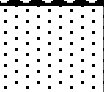
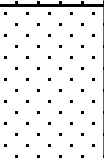
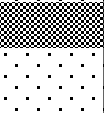


TEST PIT INVESTIGATION LOG

Project :	Waimakariri Irrigation Ltd Storage ponds	ENVIRONMENT CANTEBURY	
Location :	Eyrewell, Domain, Wrights and Coffeys Road	APPROVED	
		SUBJECT TO CONDITIONS	
Ground RL :	m	TO BE KEPT ON SITE	Date : 3/10/2011
		21 DECEMBER 2021	Logged by : GR
			Plant : Kom. PC200

Depth (m)	Water Inflow	Log	TEST PIT 1	Description
0.1			Grass-Topsoil: Black, fine sandy SILT	
0.2				
0.3			Light yellow-brown, very silty sandy, fine to coarse GRAVEL, slightly damp, easy to excavate, Maximum size 150mmØ. Horizontal bedding.	
0.4				
0.5				
0.6			Light grey, sandy, fine to coarse GRAVEL, trace of silt, slightly damp, some oxide staining, easy to excavate. Maximum size 150mmØ. Horizontal bedding.	
0.7				
0.8				
0.9				
1.0				
1.1			- below 1.0m becoming interbedded with lenses/layers of clean gravel with no sand or silt in voids. Lense thickness from 50-250mm thick. Lenses particle size ranges from fine to coarse gravel with thicker lenses grading fine to coarse.	
1.2				
1.3				
1.4				
1.5				
1.6				
1.7				
1.8				
1.9				
2.0				
2.1				
2.2			-below 2.2m clean gravel lense voids are partially filled with yellow, fine sandy SILT, damp-wet, low-med plasticity. Resulting mixed, excavated material comes out as silty, sandy gravel.	
2.3				
2.4				
2.5				
2.6				
2.7				
2.8				
2.9				
3.0				
3.1				
3.2				
3.3				
3.4				
3.5			-maximum size 150mmØ, material is moist/damp	
3.6				
3.7				
3.8				
3.9				
4.0				
4.1				
4.2				
4.3				
4.4				
4.5				
4.6				
4.7				
4.8				
4.9				
5.0				
5.1				
5.2				
5.3				
5.4				
5.5				

End of Pit at 4.10m. All gravel is river-run.
No groundwater encountered. No sample.

Depth	Max. particle size
0 - 0.5	75mm
0.5 - 1.2	150mm
1.2 - 4.10	150, occasional 200mm



TEST PIT INVESTIGATION LOG

Project :	Waimakariri Irrigation Ltd Storage ponds	ENVIRONMENT CANTERBURY	
Location :	Eyrewell, Domain, Wrights and Coffeys Road	APPROVED	
		SUBJECT TO CONDITIONS	
Ground RL :	m	TO BE KEPT ON SITE	Date : 4/10/2011
		21 DECEMBER 2021	Logged by : GR
			Plant : Kom. PC200

Depth (m)	Water Inflow	Log	TEST PIT 2	Description
0.1			Grass-Topsoil: Black, fine sandy SILT	
0.2				
0.3				
0.4				
0.5				
0.6				
0.7				
0.8				
0.9				
1.0				Dark brown-yellow, very silty sandy, fine to very coarse GRAVEL, slightly damp, easy to excavate, Maximum size 100mmØ. Horizontal bedding.
1.1				
1.2				
1.3				
1.4				
1.5				
1.6				
1.7				
1.8				
1.9				
2.0				Grey/brown, sandy, fine to coarse GRAVEL, trace of silt, slightly damp, some oxide staining, easy to excavate. Maximum size 150mmØ.
2.1				
2.2				
2.3				
2.4				
2.5				
2.6				
2.7				
2.8				
2.9				
3.0				
3.1				
3.2				
3.3				
3.4				
3.5				
3.6				
3.7				
3.8				
3.9				
4.0				
4.1				
4.2				
4.3				
4.4				
4.5				
4.6				
4.7				
4.8				
4.9				
5.0				
5.1				
5.2				
5.3				
5.4				
5.5				

Depth	Max. particle size
0 - 0.5	100
0.5 - 1.6	150
1.6 - 5.00	150, occasional 200mm

End of Pit at 5.00m.	All gravel is river-run.
No groundwater encountered.	Sample taken.
Small irrigation race running parallel; to pit, 5m to North and large race 12m to north, no sign of seepage.	



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TEST PIT INVESTIGATION LOG

Project :	Waimakariri Irrigation Ltd Storage ponds	ENVIRONMENT CANTERBURY	
Location :	Eyrewell, Domain, Wrights and Coffeys Road	APPROVED	
		SUBJECT TO CONDITIONS	
Ground RL :	m	TO BE KEPT ON SITE	Date : 4/10/2011
		21 DECEMBER 2021	Logged by : GR
			Plant : Kom. PC200

Depth (m)	Water Inflow	Log	TEST PIT 3 Description
0.1			Grass-Topsoil: Black, fine sandy SILT
0.2			
0.3			
0.4			
0.5			light brown-yellow, very silty sandy, fine to medium GRAVEL, slightly damp, easy to excavate, Maximum size 100mmØ. Horizontal bedding.
0.6			
0.7			
0.8			
0.9			
1.0			
1.1			
1.2			
1.3			
1.4			
1.5			
1.6			- below 1.5m becoming light grey and interbedded with lenses/layers of clean gravel with no sand or silt in voids. Lense thickness from 50-250mm thick. Lenses particle size ranges from fine to coarse gravel with thicker lenses grading fine to coarse.
1.7			
1.8			
1.9			
2.0			
2.1			
2.2			
2.3			
2.4			
2.5			
2.6			
2.7			- layer of 150-200mm cobbles at 2.6-2.7m
2.8			-below 2.8m clean gravel lense voids are partially filled with yellow, fine sandy SILT, increasing with depth, damp-wet, low-med plasticity. Resulting mixed, excavated material comes out as silty, sandy gravel.
2.9			
3.0			
3.1			
3.2			
3.3			
3.4			
3.5			
3.6			
3.7			
3.8			
3.9			
4.0			End of Pit at 3.80m. All gravel is river-run. No groundwater encountered. No sample.
4.1			
4.2			
4.3			
4.4			
4.5			
4.6			
4.7			
4.8			
4.9			
5.0			
5.1			
5.2			
5.3			
5.4			
5.5			

Depth	Max. particle size
0 - 0.6	75
0.6 - 1.5	125
1.5 - 3.80	150, occasional 200mm



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TEST PIT INVESTIGATION LOG

Project :	Waimakariri Irrigation Ltd Storage ponds	ENVIRONMENT CANTERBURY	
Location :	Eyrewell, Domain, Wrights and Coffeys Road	APPROVED	
		SUBJECT TO CONDITIONS	
Ground RL :	m	TO BE KEPT ON SITE	Date : 4/10/2011
		21 DECEMBER 2021	Logged by : GR
			Plant : Kom. PC200

