

ENVIRONMENTAL REGULATOR EVENT NOTIFICATION

Holder of Authority (EA/DA)	New Century Resources
EA/DA number (DEHP Permit Number)	EPML00888813 Century Limited
MMG representative completing initial notification	CTPI 49-Sch4 – Site Senior Executive on behalf of: CTPI 49-Sch4 – Environmental Manager
DEHP Contact Person and contact details	Name and Position CTPI 49-Sch4 Team Leader (Compliance), Department of Environment & Heritage Protection Name and Position
Method and Time of Initial Contact	20/03/2017 at 14:39 via phone call to CTPI 49-Sch4 advised that an email notification would follow to the pollution hotline with CTPI 49-Sch4 cc'd in.
Incident Information	
Incident Date & Time	19-03-17 & 20-03-17
Incident Location / Area	<p>Compliance groundwater monitoring bore P_GW15.</p> 
Nature and effects of incident	<p>Routine quarterly groundwater compliance monitoring returned results outside of the EA contaminant limit for pH.</p> <p>The result for P_GW15 for field testing of pH was outside the Contaminant limit 16:00 on the 19/03/2017 & followed up with additional test the morning of the 20/03/2017.</p>
Time EA/DA Holder became aware of release/exceedance	16:00 on the 19 th March 2017
Estimated quantity and substance type	N/A
Actual/potential Cause	Unknown
Description of potential environmental risk	Unknown
Immediate actions taken to prevent or mitigate environmental harm or adverse effects, and outcomes of actions taken	Water samples were collected from P_GW15 and will be dispatched to a NATA accredited lab for analysis on Tuesday the 21 st of March. Results can be expected to be received approximately 10 days after laboratory receives the samples.
Actual or potentially affected parties notified and date notified	N/A

Results and interpretation of any samples taken and analysed	The field pH result for P_GW15 was outside the EA contaminant limit range.		
	Date	Sample Point	Field pH
	19-03-17	P_GW15	5.66
	20-03-17	P_GW15	5.96
EA Contaminant Limit			
6.0 -9.0			
Proposed actions taken to prevent a recurrence of the incident	The Lab results from the 2 Sampling events will be reviewed. These will then be compared against field results and EA Contaminant Limits. Additional actions to investigate this further will be developed in due course and discuss with DEHP.		
IEM Event Number	N/A		

NCR Signatories			
Accountable Mgr:	Name:	Signature	Date:
Environment Mgr/Supt.:	Name:	Signature	Date:
Site Senior Executive (SSE):	Name: CTPI 49-Sch4	Signature: CTPI 49-Sch4	Date: 20/03/2017

Variable	Unit	Sample Poi Date	Data Point	Graphable Value
Alkalinity as CaCO3	mg/L	C_GW09 24/03/2015	62	62
Alkalinity as CaCO3	mg/L	C_GW09 3/06/2015	52	52
Alkalinity as CaCO3	mg/L	C_GW09 5/08/2015	16	16
Alkalinity as CaCO3	mg/L	C_GW09 4/09/2015	14	14
Alkalinity as CaCO3	mg/L	C_GW09 20/12/2015	12	12
Alkalinity as CaCO3	mg/L	C_GW09 8/03/2016	28	28
Alkalinity as CaCO3	mg/L	C_GW09 22/04/2016	40	40
Alkalinity as CaCO3	mg/L	C_GW09 17/06/2016	40	40
Alkalinity as CaCO3	mg/L	C_GW09 8/09/2016	56	56
Alkalinity as CaCO3	mg/L	C_GW09 3/12/2016	52	52
Alkalinity as CaCO3	mg/L	C_GW09 19/03/2017	48	48
Alkalinity as CaCO3	mg/L	C_GW09 15/05/2017	40	40
Alkalinity as CaCO3	mg/L	C_GW09 14/06/2017	44	44
Aluminium (Soluble)	mg/L	C_GW09 22/04/2016	0.016	0.016
Aluminium (Soluble)	mg/L	C_GW09 17/06/2016	<0.005	0.005
Aluminium (Soluble)	mg/L	C_GW09 8/09/2016	<0.001	0.001
Aluminium (Soluble)	mg/L	C_GW09 3/12/2016	0.004	0.004
Aluminium (Soluble)	mg/L	C_GW09 19/03/2017	<0.001	0.001
Aluminium (Soluble)	mg/L	C_GW09 15/05/2017	<0.005	0.005
Aluminium (Soluble)	mg/L	C_GW09 14/06/2017	<0.001	0.001
Aluminium (Total)	mg/L	C_GW09 22/04/2016	0.028	0.028
Aluminium (Total)	mg/L	C_GW09 17/06/2016	<0.005	0.005
Aluminium (Total)	mg/L	C_GW09 8/09/2016	<0.001	0.001
Aluminium (Total)	mg/L	C_GW09 3/12/2016	0.011	0.011
Aluminium (Total)	mg/L	C_GW09 19/03/2017	<0.001	0.001
Aluminium (Total)	mg/L	C_GW09 15/05/2017	<0.005	0.005
Aluminium (Total)	mg/L	C_GW09 14/06/2017	0.01	0.01
Arsenic (Soluble)	mg/L	C_GW09 24/03/2015	0.004	0.004
Arsenic (Soluble)	mg/L	C_GW09 3/06/2015	0.002	0.002
Arsenic (Soluble)	mg/L	C_GW09 5/08/2015	0.001	0.001
Arsenic (Soluble)	mg/L	C_GW09 4/09/2015	0.001	0.001
Arsenic (Soluble)	mg/L	C_GW09 20/12/2015	0.002	0.002
Arsenic (Soluble)	mg/L	C_GW09 8/03/2016	0.001	0.001
Arsenic (Soluble)	mg/L	C_GW09 22/04/2016	0.002	0.002
Arsenic (Soluble)	mg/L	C_GW09 17/06/2016	0.002	0.002
Arsenic (Soluble)	mg/L	C_GW09 8/09/2016	0.008	0.008
Arsenic (Soluble)	mg/L	C_GW09 3/12/2016	0.025	0.025
Arsenic (Soluble)	mg/L	C_GW09 19/03/2017	0.001	0.001
Arsenic (Soluble)	mg/L	C_GW09 15/05/2017	<0.001	0.001
Arsenic (Soluble)	mg/L	C_GW09 14/06/2017	0.006	0.006
Arsenic (Total)	mg/L	C_GW09 24/03/2015	0.004	0.004
Arsenic (Total)	mg/L	C_GW09 3/06/2015	0.003	0.003
Arsenic (Total)	mg/L	C_GW09 5/08/2015	0.002	0.002
Arsenic (Total)	mg/L	C_GW09 4/09/2015	0.002	0.002
Arsenic (Total)	mg/L	C_GW09 20/12/2015	0.002	0.002
Arsenic (Total)	mg/L	C_GW09 8/03/2016	0.002	0.002
Arsenic (Total)	mg/L	C_GW09 22/04/2016	0.002	0.002
Arsenic (Total)	mg/L	C_GW09 17/06/2016	0.003	0.003
Arsenic (Total)	mg/L	C_GW09 8/09/2016	0.008	0.008
Arsenic (Total)	mg/L	C_GW09 3/12/2016	0.026	0.026

Arsenic (Total)	mg/L	C_GW09	19/03/2017	0.004	0.004
Arsenic (Total)	mg/L	C_GW09	15/05/2017	0.002	0.002
Arsenic (Total)	mg/L	C_GW09	14/06/2017	0.009	0.009
Boron (Soluble)	mg/L	C_GW09	5/08/2015	0.397	0.397
Boron (Soluble)	mg/L	C_GW09	22/04/2016	0.35	0.35
Boron (Soluble)	mg/L	C_GW09	17/06/2016	0.358	0.358
Boron (Soluble)	mg/L	C_GW09	8/09/2016	0.478	0.478
Boron (Soluble)	mg/L	C_GW09	3/12/2016	0.43	0.43
Boron (Soluble)	mg/L	C_GW09	19/03/2017	0.328	0.328
Boron (Soluble)	mg/L	C_GW09	15/05/2017	0.41	0.41
Boron (Soluble)	mg/L	C_GW09	14/06/2017	0.55	0.55
Boron (Total)	mg/L	C_GW09	22/04/2016	0.42	0.42
Boron (Total)	mg/L	C_GW09	17/06/2016	0.384	0.384
Boron (Total)	mg/L	C_GW09	8/09/2016	0.483	0.483
Boron (Total)	mg/L	C_GW09	3/12/2016	0.45	0.45
Boron (Total)	mg/L	C_GW09	19/03/2017	0.364	0.364
Boron (Total)	mg/L	C_GW09	15/05/2017	0.46	0.46
Boron (Total)	mg/L	C_GW09	14/06/2017	0.56	0.56
Cadmium (Soluble)	mg/L	C_GW09	24/03/2015	< 0.0001	0.0001
Cadmium (Soluble)	mg/L	C_GW09	3/06/2015	<0.0001	0.0001
Cadmium (Soluble)	mg/L	C_GW09	5/08/2015	0.0002	0.0002
Cadmium (Soluble)	mg/L	C_GW09	4/09/2015	0.0001	0.0001
Cadmium (Soluble)	mg/L	C_GW09	20/12/2015	<0.0001	0.0001
Cadmium (Soluble)	mg/L	C_GW09	8/03/2016	<0.0001	0.0001
Cadmium (Soluble)	mg/L	C_GW09	22/04/2016	<0.0001	0.0001
Cadmium (Soluble)	mg/L	C_GW09	17/06/2016	<0.0001	0.0001
Cadmium (Soluble)	mg/L	C_GW09	8/09/2016	<0.0001	0.0001
Cadmium (Soluble)	mg/L	C_GW09	3/12/2016	<0.0001	0.0001
Cadmium (Soluble)	mg/L	C_GW09	19/03/2017	<0.0001	0.0001
Cadmium (Soluble)	mg/L	C_GW09	15/05/2017	<0.0001	0.0001
Cadmium (Soluble)	mg/L	C_GW09	14/06/2017	<0.0001	0.0001
Cadmium (Total)	mg/L	C_GW09	24/03/2015	< 0.0001	0.0001
Cadmium (Total)	mg/L	C_GW09	3/06/2015	<0.0001	0.0001
Cadmium (Total)	mg/L	C_GW09	5/08/2015	0.0002	0.0002
Cadmium (Total)	mg/L	C_GW09	4/09/2015	0.0001	0.0001
Cadmium (Total)	mg/L	C_GW09	20/12/2015	0.0007	0.0007
Cadmium (Total)	mg/L	C_GW09	8/03/2016	<0.0001	0.0001
Cadmium (Total)	mg/L	C_GW09	22/04/2016	0.0001	0.0001
Cadmium (Total)	mg/L	C_GW09	17/06/2016	<0.0001	0.0001
Cadmium (Total)	mg/L	C_GW09	8/09/2016	<0.0001	0.0001
Cadmium (Total)	mg/L	C_GW09	3/12/2016	<0.0001	0.0001
Cadmium (Total)	mg/L	C_GW09	19/03/2017	0.0004	0.0004
Cadmium (Total)	mg/L	C_GW09	15/05/2017	<0.0001	0.0001
Cadmium (Total)	mg/L	C_GW09	14/06/2017	<0.0001	0.0001
Calcium (Soluble)	mg/L	C_GW09	24/03/2015	129.42	129.42
Calcium (Soluble)	mg/L	C_GW09	3/06/2015	134.38	134.38
Calcium (Soluble)	mg/L	C_GW09	5/08/2015	132.56	132.56
Calcium (Soluble)	mg/L	C_GW09	4/09/2015	135.03	135.03
Calcium (Soluble)	mg/L	C_GW09	20/12/2015	141.66	141.66
Calcium (Soluble)	mg/L	C_GW09	8/03/2016	133.48	133.48
Calcium (Soluble)	mg/L	C_GW09	22/04/2016	134.59	134.59

Calcium (Soluble)	mg/L	C_GW09	17/06/2016	127.14	127.14
Calcium (Soluble)	mg/L	C_GW09	8/09/2016	157.04	157.04
Calcium (Soluble)	mg/L	C_GW09	3/12/2016	154.04	154.04
Calcium (Soluble)	mg/L	C_GW09	19/03/2017	148.62	148.62
Calcium (Soluble)	mg/L	C_GW09	15/05/2017	165.73	165.73
Calcium (Soluble)	mg/L	C_GW09	14/06/2017	158.49	158.49
Calcium (Total)	mg/L	C_GW09	24/03/2015	NR	
Calcium (Total)	mg/L	C_GW09	3/06/2015	NR	
Calcium (Total)	mg/L	C_GW09	5/08/2015	136.52	136.52
Calcium (Total)	mg/L	C_GW09	4/09/2015	NR	
Calcium (Total)	mg/L	C_GW09	20/12/2015	NR	
Calcium (Total)	mg/L	C_GW09	8/03/2016	NR	
Calcium (Total)	mg/L	C_GW09	22/04/2016	134.62	134.62
Calcium (Total)	mg/L	C_GW09	17/06/2016	NR	
Calcium (Total)	mg/L	C_GW09	8/09/2016	NR	
Calcium (Total)	mg/L	C_GW09	3/12/2016	NR	
Calcium (Total)	mg/L	C_GW09	19/03/2017	NR	
Calcium (Total)	mg/L	C_GW09	15/05/2017	169.51	169.51
Calcium (Total)	mg/L	C_GW09	14/06/2017	NR	
Chloride	mg/L	C_GW09	24/03/2015	192.3	192.3
Chloride	mg/L	C_GW09	3/06/2015	171.6	171.6
Chloride	mg/L	C_GW09	5/08/2015	161.5	161.5
Chloride	mg/L	C_GW09	4/09/2015	151.1	151.1
Chloride	mg/L	C_GW09	20/12/2015	183.9	183.9
Chloride	mg/L	C_GW09	8/03/2016	181.9	181.9
Chloride	mg/L	C_GW09	22/04/2016	175.9	175.9
Chloride	mg/L	C_GW09	17/06/2016	155.2	155.2
Chloride	mg/L	C_GW09	8/09/2016	202.4	202.4
Chloride	mg/L	C_GW09	3/12/2016	197.9	197.9
Chloride	mg/L	C_GW09	19/03/2017	190.9	190.9
Chloride	mg/L	C_GW09	15/05/2017	200.9	200.9
Chloride	mg/L	C_GW09	14/06/2017	204.9	204.9
Copper (Soluble)	mg/L	C_GW09	24/03/2015	< 0.0005	0.0005
Copper (Soluble)	mg/L	C_GW09	3/06/2015	0.002	0.002
Copper (Soluble)	mg/L	C_GW09	5/08/2015	<0.0005	0.0005
Copper (Soluble)	mg/L	C_GW09	4/09/2015	< 0.001	0.001
Copper (Soluble)	mg/L	C_GW09	20/12/2015	0.004	0.004
Copper (Soluble)	mg/L	C_GW09	8/03/2016	<0.0005	0.0005
Copper (Soluble)	mg/L	C_GW09	22/04/2016	0.002	0.002
Copper (Soluble)	mg/L	C_GW09	17/06/2016	<0.0005	0.0005
Copper (Soluble)	mg/L	C_GW09	8/09/2016	<0.0005	0.0005
Copper (Soluble)	mg/L	C_GW09	3/12/2016	<0.0005	0.0005
Copper (Soluble)	mg/L	C_GW09	19/03/2017	0.009	0.009
Copper (Soluble)	mg/L	C_GW09	15/05/2017	<0.001	0.001
Copper (Soluble)	mg/L	C_GW09	14/06/2017	0.005	0.005
Copper (Total)	mg/L	C_GW09	24/03/2015	0.002	0.002
Copper (Total)	mg/L	C_GW09	3/06/2015	0.002	0.002
Copper (Total)	mg/L	C_GW09	5/08/2015	<0.0005	0.0005
Copper (Total)	mg/L	C_GW09	4/09/2015	< 0.001	0.001
Copper (Total)	mg/L	C_GW09	20/12/2015	0.004	0.004
Copper (Total)	mg/L	C_GW09	8/03/2016	<0.0005	0.0005

