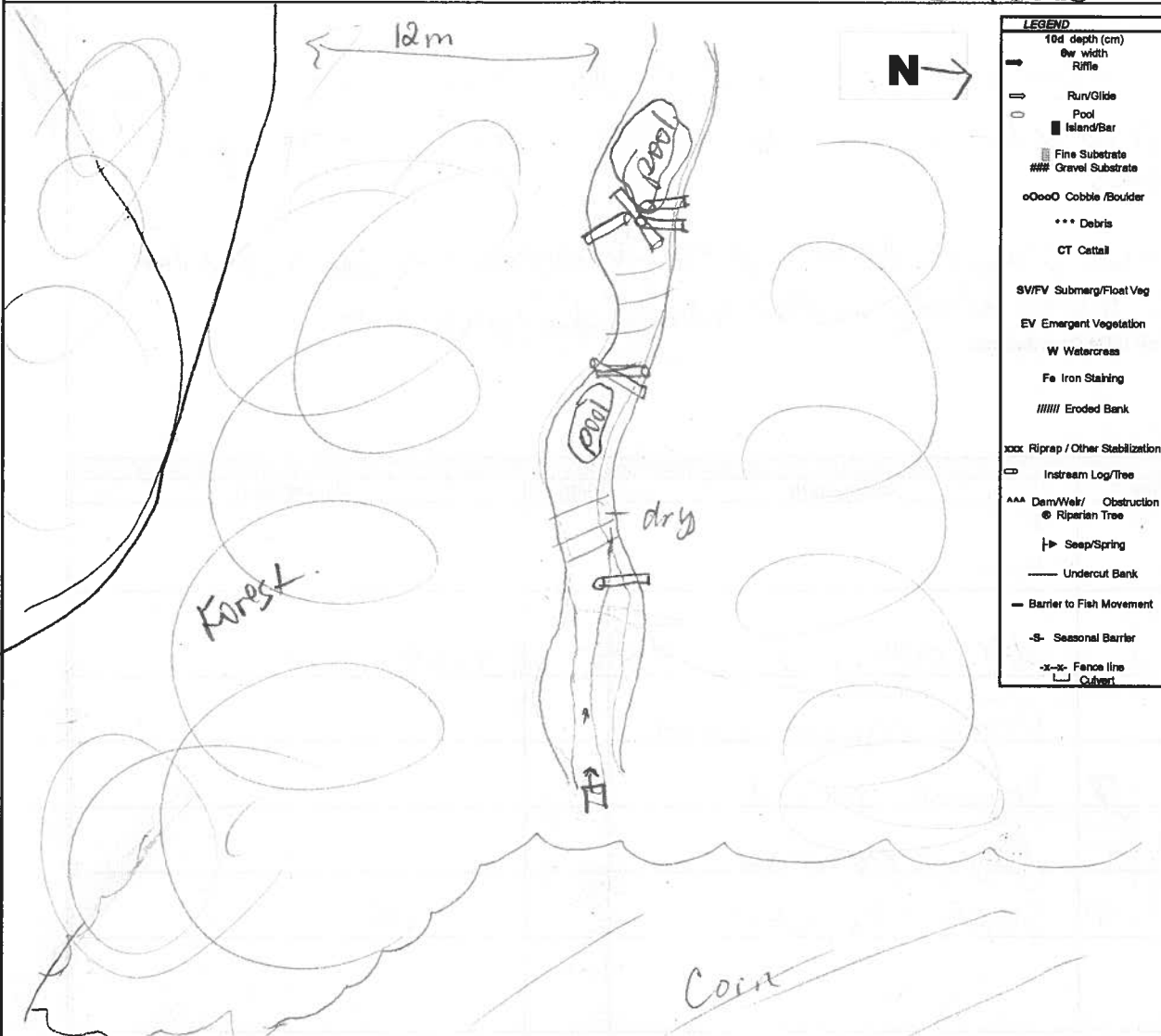
Land Parcel# GS#1659

Site ID

D1000

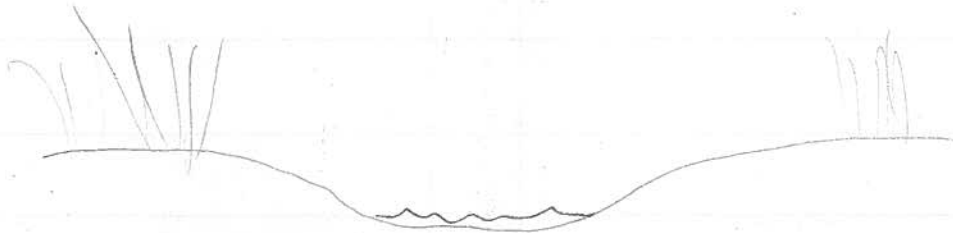
D51

Feature 258



LEGEND	
10d depth (cm)	10d width
Run/Glide	Pool
Island/Bar	Fine Substrate
Gravel Substrate	Cobble/Boulder
Debris	CT Cattail
SV/FV Submerg/Floet Veg	EV Emergent Vegetation
W Watercress	Fe Iron Staining
Eroded Bank	Riprap / Other Stabilization
Instream Log/Tree	Dam/Weir/ Obstruction
Riparian Tree	Seep/Spring
Undercut Bank	Barrier to Fish Movement
Seasonal Barrier	Fence line
Culvert	

Horizontal View of Channel



Initial QA/QC By: L. Bentley

Date: June 26, 2012

Technical QA/QC By: J. Kew

Date: July 10/12

Water Bodies Assessment Field Collection Form

AECOM		Page 1 of 4	
General Information			
Study Area: Jericho	Goshen	Bluewater	Land Parcel# 6542289
Date: June 11/12		Start time: 14:10	End Time: 15:30
Weather Conditions: Cloudy, 30°C		Field Crew: C. Boros, J. Epp	
		Field Notes By: J. Epp	
Site Location			
Babylon Rd. , north of Kirkton			
UTM Co-ordinates (continue on page 3 if necessary)			
Easting: 454184	Northing: 4796691	Description: 02800 start	
Easting: 454213	Northing: 4796883	Description:	
Easting:	Northing:	Description:	
Easting:	Northing:	Description:	
Surrounding Landuse		Type of Watercourse	
Residential ☐	Meadow ☐	Intermittent ☐	Channelized ☐
Agriculture ☐	Wetland ☐	Permanent ☐	Natural Channel ☒
Forest ☒	Livestock ☐	Ephemeral ☒	
Other ☐			
Description: deciduous forest		Description: natural drainage	
Notes: (include any inputs into the system i.e. tile drainage, seepages, overland flow)			
None observed			
Is any portion of the water body underground or not as mapped? (N) N			
If Yes describe: Not mapped			
GPS Coordinate: Easting -		Northing -	
		Description -	
Description of Land Topography Surrounding Water Body (rolling hills, sloping towards water body)			
flat surrounding forest, in forest slight slope south			
In-Situ Water Quality		Ground Water and Seepage Indicators	
WT (°C):	AT (°C):	Watercress ☐	Bank Seepage ☐
pH:	Cond (s/cm):	Iron Staining ☐	None ☒
D.O. (mg/L)		Bubbling ☐	
Water Clarity: Clear ☐ Turbid ☐		Other ☐	
Water Colour:		Details:	
Notes: no water			