Depth (m)	Water Inflow	Log	TEST PIT 4	Description
0.1			Grass-Topsoil: Black, fine sandy SILT	
0.2				
0.3				
0.4				
0.5				Light brown-yellow, very silty sandy, fine to medium GRAVEL, slightly damp, easy to excavate, Maximum size 75mmØ. Horizontal bedding.
0.6				becoming slightly silty, sandy and maximum size 100mmØ.
0.7				
0.8				
0.9				
1.0				Light grey, sandy, fine to coarse GRAVEL, trace of silt, slightly damp, some oxide staining, easy to excavate. Maximum size 150mmØ. Horizontal bedding.
1.1				
1.2				
1.3				
1.4				
1.5				
1.6				
1.7				
1.8				- below 1.7m becoming interbedded with lenses/layers of clean gravel with no sand or silt in voids. Lense thickness from 50-250mm thick. Lenses particle size ranges from fine to coarse gravel with thicker lenses grading fine to coarse.
1.9				
2.0				
2.1				
2.2				
2.3				
2.4				
2.5				
2.6				-below 2.53m clean gravel lense voids are partially filled with yellow, fine sandy SILT, damp wet, low-med plasticity. Resulting mixed, excavated material comes out as silty, sandy gravel.
2.7				
2.8				
2.9				
3.0				- maximum size 150mmØ with occasional floaters to 200mmØ, material is easy to excavate and pit sides falling in below this depth
3.1				
3.2				
3.3				
3.4				
3.5				
3.6				
3.7				
3.8				
3.9				
4.0				
4.1				
4.2				
4.3				
4.4				
4.5				
4.6				
4.7				
4.8				
4.9				
5.0				
5.1				
5.2				
5.3				
5.4				
5.5				

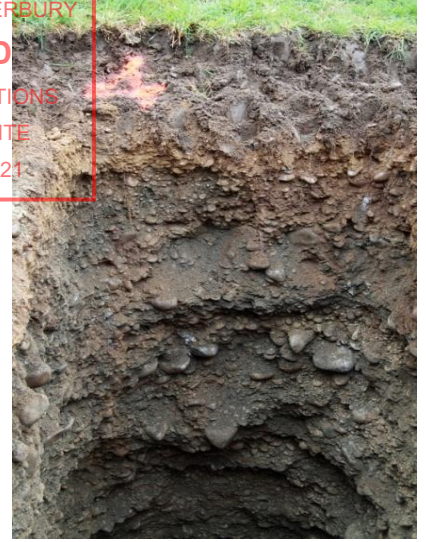
Depth	Max. particle size
0 - 0.85	75-100mm
0.85 - 1.7	150mm
1.7 - 5.10	150, occasional 200mm

End of Pit at 5.10m.
No groundwater encountered.

All gravel is river-run.
Sample of silt taken.



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TEST PIT INVESTIGATION LOG

Project :	Waimakariri Irrigation Ltd Storage ponds	ENVIRONMENT CANTEBURY	
Location :	Eyrewell, Domain, Wrights and Coffeys Road	APPROVED	
		SUBJECT TO CONDITIONS	
Ground RL :	m	TO BE KEPT ON SITE	Date : 4/10/2011
		21 DECEMBER 2021	Logged by : GR
			Plant : Kom. PC200

Depth (m)	Water Inflow	Log	TEST PIT 5	Description
0.1			Grass-Topsoil: Black, fine sandy SILT	
0.2				
0.3				
0.4				
0.5			Light brown-yellow, very silty sandy, fine to coarse GRAVEL, slightly damp, easy to excavate, Maximum size 75mmØ. Horizontal bedding.	
0.6				
0.7				
0.8				
0.9				
1.0			Light grey/brown, sandy, fine to coarse GRAVEL, trace of silt, slightly damp, some oxide staining, easy to excavate. Maximum size 125mmØ. Horizontal bedding.	
1.1				
1.2				
1.3				
1.4				
1.5				
1.6			- below 1.55m becoming interbedded with lenses/layers of clean gravel with no sand or silt in voids. Lense thickness from 50-250mm thick. Lenses particle size ranges from fine to coarse gravel with thicker lenses grading fine to coarse.	
1.7				
1.8				
1.9				
2.0			-below 2.0m clean gravel lense voids are partially filled with yellow, fine sandy SILT, damp-wet, low-med plasticity. Resulting mixed, excavated material comes out as silty, sandy gravel.	
2.1				
2.2				
2.3				
2.4				
2.5				
2.6				
2.7				
2.8				
2.9				
3.0				
3.1				
3.2				
3.3				
3.4				
3.5				
3.6				
3.7				
3.8				
3.9				
4.0				
4.1				
4.2				
4.3				
4.4				
4.5				
4.6				
4.7				
4.8				
4.9				
5.0				
5.1				
5.2				
5.3				
5.4				
5.5				

End of Pit at 3.40m
No groundwater encountered

All gravel is river-run.
Sample of gravel taken.

Depth	Max. particle size
0 - 0.5	75mm
0.75 - 1.6	125
1.6 - 3.40	150, occasional 200mm



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TEST PIT INVESTIGATION LOG

Project :	Waimakariri Irrigation Ltd Storage ponds	ENVIRONMENT CANTERBURY	
Location :	Eyrewell, Domain, Wrights and Coffeys Road	APPROVED	
		SUBJECT TO CONDITIONS	
Ground RL :	m	TO BE KEPT ON SITE	Date : 3/10/2011
		21 DECEMBER 2021	Logged by : GR
			Plant : Kom. PC200

Depth (m)	Water Inflow	Log	TEST PIT 6 Description
0.1			Grass-Topsoil: Black, fine sandy SILT
0.2			Light yellow, fine sandy SILT. Damp-dry, stiff, low-med. plasticity
0.3			Light brown-yellow, very silty, sandy, fine to medium GRAVEL, slightly damp, easy to excavate, Maximum size 75mmØ. Horizontal bedding.
0.4			Light grey, sandy, fine to coarse GRAVEL, trace of silt, slightly damp, some oxide staining, easy to excavate. Maximum size 125mmØ. Horizontal bedding.
0.5			- at 1.0m becoming fine to very coarse
0.6			
0.7			
0.8			
0.9			
1.0			
1.1			
1.2			
1.3			
1.4			
1.5			
1.6			-at 1.50m, 0.5m thick layer of cobbles to 125-150mmØ, mainly in west side of pit.
1.7			Interbedded with lenses/layers of clean gravel with no sand or silt in voids. Lense thickness from 50-250mm thick. Lenses particle size ranges from fine to coarse gravel.
1.8			
1.9			
2.0			
2.1			-below 2.0m clean gravel lense voids are partially filled with yellow, fine sandy SILT, damp-wet, low-med plasticity. Resulting mixed, excavated material comes out as silty, sandy gravel.
2.2			
2.3			
2.4			
2.5			
2.6			
2.7			
2.8			
2.9			
3.0			
3.1			
3.2			
3.3			
3.4			
3.5			
3.6			End of Pit at 3.40m. All gravel is river-run.
3.7			No groundwater encountered. No sample taken.
3.8			6m from pine shelter belt, top 1m quite dry.
3.9			
4.0			
4.1			
4.2			
4.3			
4.4			
4.5			
4.6			
4.7			
4.8			
4.9			
5.0			
5.1			
5.2			
5.3			
5.4			
5.5			