Copper (Total)	mg/L	C_GW09	22/04/2016	0.002	0.002
Copper (Total)	mg/L	C_GW09	17/06/2016	0.001	0.001
Copper (Total)	mg/L	C_GW09	8/09/2016	<0.0005	0.0005
Copper (Total)	mg/L	C_GW09	3/12/2016	<0.0005	0.0005
Copper (Total)	mg/L	C_GW09	19/03/2017	0.01	0.01
Copper (Total)	mg/L	C_GW09	15/05/2017	<0.001	0.001
Copper (Total)	mg/L	C_GW09	14/06/2017	0.01	0.01
Fluoride (Soluble)	mg/L	C_GW09	17/06/2016	0.98	0.98
Fluoride (Soluble)	mg/L	C_GW09	8/09/2016	0.67	0.67
Fluoride (Soluble)	mg/L	C_GW09	3/12/2016	1.08	1.08
Fluoride (Soluble)	mg/L	C_GW09	19/03/2017	0.69	0.69
Fluoride (Soluble)	mg/L	C_GW09	15/05/2017	1.15	1.15
Fluoride (Soluble)	mg/L	C_GW09	14/06/2017	0.69	0.69
Fluoride (Total)	mg/L	C_GW09	24/03/2015	NR	
Fluoride (Total)	mg/L	C_GW09	3/06/2015	NR	
Fluoride (Total)	mg/L	C_GW09	5/08/2015	<0.01	0.01
Fluoride (Total)	mg/L	C_GW09	4/09/2015	NR	
Fluoride (Total)	mg/L	C_GW09	20/12/2015	NR	
Fluoride (Total)	mg/L	C_GW09	8/03/2016	NR	
Fluoride (Total)	mg/L	C_GW09	22/04/2016	1.03	1.03
Fluoride (Total)	mg/L	C_GW09	17/06/2016	1.16	1.16
Fluoride (Total)	mg/L	C_GW09	8/09/2016	1.08	1.08
Fluoride (Total)	mg/L	C_GW09	3/12/2016	1.11	1.11
Fluoride (Total)	mg/L	C_GW09	19/03/2017	1.11	1.11
Fluoride (Total)	mg/L	C_GW09	15/05/2017	1.16	1.16
Fluoride (Total)	mg/L	C_GW09	14/06/2017	0.96	0.96
Iron (Soluble)	mg/L	C_GW09	24/03/2015	18.365	18.365
Iron (Soluble)	mg/L	C_GW09	3/06/2015	12.707	12.707
Iron (Soluble)	mg/L	C_GW09	5/08/2015	10.089	10.089
Iron (Soluble)	mg/L	C_GW09	4/09/2015	10.817	10.817
Iron (Soluble)	mg/L	C_GW09	20/12/2015	20.217	20.217
Iron (Soluble)	mg/L	C_GW09	8/03/2016	12.754	12.754
Iron (Soluble)	mg/L	C_GW09	22/04/2016	17.249	17.249
Iron (Soluble)	mg/L	C_GW09	17/06/2016	9.894	9.894
Iron (Soluble)	mg/L	C_GW09	8/09/2016	24.44	24.44
Iron (Soluble)	mg/L	C_GW09	3/12/2016	21.628	21.628
Iron (Soluble)	mg/L	C_GW09	19/03/2017	22.289	22.289
Iron (Soluble)	mg/L	C_GW09	15/05/2017	11.92	11.92
Iron (Soluble)	mg/L	C_GW09	14/06/2017	<0.003	0.003
Iron (Total)	mg/L	C_GW09	24/03/2015	18.746	18.746
Iron (Total)	mg/L	C_GW09	3/06/2015	15.14	15.14
Iron (Total)	mg/L	C_GW09	5/08/2015	14.272	14.272
Iron (Total)	mg/L	C_GW09	4/09/2015	15.203	15.203
Iron (Total)	mg/L	C_GW09	20/12/2015	21.248	21.248
Iron (Total)	mg/L	C_GW09	8/03/2016	12.788	12.788
Iron (Total)	mg/L	C_GW09	22/04/2016	18.036	18.036
Iron (Total)	mg/L	C_GW09	17/06/2016	14.593	14.593
Iron (Total)	mg/L	C_GW09	8/09/2016	24.676	24.676
Iron (Total)	mg/L	C_GW09	3/12/2016	22.257	22.257
Iron (Total)	mg/L	C_GW09	19/03/2017	22.672	22.672
Iron (Total)	mg/L	C_GW09	15/05/2017	18.701	18.701

Iron (Total)	mg/L	C_GW09	14/06/2017	0.124	0.124
Lead (Soluble)	mg/L	C_GW09	24/03/2015	< 0.001	0.001
Lead (Soluble)	mg/L	C_GW09	3/06/2015	<0.001	0.001
Lead (Soluble)	mg/L	C_GW09	5/08/2015	<0.001	0.001
Lead (Soluble)	mg/L	C_GW09	4/09/2015	< 0.001	0.001
Lead (Soluble)	mg/L	C_GW09	20/12/2015	<0.001	0.001
Lead (Soluble)	mg/L	C_GW09	8/03/2016	<0.001	0.001
Lead (Soluble)	mg/L	C_GW09	22/04/2016	<0.001	0.001
Lead (Soluble)	mg/L	C_GW09	17/06/2016	<0.001	0.001
Lead (Soluble)	mg/L	C_GW09	8/09/2016	<0.001	0.001
Lead (Soluble)	mg/L	C_GW09	3/12/2016	<0.001	0.001
Lead (Soluble)	mg/L	C_GW09	19/03/2017	<0.001	0.001
Lead (Soluble)	mg/L	C_GW09	15/05/2017	<0.001	0.001
Lead (Soluble)	mg/L	C_GW09	14/06/2017	<0.001	0.001
Lead (Total)	mg/L	C_GW09	24/03/2015	< 0.001	0.001
Lead (Total)	mg/L	C_GW09	3/06/2015	<0.001	0.001
Lead (Total)	mg/L	C_GW09	5/08/2015	<0.001	0.001
Lead (Total)	mg/L	C_GW09	4/09/2015	< 0.001	0.001
Lead (Total)	mg/L	C_GW09	20/12/2015	<0.001	0.001
Lead (Total)	mg/L	C_GW09	8/03/2016	<0.001	0.001
Lead (Total)	mg/L	C_GW09	22/04/2016	<0.001	0.001
Lead (Total)	mg/L	C_GW09	17/06/2016	<0.001	0.001
Lead (Total)	mg/L	C_GW09	8/09/2016	<0.001	0.001
Lead (Total)	mg/L	C_GW09	3/12/2016	<0.001	0.001
Lead (Total)	mg/L	C_GW09	19/03/2017	<0.001	0.001
Lead (Total)	mg/L	C_GW09	15/05/2017	<0.001	0.001
Lead (Total)	mg/L	C_GW09	14/06/2017	<0.001	0.001
Magnesium (Soluble)	mg/L	C_GW09	24/03/2015	205.48	205.48
Magnesium (Soluble)	mg/L	C_GW09	3/06/2015	209.02	209.02
Magnesium (Soluble)	mg/L	C_GW09	5/08/2015	206.05	206.05
Magnesium (Soluble)	mg/L	C_GW09	4/09/2015	212.34	212.34
Magnesium (Soluble)	mg/L	C_GW09	20/12/2015	248.46	248.46
Magnesium (Soluble)	mg/L	C_GW09	8/03/2016	234.54	234.54
Magnesium (Soluble)	mg/L	C_GW09	22/04/2016	230.42	230.42
Magnesium (Soluble)	mg/L	C_GW09	17/06/2016	225.77	225.77
Magnesium (Soluble)	mg/L	C_GW09	8/09/2016	273.4	273.4
Magnesium (Soluble)	mg/L	C_GW09	3/12/2016	261.98	261.98
Magnesium (Soluble)	mg/L	C_GW09	19/03/2017	262.83	262.83
Magnesium (Soluble)	mg/L	C_GW09	15/05/2017	277.72	277.72
Magnesium (Soluble)	mg/L	C_GW09	14/06/2017	268.66	268.66
Magnesium (Total)	mg/L	C_GW09	24/03/2015	NR	
Magnesium (Total)	mg/L	C_GW09	3/06/2015	NR	
Magnesium (Total)	mg/L	C_GW09	5/08/2015	209.41	209.41
Magnesium (Total)	mg/L	C_GW09	4/09/2015	NR	
Magnesium (Total)	mg/L	C_GW09	20/12/2015	NR	
Magnesium (Total)	mg/L	C_GW09	8/03/2016	NR	
Magnesium (Total)	mg/L	C_GW09	22/04/2016	236.29	236.29
Magnesium (Total)	mg/L	C_GW09	17/06/2016	NR	
Magnesium (Total)	mg/L	C_GW09	8/09/2016	NR	
Magnesium (Total)	mg/L	C_GW09	3/12/2016	NR	
Magnesium (Total)	mg/L	C_GW09	19/03/2017	NR	

Magnesium (Total)	mg/L	C_GW09	15/05/2017	283.86	283.86
Magnesium (Total)	mg/L	C_GW09	14/06/2017	NR	
Manganese (Soluble)	mg/L	C_GW09	24/03/2015	3.041	3.041
Manganese (Soluble)	mg/L	C_GW09	3/06/2015	3.403	3.403
Manganese (Soluble)	mg/L	C_GW09	5/08/2015	3.188	3.188
Manganese (Soluble)	mg/L	C_GW09	4/09/2015	3.504	3.504
Manganese (Soluble)	mg/L	C_GW09	20/12/2015	3.245	3.245
Manganese (Soluble)	mg/L	C_GW09	8/03/2016	3.112	3.112
Manganese (Soluble)	mg/L	C_GW09	22/04/2016	2.914	2.914
Manganese (Soluble)	mg/L	C_GW09	17/06/2016	3.202	3.202
Manganese (Soluble)	mg/L	C_GW09	8/09/2016	3.956	3.956
Manganese (Soluble)	mg/L	C_GW09	3/12/2016	3.593	3.593
Manganese (Soluble)	mg/L	C_GW09	19/03/2017	3.1	3.1
Manganese (Soluble)	mg/L	C_GW09	15/05/2017	3.607	3.607
Manganese (Soluble)	mg/L	C_GW09	14/06/2017	4.366	4.366
Manganese (Total)	mg/L	C_GW09	24/03/2015	3.05	3.05
Manganese (Total)	mg/L	C_GW09	3/06/2015	3.518	3.518
Manganese (Total)	mg/L	C_GW09	5/08/2015	3.264	3.264
Manganese (Total)	mg/L	C_GW09	4/09/2015	3.57	3.57
Manganese (Total)	mg/L	C_GW09	20/12/2015	3.284	3.284
Manganese (Total)	mg/L	C_GW09	8/03/2016	3.144	3.144
Manganese (Total)	mg/L	C_GW09	22/04/2016	3.126	3.126
Manganese (Total)	mg/L	C_GW09	17/06/2016	3.3	3.3
Manganese (Total)	mg/L	C_GW09	8/09/2016	4.055	4.055
Manganese (Total)	mg/L	C_GW09	3/12/2016	3.621	3.621
Manganese (Total)	mg/L	C_GW09	19/03/2017	3.425	3.425
Manganese (Total)	mg/L	C_GW09	15/05/2017	3.831	3.831
Manganese (Total)	mg/L	C_GW09	14/06/2017	4.463	4.463
pH (Field)		C_GW09	24/03/2015	5.53	5.53
pH (Field)		C_GW09	3/06/2015	5.63	5.63
pH (Field)		C_GW09	5/08/2015	5.58	5.58
pH (Field)		C_GW09	4/09/2015	5.43	5.43
pH (Field)		C_GW09	#####	5.4	5.4
pH (Field)		C_GW09	8/03/2016	5.62	5.62
pH (Field)		C_GW09	#####	5.62	5.62
pH (Field)		C_GW09	22/04/2016	5.4	5.4
pH (Field)		C_GW09	17/06/2016	5.27	5.27
pH (Field)		C_GW09	8/09/2016	5.5	5.5
pH (Field)		C_GW09	3/12/2016	5.27	5.27
pH (Field)		C_GW09	19/03/2017	5.25	5.25
pH (Field)		C_GW09	15/05/2017	5.13	5.13
pH (Lab)		C_GW09	24/03/2015	5.92	5.92
pH (Lab)		C_GW09	3/06/2015	5.79	5.79
pH (Lab)		C_GW09	5/08/2015	5.79	5.79
pH (Lab)		C_GW09	4/09/2015	5.75	5.75
pH (Lab)		C_GW09	20/12/2015	5.8	5.8
pH (Lab)		C_GW09	8/03/2016	5.67	5.67
pH (Lab)		C_GW09	22/04/2016	5.89	5.89
pH (Lab)		C_GW09	17/06/2016	5.9	5.9
pH (Lab)		C_GW09	8/09/2016	5.92	5.92
pH (Lab)		C_GW09	3/12/2016	6.02	6.02

pH (Lab)		C_GW09	19/03/2017 6.51	6.51
pH (Lab)		C_GW09	15/05/2017 5.9	5.9
pH (Lab)		C_GW09	14/06/2017 5.91	5.91
Potassium (Soluble)	mg/L	C_GW09	24/03/2015 89.69	89.69
Potassium (Soluble)	mg/L	C_GW09	3/06/2015 91.63	91.63
Potassium (Soluble)	mg/L	C_GW09	5/08/2015 91	91
Potassium (Soluble)	mg/L	C_GW09	4/09/2015 92.42	92.42
Potassium (Soluble)	mg/L	C_GW09	20/12/2015 91.55	91.55
Potassium (Soluble)	mg/L	C_GW09	8/03/2016 88.27	88.27
Potassium (Soluble)	mg/L	C_GW09	22/04/2016 87.14	87.14
Potassium (Soluble)	mg/L	C_GW09	17/06/2016 86.56	86.56
Potassium (Soluble)	mg/L	C_GW09	8/09/2016 95.17	95.17
Potassium (Soluble)	mg/L	C_GW09	3/12/2016 95.89	95.89
Potassium (Soluble)	mg/L	C_GW09	19/03/2017 97.32	97.32
Potassium (Soluble)	mg/L	C_GW09	15/05/2017 98.96	98.96
Potassium (Soluble)	mg/L	C_GW09	14/06/2017 96.42	96.42
Potassium (Total)	mg/L	C_GW09	24/03/2015 NR	
Potassium (Total)	mg/L	C_GW09	3/06/2015 NR	
Potassium (Total)	mg/L	C_GW09	5/08/2015 93.61	93.61
Potassium (Total)	mg/L	C_GW09	4/09/2015 NR	
Potassium (Total)	mg/L	C_GW09	20/12/2015 NR	
Potassium (Total)	mg/L	C_GW09	8/03/2016 NR	
Potassium (Total)	mg/L	C_GW09	22/04/2016 88.93	88.93
Potassium (Total)	mg/L	C_GW09	17/06/2016 NR	
Potassium (Total)	mg/L	C_GW09	8/09/2016 NR	
Potassium (Total)	mg/L	C_GW09	3/12/2016 NR	
Potassium (Total)	mg/L	C_GW09	19/03/2017 NR	
Potassium (Total)	mg/L	C_GW09	15/05/2017 100.7	100.7
Potassium (Total)	mg/L	C_GW09	14/06/2017 NR	
Sodium (Soluble)	mg/L	C_GW09	24/03/2015 284.34	284.34
Sodium (Soluble)	mg/L	C_GW09	3/06/2015 288.78	288.78
Sodium (Soluble)	mg/L	C_GW09	5/08/2015 290.57	290.57
Sodium (Soluble)	mg/L	C_GW09	4/09/2015 294.39	294.39
Sodium (Soluble)	mg/L	C_GW09	20/12/2015 298.72	298.72
Sodium (Soluble)	mg/L	C_GW09	8/03/2016 287.5	287.5
Sodium (Soluble)	mg/L	C_GW09	22/04/2016 290.36	290.36
Sodium (Soluble)	mg/L	C_GW09	17/06/2016 288.05	288.05
Sodium (Soluble)	mg/L	C_GW09	8/09/2016 329.74	329.74
Sodium (Soluble)	mg/L	C_GW09	3/12/2016 320.68	320.68
Sodium (Soluble)	mg/L	C_GW09	19/03/2017 325.49	325.49
Sodium (Soluble)	mg/L	C_GW09	15/05/2017 339.37	339.37
Sodium (Soluble)	mg/L	C_GW09	14/06/2017 325.49	325.49
Sodium (Total)	mg/L	C_GW09	24/03/2015 NR	
Sodium (Total)	mg/L	C_GW09	3/06/2015 NR	
Sodium (Total)	mg/L	C_GW09	5/08/2015 296.72	296.72
Sodium (Total)	mg/L	C_GW09	4/09/2015 NR	
Sodium (Total)	mg/L	C_GW09	20/12/2015 NR	
Sodium (Total)	mg/L	C_GW09	8/03/2016 NR	
Sodium (Total)	mg/L	C_GW09	22/04/2016 291.41	291.41
Sodium (Total)	mg/L	C_GW09	17/06/2016 NR	
Sodium (Total)	mg/L	C_GW09	8/09/2016 NR	