Water Bodies Assessment Field Collection Form

Stream Morphology																				
Site Length (m): <u>150m</u>			Bank Stability:																	
Channel Dimensions			<table border="1" style="width: 100%; text-align: center;"> <tr> <td></td> <td>Stable</td> <td>Slightly unstable</td> <td>Moderately unstable</td> <td>Unstable</td> </tr> <tr> <td>Left Bank</td> <td>☒</td> <td>☐</td> <td>☐</td> <td>☐</td> </tr> <tr> <td>Right Bank</td> <td>☒</td> <td>☐</td> <td>☐</td> <td>☐</td> </tr> </table>				Stable	Slightly unstable	Moderately unstable	Unstable	Left Bank	☒	☐	☐	☐	Right Bank	☒	☐	☐	☐
	Stable	Slightly unstable	Moderately unstable	Unstable																
Left Bank	☒	☐	☐	☐																
Right Bank	☒	☐	☐	☐																
Mean Wetted Width (m): <u>/</u>	Mean Wetted Depth (m): <u>/</u>	Description: <u>no erosion</u>																		
Mean Bankfull Width (m): <u>1.2</u>	Mean Bankfull Depth (m): <u>0.15</u>																			
Mean Top of Bank Width (m): <u>/</u>	Mean Top of Bank Depth (m): <u>/</u>																			
Flow Description: (high or low flow conditions, stagnant, etc)																				
<u>no flow - dry</u>																				
Habitat																				
Substrate (<=>)		Morphological Structure (%)																		
Description Bo - Boulder Co - Cobble Gr - Gravel Sa - Sand Si - Silt Cl - Clay MK - Muck DT - Detritus		<table border="1" style="width: 100%; text-align: center;"> <tr> <td>Pool</td> <td>Riffle</td> <td>Run</td> <td>Flat</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>				Pool	Riffle	Run	Flat											
		Pool	Riffle	Run	Flat															
<u>Si = Sa = Cl</u>		Notes: <u>/</u>																		
Instream Cover (%)																				
Other	Woody Debris	Boulders	Cobble	Aquatic Vegetation*	None	Undercut Banks														
						Average Depth: (% Cover)														
Note: Low = 0 - 30%; Moderate = 30 - 75%; High = 75 - 100%																				
*Aquatic Vegetation Species Present (algae, submergent, emergent etc.)																				
Canopy Cover (% closed cover):				Types of Cover (% cover)																
100-90%	☒	30-1%	☐	Trees	<u>90</u>	Man-made structures														
90-60%	☐	0%	☐	Grasses	<u>10</u>	Herbaceous														
60-30%	☐					Other														
Note: Low = 0 - 30%; Moderate = 30 - 60%; High = 60 - 100%																				
Notes: (vegetation species, types of structures)																				
<u>basewood, hawthorn, ash</u>																				
Riparian Vegetation																				
Width and Description of riparian vegetation: LB - <u>~15m</u>			RB - <u>>15m</u>																	
Overhanging Vegetation Present Y ☒ N			% Overhanging Vegetation:																	
Description of Overhanging Vegetation:																				
Obstructions to Fish Passage																				
None Observed	☐	Man-Made	☐	Natural	☐	Low Flow Barrier ☒														
Description of Barrier: <u>channel dry</u>																				
Height of Barrier (m)			GPS Coordinates:																	

Water Bodies Assessment Field Collection Form

AECOM

Page 4 of 4

Watercourse Sketch

Study Area:

Jericho

Goshen

Bluewater

Land Parcel#

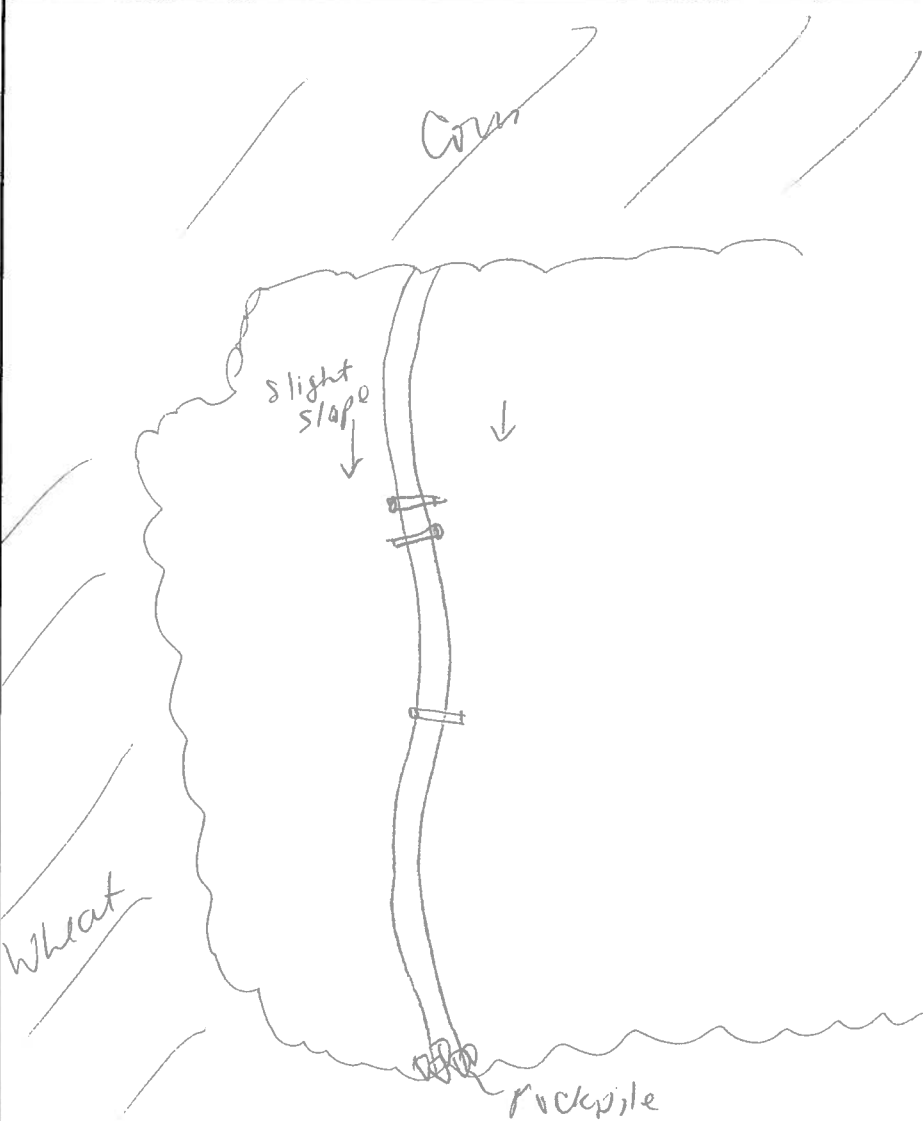
GSH 2389

Site ID

02000

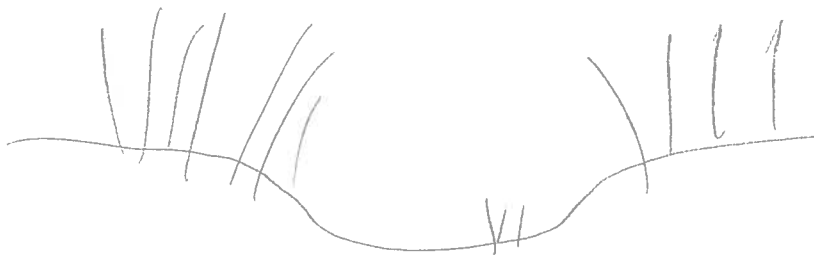
052

Feature 290



LEGEND	
10d depth (cm)	
6w width	
Riffle	→
Run/Glide	⇨
Pool	○
Island/Bar	■
Fine Substrate	□
Gravel Substrate	##
Cobble/Boulder	oOoO
Debris	***
Cattail	CT
Submerg/Float Veg	SV/FV
Emergent Vegetation	EV
Watercress	W
Iron Staining	Fe
Eroded Bank	
Riprap / Other Stabilization	xxx
Instream Log/Tree	⊃
Dam/Weir / Obstruction	AAA
Riparian Tree	⊙
Seep/Spring	↳
Undercut Bank	—
Barrier to Fish Movement	—
Seasonal Barrier	-S-
Fence line	-x-x-
Culvert	⌊

Horizontal View of Channel



Initial QA/QC By: L. Bentley

Date: June 26, 2012

Technical QA/QC By: [Signature]

Date: July 9/12

Water Bodies Assessment Field Collection Form

AECOM		Page 1 of 4	
General Information			
Study Area: Jericho	Goshen	Bluewater	Land Parcel# 6542133
Date: June 13/12		Start time: 7:50	Site ID: <u>D53</u> <u>03000</u> feature 273
End Time: 8:20			
Weather Conditions: Sunny 8°C		Field Crew: C. Boros, J. Epp	
		Field Notes By: C. Boros	
Site Location			
Kirkton Rd. east of Goshen Ln.			
UTM Co-ordinates (continue on page 3 if necessary)			
Easting: 452147	Northing: 4795713	Description: 03000 start	
Easting: 452160	Northing: 4795669	Description: 03000 end	
Easting:	Northing:	Description:	
Easting:	Northing:	Description:	
Surrounding Landuse Residential ☐ Meadow ☐ Agriculture ☐ Wetland ☐ Forest ☒ Livestock ☐ Other ☐		Type of Watercourse Intermittent ☐ Channelized ☐ Permanent ☐ Natural Channel ☒ Ephemeral ☒	
Description: deciduous forest (#273)		Description: dry at time of investigation	
Notes: (include any inputs into the system i.e. tile drainage, seepages, overland flow)			
Tile drain observed at northern end			
Is any portion of the water body underground or not as mapped? <u>Y</u> / <u>N</u>			
If Yes describe: Ephemeral stream not mapped			
GPS Coordinate: Easting -		Northing -	Description: See above GPS
Description of Land Topography Surrounding Water Body (rolling hills, sloping towards water body)			
flat			
In-Situ Water Quality		Ground Water and Seepage Indicators	
WT (°C):	AT (°C):	Watercress ☐ Bank Seepage ☐ Iron Staining ☐ None ☒ Bubbling ☐ Other ☐	
pH:	Cond (s/cm):		
D.O. (mg/L)			
Water Clarity: Clear ☐ Turbid ☐			
Water Colour:		Details:	
Notes: no water			