Depth	Max. particle size
0 - 0.6	75mm
0.6 - 1.5	125
1.5 - 3.40	150, occasional 200mm



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TEST PIT INVESTIGATION LOG

Project :	Waimakariri Irrigation Ltd Storage ponds	ENVIRONMENT CANTERBURY	
Location :	Eyrewell, Domain, Wrights and Coffeys Road	APPROVED	
		SUBJECT TO CONDITIONS	
Ground RL :	m	TO BE KEPT ON SITE	Date : 4/10/2011
		21 DECEMBER 2021	Logged by : GR
			Plant : Kom. PC200

Depth (m)	Water Inflow	Log	TEST PIT 7	Description
0.1			Grass-Topsoil: Black, fine sandy SILT	
0.2				
0.3				
0.4				
0.5				
0.6				
0.7				
0.8				
0.9				
1.0				Light grey, sandy, fine to coarse GRAVEL, trace of silt, slightly damp, some oxide staining, easy to excavate. Maximum size 150mmØ. Horizontal bedding.
1.1				
1.2				
1.3				
1.4				
1.5				
1.6				
1.7				
1.8				
1.9				
2.0				- below 1.6m becoming light grey and interbedded with lenses/layers of clean gravel with no sand or silt in voids. Lense thickness from 50-250mm thick. Lenses particle size ranges from fine to coarse gravel with thicker lenses grading fine to coarse.
2.1				
2.2				
2.3				
2.4				
2.5				-below 2.2m clean gravel lense voids are partially filled with yellow, fine sandy SILT, damp-wet, low-med plasticity. Resulting mixed, excavated material comes out as silty, sandy gravel.
2.6				
2.7				- maximum size 150mmØ with occasional floater to 200mmØ, material is easy to excavate and pit sides falling in below this depth
2.8				
2.9				
3.0				
3.1				
3.2				
3.3				
3.4				
3.5				
3.6				
3.7				
3.8				
3.9				
4.0				
4.1				
4.2				
4.3				
4.4				
4.5				
4.6				
4.7				
4.8				
4.9				
5.0				
5.1				
5.2				
5.3				
5.4				
5.5				

Depth	Max. particle size
0 - 0.83	100
0.8 - 1.6	150
1.6 - 5.20	150, occasional 200mm

End of Pit at 5.20m.	All gravel is river-run.
No groundwater encountered.	Sample taken.
6m from pine shelter belt, top 1m quite dry.	

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TEST PIT INVESTIGATION LOG

Project :	Waimakariri Irrigation Ltd Storage ponds	ENVIRONMENT CANTERBURY	
Location :	Eyrewell, Domain, Wrights and Coffeys Road	APPROVED	
		SUBJECT TO CONDITIONS	
Ground RL :	m	TO BE KEPT ON SITE	Date : 3/10/2011
		21 DECEMBER 2021	Logged by : GR
			Plant : Kom. PC200

Depth (m)	Water Inflow	Log	TEST PIT 8	Description
0.1			Grass-Topsoil: Black, fine sandy SILT	
0.2				
0.3				
0.4				
0.5				Light yellow, fine sandy SILT. Damp-dry, stiff, low-med. plasticity
0.6				
0.7				Light brown-yellow, very silty sandy, fine to coarse GRAVEL, slightly damp, easy to excavate, Maximum size 75mmØ. Horizontal bedding.
0.8				
0.9				
1.0				Light grey, sandy, fine to coarse GRAVEL, trace of silt, slightly damp, some oxide staining, easy to excavate. Maximum size 150mmØ. Horizontal bedding.
1.1				
1.2				
1.3				
1.4				
1.5				
1.6				
1.7				- below 1.6m becoming interbedded with lenses/layers of clean gravel with no sand or silt in voids. Lense thickness from 50-250mm thick. Lenses particle size ranges from fine to coarse gravel with thicker lenses grading fine to coarse.
1.8				
1.9				
2.0				
2.1				
2.2				
2.3				
2.4				-below 2.2m clean gravel lense voids are partially filled with yellow, fine sandy SILT, damp-wet, low-med plasticity. Resulting mixed, excavated material comes out as silty, sandy gravel.
2.5				
2.6				
2.7				
2.8				
2.9				- maximum size 150mmØ with occasional floater to 200mmØ, material is easy to excavate and pit sides falling in below this depth
3.0				
3.1				
3.2				
3.3				
3.4				
3.5				
3.6				
3.7				
3.8				
3.9				
4.0				
4.1				
4.2				
4.3				
4.4				
4.5				
4.6				
4.7				
4.8				
4.9				
5.0				
5.1				
5.2				
5.3				
5.4				
5.5				

End of Pit at 4.10m. All gravel is river-run.
No groundwater encountered. No sample.

Depth	Max. particle size
0 - 0.65	75mm
0.65 - 1.6	150mm
1.6 - 4.10	150, occasional 200mm

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TEST PIT INVESTIGATION LOG

Project :	Waimakariri Irrigation Ltd Storage ponds	ENVIRONMENT CANTERBURY	
Location :	Eyrewell, Domain, Wrights and Coffeys Road	APPROVED	
		SUBJECT TO CONDITIONS	
Ground RL :	m	TO BE KEPT ON SITE	Date : 3/10/2011
		21 DECEMBER 2021	Logged by : GR
			Plant : Kom. PC200