Sodium (Total)	mg/L	C_GW09	3/12/2016	NR	
Sodium (Total)	mg/L	C_GW09	19/03/2017	NR	
Sodium (Total)	mg/L	C_GW09	15/05/2017	344.15	344.15
Sodium (Total)	mg/L	C_GW09	14/06/2017	NR	
Sulfate as SO4 (Dissolved)	mg/L	C_GW09	24/03/2015	1611.8	1611.8
Sulfate as SO4 (Dissolved)	mg/L	C_GW09	3/06/2015	1584.21	1584.21
Sulfate as SO4 (Dissolved)	mg/L	C_GW09	5/08/2015	1652.25	1652.25
Sulfate as SO4 (Dissolved)	mg/L	C_GW09	4/09/2015	1525.83	1525.83
Sulfate as SO4 (Dissolved)	mg/L	C_GW09	20/12/2015	1830.45	1830.45
Sulfate as SO4 (Dissolved)	mg/L	C_GW09	8/03/2016	1727.07	1727.07
Sulfate as SO4 (Dissolved)	mg/L	C_GW09	22/04/2016	1826.94	1826.94
Sulfate as SO4 (Dissolved)	mg/L	C_GW09	17/06/2016	1748.37	1748.37
Sulfate as SO4 (Dissolved)	mg/L	C_GW09	8/09/2016	2113.44	2113.44
Sulfate as SO4 (Dissolved)	mg/L	C_GW09	3/12/2016	1968.57	1968.57
Sulfate as SO4 (Dissolved)	mg/L	C_GW09	19/03/2017	1916.94	1916.94
Sulfate as SO4 (Dissolved)	mg/L	C_GW09	15/05/2017	1901.46	1901.46
Sulfate as SO4 (Dissolved)	mg/L	C_GW09	14/06/2017	2072.13	2072.13
Sulfate as SO4 (Total)	mg/L	C_GW09	24/03/2015	1631.91	1631.91
Sulfate as SO4 (Total)	mg/L	C_GW09	3/06/2015	1616.46	1616.46
Sulfate as SO4 (Total)	mg/L	C_GW09	5/08/2015	1677.96	1677.96
Sulfate as SO4 (Total)	mg/L	C_GW09	4/09/2015	1711.49	1711.49
Sulfate as SO4 (Total)	mg/L	C_GW09	20/12/2015	1849.71	1849.71
Sulfate as SO4 (Total)	mg/L	C_GW09	8/03/2016	1740.36	1740.36
Sulfate as SO4 (Total)	mg/L	C_GW09	22/04/2016	1830.31	1830.31
Sulfate as SO4 (Total)	mg/L	C_GW09	17/06/2016	1772.76	1772.76
Sulfate as SO4 (Total)	mg/L	C_GW09	8/09/2016	2139.2	2139.2
Sulfate as SO4 (Total)	mg/L	C_GW09	3/12/2016	2031.87	2031.87
Sulfate as SO4 (Total)	mg/L	C_GW09	19/03/2017	1933.35	1933.35
Sulfate as SO4 (Total)	mg/L	C_GW09	15/05/2017	1907.31	1907.31
Sulfate as SO4 (Total)	mg/L	C_GW09	14/06/2017	2088.18	2088.18
SWL	mbRP	C_GW09	24/03/2015	3.25	3.25
SWL	mbRP	C_GW09	31/03/2015	3.28	3.28
SWL	mbRP	C_GW09	12/04/2015	3.28	3.28
SWL	mbRP	C_GW09	5/05/2015	3.37	3.37
SWL	mbRP	C_GW09	3/06/2015	3.55	3.55
SWL	mbRP	C_GW09	1/07/2015	3.59	3.59
SWL	mbRP	C_GW09	5/08/2015	3.67	3.67
SWL	mbRP	C_GW09	11/08/2015	3.66	3.66
SWL	mbRP	C_GW09	4/09/2015	3.78	3.78
SWL	mbRP	C_GW09	14/10/2015	3.85	3.85
SWL	mbRP	C_GW09	#####	3.66	3.66
SWL	mbRP	C_GW09	8/03/2016	2.81	2.81
SWL	mbRP	C_GW09	#####	2.81	2.81
SWL	mbRP	C_GW09	21/04/2016	2.57	2.57
SWL	mbRP	C_GW09	22/04/2016	2.57	2.57
SWL	mbRP	C_GW09	14/05/2016	2.67	2.67
SWL	mbRP	C_GW09	2/06/2016	2.67	2.67
SWL	mbRP	C_GW09	17/06/2016	2.71	2.71
SWL	mbRP	C_GW09	15/07/2016	2.93	2.93
SWL	mbRP	C_GW09	13/08/2016	3.02	3.02
SWL	mbRP	C_GW09	8/09/2016	3.07	3.07

SWL	mbRP	C_GW09	26/09/2016	3.07	3.07
SWL	mbRP	C_GW09	8/10/2016	3.14	3.14
SWL	mbRP	C_GW09	4/11/2016	3.165	3.165
SWL	mbRP	C_GW09	3/12/2016	3.14	3.14
SWL	mbRP	C_GW09	18/12/2016	3.15	3.15
SWL	mbRP	C_GW09	28/01/2017	2.65	2.65
SWL	mbRP	C_GW09	20/02/2017	2.34	2.34
SWL	mbRP	C_GW09	19/03/2017	2.27	2.27
SWL	mbRP	C_GW09	22/03/2017	2.28	2.28
SWL	mbRP	C_GW09	13/04/2017	2.39	2.39
SWL	mbRP	C_GW09	15/05/2017	2.56	2.56
SWL	mbRP	C_GW09	12/06/2017	2.77	2.77
SWL	mbRP	C_GW09	17/07/2017	2.92	2.92
SWL	mbRP	C_GW09	10/08/2017	3.02	3.02
Total Dissolved Solids	mg/L	C_GW09	24/03/2015	2858	2858
Total Dissolved Solids	mg/L	C_GW09	3/06/2015	2876	2876
Total Dissolved Solids	mg/L	C_GW09	5/08/2015	2960	2960
Total Dissolved Solids	mg/L	C_GW09	4/09/2015	2916	2916
Total Dissolved Solids	mg/L	C_GW09	20/12/2015	2826	2826
Total Dissolved Solids	mg/L	C_GW09	8/03/2016	2780	2780
Total Dissolved Solids	mg/L	C_GW09	22/04/2016	2764	2764
Total Dissolved Solids	mg/L	C_GW09	17/06/2016	2742	2742
Total Dissolved Solids	mg/L	C_GW09	8/09/2016	3168	3168
Total Dissolved Solids	mg/L	C_GW09	3/12/2016	3174	3174
Total Dissolved Solids	mg/L	C_GW09	19/03/2017	2884	2884
Total Dissolved Solids	mg/L	C_GW09	15/05/2017	3104	3104
Total Dissolved Solids	mg/L	C_GW09	14/06/2017	3050	3050
Total Suspended Solids	mg/L	C_GW09	24/03/2015	9	9
Total Suspended Solids	mg/L	C_GW09	3/06/2015	4	4
Total Suspended Solids	mg/L	C_GW09	5/08/2015	7	7
Total Suspended Solids	mg/L	C_GW09	4/09/2015	17	17
Total Suspended Solids	mg/L	C_GW09	20/12/2015	14	14
Total Suspended Solids	mg/L	C_GW09	8/03/2016	13	13
Total Suspended Solids	mg/L	C_GW09	22/04/2016	4	4
Total Suspended Solids	mg/L	C_GW09	17/06/2016	7	7
Total Suspended Solids	mg/L	C_GW09	8/09/2016	4	4
Total Suspended Solids	mg/L	C_GW09	3/12/2016	20	20
Total Suspended Solids	mg/L	C_GW09	19/03/2017	27	27
Total Suspended Solids	mg/L	C_GW09	15/05/2017	27	27
Total Suspended Solids	mg/L	C_GW09	14/06/2017	9	9
Turbidity (Field)	NTU	C_GW09	24/03/2015	3.41	3.41
Turbidity (Field)	NTU	C_GW09	3/06/2015	0.4	0.4
Turbidity (Field)	NTU	C_GW09	5/08/2015	2.62	2.62
Turbidity (Field)	NTU	C_GW09	4/09/2015	4.32	4.32
Turbidity (Field)	NTU	C_GW09	#####	15.78	15.78
Turbidity (Field)	NTU	C_GW09	8/03/2016	7.52	7.52
Turbidity (Field)	NTU	C_GW09	#####	7.52	7.52
Turbidity (Field)	NTU	C_GW09	22/04/2016	1.84	1.84
Turbidity (Field)	NTU	C_GW09	17/06/2016	7.17	7.17
Turbidity (Field)	NTU	C_GW09	8/09/2016	1.7	1.7
Turbidity (Field)	NTU	C_GW09	3/12/2016	13	13

Turbidity (Field)	NTU	C_GW09	19/03/2017	12.42	12.42
Turbidity (Field)	NTU	C_GW09	15/05/2017	13.73	13.73
Turbidity (Lab)	NTU	C_GW09	24/03/2015	13.1	13.1
Turbidity (Lab)	NTU	C_GW09	3/06/2015	13	13
Turbidity (Lab)	NTU	C_GW09	5/08/2015	8.72	8.72
Turbidity (Lab)	NTU	C_GW09	4/09/2015	72.1	72.1
Turbidity (Lab)	NTU	C_GW09	20/12/2015	29.5	29.5
Turbidity (Lab)	NTU	C_GW09	8/03/2016	82.3	82.3
Turbidity (Lab)	NTU	C_GW09	22/04/2016	20	20
Turbidity (Lab)	NTU	C_GW09	17/06/2016	29.3	29.3
Turbidity (Lab)	NTU	C_GW09	8/09/2016	5.28	5.28
Turbidity (Lab)	NTU	C_GW09	3/12/2016	11	11
Turbidity (Lab)	NTU	C_GW09	19/03/2017	37.8	37.8
Turbidity (Lab)	NTU	C_GW09	15/05/2017	28	28
Turbidity (Lab)	NTU	C_GW09	14/06/2017	18	18
Zinc (Soluble)	mg/L	C_GW09	24/03/2015	0.1	0.1
Zinc (Soluble)	mg/L	C_GW09	3/06/2015	0.131	0.131
Zinc (Soluble)	mg/L	C_GW09	5/08/2015	0.12	0.12
Zinc (Soluble)	mg/L	C_GW09	4/09/2015	0.124	0.124
Zinc (Soluble)	mg/L	C_GW09	20/12/2015	0.129	0.129
Zinc (Soluble)	mg/L	C_GW09	8/03/2016	0.122	0.122
Zinc (Soluble)	mg/L	C_GW09	22/04/2016	0.137	0.137
Zinc (Soluble)	mg/L	C_GW09	17/06/2016	0.134	0.134
Zinc (Soluble)	mg/L	C_GW09	8/09/2016	0.088	0.088
Zinc (Soluble)	mg/L	C_GW09	3/12/2016	0.107	0.107
Zinc (Soluble)	mg/L	C_GW09	19/03/2017	0.097	0.097
Zinc (Soluble)	mg/L	C_GW09	15/05/2017	0.135	0.135
Zinc (Soluble)	mg/L	C_GW09	14/06/2017	0.147	0.147
Zinc (Total)	mg/L	C_GW09	24/03/2015	0.1	0.1
Zinc (Total)	mg/L	C_GW09	3/06/2015	0.133	0.133
Zinc (Total)	mg/L	C_GW09	5/08/2015	0.122	0.122
Zinc (Total)	mg/L	C_GW09	4/09/2015	0.126	0.126
Zinc (Total)	mg/L	C_GW09	20/12/2015	0.137	0.137
Zinc (Total)	mg/L	C_GW09	8/03/2016	0.125	0.125
Zinc (Total)	mg/L	C_GW09	22/04/2016	0.147	0.147
Zinc (Total)	mg/L	C_GW09	17/06/2016	0.169	0.169
Zinc (Total)	mg/L	C_GW09	8/09/2016	0.089	0.089
Zinc (Total)	mg/L	C_GW09	3/12/2016	0.113	0.113
Zinc (Total)	mg/L	C_GW09	19/03/2017	0.114	0.114
Zinc (Total)	mg/L	C_GW09	15/05/2017	0.157	0.157
Zinc (Total)	mg/L	C_GW09	14/06/2017	0.156	0.156

Variable	Unit	Sample Poi Date	Data Point	Graphable Value
Alkalinity as CaCO3	mg/L	C_GW09	24/03/2015 62	62
Alkalinity as CaCO3	mg/L	C_GW09	3/06/2015 52	52
Alkalinity as CaCO3	mg/L	C_GW09	5/08/2015 16	16
Alkalinity as CaCO3	mg/L	C_GW09	4/09/2015 14	14
Alkalinity as CaCO3	mg/L	C_GW09	20/12/2015 12	12
Alkalinity as CaCO3	mg/L	C_GW09	8/03/2016 28	28
Alkalinity as CaCO3	mg/L	C_GW09	22/04/2016 40	40
Alkalinity as CaCO3	mg/L	C_GW09	17/06/2016 40	40
Alkalinity as CaCO3	mg/L	C_GW09	8/09/2016 56	56
Alkalinity as CaCO3	mg/L	C_GW09	3/12/2016 52	52
Alkalinity as CaCO3	mg/L	C_GW09	19/03/2017 48	48
Alkalinity as CaCO3	mg/L	C_GW09	15/05/2017 40	40
Alkalinity as CaCO3	mg/L	C_GW09	14/06/2017 44	44
Aluminium (Soluble)	mg/L	C_GW09	22/04/2016 0.016	0.016
Aluminium (Soluble)	mg/L	C_GW09	17/06/2016 <0.005	0.005
Aluminium (Soluble)	mg/L	C_GW09	8/09/2016 <0.001	0.001
Aluminium (Soluble)	mg/L	C_GW09	3/12/2016 0.004	0.004
Aluminium (Soluble)	mg/L	C_GW09	19/03/2017 <0.001	0.001
Aluminium (Soluble)	mg/L	C_GW09	15/05/2017 <0.005	0.005
Aluminium (Soluble)	mg/L	C_GW09	14/06/2017 <0.001	0.001
Aluminium (Total)	mg/L	C_GW09	22/04/2016 0.028	0.028
Aluminium (Total)	mg/L	C_GW09	17/06/2016 <0.005	0.005
Aluminium (Total)	mg/L	C_GW09	8/09/2016 <0.001	0.001
Aluminium (Total)	mg/L	C_GW09	3/12/2016 0.011	0.011
Aluminium (Total)	mg/L	C_GW09	19/03/2017 <0.001	0.001
Aluminium (Total)	mg/L	C_GW09	15/05/2017 <0.005	0.005
Aluminium (Total)	mg/L	C_GW09	14/06/2017 0.01	0.01
Arsenic (Soluble)	mg/L	C_GW09	24/03/2015 0.004	0.004
Arsenic (Soluble)	mg/L	C_GW09	3/06/2015 0.002	0.002
Arsenic (Soluble)	mg/L	C_GW09	5/08/2015 0.001	0.001
Arsenic (Soluble)	mg/L	C_GW09	4/09/2015 0.001	0.001
Arsenic (Soluble)	mg/L	C_GW09	20/12/2015 0.002	0.002
Arsenic (Soluble)	mg/L	C_GW09	8/03/2016 0.001	0.001
Arsenic (Soluble)	mg/L	C_GW09	22/04/2016 0.002	0.002
Arsenic (Soluble)	mg/L	C_GW09	17/06/2016 0.002	0.002
Arsenic (Soluble)	mg/L	C_GW09	8/09/2016 0.008	0.008
Arsenic (Soluble)	mg/L	C_GW09	3/12/2016 0.025	0.025
Arsenic (Soluble)	mg/L	C_GW09	19/03/2017 0.001	0.001
Arsenic (Soluble)	mg/L	C_GW09	15/05/2017 <0.001	0.001
Arsenic (Soluble)	mg/L	C_GW09	14/06/2017 0.006	0.006
Arsenic (Total)	mg/L	C_GW09	24/03/2015 0.004	0.004
Arsenic (Total)	mg/L	C_GW09	3/06/2015 0.003	0.003
Arsenic (Total)	mg/L	C_GW09	5/08/2015 0.002	0.002
Arsenic (Total)	mg/L	C_GW09	4/09/2015 0.002	0.002
Arsenic (Total)	mg/L	C_GW09	20/12/2015 0.002	0.002
Arsenic (Total)	mg/L	C_GW09	8/03/2016 0.002	0.002
Arsenic (Total)	mg/L	C_GW09	22/04/2016 0.002	0.002
Arsenic (Total)	mg/L	C_GW09	17/06/2016 0.003	0.003
Arsenic (Total)	mg/L	C_GW09	8/09/2016 0.008	0.008
Arsenic (Total)	mg/L	C_GW09	3/12/2016 0.026	0.026