Water Bodies Assessment Field Collection Form

Stream Morphology																				
Site Length (m): <u>30m</u>			Bank Stability:																	
Channel Dimensions			<table border="1" style="width: 100%; text-align: center;"> <tr> <td></td> <td>Stable</td> <td>Slightly unstable</td> <td>Moderately unstable</td> <td>Unstable</td> </tr> <tr> <td>Left Bank</td> <td>☒</td> <td>☐</td> <td>☐</td> <td>☐</td> </tr> <tr> <td>Right Bank</td> <td>☒</td> <td>☐</td> <td>☐</td> <td>☐</td> </tr> </table>				Stable	Slightly unstable	Moderately unstable	Unstable	Left Bank	☒	☐	☐	☐	Right Bank	☒	☐	☐	☐
	Stable	Slightly unstable	Moderately unstable	Unstable																
Left Bank	☒	☐	☐	☐																
Right Bank	☒	☐	☐	☐																
Mean Wetted Width (m): <u>/</u>	Mean Wetted Depth (m): <u>/</u>	Description:																		
Mean Bankfull Width (m): <u>/</u>	Mean Bankfull Depth (m): <u>/</u>																			
Mean Top of Bank Width (m): <u>/</u>	Mean Top of Bank Depth (m): <u>/</u>																			
Flow Description: (high or low flow conditions, stagnant, etc)																				
<u>no flow</u>																				
Habitat																				
Substrate (<=>)		Description		Morphological Structure (%)																
Bo - Boulder Co - Cobble Gr - Gravel Sa - Sand Si - Silt Cl - Clay MK - Muck DT - Detritus		<u>Si = Sa = cl = organics</u>		<table border="1" style="width: 100%; text-align: center;"> <tr> <td colspan="4">Morphological Structure (%)</td> </tr> <tr> <td>Pool</td> <td>Riffle</td> <td>Run</td> <td>Flat</td> </tr> <tr> <td><u>/</u></td> <td><u>/</u></td> <td><u>/</u></td> <td><u>/</u></td> </tr> </table>		Morphological Structure (%)				Pool	Riffle	Run	Flat	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>			
Morphological Structure (%)																				
Pool	Riffle	Run	Flat																	
<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>																	
		Notes:																		
Instream Cover (%)																				
Other	Woody Debris	Boulders	Cobble	Aquatic Vegetation*	None															
					Undercut Banks															
					Average Depth: (% Cover)															
Note: Low = 0 - 30%; Moderate = 30 - 75%; High = 75 - 100%																				
*Aquatic Vegetation Species Present (algae, submergent, emergent etc.)																				
Canopy Cover (% closed cover):			Types of Cover (% cover)																	
100-90%	☒	30-1%	☐	Trees <u>90</u>	Shrubs <u>10</u>															
90-60%	☐	0%	☐	Grasses	Herbaceous															
60-30%	☐				Man-made structures															
Other																				
Note: Low = 0 - 30%; Moderate = 30 - 60%; High = 60 - 100%																				
Notes: (vegetation species, types of structures)																				
<u>deciduous trees</u>																				
Riparian Vegetation																				
Width and Description of riparian vegetation:			LB - <u>~20m - forest</u>																	
			RB - <u>~5m - forest</u>																	
Overhanging Vegetation Present <u>Y</u>			% Overhanging Vegetation:																	
Description of Overhanging Vegetation:																				
Obstructions to Fish Passage																				
None Observed	☐	Man-Made	☐	Natural	☐															
				Low Flow Barrier	☒															
Description of Barrier:																				
Height of Barrier (m)			GPS Coordinates:																	

Water Bodies Assessment Field Collection Form

D53

AECOM

Date: June 13/12

Land Parcel/Site ID: GSH 2133
Feature 273

Page 3 of 4

Other General Comments Regarding the Study Area:

Ephemeral watercourse appears to start at tile drain at North end. No water at time of investigation. There was a defined channel bed for ~30m then ends → could not follow channel to south end.

Additional UTM Coordinates:

Photo log			
Picture #	Description	Picture #	Description
1a 156	sheet Channel overview		
7-9	port channel		