Depth (m)	Water Inflow	Log	TEST PIT 9 Description
0.1			Grass-Topsoil: Black, fine sandy SILT
0.2			Light brown-yellow, very silty sandy, fine to coarse GRAVEL, slightly damp, easy to excavate, Maximum size 75mmØ. Horizontal bedding
0.3			
0.4			
0.5			Light brown-yellow, very silty sandy, fine to coarse GRAVEL, slightly damp, easy to excavate, Maximum size 75mmØ. Horizontal bedding.
0.6			
0.7			
0.8			
0.9			
1.0			Light grey, sandy, fine to coarse GRAVEL, trace of silt, slightly damp, some oxide staining, easy to excavate. Maximum size 150mmØ. Horizontal bedding.
1.1			
1.2			
1.3			
1.4			
1.5			- below 1.4m becoming interbedded with lenses/layers of clean gravel with no sand or silt in voids. Lense thickness from 50-250mm thick. Lenses particle size ranges from fine to coarse gravel with thicker lenses grading fine to coarse.
1.6			
1.7			
1.8			
1.9			
2.0			-below 2.0m clean gravel lense voids are partially filled with yellow, fine sandy SILT, damp-wet, low-med plasticity. Resulting mixed, excavated material comes out as silty, sandy gravel.
2.1			
2.2			
2.3			
2.4			
2.5			- maximum size 150mmØ with occasional floater to 200mmØ, material is easy to excavate and pit sides falling in below this depth
2.6			
2.7			
2.8			
2.9			
3.0			
3.1			
3.2			
3.3			
3.4			
3.5			
3.6			
3.7			
3.8			
3.9			
4.0			
4.1			
4.2			
4.3			
4.4			
4.5			
4.6			
4.7			
4.8			
4.9			
5.0			
5.1			
5.2			
5.3			
5.4			
5.5			

End of Pit at 4.10m. No groundwater encountered.	All gravel is river-run. Sample of gravel taken.
---	---

Depth	Max. particle size
0 - 0.9	75mm
0.9 - 1.4	150mm
1.4 - 4.10	150, occasional 200mm



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TEST PIT INVESTIGATION LOG

Project :	Waimakariri Irrigation Ltd Storage ponds	ENVIRONMENT CANTERBURY	
Location :	Eyrewell, Domain, Wrights and Coffeys Road	APPROVED	
		SUBJECT TO CONDITIONS	
Ground RL :	m	TO BE KEPT ON SITE	Date : 3/10/2011
		21 DECEMBER 2021	Logged by : GR
			Plant : Kom. PC200

Depth (m)	Water Inflow	Log	TEST PIT 10 Description
0.1			Grass-Topsoil: Black, fine sandy SILT
0.2			
0.3			
0.4			
0.5			Light brown-yellow, very silty sandy, fine to coarse GRAVEL, slightly damp, easy to excavate, Maximum size 75mmØ. Horizontal bedding.
0.6			-becoming light grey/brown
0.7			
0.8			Light grey, sandy, fine to coarse GRAVEL, trace of silt, slightly damp, some oxide staining, easy to excavate. Maximum size 150mmØ. Horizontal bedding.
0.9			
1.0			
1.1			- at 1.1 to 1.6m, thick layer of 100-200mmØ cobbles, mixed with some fine to coarse gravel
1.2			
1.3			
1.4			
1.5			
1.6			- below 1.6m becoming interbedded with lenses/layers of clean gravel with no sand or silt in voids. Lense thickness from 50-250mm thick. Lenses particle size ranges from fine to coarse gravel with thicker lenses grading fine to coarse.
1.7			
1.8			
1.9			
2.0			-below 2.0m clean gravel lense voids are partially filled with yellow, fine sandy SILT, damp-wet, low-med plasticity. Resulting mixed, excavated material comes out as silty, sandy gravel.
2.1			
2.2			
2.3			
2.4			
2.5			
2.6			
2.7			
2.8			- maximum size 150mmØ with occasional floater to 200mmØ, material is easy to excavate.
2.9			
3.0			
3.1			
3.2			
3.3			
3.4			
3.5			
3.6			
3.7			
3.8			
3.9			
4.0			
4.1			
4.2			
4.3			
4.4			
4.5			
4.6			
4.7			
4.8			
4.9			
5.0			
5.1			
5.2			
5.3			
5.4			
5.5			

End of Pit at 4.10m. All gravel is river-run.
No groundwater encountered. Sample of gravel and topsoil taken.

Depth	Max. particle size
0 - 0.7	75mm
0.7 - 1.6	150mm
1.6 - 4.10	150, occasional 200mm

ENVIRONMENT CANTERBURY

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SUBJECT TO CONDITIONS

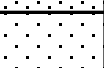
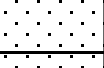
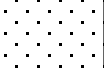
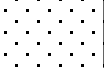
TO BE KEPT ON SITE

21 DECEMBER 2021



TEST PIT INVESTIGATION LOG

Project :	Waimakariri Irrigation Ltd Storage ponds	ENVIRONMENT CANTERBURY	
Location :	Eyrewell, Domain, Wrights and Coffeys Road	APPROVED	
		SUBJECT TO CONDITIONS	
Ground RL :	m	TO BE KEPT ON SITE	Date : 3/10/2011
		21 DECEMBER 2021	Logged by : GR
			Plant : Kom. PC200

Depth (m)	Water Inflow	Log	TEST PIT 11 Description
0.1			Grass-Topsoil: Black, fine sandy SILT
0.2			
0.3			Light brown-yellow, very silty sandy, fine to coarse GRAVEL, slightly damp, easy to excavate, Maximum size 75mmØ. Horizontal bedding.
0.4			
0.5			
0.6			Light grey/brown, slightly silty, sandy, fine to coarse GRAVEL. Maximum size 125mmØ. Horizontal bedding.
0.7			
0.8			
0.9			
1.0			Light grey, sandy, fine to coarse GRAVEL, trace of silt, slightly damp, some oxide staining, easy to excavate. Maximum size 150mmØ. Horizontal bedding.
1.1			
1.2			
1.3			
1.4			
1.5			
1.6			- below 1.5m becoming interbedded with lenses/layers of clean gravel with no sand or silt in voids. Lense thickness from 50-250mm thick. Lenses particle size ranges from fine to coarse gravel with thicker lenses grading fine to coarse.
1.7			
1.8			-below 2.2m clean gravel lense voids are partially filled with yellow, fine sandy SILT, damp-wet, low-med plasticity. Resulting mixed, excavated material comes out as silty, sandy gravel.
1.9			
2.0			
2.1			
2.2			- maximum size 150mmØ with occasional floater to 200mmØ, material is easy to excavate and pit sides falling in below this depth
2.3			
2.4			
2.5			
2.6			
2.7			
2.8			
2.9			
3.0			
3.1			
3.2			
3.3			
3.4			
3.5			
3.6			
3.7			
3.8			
3.9			
4.0			
4.1			
4.2			
4.3			
4.4			
4.5			
4.6			
4.7			
4.8			
4.9			
5.0			
5.1			
5.2			
5.3			
5.4			
5.5			

End of Pit at 3.20m. All gravel is river-run.
No groundwater encountered. No sample.