Arsenic (Total)	mg/L	C_GW09	19/03/2017	0.004	0.004
Arsenic (Total)	mg/L	C_GW09	15/05/2017	0.002	0.002
Arsenic (Total)	mg/L	C_GW09	14/06/2017	0.009	0.009
Boron (Soluble)	mg/L	C_GW09	5/08/2015	0.397	0.397
Boron (Soluble)	mg/L	C_GW09	22/04/2016	0.35	0.35
Boron (Soluble)	mg/L	C_GW09	17/06/2016	0.358	0.358
Boron (Soluble)	mg/L	C_GW09	8/09/2016	0.478	0.478
Boron (Soluble)	mg/L	C_GW09	3/12/2016	0.43	0.43
Boron (Soluble)	mg/L	C_GW09	19/03/2017	0.328	0.328
Boron (Soluble)	mg/L	C_GW09	15/05/2017	0.41	0.41
Boron (Soluble)	mg/L	C_GW09	14/06/2017	0.55	0.55
Boron (Total)	mg/L	C_GW09	22/04/2016	0.42	0.42
Boron (Total)	mg/L	C_GW09	17/06/2016	0.384	0.384
Boron (Total)	mg/L	C_GW09	8/09/2016	0.483	0.483
Boron (Total)	mg/L	C_GW09	3/12/2016	0.45	0.45
Boron (Total)	mg/L	C_GW09	19/03/2017	0.364	0.364
Boron (Total)	mg/L	C_GW09	15/05/2017	0.46	0.46
Boron (Total)	mg/L	C_GW09	14/06/2017	0.56	0.56
Cadmium (Soluble)	mg/L	C_GW09	24/03/2015	< 0.0001	0.0001
Cadmium (Soluble)	mg/L	C_GW09	3/06/2015	<0.0001	0.0001
Cadmium (Soluble)	mg/L	C_GW09	5/08/2015	0.0002	0.0002
Cadmium (Soluble)	mg/L	C_GW09	4/09/2015	0.0001	0.0001
Cadmium (Soluble)	mg/L	C_GW09	20/12/2015	<0.0001	0.0001
Cadmium (Soluble)	mg/L	C_GW09	8/03/2016	<0.0001	0.0001
Cadmium (Soluble)	mg/L	C_GW09	22/04/2016	<0.0001	0.0001
Cadmium (Soluble)	mg/L	C_GW09	17/06/2016	<0.0001	0.0001
Cadmium (Soluble)	mg/L	C_GW09	8/09/2016	<0.0001	0.0001
Cadmium (Soluble)	mg/L	C_GW09	3/12/2016	<0.0001	0.0001
Cadmium (Soluble)	mg/L	C_GW09	19/03/2017	<0.0001	0.0001
Cadmium (Soluble)	mg/L	C_GW09	15/05/2017	<0.0001	0.0001
Cadmium (Soluble)	mg/L	C_GW09	14/06/2017	<0.0001	0.0001
Cadmium (Total)	mg/L	C_GW09	24/03/2015	< 0.0001	0.0001
Cadmium (Total)	mg/L	C_GW09	3/06/2015	<0.0001	0.0001
Cadmium (Total)	mg/L	C_GW09	5/08/2015	0.0002	0.0002
Cadmium (Total)	mg/L	C_GW09	4/09/2015	0.0001	0.0001
Cadmium (Total)	mg/L	C_GW09	20/12/2015	0.0007	0.0007
Cadmium (Total)	mg/L	C_GW09	8/03/2016	<0.0001	0.0001
Cadmium (Total)	mg/L	C_GW09	22/04/2016	0.0001	0.0001
Cadmium (Total)	mg/L	C_GW09	17/06/2016	<0.0001	0.0001
Cadmium (Total)	mg/L	C_GW09	8/09/2016	<0.0001	0.0001
Cadmium (Total)	mg/L	C_GW09	3/12/2016	<0.0001	0.0001
Cadmium (Total)	mg/L	C_GW09	19/03/2017	0.0004	0.0004
Cadmium (Total)	mg/L	C_GW09	15/05/2017	<0.0001	0.0001
Cadmium (Total)	mg/L	C_GW09	14/06/2017	<0.0001	0.0001
Calcium (Soluble)	mg/L	C_GW09	24/03/2015	129.42	129.42
Calcium (Soluble)	mg/L	C_GW09	3/06/2015	134.38	134.38
Calcium (Soluble)	mg/L	C_GW09	5/08/2015	132.56	132.56
Calcium (Soluble)	mg/L	C_GW09	4/09/2015	135.03	135.03
Calcium (Soluble)	mg/L	C_GW09	20/12/2015	141.66	141.66
Calcium (Soluble)	mg/L	C_GW09	8/03/2016	133.48	133.48
Calcium (Soluble)	mg/L	C_GW09	22/04/2016	134.59	134.59

Calcium (Soluble)	mg/L	C_GW09	17/06/2016	127.14	127.14
Calcium (Soluble)	mg/L	C_GW09	8/09/2016	157.04	157.04
Calcium (Soluble)	mg/L	C_GW09	3/12/2016	154.04	154.04
Calcium (Soluble)	mg/L	C_GW09	19/03/2017	148.62	148.62
Calcium (Soluble)	mg/L	C_GW09	15/05/2017	165.73	165.73
Calcium (Soluble)	mg/L	C_GW09	14/06/2017	158.49	158.49
Calcium (Total)	mg/L	C_GW09	24/03/2015	NR	
Calcium (Total)	mg/L	C_GW09	3/06/2015	NR	
Calcium (Total)	mg/L	C_GW09	5/08/2015	136.52	136.52
Calcium (Total)	mg/L	C_GW09	4/09/2015	NR	
Calcium (Total)	mg/L	C_GW09	20/12/2015	NR	
Calcium (Total)	mg/L	C_GW09	8/03/2016	NR	
Calcium (Total)	mg/L	C_GW09	22/04/2016	134.62	134.62
Calcium (Total)	mg/L	C_GW09	17/06/2016	NR	
Calcium (Total)	mg/L	C_GW09	8/09/2016	NR	
Calcium (Total)	mg/L	C_GW09	3/12/2016	NR	
Calcium (Total)	mg/L	C_GW09	19/03/2017	NR	
Calcium (Total)	mg/L	C_GW09	15/05/2017	169.51	169.51
Calcium (Total)	mg/L	C_GW09	14/06/2017	NR	
Chloride	mg/L	C_GW09	24/03/2015	192.3	192.3
Chloride	mg/L	C_GW09	3/06/2015	171.6	171.6
Chloride	mg/L	C_GW09	5/08/2015	161.5	161.5
Chloride	mg/L	C_GW09	4/09/2015	151.1	151.1
Chloride	mg/L	C_GW09	20/12/2015	183.9	183.9
Chloride	mg/L	C_GW09	8/03/2016	181.9	181.9
Chloride	mg/L	C_GW09	22/04/2016	175.9	175.9
Chloride	mg/L	C_GW09	17/06/2016	155.2	155.2
Chloride	mg/L	C_GW09	8/09/2016	202.4	202.4
Chloride	mg/L	C_GW09	3/12/2016	197.9	197.9
Chloride	mg/L	C_GW09	19/03/2017	190.9	190.9
Chloride	mg/L	C_GW09	15/05/2017	200.9	200.9
Chloride	mg/L	C_GW09	14/06/2017	204.9	204.9
Copper (Soluble)	mg/L	C_GW09	24/03/2015	< 0.0005	0.0005
Copper (Soluble)	mg/L	C_GW09	3/06/2015	0.002	0.002
Copper (Soluble)	mg/L	C_GW09	5/08/2015	<0.0005	0.0005
Copper (Soluble)	mg/L	C_GW09	4/09/2015	< 0.001	0.001
Copper (Soluble)	mg/L	C_GW09	20/12/2015	0.004	0.004
Copper (Soluble)	mg/L	C_GW09	8/03/2016	<0.0005	0.0005
Copper (Soluble)	mg/L	C_GW09	22/04/2016	0.002	0.002
Copper (Soluble)	mg/L	C_GW09	17/06/2016	<0.0005	0.0005
Copper (Soluble)	mg/L	C_GW09	8/09/2016	<0.0005	0.0005
Copper (Soluble)	mg/L	C_GW09	3/12/2016	<0.0005	0.0005
Copper (Soluble)	mg/L	C_GW09	19/03/2017	0.009	0.009
Copper (Soluble)	mg/L	C_GW09	15/05/2017	<0.001	0.001
Copper (Soluble)	mg/L	C_GW09	14/06/2017	0.005	0.005
Copper (Total)	mg/L	C_GW09	24/03/2015	0.002	0.002
Copper (Total)	mg/L	C_GW09	3/06/2015	0.002	0.002
Copper (Total)	mg/L	C_GW09	5/08/2015	<0.0005	0.0005
Copper (Total)	mg/L	C_GW09	4/09/2015	< 0.001	0.001
Copper (Total)	mg/L	C_GW09	20/12/2015	0.004	0.004
Copper (Total)	mg/L	C_GW09	8/03/2016	<0.0005	0.0005

Copper (Total)	mg/L	C_GW09	22/04/2016	0.002	0.002
Copper (Total)	mg/L	C_GW09	17/06/2016	0.001	0.001
Copper (Total)	mg/L	C_GW09	8/09/2016	<0.0005	0.0005
Copper (Total)	mg/L	C_GW09	3/12/2016	<0.0005	0.0005
Copper (Total)	mg/L	C_GW09	19/03/2017	0.01	0.01
Copper (Total)	mg/L	C_GW09	15/05/2017	<0.001	0.001
Copper (Total)	mg/L	C_GW09	14/06/2017	0.01	0.01
Fluoride (Soluble)	mg/L	C_GW09	17/06/2016	0.98	0.98
Fluoride (Soluble)	mg/L	C_GW09	8/09/2016	0.67	0.67
Fluoride (Soluble)	mg/L	C_GW09	3/12/2016	1.08	1.08
Fluoride (Soluble)	mg/L	C_GW09	19/03/2017	0.69	0.69
Fluoride (Soluble)	mg/L	C_GW09	15/05/2017	1.15	1.15
Fluoride (Soluble)	mg/L	C_GW09	14/06/2017	0.69	0.69
Fluoride (Total)	mg/L	C_GW09	24/03/2015	NR	
Fluoride (Total)	mg/L	C_GW09	3/06/2015	NR	
Fluoride (Total)	mg/L	C_GW09	5/08/2015	<0.01	0.01
Fluoride (Total)	mg/L	C_GW09	4/09/2015	NR	
Fluoride (Total)	mg/L	C_GW09	20/12/2015	NR	
Fluoride (Total)	mg/L	C_GW09	8/03/2016	NR	
Fluoride (Total)	mg/L	C_GW09	22/04/2016	1.03	1.03
Fluoride (Total)	mg/L	C_GW09	17/06/2016	1.16	1.16
Fluoride (Total)	mg/L	C_GW09	8/09/2016	1.08	1.08
Fluoride (Total)	mg/L	C_GW09	3/12/2016	1.11	1.11
Fluoride (Total)	mg/L	C_GW09	19/03/2017	1.11	1.11
Fluoride (Total)	mg/L	C_GW09	15/05/2017	1.16	1.16
Fluoride (Total)	mg/L	C_GW09	14/06/2017	0.96	0.96
Iron (Soluble)	mg/L	C_GW09	24/03/2015	18.365	18.365
Iron (Soluble)	mg/L	C_GW09	3/06/2015	12.707	12.707
Iron (Soluble)	mg/L	C_GW09	5/08/2015	10.089	10.089
Iron (Soluble)	mg/L	C_GW09	4/09/2015	10.817	10.817
Iron (Soluble)	mg/L	C_GW09	20/12/2015	20.217	20.217
Iron (Soluble)	mg/L	C_GW09	8/03/2016	12.754	12.754
Iron (Soluble)	mg/L	C_GW09	22/04/2016	17.249	17.249
Iron (Soluble)	mg/L	C_GW09	17/06/2016	9.894	9.894
Iron (Soluble)	mg/L	C_GW09	8/09/2016	24.44	24.44
Iron (Soluble)	mg/L	C_GW09	3/12/2016	21.628	21.628
Iron (Soluble)	mg/L	C_GW09	19/03/2017	22.289	22.289
Iron (Soluble)	mg/L	C_GW09	15/05/2017	11.92	11.92
Iron (Soluble)	mg/L	C_GW09	14/06/2017	<0.003	0.003
Iron (Total)	mg/L	C_GW09	24/03/2015	18.746	18.746
Iron (Total)	mg/L	C_GW09	3/06/2015	15.14	15.14
Iron (Total)	mg/L	C_GW09	5/08/2015	14.272	14.272
Iron (Total)	mg/L	C_GW09	4/09/2015	15.203	15.203
Iron (Total)	mg/L	C_GW09	20/12/2015	21.248	21.248
Iron (Total)	mg/L	C_GW09	8/03/2016	12.788	12.788
Iron (Total)	mg/L	C_GW09	22/04/2016	18.036	18.036
Iron (Total)	mg/L	C_GW09	17/06/2016	14.593	14.593
Iron (Total)	mg/L	C_GW09	8/09/2016	24.676	24.676
Iron (Total)	mg/L	C_GW09	3/12/2016	22.257	22.257
Iron (Total)	mg/L	C_GW09	19/03/2017	22.672	22.672
Iron (Total)	mg/L	C_GW09	15/05/2017	18.701	18.701

Iron (Total)	mg/L	C_GW09	14/06/2017	0.124	0.124
Lead (Soluble)	mg/L	C_GW09	24/03/2015	< 0.001	0.001
Lead (Soluble)	mg/L	C_GW09	3/06/2015	<0.001	0.001
Lead (Soluble)	mg/L	C_GW09	5/08/2015	<0.001	0.001
Lead (Soluble)	mg/L	C_GW09	4/09/2015	< 0.001	0.001
Lead (Soluble)	mg/L	C_GW09	20/12/2015	<0.001	0.001
Lead (Soluble)	mg/L	C_GW09	8/03/2016	<0.001	0.001
Lead (Soluble)	mg/L	C_GW09	22/04/2016	<0.001	0.001
Lead (Soluble)	mg/L	C_GW09	17/06/2016	<0.001	0.001
Lead (Soluble)	mg/L	C_GW09	8/09/2016	<0.001	0.001
Lead (Soluble)	mg/L	C_GW09	3/12/2016	<0.001	0.001
Lead (Soluble)	mg/L	C_GW09	19/03/2017	<0.001	0.001
Lead (Soluble)	mg/L	C_GW09	15/05/2017	<0.001	0.001
Lead (Soluble)	mg/L	C_GW09	14/06/2017	<0.001	0.001
Lead (Total)	mg/L	C_GW09	24/03/2015	< 0.001	0.001
Lead (Total)	mg/L	C_GW09	3/06/2015	<0.001	0.001
Lead (Total)	mg/L	C_GW09	5/08/2015	<0.001	0.001
Lead (Total)	mg/L	C_GW09	4/09/2015	< 0.001	0.001
Lead (Total)	mg/L	C_GW09	20/12/2015	<0.001	0.001
Lead (Total)	mg/L	C_GW09	8/03/2016	<0.001	0.001
Lead (Total)	mg/L	C_GW09	22/04/2016	<0.001	0.001
Lead (Total)	mg/L	C_GW09	17/06/2016	<0.001	0.001
Lead (Total)	mg/L	C_GW09	8/09/2016	<0.001	0.001
Lead (Total)	mg/L	C_GW09	3/12/2016	<0.001	0.001
Lead (Total)	mg/L	C_GW09	19/03/2017	<0.001	0.001
Lead (Total)	mg/L	C_GW09	15/05/2017	<0.001	0.001
Lead (Total)	mg/L	C_GW09	14/06/2017	<0.001	0.001
Magnesium (Soluble)	mg/L	C_GW09	24/03/2015	205.48	205.48
Magnesium (Soluble)	mg/L	C_GW09	3/06/2015	209.02	209.02
Magnesium (Soluble)	mg/L	C_GW09	5/08/2015	206.05	206.05
Magnesium (Soluble)	mg/L	C_GW09	4/09/2015	212.34	212.34
Magnesium (Soluble)	mg/L	C_GW09	20/12/2015	248.46	248.46
Magnesium (Soluble)	mg/L	C_GW09	8/03/2016	234.54	234.54
Magnesium (Soluble)	mg/L	C_GW09	22/04/2016	230.42	230.42
Magnesium (Soluble)	mg/L	C_GW09	17/06/2016	225.77	225.77
Magnesium (Soluble)	mg/L	C_GW09	8/09/2016	273.4	273.4
Magnesium (Soluble)	mg/L	C_GW09	3/12/2016	261.98	261.98
Magnesium (Soluble)	mg/L	C_GW09	19/03/2017	262.83	262.83
Magnesium (Soluble)	mg/L	C_GW09	15/05/2017	277.72	277.72
Magnesium (Soluble)	mg/L	C_GW09	14/06/2017	268.66	268.66
Magnesium (Total)	mg/L	C_GW09	24/03/2015	NR	
Magnesium (Total)	mg/L	C_GW09	3/06/2015	NR	
Magnesium (Total)	mg/L	C_GW09	5/08/2015	209.41	209.41
Magnesium (Total)	mg/L	C_GW09	4/09/2015	NR	
Magnesium (Total)	mg/L	C_GW09	20/12/2015	NR	
Magnesium (Total)	mg/L	C_GW09	8/03/2016	NR	
Magnesium (Total)	mg/L	C_GW09	22/04/2016	236.29	236.29
Magnesium (Total)	mg/L	C_GW09	17/06/2016	NR	
Magnesium (Total)	mg/L	C_GW09	8/09/2016	NR	
Magnesium (Total)	mg/L	C_GW09	3/12/2016	NR	
Magnesium (Total)	mg/L	C_GW09	19/03/2017	NR	