Depth	Max. particle size
0 - 0.8	75mm
0.8 - 1.5	125-150mm
1.5 - 3.20	150, occasional 200mm

ENVIRONMENT CANTERBURY

APPROVED

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TO BE KEPT ON SITE
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TEST PIT INVESTIGATION LOG

Project :	Waimakariri Irrigation Ltd Storage ponds	ENVIRONMENT CANTERBURY	
Location :	Eyrewell, Domain, Wrights and Coffeys Road	APPROVED	
		SUBJECT TO CONDITIONS	
Ground RL :	m	TO BE KEPT ON SITE	Date : 3/10/2011
		21 DECEMBER 2021	Logged by : GR
			Plant : Kom. PC200

Depth (m)	Water Inflow	Log	TEST PIT 12 Description
0.1			Grass-Topsoil: Black, fine sandy SILT
0.2			
0.3			Light yellow, fine sandy SILT. Damp-dry, stiff, low-med. plasticity
0.4			
0.5			Light brown-yellow, very silty sandy, fine to coarse GRAVEL, slightly damp, easy to excavate, Maximum size 75mmØ. Horizontal bedding.
0.6			
0.7			
0.8			Light brown/grey, slightly silty, sandy, fine to coarse GRAVEL, slightly damp, some oxide staining, easy to excavate. Maximum size 125mmØ.
0.9			
1.0			
1.1			
1.2			-at 1.2m a layer of tree roots
1.3			at 1.3 becoming light grey, sandy, fine to coarse GRAVEL, trace of silt, slightly damp, some oxide staining, easy to excavate. Maximum size 150mmØ. Horizontal bedding.
1.4			
1.5			
1.6			
1.7			
1.8			
1.9			
2.0			
2.1			
2.2			
2.3			- below 2.3m becoming interbedded with lenses/layers of clean gravel with no sand or silt in voids. Lense thickness from 50-250mm thick. Lenses particle size ranges from fine to coarse gravel with thicker lenses grading fine to coarse.
2.4			
2.5			- maximum size 150mmØ with occasional floater to 200mmØ, material is easy to excavate and pit sides falling in below this depth
2.6			
2.7			
2.8			
2.9			
3.0			-below 3.0m clean gravel lense voids are partially filled with yellow, fine sandy SILT, damp-wet, low-med plasticity. Resulting mixed material comes out as silty, sandy gravel.
3.1			
3.2			
3.3			End of Pit at 3.20m. All gravel is river-run.
3.4			No groundwater encountered. Sample of gravel.
3.5			10m from pine shelter belt, top 1m quite dry. 20m from WIL main race.
3.6			This pit lacks the interbedding at shallow layers present in the other pits.
3.7			
3.8			
3.9			
4.0			
4.1			
4.2			
4.3			
4.4			
4.5			
4.6			
4.7			
4.8			
4.9			
5.0			
5.1			
5.2			
5.3			
5.4			
5.5			

Depth	Max. particle size
0 - 0.7	75mm
0.7 - 1.3	125-150mm
1.2 - 3.20	150, occasional 200mm

ENVIRONMENT CANTERBURY

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TO BE KEPT ON SITE
21 DECEMBER 2021



TEST PIT INVESTIGATION LOG

Project :	Waimakariri Irrigation Ltd Storage ponds	ENVIRONMENT CANTERBURY	
Location :	Eyrewell, Domain, Wrights and Coffeys Road	APPROVED	
		SUBJECT TO CONDITIONS	
Ground RL :	m	TO BE KEPT ON SITE	Date : 3/10/2011
		21 DECEMBER 2021	Logged by : GR
			Plant : Kom. PC200

Depth (m)	Water Inflow	Log	TEST PIT 13 Description
0.1			Grass-Topsoil: Black, fine sandy SILT
0.2			
0.3			- at 0.25 topsoil with fine to coarse gravel
0.4			
0.5			Light brown, very silty sandy, fine to coarse GRAVEL, slightly damp, easy to excavate, Maximum size 100mmØ. Horizontal bedding.
0.6			
0.7			Light brown/grey, slightly silty, sandy, fine to coarse GRAVEL, slightly damp, some oxide staining, easy to excavate. Maximum size 125mmØ.
0.8			
0.9			
1.0			
1.1			
1.2			- below 1.15m becoming interbedded with lenses/layers of clean gravel with no sand or silt in voids. Lense thickness from 50-250mm thick. Lenses particle size ranges from fine to coarse gravel with thicker lenses grading fine to coarse.
1.3			
1.4			
1.5			
1.6			
1.7			
1.8			-below 1.8m clean gravel lense voids are partially filled with yellow, fine sandy SILT, damp-wet, low-med plasticity. Resulting mixed, excavated material comes out as silty, sandy gravel.
1.9			
2.0			
2.1			
2.2			
2.3			
2.4			
2.5			
2.6			- maximum size 150mmØ with occasional floater to 200mmØ, material is easy to excavate and pit sides falling in below this depth
2.7			
2.8			
2.9			
3.0			
3.1			
3.2			
3.3			
3.4			
3.5			
3.6			
3.7			End of Pit at 3.60m. All gravel is river-run.
3.8			No groundwater encountered. Sample of gravel taken.
3.9			
4.0			
4.1			
4.2			
4.3			
4.4			
4.5			
4.6			
4.7			
4.8			
4.9			
5.0			
5.1			
5.2			
5.3			
5.4			
5.5			

Depth	Max. particle size
0 - 0.65	75mm
0.65 - 1.2	125-150mm
1.2 - 3.60	150, occasional 200mm



ENVIRONMENT CANTERBURY
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TEST PIT INVESTIGATION LOG

Project :	Waimakariri Irrigation Ltd Storage ponds	ENVIRONMENT CANTERBURY	
Location :	Eyrewell, Domain, Wrights and Coffeys Road	APPROVED	
		SUBJECT TO CONDITIONS	
Ground RL :	m	TO BE KEPT ON SITE	Date : 3/10/2011
		21 DECEMBER 2021	Logged by : GR
			Plant : Kom. PC200

Depth (m)	Water Inflow	Log	TEST PIT 14	Description
0.1				Grass-Topsoil: Black, fine sandy SILT
0.2				
0.3				Light brown-yellow, very silty sandy, fine to coarse GRAVEL, slightly damp, easy to excavate, Maximum size 75mmØ. Horizontal bedding.
0.4				-at 0.4 becoming light grey/brown and very coarse
0.5				
0.6				
0.7				
0.8				Light grey, sandy, fine to coarse GRAVEL, trace of silt, slightly damp, some oxide staining, easy to excavate. Maximum size 150mmØ. Horizontal bedding.
0.9				
1.0				
1.1				
1.2				
1.3				
1.4				
1.5				
1.6				- below 1.6m becoming interbedded with lenses/layers of clean gravel with no sand or silt in voids. Lense thickness from 50-250mm thick. Lenses particle size ranges from fine to coarse gravel with thicker lenses grading fine to coarse.
1.7				
1.8				
1.9				
2.0				
2.1				
2.2				
2.3				
2.4				
2.5				-below 2.5m clean gravel lense voids are partially filled with yellow, fine sandy SILT, damp-wet, low-med plasticity. Resulting mixed, excavated material comes out as silty, sandy gravel.
2.6				
2.7				
2.8				
2.9				
3.0				
3.1				- maximum size 150mmØ with occasional floater to 200mmØ, material is easy to excavate and pit sides falling in below this depth
3.2				
3.3				
3.4				
3.5				
3.6				
3.7				
3.8				
3.9				
4.0				
4.1				
4.2				End of Pit at 4.10m. All gravel is river-run.
4.3				No groundwater encountered. No sample.
4.4				
4.5				
4.6				
4.7				
4.8				
4.9				
5.0				
5.1				
5.2				
5.3				
5.4				
5.5				