Magnesium (Total)	mg/L	C_GW09	15/05/2017	283.86	283.86
Magnesium (Total)	mg/L	C_GW09	14/06/2017	NR	
Manganese (Soluble)	mg/L	C_GW09	24/03/2015	3.041	3.041
Manganese (Soluble)	mg/L	C_GW09	3/06/2015	3.403	3.403
Manganese (Soluble)	mg/L	C_GW09	5/08/2015	3.188	3.188
Manganese (Soluble)	mg/L	C_GW09	4/09/2015	3.504	3.504
Manganese (Soluble)	mg/L	C_GW09	20/12/2015	3.245	3.245
Manganese (Soluble)	mg/L	C_GW09	8/03/2016	3.112	3.112
Manganese (Soluble)	mg/L	C_GW09	22/04/2016	2.914	2.914
Manganese (Soluble)	mg/L	C_GW09	17/06/2016	3.202	3.202
Manganese (Soluble)	mg/L	C_GW09	8/09/2016	3.956	3.956
Manganese (Soluble)	mg/L	C_GW09	3/12/2016	3.593	3.593
Manganese (Soluble)	mg/L	C_GW09	19/03/2017	3.1	3.1
Manganese (Soluble)	mg/L	C_GW09	15/05/2017	3.607	3.607
Manganese (Soluble)	mg/L	C_GW09	14/06/2017	4.366	4.366
Manganese (Total)	mg/L	C_GW09	24/03/2015	3.05	3.05
Manganese (Total)	mg/L	C_GW09	3/06/2015	3.518	3.518
Manganese (Total)	mg/L	C_GW09	5/08/2015	3.264	3.264
Manganese (Total)	mg/L	C_GW09	4/09/2015	3.57	3.57
Manganese (Total)	mg/L	C_GW09	20/12/2015	3.284	3.284
Manganese (Total)	mg/L	C_GW09	8/03/2016	3.144	3.144
Manganese (Total)	mg/L	C_GW09	22/04/2016	3.126	3.126
Manganese (Total)	mg/L	C_GW09	17/06/2016	3.3	3.3
Manganese (Total)	mg/L	C_GW09	8/09/2016	4.055	4.055
Manganese (Total)	mg/L	C_GW09	3/12/2016	3.621	3.621
Manganese (Total)	mg/L	C_GW09	19/03/2017	3.425	3.425
Manganese (Total)	mg/L	C_GW09	15/05/2017	3.831	3.831
Manganese (Total)	mg/L	C_GW09	14/06/2017	4.463	4.463
pH (Field)		C_GW09	24/03/2015	5.53	5.53
pH (Field)		C_GW09	3/06/2015	5.63	5.63
pH (Field)		C_GW09	5/08/2015	5.58	5.58
pH (Field)		C_GW09	4/09/2015	5.43	5.43
pH (Field)		C_GW09	20/12/2015 15:35	5.4	5.4
pH (Field)		C_GW09	8/03/2016	5.62	5.62
pH (Field)		C_GW09	8/03/2016 16:55	5.62	5.62
pH (Field)		C_GW09	22/04/2016	5.4	5.4
pH (Field)		C_GW09	17/06/2016	5.27	5.27
pH (Field)		C_GW09	8/09/2016	5.5	5.5
pH (Field)		C_GW09	3/12/2016	5.27	5.27
pH (Field)		C_GW09	19/03/2017	5.25	5.25
pH (Field)		C_GW09	15/05/2017	5.13	5.13
pH (Lab)		C_GW09	24/03/2015	5.92	5.92
pH (Lab)		C_GW09	3/06/2015	5.79	5.79
pH (Lab)		C_GW09	5/08/2015	5.79	5.79
pH (Lab)		C_GW09	4/09/2015	5.75	5.75
pH (Lab)		C_GW09	20/12/2015	5.8	5.8
pH (Lab)		C_GW09	8/03/2016	5.67	5.67
pH (Lab)		C_GW09	22/04/2016	5.89	5.89
pH (Lab)		C_GW09	17/06/2016	5.9	5.9
pH (Lab)		C_GW09	8/09/2016	5.92	5.92
pH (Lab)		C_GW09	3/12/2016	6.02	6.02

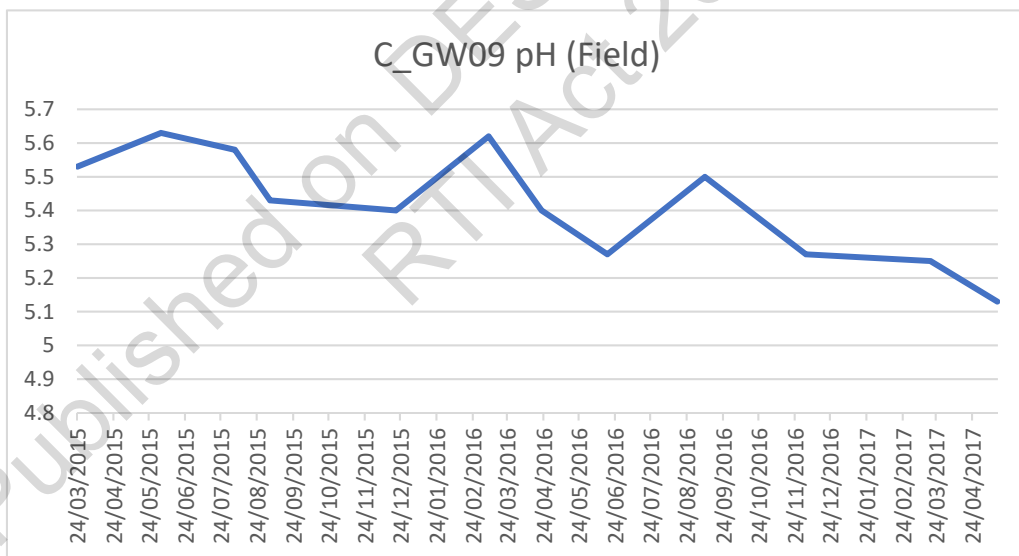
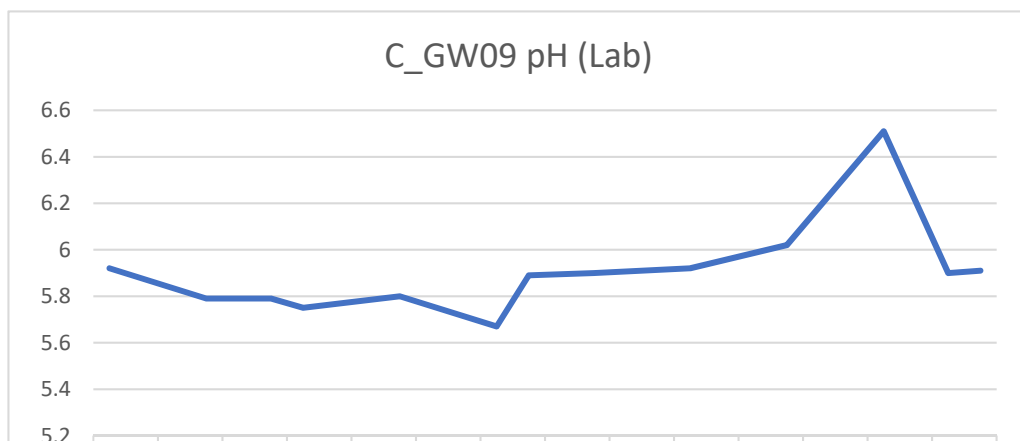
pH (Lab)		C_GW09	19/03/2017 6.51	6.51
pH (Lab)		C_GW09	15/05/2017 5.9	5.9
pH (Lab)		C_GW09	14/06/2017 5.91	5.91
Potassium (Soluble)	mg/L	C_GW09	24/03/2015 89.69	89.69
Potassium (Soluble)	mg/L	C_GW09	3/06/2015 91.63	91.63
Potassium (Soluble)	mg/L	C_GW09	5/08/2015 91	91
Potassium (Soluble)	mg/L	C_GW09	4/09/2015 92.42	92.42
Potassium (Soluble)	mg/L	C_GW09	20/12/2015 91.55	91.55
Potassium (Soluble)	mg/L	C_GW09	8/03/2016 88.27	88.27
Potassium (Soluble)	mg/L	C_GW09	22/04/2016 87.14	87.14
Potassium (Soluble)	mg/L	C_GW09	17/06/2016 86.56	86.56
Potassium (Soluble)	mg/L	C_GW09	8/09/2016 95.17	95.17
Potassium (Soluble)	mg/L	C_GW09	3/12/2016 95.89	95.89
Potassium (Soluble)	mg/L	C_GW09	19/03/2017 97.32	97.32
Potassium (Soluble)	mg/L	C_GW09	15/05/2017 98.96	98.96
Potassium (Soluble)	mg/L	C_GW09	14/06/2017 96.42	96.42
Potassium (Total)	mg/L	C_GW09	24/03/2015 NR	
Potassium (Total)	mg/L	C_GW09	3/06/2015 NR	
Potassium (Total)	mg/L	C_GW09	5/08/2015 93.61	93.61
Potassium (Total)	mg/L	C_GW09	4/09/2015 NR	
Potassium (Total)	mg/L	C_GW09	20/12/2015 NR	
Potassium (Total)	mg/L	C_GW09	8/03/2016 NR	
Potassium (Total)	mg/L	C_GW09	22/04/2016 88.93	88.93
Potassium (Total)	mg/L	C_GW09	17/06/2016 NR	
Potassium (Total)	mg/L	C_GW09	8/09/2016 NR	
Potassium (Total)	mg/L	C_GW09	3/12/2016 NR	
Potassium (Total)	mg/L	C_GW09	19/03/2017 NR	
Potassium (Total)	mg/L	C_GW09	15/05/2017 100.7	100.7
Potassium (Total)	mg/L	C_GW09	14/06/2017 NR	
Sodium (Soluble)	mg/L	C_GW09	24/03/2015 284.34	284.34
Sodium (Soluble)	mg/L	C_GW09	3/06/2015 288.78	288.78
Sodium (Soluble)	mg/L	C_GW09	5/08/2015 290.57	290.57
Sodium (Soluble)	mg/L	C_GW09	4/09/2015 294.39	294.39
Sodium (Soluble)	mg/L	C_GW09	20/12/2015 298.72	298.72
Sodium (Soluble)	mg/L	C_GW09	8/03/2016 287.5	287.5
Sodium (Soluble)	mg/L	C_GW09	22/04/2016 290.36	290.36
Sodium (Soluble)	mg/L	C_GW09	17/06/2016 288.05	288.05
Sodium (Soluble)	mg/L	C_GW09	8/09/2016 329.74	329.74
Sodium (Soluble)	mg/L	C_GW09	3/12/2016 320.68	320.68
Sodium (Soluble)	mg/L	C_GW09	19/03/2017 325.49	325.49
Sodium (Soluble)	mg/L	C_GW09	15/05/2017 339.37	339.37
Sodium (Soluble)	mg/L	C_GW09	14/06/2017 325.49	325.49
Sodium (Total)	mg/L	C_GW09	24/03/2015 NR	
Sodium (Total)	mg/L	C_GW09	3/06/2015 NR	
Sodium (Total)	mg/L	C_GW09	5/08/2015 296.72	296.72
Sodium (Total)	mg/L	C_GW09	4/09/2015 NR	
Sodium (Total)	mg/L	C_GW09	20/12/2015 NR	
Sodium (Total)	mg/L	C_GW09	8/03/2016 NR	
Sodium (Total)	mg/L	C_GW09	22/04/2016 291.41	291.41
Sodium (Total)	mg/L	C_GW09	17/06/2016 NR	
Sodium (Total)	mg/L	C_GW09	8/09/2016 NR	

Sodium (Total)	mg/L	C_GW09	3/12/2016 NR	
Sodium (Total)	mg/L	C_GW09	19/03/2017 NR	
Sodium (Total)	mg/L	C_GW09	15/05/2017	344.15
Sodium (Total)	mg/L	C_GW09	14/06/2017 NR	
Sulfate as SO4 (Dissolved)	mg/L	C_GW09	24/03/2015	1611.8
Sulfate as SO4 (Dissolved)	mg/L	C_GW09	3/06/2015	1584.21
Sulfate as SO4 (Dissolved)	mg/L	C_GW09	5/08/2015	1652.25
Sulfate as SO4 (Dissolved)	mg/L	C_GW09	4/09/2015	1525.83
Sulfate as SO4 (Dissolved)	mg/L	C_GW09	20/12/2015	1830.45
Sulfate as SO4 (Dissolved)	mg/L	C_GW09	8/03/2016	1727.07
Sulfate as SO4 (Dissolved)	mg/L	C_GW09	22/04/2016	1826.94
Sulfate as SO4 (Dissolved)	mg/L	C_GW09	17/06/2016	1748.37
Sulfate as SO4 (Dissolved)	mg/L	C_GW09	8/09/2016	2113.44
Sulfate as SO4 (Dissolved)	mg/L	C_GW09	3/12/2016	1968.57
Sulfate as SO4 (Dissolved)	mg/L	C_GW09	19/03/2017	1916.94
Sulfate as SO4 (Dissolved)	mg/L	C_GW09	15/05/2017	1901.46
Sulfate as SO4 (Dissolved)	mg/L	C_GW09	14/06/2017	2072.13
Sulfate as SO4 (Total)	mg/L	C_GW09	24/03/2015	1631.91
Sulfate as SO4 (Total)	mg/L	C_GW09	3/06/2015	1616.46
Sulfate as SO4 (Total)	mg/L	C_GW09	5/08/2015	1677.96
Sulfate as SO4 (Total)	mg/L	C_GW09	4/09/2015	1711.49
Sulfate as SO4 (Total)	mg/L	C_GW09	20/12/2015	1849.71
Sulfate as SO4 (Total)	mg/L	C_GW09	8/03/2016	1740.36
Sulfate as SO4 (Total)	mg/L	C_GW09	22/04/2016	1830.31
Sulfate as SO4 (Total)	mg/L	C_GW09	17/06/2016	1772.76
Sulfate as SO4 (Total)	mg/L	C_GW09	8/09/2016	2139.2
Sulfate as SO4 (Total)	mg/L	C_GW09	3/12/2016	2031.87
Sulfate as SO4 (Total)	mg/L	C_GW09	19/03/2017	1933.35
Sulfate as SO4 (Total)	mg/L	C_GW09	15/05/2017	1907.31
Sulfate as SO4 (Total)	mg/L	C_GW09	14/06/2017	2088.18
SWL	mbRP	C_GW09	24/03/2015	3.25
SWL	mbRP	C_GW09	31/03/2015	3.28
SWL	mbRP	C_GW09	12/04/2015	3.28
SWL	mbRP	C_GW09	5/05/2015	3.37
SWL	mbRP	C_GW09	3/06/2015	3.55
SWL	mbRP	C_GW09	1/07/2015	3.59
SWL	mbRP	C_GW09	5/08/2015	3.67
SWL	mbRP	C_GW09	11/08/2015	3.66
SWL	mbRP	C_GW09	4/09/2015	3.78
SWL	mbRP	C_GW09	14/10/2015	3.85
SWL	mbRP	C_GW09	20/12/2015 15:35	3.66
SWL	mbRP	C_GW09	8/03/2016	2.81
SWL	mbRP	C_GW09	8/03/2016 16:55	2.81
SWL	mbRP	C_GW09	21/04/2016	2.57
SWL	mbRP	C_GW09	22/04/2016	2.57
SWL	mbRP	C_GW09	14/05/2016	2.67
SWL	mbRP	C_GW09	2/06/2016	2.67
SWL	mbRP	C_GW09	17/06/2016	2.71
SWL	mbRP	C_GW09	15/07/2016	2.93
SWL	mbRP	C_GW09	13/08/2016	3.02
SWL	mbRP	C_GW09	8/09/2016	3.07

SWL	mbRP	C_GW09	26/09/2016 3.07	3.07
SWL	mbRP	C_GW09	8/10/2016 3.14	3.14
SWL	mbRP	C_GW09	4/11/2016 3.165	3.165
SWL	mbRP	C_GW09	3/12/2016 3.14	3.14
SWL	mbRP	C_GW09	18/12/2016 3.15	3.15
SWL	mbRP	C_GW09	28/01/2017 2.65	2.65
SWL	mbRP	C_GW09	20/02/2017 2.34	2.34
SWL	mbRP	C_GW09	19/03/2017 2.27	2.27
SWL	mbRP	C_GW09	22/03/2017 2.28	2.28
SWL	mbRP	C_GW09	13/04/2017 2.39	2.39
SWL	mbRP	C_GW09	15/05/2017 2.56	2.56
SWL	mbRP	C_GW09	12/06/2017 2.77	2.77
SWL	mbRP	C_GW09	17/07/2017 2.92	2.92
SWL	mbRP	C_GW09	10/08/2017 3.02	3.02
Total Dissolved Solids	mg/L	C_GW09	24/03/2015 2858	2858
Total Dissolved Solids	mg/L	C_GW09	3/06/2015 2876	2876
Total Dissolved Solids	mg/L	C_GW09	5/08/2015 2960	2960
Total Dissolved Solids	mg/L	C_GW09	4/09/2015 2916	2916
Total Dissolved Solids	mg/L	C_GW09	20/12/2015 2826	2826
Total Dissolved Solids	mg/L	C_GW09	8/03/2016 2780	2780
Total Dissolved Solids	mg/L	C_GW09	22/04/2016 2764	2764
Total Dissolved Solids	mg/L	C_GW09	17/06/2016 2742	2742
Total Dissolved Solids	mg/L	C_GW09	8/09/2016 3168	3168
Total Dissolved Solids	mg/L	C_GW09	3/12/2016 3174	3174
Total Dissolved Solids	mg/L	C_GW09	19/03/2017 2884	2884
Total Dissolved Solids	mg/L	C_GW09	15/05/2017 3104	3104
Total Dissolved Solids	mg/L	C_GW09	14/06/2017 3050	3050
Total Suspended Solids	mg/L	C_GW09	24/03/2015 9	9
Total Suspended Solids	mg/L	C_GW09	3/06/2015 4	4
Total Suspended Solids	mg/L	C_GW09	5/08/2015 7	7
Total Suspended Solids	mg/L	C_GW09	4/09/2015 17	17
Total Suspended Solids	mg/L	C_GW09	20/12/2015 14	14
Total Suspended Solids	mg/L	C_GW09	8/03/2016 13	13
Total Suspended Solids	mg/L	C_GW09	22/04/2016 4	4
Total Suspended Solids	mg/L	C_GW09	17/06/2016 7	7
Total Suspended Solids	mg/L	C_GW09	8/09/2016 4	4
Total Suspended Solids	mg/L	C_GW09	3/12/2016 20	20
Total Suspended Solids	mg/L	C_GW09	19/03/2017 27	27
Total Suspended Solids	mg/L	C_GW09	15/05/2017 27	27
Total Suspended Solids	mg/L	C_GW09	14/06/2017 9	9
Turbidity (Field)	NTU	C_GW09	24/03/2015 3.41	3.41
Turbidity (Field)	NTU	C_GW09	3/06/2015 0.4	0.4
Turbidity (Field)	NTU	C_GW09	5/08/2015 2.62	2.62
Turbidity (Field)	NTU	C_GW09	4/09/2015 4.32	4.32
Turbidity (Field)	NTU	C_GW09	20/12/2015 15:35 15.78	15.78
Turbidity (Field)	NTU	C_GW09	8/03/2016 7.52	7.52
Turbidity (Field)	NTU	C_GW09	8/03/2016 16:55 7.52	7.52
Turbidity (Field)	NTU	C_GW09	22/04/2016 1.84	1.84
Turbidity (Field)	NTU	C_GW09	17/06/2016 7.17	7.17
Turbidity (Field)	NTU	C_GW09	8/09/2016 1.7	1.7
Turbidity (Field)	NTU	C_GW09	3/12/2016 13	13

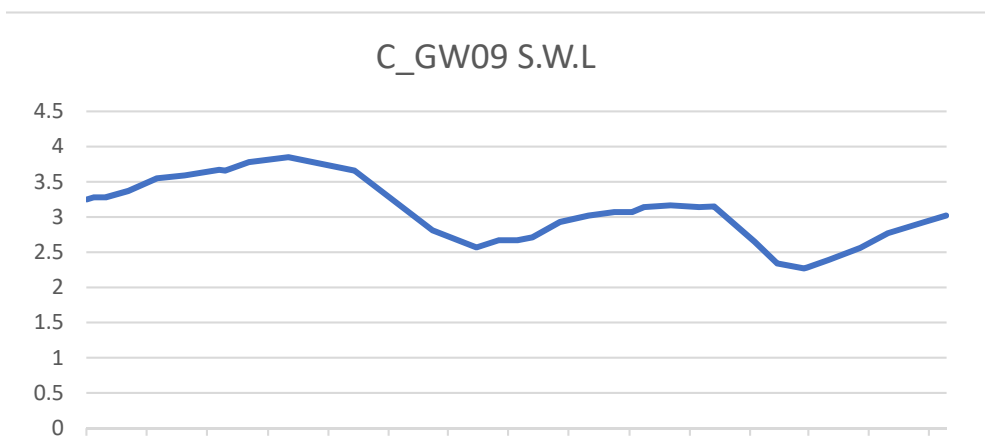
Turbidity (Field)	NTU	C_GW09	19/03/2017 12.42	12.42
Turbidity (Field)	NTU	C_GW09	15/05/2017 13.73	13.73
Turbidity (Lab)	NTU	C_GW09	24/03/2015 13.1	13.1
Turbidity (Lab)	NTU	C_GW09	3/06/2015 13	13
Turbidity (Lab)	NTU	C_GW09	5/08/2015 8.72	8.72
Turbidity (Lab)	NTU	C_GW09	4/09/2015 72.1	72.1
Turbidity (Lab)	NTU	C_GW09	20/12/2015 29.5	29.5
Turbidity (Lab)	NTU	C_GW09	8/03/2016 82.3	82.3
Turbidity (Lab)	NTU	C_GW09	22/04/2016 20	20
Turbidity (Lab)	NTU	C_GW09	17/06/2016 29.3	29.3
Turbidity (Lab)	NTU	C_GW09	8/09/2016 5.28	5.28
Turbidity (Lab)	NTU	C_GW09	3/12/2016 11	11
Turbidity (Lab)	NTU	C_GW09	19/03/2017 37.8	37.8
Turbidity (Lab)	NTU	C_GW09	15/05/2017 28	28
Turbidity (Lab)	NTU	C_GW09	14/06/2017 18	18
Zinc (Soluble)	mg/L	C_GW09	24/03/2015 0.1	0.1
Zinc (Soluble)	mg/L	C_GW09	3/06/2015 0.131	0.131
Zinc (Soluble)	mg/L	C_GW09	5/08/2015 0.12	0.12
Zinc (Soluble)	mg/L	C_GW09	4/09/2015 0.124	0.124
Zinc (Soluble)	mg/L	C_GW09	20/12/2015 0.129	0.129
Zinc (Soluble)	mg/L	C_GW09	8/03/2016 0.122	0.122
Zinc (Soluble)	mg/L	C_GW09	22/04/2016 0.137	0.137
Zinc (Soluble)	mg/L	C_GW09	17/06/2016 0.134	0.134
Zinc (Soluble)	mg/L	C_GW09	8/09/2016 0.088	0.088
Zinc (Soluble)	mg/L	C_GW09	3/12/2016 0.107	0.107
Zinc (Soluble)	mg/L	C_GW09	19/03/2017 0.097	0.097
Zinc (Soluble)	mg/L	C_GW09	15/05/2017 0.135	0.135
Zinc (Soluble)	mg/L	C_GW09	14/06/2017 0.147	0.147
Zinc (Total)	mg/L	C_GW09	24/03/2015 0.1	0.1
Zinc (Total)	mg/L	C_GW09	3/06/2015 0.133	0.133
Zinc (Total)	mg/L	C_GW09	5/08/2015 0.122	0.122
Zinc (Total)	mg/L	C_GW09	4/09/2015 0.126	0.126
Zinc (Total)	mg/L	C_GW09	20/12/2015 0.137	0.137
Zinc (Total)	mg/L	C_GW09	8/03/2016 0.125	0.125
Zinc (Total)	mg/L	C_GW09	22/04/2016 0.147	0.147
Zinc (Total)	mg/L	C_GW09	17/06/2016 0.169	0.169
Zinc (Total)	mg/L	C_GW09	8/09/2016 0.089	0.089
Zinc (Total)	mg/L	C_GW09	3/12/2016 0.113	0.113
Zinc (Total)	mg/L	C_GW09	19/03/2017 0.114	0.114
Zinc (Total)	mg/L	C_GW09	15/05/2017 0.157	0.157
Zinc (Total)	mg/L	C_GW09	14/06/2017 0.156	0.156

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1/03/2015	1/05/2015	1/07/2015	1/09/2015	1/11/2015	1/01/2016	1/03/2016	1/05/2016	1/07/2016	1/09/2016	1/11/2016	1/01/2017	1/03/2017	1/05/2017
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24/03/2015
24/05/2015
24/07/2015
24/09/2015
24/11/2015
24/01/2016
24/03/2016
24/05/2016
24/07/2016
24/09/2016
24/11/2016
24/01/2017
24/03/2017
24/05/2017
24/07/2017

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RTI Act 2009

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GroundwatB_GW01	12/05/2014	H2O Initially dark grey but lightens up to clear H2O. Draws down to 52m so 70m tubing was used and so > 12.6L was purged before sampling to clean tube									
GroundwatB_GW01	4/07/2014	20:10	. Pump set at 58m. First water dark grey								
GroundwatB_GW01	6/07/2014		442				0.01	0.01	NR		10.2717 < 0.0001
GroundwatB_GW01	8/10/2014	20:10	100 psi. Pump set at 55, slc	NR			0.005	0.006	NR		10.4981 < 0.0001
GroundwatB_GW01	5/12/2014	20 / 10.	100 psi. Pump set at 58m	NR			0.005	0.007	NR		9.8349 < 0.0001
GroundwatB_GW01	27/03/2015		468	NR			0.003	0.01	NR		9.796 < 0.0001
GroundwatB_GW01	16/06/2015										
GroundwatB_GW01	17/06/2015		430	NR			0.004	0.005	NR		9.6185 < 0.0001
GroundwatB_GW01	3/09/2015		455	NR			0.005	0.011	NR		9.9985 < 0.0001
GroundwatB_GW01	25/12/2015		452	NR			0.002	0.009	NR		8.6661 < 0.0001
GroundwatB_GW01	25/12/2015 15:30										
GroundwatB_GW01	9/03/2016		456	NR			0.004	0.004	NR		9.5736 < 0.0001
GroundwatB_GW01	9/03/2016 10:50										
GroundwatB_GW01	25/04/2016										
GroundwatB_GW01	18/06/2016		452	NR	NR	NR	0.004	0.004	NR	NR	9.5397 < 0.0001
GroundwatB_GW01	9/09/2016		452	NR	NR	NR	0.003	0.003	NR	NR	9.9316 < 0.0001
GroundwatB_GW01	4/12/2016		460	NR	NR	NR	0.006	0.006	NR	NR	9.8598 0.0001
GroundwatB_GW01	17/03/2017		460	NR	NR	NR	0.003	0.004	NR	NR	10.0054 < 0.0001
GroundwatB_GW01	21/04/2017										
GroundwatB_GW01	13/06/2017		456	NR	NR	NR	0.004	0.005	NR	NR	10.2877 < 0.0001
GroundwatB_GW01	7/09/2017		452	NR	NR	NR	0.002	0.003	NR	NR	9.2884 0.0001
GroundwatB_GW01	2/10/2017										
GroundwatB_GW01	1/12/2017		470				0.006	0.013			9.9725 < 0.0001
GroundwatB_GW01	20/03/2018		460				0.01	0.019			9.6734 < 0.0001
GroundwatB_GW01	15/04/2018										
GroundwatB_GW01	11/06/2018		470				0.003	0.005			9.5736 < 0.0005
GroundwatB_GW01	1/09/2018		460	0.009			0.006	0.017		2.4	9.6734 < 0.0001
GroundwatB_GW01	24/12/2018		470				0.006	0.005			9.1747 < 0.0001
GroundwatC_GW01	1/11/2003	Quarterly reading									
GroundwatC_GW01	30/11/2003	Use bailer;	27	555	555		0.001	0.003		3	< 0.0001
GroundwatC_GW01	25/03/2004	Automatic;	10	614	614 <1				0.053	---	3.2
GroundwatC_GW01	5/05/2004										
GroundwatC_GW01	24/05/2004										
GroundwatC_GW01	1/07/2004										
GroundwatC_GW01	23/07/2004	Automatic;	91	623	623 <1	55.3	0.05		0.7 ---	< 0.01	5
GroundwatC_GW01	1/08/2004										
GroundwatC_GW01	22/09/2004										
GroundwatC_GW01	1/10/2004										
GroundwatC_GW01	1/11/2004										
GroundwatC_GW01	7/11/2004	Automatic;	76	590	590 <1		< 0.01		---		5
GroundwatC_GW01	23/11/2004										
GroundwatC_GW01	24/12/2004										
GroundwatC_GW01	1/02/2005										
GroundwatC_GW01	1/03/2005	Quarterly reading									
GroundwatC_GW01	2/03/2005	Automatic;	82	595	595 <1				---		52.1
GroundwatC_GW01	24/03/2005										
GroundwatC_GW01	22/04/2005										
GroundwatC_GW01	30/05/2005	ENV-	80	583	583 <1			0.001			0.2
GroundwatC_GW01	31/05/2005										
GroundwatC_GW01	30/06/2005										
GroundwatC_GW01	25/07/2005										
GroundwatC_GW01	24/08/2005										
GroundwatC_GW01	1/10/2005										
GroundwatC_GW01	6/12/2005										
GroundwatC_GW01	6/01/2006										
GroundwatC_GW01	8/05/2006										
GroundwatC_GW01	16/06/2006										
GroundwatC_GW01	25/07/2006										
GroundwatC_GW01	1/11/2006										
GroundwatC_GW01	30/11/2006	ENV-06-10	74	646	646	-1	-0.01	-0.01		-2	-5
GroundwatC_GW01	8/02/2007										
GroundwatC_GW01	8/02/2007 12:00										