Depth	Max. particle size
0 - 0.7	75mm
0.7 - 4.10	150-200mm
-	-



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TEST PIT INVESTIGATION LOG

Project :	Waimakariri Irrigation Ltd Storage ponds	ENVIRONMENT CANTERBURY	
Location :	Eyrewell, Domain, Wrights and Coffeys Road	APPROVED	
		SUBJECT TO CONDITIONS	
Ground RL :	m	TO BE KEPT ON SITE	Date : 3/10/2011
		21 DECEMBER 2021	Logged by : GR
			Plant : Kom. PC200

Depth (m)	Water Inflow	Log	TEST PIT 15	Description
0.1			Grass-Topsoil: Black, fine sandy SILT	
0.2				
0.3				
0.4				
0.5				Light yellow, fine sandy SILT. Damp-dry, stiff, low-med. plasticity
0.6				
0.7				Light brown-yellow, very silty sandy, fine to coarse GRAVEL, slightly damp, easy to excavate, Maximum size 75mmØ. Horizontal bedding.
0.8				- becoming slightly silty and fine to coarse gravel
0.9				
1.0				Light grey, sandy, fine to coarse GRAVEL, trace of silt, slightly damp, some oxide staining, easy to excavate. Maximum size 150mmØ. Horizontal bedding.
1.1				
1.2				
1.3				
1.4				
1.5				
1.6				
1.7				
1.8				
1.9				
2.0				
2.1				- below 1.0m becoming interbedded with lenses/layers of clean gravel with no sand or silt in voids. Lense thickness from 50-250mm thick. Lenses particle size ranges from fine to coarse gravel with thicker lenses grading fine to coarse.
2.2				
2.3				
2.4				
2.5				-below 2.2m clean gravel lense voids are partially filled with yellow, fine sandy SILT, damp-wet, low-med plasticity. Resulting mixed, excavated material comes out as silty, sandy gravel.
2.6				
2.7				
2.8				
2.9				
3.0				- maximum size 150mmØ with occasional floater to 200mmØ, material is easy to excavate and pit sides falling in below this depth
3.1				
3.2				
3.3				
3.4				
3.5				
3.6				
3.7				
3.8				
3.9				
4.0				
4.1				
4.2				
4.3				
4.4				
4.5				
4.6				
4.7				
4.8				
4.9				
5.0				
5.1				
5.2				
5.3				
5.4				
5.5				

End of Pit at 4.10m.
No groundwater encountered.

All gravel is river-run.
Silt sample taken.

Depth	Max. particle size
0 - 0.5	75mm
0.5 - 1.2	150mm
1.2 - 4.10	150, occasional 200mm



TEST PIT INVESTIGATION LOG

Project :	Waimakariri Irrigation Ltd Storage ponds	ENVIRONMENT CANTERBURY	
Location :	Eyrewell, Domain, Wrights and Coffeys Road	APPROVED	
		SUBJECT TO CONDITIONS	
Ground RL :	m	TO BE KEPT ON SITE	Date : 3/10/2011
		21 DECEMBER 2021	Logged by : GR
			Plant : Kom. PC200

Depth (m)	Water Inflow	Log	TEST PIT 16	Description
0.1			Grass-Topsoil: Black, fine sandy SILT	
0.2				
0.3				
0.4				
0.5				Light yellow, fine sandy SILT. Damp-dry, stiff, low-med. plasticity
0.6				Light Yellow/brown, sandy, fine to coarse GRAVEL
0.7				Light grey, very sandy, fine to coarse GRAVEL, trace of silt, slightly damp, some oxide staining, easy to excavate. Maximum size 150mmØ. Horizontal bedding.
0.8				
0.9				
1.0				
1.1				
1.2				
1.3				
1.4				
1.5				
1.6				- below 1.5m becoming interbedded with lenses/layers of clean gravel with no sand or silt in voids. Lense thickness from 50-250mm thick. Lenses particle size ranges from fine to coarse gravel with thicker lenses grading fine to coarse.
1.7				
1.8				
1.9				
2.0				
2.1				-below 2.0m clean gravel lense voids are partially filled with yellow, fine sandy SILT, damp-wet, low-med plasticity. Resulting mixed, excavated material comes out as silty, sandy gravel.
2.2				
2.3				
2.4				
2.5				
2.6				- maximum size 150mmØ with occasional floater to 200mmØ, material is easy to excavate and pit sides falling in below this depth
2.7				
2.8				
2.9				
3.0				
3.1				
3.2				
3.3				
3.4				
3.5				
3.6				
3.7				
3.8				
3.9				
4.0			End of Pit at 3.80m.	All gravel is river-run.
4.1			No groundwater encountered.	No sample.
4.2				
4.3				
4.4				
4.5				
4.6				
4.7				
4.8				
4.9				
5.0				
5.1				
5.2				
5.3				
5.4				
5.5				

Depth	Max. particle size
0 - 0.4	75mm
0.4 - 1.5	125mm
1.5 - 3.8	150-200mm

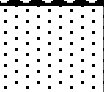
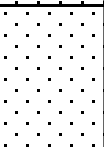
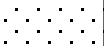


ENVIRONMENT CANTERBURY
APPROVED
SUBJECT TO CONDITIONS
TO BE KEPT ON SITE
21 DECEMBER 2021



TEST PIT INVESTIGATION LOG

Project :	Waimakariri Irrigation Ltd Storage ponds	ENVIRONMENT CANTEBURY	
Location :	Eyrewell, Domain, Wrights and Coffeys Road	APPROVED	
		SUBJECT TO CONDITIONS	
Ground RL :	m	TO BE KEPT ON SITE	Date : 3/10/2011
		21 DECEMBER 2021	Logged by : GR
			Plant : Kom. PC200