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ID	Date	Description	DW09	DW09	DW09	DW09	DW09	DW09	DW09	DW09	DW09
GroundwatC_GW09	2/09/2017										
GroundwatC_GW09	6/09/2017		20	<0.005	<0.005	NR	0.007	0.007	NR	0.451	0.521 15.611 0.0001
GroundwatC_GW09	1/10/2017										
GroundwatC_GW09	3/11/2017										
GroundwatC_GW09	2/12/2017		53	0.009	0.022		0.007	0.006		0.44	0.47 14.9588 <0.0001
GroundwatC_GW09	23/12/2017										
GroundwatC_GW09	22/01/2018										
GroundwatC_GW09	19/02/2018										
GroundwatC_GW09	17/03/2018										
GroundwatC_GW09	21/03/2018		60	0.012	0.028		<0.003	0.005		0.48	0.48 14.9588 0.0005
GroundwatC_GW09	13/04/2018										
GroundwatC_GW09	12/05/2018										
GroundwatC_GW09	11/06/2018		55	0.015	0.03		0.006	0.006		0.49	0.49 14.9588 <0.0005
GroundwatC_GW09	13/07/2018										
GroundwatC_GW09	4/08/2018										
GroundwatC_GW09	5/08/2018		50	0.016	0.022		0.006	0.005		0.46	0.47 14.9588 0.0005
GroundwatC_GW09	2/09/2018		53	0.017	0.016		0.006	0.006		0.46	0.47 14.9588 0.0007
GroundwatC_GW09	6/09/2018										
GroundwatC_GW09	29/10/2018										
GroundwatC_GW09	24/11/2018										
GroundwatC_GW09	23/12/2018										
GroundwatC_GW09	25/12/2018		54	0.026	0.041		0.005	0.007		0.49	0.54 13.9615 0.0006
GroundwatC_GW09	19/01/2019										
GroundwatP_GW31	21/11/2012	depth greater than 150m.									
GroundwatP_GW31	22/06/2013	no sapling undertaken as screen depth is 145m and current equipment not capable of sampling at that depth.									
GroundwatP_GW31	26/10/2013	used nitrogen gas bottle instead c	906				<0.003	0.02	NR		<0.0001 0.1
GroundwatP_GW31	30/01/2014	Automatically converted from val	972				0.002	0.002	NR		<0.0001 0.1
GroundwatP_GW31	13/04/2014	Automatically converted from val	892				0.002	0.002	NR		11.6389 <0.0005 0.5
GroundwatP_GW31	13/05/2014	Insitu pump at ~120m - known to pump at screen. *Note PVC tape was used to secure tubing. Small tubing was used to attach to insitu pump however because of spurting needed to secure with PVC tape. Bubbly / soapy groundwater from initial pumping as well									
GroundwatP_GW31	5/07/2014	20:10. 65 psi. First water clear wit	954				0.002	0.002	NR		13.4659 < 0.0001
GroundwatP_GW31	10/10/2014	20:10 60 psi. Try 40:20 next samp	928		NR		0.002	0.002	NR		14.0872 < 0.0001
GroundwatP_GW31	4/12/2014	20:10 65 psi. After pumping was 2	916		NR		<0.0005	0.001	NR		14.0413 <0.0001
GroundwatP_GW31	28/03/2015		1006		NR		0.001	0.002	NR		13.8179 < 0.0001
GroundwatP_GW31	3/06/2015		994		NR		0.002	0.002	NR		14.1789 <0.0001
GroundwatP_GW31	3/09/2015		892		NR		< 0.001	< 0.001	NR		15.1044 < 0.0001
GroundwatP_GW31	29/10/2015										
GroundwatP_GW31	31/12/2015		936		NR		<0.0005	<0.0005	NR		14.7304 <0.0001
GroundwatP_GW31	31/12/2015 9:15										
GroundwatP_GW31	10/03/2016		932		NR		0.001	0.002	NR		14.8431 <0.0001
GroundwatP_GW31	10/03/2016 13:30										
GroundwatP_GW31	18/06/2016		908	NR	NR	NR	0.002	0.002	NR	NR	NR 14.513 <0.0001

[illegible]

GroundwatP_GW15	3/12/2016	288	NR	NR	NR	0.021	0.025	NR		NR	NR	25.1886	<0.0001
GroundwatP_GW15	18/03/2017	168	NR	NR	NR	<0.0005	0.003	NR	NR	NR	NR	18.6815	<0.0001
GroundwatP_GW15	20/03/2017	228	NR	NR	NR	<0.0005	<0.0005	NR	NR	NR	NR	30.9368	<0.0001
GroundwatP_GW15	21/04/2017												
GroundwatP_GW15	13/06/2017	192	NR	NR	NR	0.009	0.009	NR		NR	NR	21.2206	<0.0001
GroundwatP_GW15	5/09/2017	172	NR	NR	NR	0.005	0.006	NR		NR	NR	17.4779	<0.0001
GroundwatP_GW15	30/09/2017												
GroundwatP_GW15	1/12/2017	210				0.005	0.005					22.9368	0.0004
GroundwatP_GW15	20/03/2018	190				0.004	0.004					16.9533	0.0001
GroundwatP_GW15	15/04/2018												
GroundwatP_GW15	10/06/2018	160				0.002	0.002					21.9396	<0.0005
GroundwatP_GW15	1/09/2018	160	0.008			<0.003	<0.003			0.078		17.9506	0.0003
GroundwatP_GW15	29/11/2018												
GroundwatP_GW15	24/12/2018	150				<0.003	<0.003					18.9478	0.0001
GroundwatP_GW32	26/12/2018												
GroundwatP_GW32	29/12/2018	490				<0.003	<0.003						<0.0001
GroundwatP_GW32	21/01/2019												
GroundwatP_GW33	26/12/2018	470				<0.003	<0.003						<0.0001
GroundwatP_GW33	29/12/2018												
GroundwatP_GW33	21/01/2019												

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Cadmium (Calcium (Sr Calcium (Tr Carbonate Chloride (n Chloride (S Chromium Cobalt (Sol Cobalt (Tot Copper (Eff Copper (So Copper (To Cyanide (Tr Cyanide W.Dissolved C DO (Field) (EC (Field) (EC (Lab) (i EC (Lab) (m Ethylbenze Field Note: Fluoride (S Fluoride (T Free Chlori H/30

0.0003	398.82	23		<0.001	0.009	<0.004	0.904	0.957 NR		
<0.0005	62.02 NR	20		0.0001 <0.001	0.001	<0.004	0.788	0.768 NR		12.9314
< 0.0001	63 NR	10.6		0.0001 < 0.001	< 0.001	<0.004	0.753	0.773 NR	0.21	13.326
<0.0001	71.13 NR	9.1		0.0001 <0.0005	<0.0005	<0.004	0.83	0.785 NR	NR	13.3333
< 0.0001	70.1 NR	9.1		0.0001 < 0.0005	< 0.0005	<0.004	0.796	0.78 NR	Orange tinge to water NR	13.3333
<0.0001	75.21 NR	7.9		0.0001 <0.0005	<0.0005	<0.004	0.757	0.877 NR	cannot measure SWL i NR	13.3333
<0.0001	81.97 NR	7.2		0.0001 <0.0005	<0.0005	<0.004	0.794	0.749 NR	yellow colour to water NR	13.3333
									Insitu	
<0.0001	68.23 NR	8.9		0.0001 <0.0005	<0.0005	<0.004		0.799 NR	NR	13.1134
							0.75			
<0.0001	77.85 NR	10		0.0001 <0.0005	<0.0005	<0.005	0.805	0.845 NR	Bad egg smell. Turbid j NR	13.3333
							0.805		Bad egg smell, turbid, gray look to water. 210 psi 40:20 R	
<0.0001	78.3 NR	6		0.0001 <0.0005	<0.0005	<0.005	0.82	0.83 NR	water turb NR	13.3333
<0.0001	84.36 NR	10		0.0001 <0.0005	<0.0005	<0.005	0.868	0.825 NR	40:20 220F NR	13.3333
<0.0001	83.99 NR	8		0.0001 <0.0005	<0.0005	<0.005	0.79	0.831 NR	40:20. 220i NR	13.3333
<0.0001	86.95 NR	7		0.0001 <0.0005	<0.0005	<0.005	0.871	0.83 NR	40:20. 210i NR	13.3333
<0.0001	88.21 NR	10		0.0001 <0.0005	<0.0005	<0.005	0.847	0.839 NR	water clear NR	13.3333
<0.0001	83.08 NR	6		0.0001 <0.001	<0.001	<0.005	0.87	0.832 NR	40:20. 220i NR	13.3333
<0.0001	95	5		0.0001 <0.001	<0.001	<0.004	825	860	40:20, 220psi	13.3333
	damaged pump.								No sample taken on the 21st due to equipment failure (k	
									No sample taken. Pump still down for repairs.	
0.0002	86	7		0.0001 <0.001	<0.001	<0.004		850		13.3333
<0.0001	84	6		0.0001 <0.001	<0.001	<0.004	851	840	water clear with slight yellowy/orange tinge	13.3333
	0.0017				0.01	0.004				
								1.15		
<0.005	97		0.01	0.02	0.02				---	
							28			
							32.9	0.513		
0.03		0.1	<0.01		<0.01			0.557		
							31.6	1.083		
0.0027					0.033			0.985 ---		
<0.0001	89	59			<0.001	0.015		1.228	1.1	
								1.374		
0.0008	114	52	0.014	0.011	0.012			1.3		

0.0002	111	47						0.005		1..294		1.31	
0.0015	110	65						0.001				1.46	
0.003	110	56.98	0.008	0.009				0.018				1.31	
0.005	66.41	55.8	0.002	0.028				0.04				1.35	11.6
NR	NR	NR					NR	NR				1.35	NA
0.006	104.3	41.41						0.022	<0.004	0.58	1.384	1.457	NA
										NR	NR		
0.002	94.33	<0.1	60.6	NR	NULL	NR	0.003	NA	<0.004			1.431	NA
0.002	121.1	<0.1	63.7	NR	NA	<0.002	0.004	NA	<0.004			1.4	NA
0.001	NR		NR	NR	<0.002		0.002	NA	<0.004		0.42	1.05	NA
<0.001	100.63	60.6	NR			<0.002	<0.002	NR	<0.004			1.25	NR
<0.001	86.7	63	NR		NULL	<0.002	0.005	NR	<0.004	4.25	1.39	1.27	NR
<0.001	87.11	62.9	NR			<0.002	0.006	NR	NR		1.3	1.244	NR
<0.001	NR	325.52	63	NR	NULL	<0.002	<0.002	NR	<0.004		1.132	1.43	NR
<0.001	NR	83.08	60.62	NR	NULL		0.002	0.003	NR	<0.004		1.411	NR
<0.001	NR	113.96	56.96	NR	NULL	<0.002	<0.002	NR	<0.004		2.93	1.58	NR
<0.001	NR	372.34	58.1	NR	NULL	0.01	0.01	NR	<0.004		1.63	1.41	NR
<0.001	92.1.0	66.7	NR	NR	NULL	<0.002	0.002	NR	<0.004		1.5	1.42	NR
<0.001	118.7	61.8	NR			0.0002	0.002	0.008	NR	<0.004	7.2	1.445	NR
0.0002	111.71	58.8	NR			0.0007	0.006	0.009	NR	<0.004		1.519	NR
<0.0005	104.95	65.5	NR			0.0009	0.008	0.011	NR	<0.004		1.45	NR
<0.0005	123.77	61.8	NR			0.0006	0.005	0.009	NR	<0.004		1.5	NR
<0.0005	86.96	63	NR			0.0003	0.003	0.003	NR	<0.004		1.51	NR
<0.0001	107.15	69					0.002	0.002	<0.004		1.44	1.442	NR
											1.52		

-0.005	365	40	0.02	-0.01	0.02					4.5		
-0.0001	340	40			-0.001				4.38	4.33		
0.0005	359	49			-0.001					4.18		
0.001	365	54.56	0.01	0.006	0.007				4.32	4.49		
								0.67	3.08			
0.005	323.8	45.5			0.033	<0.004			4.28	3.79 NA		
0.003	238.9	25.33			0.021	<0.004			3.08	3.4 NA		
0.002	403.2	151.5			<0.002	<0.004		0.61	4.72			
0.191	461.5	36.4			0.017	<0.004		1.01	4.41	4.61		
0.003	395.8	42.4			0.002	0.009	<0.004	0.3	4.02	4.76		
0.001	379.5 <0.1	48.5	NR	NULL	NR	0.007 NA	<0.004			4.56 NA		
0.001	403.1 <0.1	48.5	NR	NA	<0.002	0.006 NA	<0.004			4.79 NA		
0.002	NR	NR	NR	<0.002		0.022 NA	<0.004		4.18	3.95 NA		
<0.001	302.42	60.6	NR		<0.002	<0.002	NR	<0.004		4.17 NR		
<0.001	317.31	53.9	NR	NULL	<0.002	<0.002	NR	<0.004	5.31	4.38	4.29 NR	
<0.001	335.11	54.6	NR		<0.002	<0.002	NR	NR		4.72	4.54 NR	
<0.001	NR	98.06	52.1	NR	NULL	<0.002	<0.002	NR	<0.004	3.714	4.75 NR	NULL
<0.001	NR	285.56	44.61	NR	NULL	0.009	0.01	NR	<0.004	4.74	4.58 NR	NULL
<0.001	NR	288.49	44.86	NR	NULL	0.006	0.01	NR	<0.004	4.62	5.36 NR	NULL
<0.001	NR	93.63	43.88	NR	NULL	0.002	0.002	NR	<0.004		4.45 NR	NULL
<0.001	406	63	NR		0.0004	0.004	0.006	NR	<0.004	1	4.94	
										4.7	4.55 NR	13.3333
<0.001	339.16	49.7	NR		0.0009	0.008	0.154	NR	<0.004	1.8	4.8	4.64 NR
0.0001	271.07	42.4	NR		0.0009	0.008	0.012	NR	<0.004		4.9	4.39 NR
<0.0005	241.89	54.6	NR		0.0012	0.011	0.018	NR	<0.004		4.66	4.52 NR
<0.0005	357.85	52.1	NR		0.0014	0.013	0.018	NR	<0.004		4.6	4.65 NR

<0.0005	102.54	46	NR	0.0013	0.012	0.013 NR	<0.004	4.65	4.61 NR	13.3333
<0.0001	315.29	48			0.009	0.012	<0.004	4.64	4.62 NR	
<0.0001	362.86	52			0.006	0.011	<0.004	4.61	4.71 NR	
<0.0005	319.76 NR	50		0.001	0.009	0.011	<0.004	4.69	4.73 NR	13.3333
<0.0001	343.02 NR	50		0.0015	0.014	0.088	<0.004	4.67	4.73 NR	13.3333
<0.0001	370.11 NR	44		0.0001 <0.001	0.01		<0.004	4.56	4.97 NR	13.3333
<0.0001	384.05 NR	42.1		0.0004	0.004	0.005	<0.004	4.82	4.809 NR	13.3333
<0.0001	294.82 320.65	41		0.0001 <0.0005	<0.0005		NR	4.66	4.88 NR	13.3333
<0.0001	319.72 NR	48.2		0.0001	0.001	0.002	<0.004	5.54	4.83 NR	13.3333
0.0003	339.62 NR	41.7		0.0003	0.003	0.004	<0.004	4.8	4.654 NR	13.3333
<0.0001	381.24 NR	43.7		0.0031	0.028	0.028	<0.004	4.33	4.632 NR	13.3333
<0.0001	370.03 NR	48		0.0003	0.003	0.003	<0.004		4.747 NR	13.3333
<0.0001	354.51 NR	50		0.0001	0.001	0.007	<0.005	4.986	4.844 NR	13.3333
								4.57		
								4.57		
								4.71		
<0.0001	319.86 NR	40.1		0.0001 <0.0005	0.002		<0.005		4.8 NR	13.3333
<0.0001	362.56 NR	52.5		0.0001	0.001	0.001	<0.005	4.7	4.739 NR	13.3333
<0.0001	380.62 NR	50		0.0001 <0.0005	0.001		<0.005	4.46	4.842 NR	13.3333
0.0007	390.05 NR	53		0.0027	0.024	0.028	<0.005	4.88	4.883 NR	13.3333
<0.0001	366.59 NR	50		0.0014	0.013	0.019	<0.005	3.55	4.903 NR	13.3333
0.0001	361.65 NR	50		0.0004	0.004	0.004	<0.005	4.64	3.612 NR	13.3333
<0.0002	370	41		0.0002	0.002	<0.002	<0.004	4.48	4800	13.3333
<0.0001	330	45		0.0001 <0.001	<0.001		<0.004	4560	4800	13.3333
<0.0005	340	48		0.0001 <0.001	<0.001		<0.004	4740	4800	13.3333
0.0001	340	46		0.0001 <0.001	0.002		<0.004		4800	13.3333
<0.001	50	30			0.003	0.043			1.05	
	168	92	<0.001	0.105		0.006	<0.0004	3.33	3.11	
0.0002	170		---	---		290		3.33	3.11	
									4.13	
									3.8	
<0.005	173		<0.01	0.1		<0.01		33	4.05	---
<0.005			<0.01	0.1		<0.01	0.004	33.1	4.08	3.76 ---
0.0001						<0.001	0.004	32.5	4.29	3.3 ---
<0.0001	153	225				0.002	---	4	3.79	

0.0001	171					0.001	<0.004			3.85	0.993
<0.005	144	210	<0.01	0.09			<0.004			3.91	3.64
0.0002	164	237				<0.001					4.12
0.0001	174	175				-0.001				3.71	3.87
-0.0001	165	221				0.001					2.83
0.001										3.65	3.77
0.003	212.3	200				0.025	<0.004			3.87	4.21 NA
0.003	172.3	228.18				0.011	<0.004			3.97	4.12 NA
								0.36		3.97	
0.002	212.4	394				0.003	<0.004				
								0.17		4.26	
0.003	177.8	160.6				0.004	<0.004	0.34		2.76	3.27
0.001	146.6 <0.1	197	NR	NR	NR	0.004 NA	<0.004				3.75 NA
0.001	162.1 <0.1	187.9	NR	NA	<0.002	0.003 NA	<0.004				3.86 NA
0.001	NR	NR	NR	0.002		0.01 NA	<0.004			3.95	3.3 NA
<0.001	166.76	213.5	NR		<0.002	<0.002	NR	<0.004			4.02 NR
<0.001	157.09	201.3	NR	NULL	<0.002	<0.002	NR	<0.004	0.19	3.91	3.78 NR
<0.001	140.45	174	NR			0.003	0.004 NR	NR		3.68	3.66 NR
<0.001	NR	149.5	218.2	NR	NULL	<0.002	<0.002	NR	<0.004	3.022	4.34 NR
<0.001	NR	122.61	195.19	NR	NULL	0.01	0.01 NR	<0.004		3.84	3.71 NR
											NULL