Depth (m)	Water Inflow	Log	TEST PIT 17	Description
0.1			Grass-Topsoil: Black, fine sandy SILT	
0.2				
0.3			Light brown-yellow, very silty sandy, fine to coarse GRAVEL, slightly damp, easy to excavate, Maximum size 125mmØ. Horizontal bedding.	
0.4				
0.5				
0.6			Light grey, sandy, fine to coarse GRAVEL, trace of silt, slightly damp, some oxide staining, easy to excavate. Maximum size 150mmØ. Horizontal bedding.	
0.7				
0.8				
0.9				
1.0				
1.1			- below 1.0m becoming interbedded with lenses/layers of clean gravel with no sand or silt in voids. Lense thickness from 50-250mm thick. Lenses particle size ranges from fine to coarse gravel with thicker lenses grading fine to coarse.	
1.2				
1.3				
1.4				
1.5				
1.6				
1.7				
1.8				
1.9				
2.0				
2.1				
2.2			-below 2.0m clean gravel lense voids are partially filled with yellow, fine sandy SILT, damp-wet, low-med plasticity. Resulting mixed, excavated material comes out as silty, sandy gravel.	
2.3				
2.4				
2.5				
2.6				
2.7			- maximum size 150mmØ with occasional floater to 200mmØ, material is easy to excavate and pit sides falling in below this depth	
2.8				
2.9				
3.0				
3.1				
3.2				
3.3				
3.4				
3.5				
3.6				
3.7				
3.8				
3.9				
4.0			End of Pit at 3.80m.	All gravel is river-run.
4.1			No groundwater encountered.	Sample of gravel taken.
4.2				
4.3				
4.4				
4.5				
4.6				
4.7				
4.8				
4.9				
5.0				
5.1				
5.2				
5.3				
5.4				
5.5				

Depth	Max. particle size
0 - 0.6	125mm
0.6 - 1.0	125-150mm
1.0 - 3.8	150-200mm



ENVIRONMENT CANTERBURY

APPROVED

SUBJECT TO CONDITIONS

TO BE KEPT ON SITE

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TEST PIT INVESTIGATION LOG

Project :	Waimakariri Irrigation Ltd Storage ponds	ENVIRONMENT CANTERBURY	
Location :	Eyrewell, Domain, Wrights and Coffeys Road	APPROVED	
		SUBJECT TO CONDITIONS	
Ground RL :	m	TO BE KEPT ON SITE	Date : 3/10/2011
		21 DECEMBER 2021	Logged by : GR
			Plant : Kom. PC200

Depth (m)	Water Inflow	Log	TEST PIT 18 Description
0.1			Grass-Topsoil: Black, fine sandy SILT, some medium to coarse gravel mixed in.
0.2			
0.3			
0.4			
0.5			Light brown-yellow, very silty sandy, fine to coarse GRAVEL, slightly damp, easy to excavate, Maximum size 100mmØ. Horizontal bedding.
0.6			
0.7			
0.8			Dark brown & grey, clean, medium GRAVEL, grading to very coarse, oxidised, loose, Maximum size 125mmØ
0.9			
1.0			
1.1			
1.2			
1.3			Light grey, sandy, fine to coarse GRAVEL, trace of silt, slightly damp, some oxide staining, easy to excavate. Maximum size 150mmØ. Horizontal bedding.
1.4			
1.5			
1.6			- below 1.5m becoming interbedded with lenses/layers of clean gravel with no sand or silt in voids. Lense thickness from 50-250mm thick. Lenses particle size ranges from fine to coarse gravel with thicker lenses grading fine to coarse.
1.7			
1.8			
1.9			
2.0			
2.1			-below 2.0m clean gravel lense voids are partially filled with yellow, fine sandy SILT, damp-wet, low-med plasticity. Resulting mixed, excavated material comes out as silty, sandy gravel.
2.2			
2.3			
2.4			
2.5			
2.6			- maximum size 150mmØ with occasional floater to 200mmØ, material is easy to excavate and pit sides falling in below this depth
2.7			
2.8			
2.9			
3.0			
3.1			
3.2			
3.3			
3.4			
3.5			
3.6			
3.7			
3.8			
3.9			
4.0			End of Pit at 3.80m. All gravel is river-run. No groundwater encountered. No sample.
4.1			
4.2			
4.3			
4.4			
4.5			
4.6			
4.7			
4.8			
4.9			
5.0			
5.1			
5.2			
5.3			
5.4			
5.5			

Depth	Max. particle size
0 - 0.7	100mm
0.7 - 1.2	125mm
1.2 - 3.80	150mm



TEST PIT INVESTIGATION LOG

Project :	Waimakariri Irrigation Ltd Storage ponds	ENVIRONMENT CANTERBURY	
Location :	Eyrewell, Domain, Wrights and Coffeys Road	APPROVED	
		SUBJECT TO CONDITIONS	
Ground RL :	m	TO BE KEPT ON SITE	Date : 4/10/2011
		21 DECEMBER 2021	Logged by : GR
			Plant : Kom. PC200

Depth (m)	Water Inflow	Log	TEST PIT 19 Description
0.1			Grass-Topsoil: Black, fine sandy SILT
0.2			
0.3			Dark brown-yellow, very silty sandy, fine to coarse GRAVEL, slightly damp, easy to excavate, Maximum size 100mmØ. Horizontal bedding.
0.4			
0.5			
0.6			
0.7			
0.8			
0.9			Light grey, sandy, fine to coarse GRAVEL, trace of silt, slightly damp, some oxide staining, easy to excavate. Maximum size 125mmØ.
1.0			
1.1			
1.2			
1.3			
1.4			
1.5			- below 1.3m becoming interbedded with lenses/layers of clean gravel with no sand or silt in voids. Lense thickness from 50-250mm thick. Lenses particle size ranges from fine to coarse gravel with thicker lenses grading fine to coarse.
1.6			
1.7			
1.8			- maximum size 150mmØ with occasional floater to 200mmØ, material is easy to excavate and pit sides falling in below this depth
1.9			
2.0			
2.1			
2.2			
2.3			-below 2.3m clean gravel lense voids are partially filled with yellow, fine sandy SILT, damp-wet, low-med plasticity. Resulting mixed, excavated material comes out as silty, sandy gravel.
2.4			
2.5			
2.6			
2.7			
2.8			
2.9			
3.0			
3.1			
3.2			
3.3			
3.4			
3.5			- some quite coarse lenses up to 150mmØ
3.6			
3.7			
3.8			
3.9			
4.0			
4.1			End of Pit at 4.00m. All gravel is river-run.
4.2			No groundwater encountered. No sample.
4.3			6m from pine shelter belt, top 1m quite dry.
4.4			
4.5			
4.6			
4.7			
4.8			
4.9			
5.0			
5.1			
5.2			
5.3			
5.4			
5.5			

Depth	Max. particle size
0 - 0.75	100
0.75 - 1.3	125-150
1.3 - 4.00	150, occasional 200mm



ENVIRONMENT CANTERBURY
APPROVED
SUBJECT TO CONDITIONS
TO BE KEPT ON SITE
21 DECEMBER 2021



TEST PIT INVESTIGATION LOG

Project :	Waimakariri Irrigation Ltd Storage ponds	ENVIRONMENT CANTERBURY	
Location :	Eyrewell, Domain, Wrights and Coffeys Road	APPROVED	
		SUBJECT TO CONDITIONS	
Ground RL :	m	TO BE KEPT ON SITE	Date : 4/10/2011
		21 DECEMBER 2021	Logged by : GR
			Plant : Kom. PC200

Depth (m)	Water Inflow	Log	TEST PIT 20	Description
0.1			Grass-Topsoil: Black, fine sandy SILT	
0.2				
0.3				
0.4				
0.5				
0.6				
0.7				
0.8				
0.9				
1.0				
1.1				
1.2				
1.3				
1.4				
1.5				
1.6				
1.7				
1.8				
1.9				
2.0				
2.1				
2.2				
2.3				
2.4				
2.5				
2.6				
2.7				
2.8				
2.9				
3.0				
3.1				
3.2				
3.3				
3.4				
3.5				
3.6				
3.7				
3.8				
3.9				
4.0				
4.1				
4.2				
4.3				
4.4				
4.5				
4.6				
4.7				
4.8				
4.9				
5.0				
5.1				
5.2				
5.3				
5.4				
5.5				

End of Pit at 4.00m.
No groundwater encountered.

All gravel is river-run.
No sample.

Depth	Max. particle size
0 - 0.75	100
0.75 - 1.3	125-150
1.6 - 4.00	150, occasional 200mm



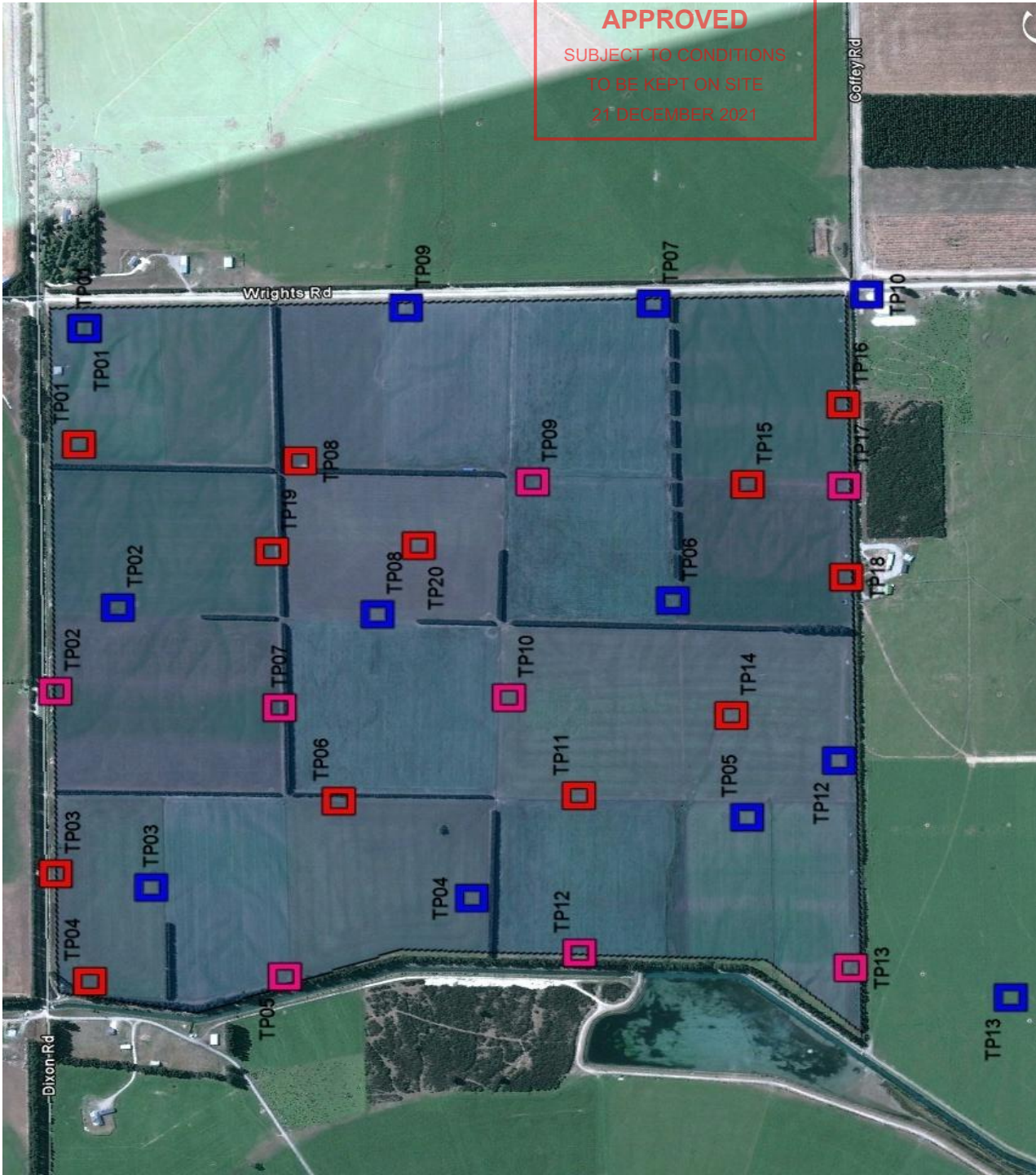
ENVIRONMENT CANTERBURY
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ENVIRONMENT CANTERBURY

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Waimakariri Irrigation Storage Pond Site Investigation

Rooney Consulting

ENVIRONMENT CANTERBURY

APPROVED

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TO BE KEPT ON SITE

21 DECEMBER 2021

3 & 4/10/2011

G. Richardson

TP3

Particle size, retained on	Number	Combined mass (kg)	Particle mass (kg)
63mm	9	10.5	1.17
100mm	4	15.5	3.88
150mm	0	0	-
200mm	0	0	-

TP17

Particle size, retained on	Number	Combined mass (kg)	Particle mass (kg)
63mm	26	27.8	1.07
100mm	14	47	3.36
150mm	1	3.5	3.50
200mm	0	0	-

TP10

Particle size, retained on	Number	Combined mass (kg)	Particle mass (kg)	
63mm	9	11.2	1.24	
100mm	7	27.9	3.99	
150mm	5	43.2	8.64	
200mm	1	24.5	24.50	Elongated
200mm	1	17.5	17.50	Triangular
200mm	1	14.8	14.80	Triangular
Average 200mm Mass:			18.93	

TP2

Particle size, retained on	Number	Combined mass (kg)	Particle mass (kg)
63mm	21	25.5	1.21
100mm	19	72	3.79
150mm	5	32	6.40
200mm	3	58.5	19.50

WIL

RSIS

Aperture size particle retained on	Average Particle mass (kg)	Average Particle mass (kg)	Diff.
63mm	1.17	1.66	-0.49
100mm	3.75	3.12	0.63
150mm	6.18	7.79	-1.61
200mm	19.22	20.60	-1.38

Negative diff. means WIL Stone is lighter than RSIS stone