<0.001	NR	139.56	192.77	NR	NULL	0.006	0.006 NR	<0.004		3.79	4.59 NR	NULL
<0.001	NR	154.5	189.13	NR	NULL	0.008	0.008 NR	<0.004			3.69 NR	NULL
<0.001	162		179.4	NR	0.0004	0.004	0.004 NR	<0.004	1	3.98		
<0.001	138.27		254.6	NR	0.0007	0.006	0.006 NR	<0.004	1.3	3.5	3.52 NR	13.3333
<0.001	200.75		175.2	NR	NR		0.004 NR	<0.004	6.7	3.45		13.3333
										3.4	5.52	13.3333
										3.04		
										3.4		
										3.4		
										3.4		
										3		
0.0747	246.96		83.7	NR	0.0013	0.012	0.014 NR	<0.004		3.5	4.15 NR	13.3333
<0.0005	121.91		184.9		0.0014	0.01	0.013 NR	NR			NR	10.147
<0.0005	97.03		186.7	NR	0.0001	0.001	0.014 NR	<0.004		3.48	3.33 NR	13.3333
<0.0005	142.34		184.3	NR	0.0014	0.013	0.017 NR	<0.004		3.6	3.43 NR	13.3333
<0.0005	132.93		180.9	NR	0.0011	0.01	0.01 NR	<0.004		3.4	3.37 NR	13.3333
<0.0001		134.88	191.9			0.009	0.009	<0.004			3.34 NR	
										3.38		
<0.0005	NR		185.9			0.006	0.008	<0.004		3.25	3.4 NR	
<0.0005	118.28 NR		175.9		0.0006	0.005	0.007	<0.004		3.2	3.34 NR	13.3333
										3.53		
<0.0001	131.77 NR		175.9		0.001	0.009	0.076	<0.004		3.23	3.29 NR	13.3333
<0.0005	121.77 NR		177.9		0.0008	0.007	0.013	<0.004		3.44	3.391 NR	13.3333
<0.0001	146.29 NR		176.4		0.0001 <0.001		0.01	<0.004		3.47	3.596 NR	13.3333
<0.0001	135.78 NR		171.4		0.0004	0.004	0.005	<0.004		3.45	3.464 NR	13.3333
											NR	0.95
<0.0001	119.47	129.12	163.2		0.0003	0.003	0.003	NR		3.5	3.52 NR	13.3333
<0.0001	129.42 NR		192.3		0.0001 <0.0005		0.002	<0.004		3.41	3.46 NR	13.3333
											10:5. 30 PSI. Pump se	NR
<0.0001	134.38 NR		171.6		0.0002	0.002	0.002	<0.004		3.41	3.373 NR	13.3333
	0.0002	132.56	136.52		0.0001 <0.0005	<0.0005		NR		3.35	3.382 NR	13.3333
	0.0001	135.03 NR	151.1		0.0001 <0.001	<0.001		<0.004		3.17	3.241 NR	13.3333
	0.0007	141.66 NR	183.9		0.0004	0.004	0.004	<0.004			3.342 NR	13.3333
<0.0001	133.48 NR		181.9		0.0001 <0.0005	<0.0005		<0.005		3.536	10:5, 50 psi clear water. Remark	in enviro GPS. End SM
										3.18	3.381 NR	13.3333
										3.18	logger	
0.0001	134.59	134.62	175.9		0.0002	0.002	0.002	NR		3.29	3.295 NR	13.3333
											10:5 30PSI	1.03
<0.0001	127.14 NR		155.2		0.0001 <0.0005		0.001	<0.005		3.21	3.35 NR	13.3333
											0.98	1.16
<0.0001	157.04 NR		202.4		0.0001 <0.0005	<0.0005		<0.005		3.66	3.61 NR	13.3333
											done as pa	0.67
											1.08	
<0.0001	154.04 NR		197.9		0.0001 <0.0005	<0.0005		<0.005		3.22	3.805 NR	13.3333
											10:5. 45psi	1.08
											1.11	
0.0004	148.62 NR		190.9		0.001	0.009	0.01	<0.005		3.5	3.528 NR	13.3333
											10:5. 45psi	0.69
											1.11	

<0.0001	165.73	169.51	200.9	0.0001	<0.001	<0.001	NR	3.5	3.526 NR	10:5, 45 ps	1.15	1.16	13.3333
<0.0001	158.49 NR		204.9	0.0006	0.005	0.01	<0.005	3.55	3.666 NR	water clear	0.69	0.96	13.3333
0.0002	156.54 NR		206	0.0002	0.002	0.003	<0.005	3.51	3.734 NR	10:5. 50psi NR		1.17	13.3333
<0.0001	150		180	0.0001	<0.001	<0.001	<0.004	3.37	3700	10:15, 50psu, pump se	0.5		13.3333
0.0005	150		180	0.0003	0.003	0.003	<0.004	3360	3600		0.5		13.3333
<0.0005	150		190	0.0001	<0.001	<0.001	<0.004	3620	3700	water clear but leaves	0.5		13.3333
0.0007	150	150	190	0.0001	<0.001	<0.001		3690	3600	10:5. 45psi. Pump set	0.5		13.3333
0.0005	150		180	0.0001	<0.001	0.002	<0.004	3700			0.5		13.3333
0.0007	140		190	0.0001	<0.001	0.002	<0.004	3350	3500	Water clear with slight	0.6		13.3333
<0.0001		99.85	211.9		0.001	0.002	<0.004		2.084 NR				
<0.0001		118.68	209.9		<0.001	<0.001	<0.004		2.184 NR				
<0.0005	116.71 NR		207.9	0.0001	<0.001	0.019	<0.004	2.184	2.153 NR				13.3333
as sulfidic smell.								2.129					
<0.0001	135.03 NR		205.9	0.0001	<0.001	0.001	<0.004	2.227	2.187 NR				13.3333
<0.0001	141.26 NR		204.8	0.0003	0.003	0.004	<0.004		2.27 NR		0.2		13.3333
<0.0001	140.8 NR		189.1	0.0001	0.001	0.002	<0.004	2.32	2.229 NR		NR		13.3333
<0.0001	138.56 NR		215.9	0.0001	<0.0005	<0.0005	<0.004	2.23	2.28 NR	20:10. 60 Psi. SWL 23.4 NR			13.3333
<0.0001	142.18 NR		185.7	0.0001	<0.001	<0.001	<0.004	2.08	2.212 NR	cannot measure SWL			13.3333
<0.0001	151.46 NR		182.8	0.0001	<0.001	<0.001	<0.004	1.936	2.11 NR	bad egg smell. Black cr			13.3333
										Insitu pump no room to put dipper down			
<0.0001	147.71 NR		182.3	0.0001	<0.0005	<0.0005	<0.004		2.268 NR		NR		13.3333
								2.35		20:10, 60 psi, Bad egg odour, bucket goes black (CB)			
<0.0001	148.84 NR		219.9	0.0001	<0.0005	<0.0005	<0.005	2.2	2.299 NR	bad egg smell. Black st			13.3333
								2.2		egg smell, black stain on bucket & white flake during pur			
<0.0001	145.53 NR		192.9	0.0001	<0.0005	<0.0005	<0.005	2.31	2.26 NR	water clear	NR		13.3333
<0.0001	151.07 NR		214.9	0.0001	<0.0005	<0.0005	<0.005	2.213	2.22 NR	20:10 60 P: NR	NR		13.3333
<0.0001	155.94 NR		219.9	0.0001	<0.0005	<0.0005	<0.005	2.09	2.222 NR	20:10. 60 p: NR	NR		13.3333
0.0002	160.72 NR		214.9	0.0001	<0.0005	0.013	<0.005	2.26	2.234 NR	20:10. 60p: NR	NR		13.3333
<0.0001	160.17 NR		204.9	0.0001	0.001	0.002	<0.005	2.23	2.228 NR	Rotten egg	NR		13.3333
<0.0001	145.22 NR		234	0.0001	<0.001	<0.001	<0.005	2.22	2.196 NR	20:10. 65p: NR	NR		13.3333
<0.0001	160		210	0.0001	0.001	0.001	0.006	2	2200	20:10, 65psi, water clear with grey appearance			13.3333
<0.0001	150		220	0.0001	<0.001	0.001	<0.004	2050	2200	water clear but leaves a grey film on all surface			13.3333
<0.0005	150		230	0.0001	<0.001	<0.001	<0.004	2200	2200	water clear but leaves a grey film on flow thr			13.3333
<0.0001	140		230	0.0001	<0.001	<0.001	<0.004	2240	2200	Water greyish and cloudy. Rotten egg smell			13.3333

0.002	94.05	9.1			<0.002	<0.004		789	
									Dry. No sample taken. Dry No sample taken. Dry. Total depth 80.66 Dry Dry, total depth 80.66m Dry. No sample taken Dry (Total depth 80.6m) DRY Dry. No sample taken dry - no sample taken 83.39 depth of well Dry
									Dry. No sample taken. Dry. No sample taken Dry. Dry. No sample taken Dry Dry. No sample taken Dry. No sample taken.
0.0032	167	77	0.249	0.209	0.645 0.02	<0.004	0.4 0.4	1.807 1.807	2.27 1.76 ---
<0.005	173		0.16	0.02	0.02	0.004			1.83
							31.7	1.909	
<0.005			0.07	0.02	<0.01		32.6	1.928	1.8
0.0002					0.002	0.004			1.91
							33	1.98	
0.0004	145	74			<0.001	<0.004		1.792	1.66
0.0006	151	83			0.026	<0.004		1.892	1.82
0.0002	143	64	0.005	0.007	0.002	<0.004		1.852	1.86

<0.0001	179.26 NR	217.4	0.0001	0.001	0.002	<0.004	2.99	2.861 NR	NR	13.3333
< 0.0001	186.02 NR	214.9	0.0002	0.002	0.002	<0.004	2.99	3.088 NR	pump set at 20m NR	13.3333
<0.0001	153.44 NR	215.6	0.0001	<0.0005	<0.0005	<0.004	2.37	2.62 NR	10:5, 45psi SWL 18.08 NR	13.3333
<0.0001	225.47 NR	131	0.0001	<0.0005	<0.0005	<0.005	2.51	3.088 NR	new logger 10:5, 40 ps NR	13.3333
							0.271		10L flush 90psi 10:5	
<0.0001	241.25 NR	112.7	0.0001	<0.0005	<0.0005	<0.005	3.32	3.46 NR	water turb NR	13.3333
<0.0001	280.17 NR	122.5	0.0001	<0.0005	<0.0005	<0.005	3.79	3.516 NR	10:50 40PS NR	13.3333
<0.0001	252.58 NR	193.9	0.0001	<0.0005	<0.0005	<0.005	2.86	3.094 NR	10:5. 40psi NR	13.3333
0.0003	187.33 NR	258.9	0.0004	0.004	0.008	<0.005	3.01	3.286 NR	10:5. 40psi NR	13.3333
0.0034	310.22 NR	133	0.0001	<0.0005	0.009	<0.005		3.56 NR	NR	13.3333
<0.0001	212.79 NR	206.9	0.0001	<0.0005	0.001	<0.005	2.86	3.006 NR	Slight rotte NR	13.3333
0.0001	175.26 NR	228	0.0002	0.002	0.002	<0.005	2.85	3.02 NR	10:5. 40psi NR	13.3333
0.0004	230	160	0.0007	0.006	0.01	<0.004	2.89	3100	10:5, 45psi, pump set at 20m, orange tinge to	13.3333
0.0003	170	220	0.0013	0.012	0.012	<0.004	2790	3200	light orange tinge to water	13.3333
<0.0005	220	210	0.0001	0.001	<0.001	<0.004	3210	3200	slight orange tinge to water.	13.3333
0.0003	180	250	0.0006	0.005	0.006	<0.004		3100		13.3333
0.0003	190	260	0.0001	<0.001	0.004	<0.004	3170	3100	Water clear with very slight yellow tinge	13.3333
							1043		Water clear. Slight smell.	
<0.0001	91	6	<0.001	<0.001		<0.004		860		
<0.0001	120	10	<0.001	<0.001		<0.004	789	1100	40:20, 250 psi, water slightly cloudy	
							857		Water slightly cloudy with slight orange tinge.	
							943		water clear	

eaks). No sample taken on the 22nd of Mrch. Leaks in tubing fixed. Cable securing pump in place has corroded and snapped. Pump stuck in well and

[illegible]

	2.45	-0.05		-0.001	94	0.533					0.014	0.014	-0.01	-5
	1.73	0.06		-0.001	93	0.806					0.062	0.062	-0.01	6
		0.03	<0.003	0.03	91	0.588		0.0007	0.191		38	0.038	0.05	2.12
348	22.06	0.0001	<0.003	0.079	45.65	1.309	<0.0001	<0.005			82	0.082	3.04	NR
	NR			NR	NR	NR		NA				NR		NA
	4.247			0.033	84.69	0.516		NA				0.291		Broken NA
	NR	0.02	NULL	NR	0.007	100.7	NR	0.364	NA	NA		0.6		<0.1
	0.003	0.296		<0.003	0.005	106.2	0.381	0.382	NA	NA		0.5		<0.1
		0.022		<0.003		NR		0.029	NA	NA				<0.1
											0.011			NA
	<0.003	0.372		<0.003	<0.003	94.1	0.127	0.205	NR	NR		0.3		<1
	0.005	0.121		<0.003	<0.003	89.56	0.083	0.134	NR	NR		0.1		<1.0
	<0.003	2.186		<0.003	0.021	90.71	0.066	0.238	NR	NR		0.5		1.8 NR
NULL	0.664	0.857	NULL	<0.003	<0.003	NR	304.29	0.084	0.084	NR	NR	NR		NR
NULL	<0.003	<0.003	NULL	<0.003	0.004	NR	88.02	0.261	0.297	NR	NR	NR		NR
NULL	0.122	0.172	NULL	<0.003	0.003	NR	112.07	1.255	1.268	NR	NR	NR		NR
NULL	<0.003	0.77	NULL	<0.003	0.008	NR	370.46	0.468	0.7	NR	NR	NR		NR
NULL	<0.01	<0.01	NULL	<0.003	<0.003	108		0.01	0.064	NR	NR	NR		NR
821.5213	0.01	1.11	0.0001	<0.003	0.008	127.52		0.246	0.407	NR	NR	NR		NR
696.6698	0.028	0.757	0.0001	0.004	0.006	101.44		0.737	0.756	NR	NR	NR		NR
638.0336	0.012	1.203	0	<0.001	0.005	91.3		0.845	0.879	NR	NR	NR		NR
716.7357	0.314	1.255	0	0.001	0.007	99		0.855	0.943	NR	NR	NR		NR
631.1628	0.149	0.262	0	<0.001	0.001	100.54		0.867	0.872	NR	NR	NR		NR
	<0.003	0.098		<0.001	<0.001		90.58	0.597	0.608	NR				NR

603.6284	0.08 0.19	0.189 0.489	<0.001 0 <0.001	<0.001 0.001	99.96 85.31 NR	0.707 0.626	0.714 0.632	NR NR								NR NR
607.6328	0.385	0.942	0 < 0.001	0.006	85.1 NR	0.438	0.5	NR								NR
640.5622	0.115	0.437	0 < 0.001	< 0.001	91.72 NR	0.462	0.533	NR								NR
588.8717	0.233	0.555	0 < 0.001	0.001	83.2 NR	0.414	0.417	NR								NR
599.7166	0.069	0.649	0 < 0.001	0.001	86.07 NR	0.506	0.509	NR								NR
591.7716	0.105	0.177	0 < 0.001	< 0.001	85.22 NR	0.636	0.637	NR								NR
610.5919	0.109	0.568	0 < 0.001	< 0.001	87.48 NR	0.545	0.568	NR								NR
528.5572	0.07	0.796	0 < 0.001	< 0.001	75.66 NR	0.385	0.4	NR								NR
580.5177	0.047	0.078	0 < 0.001	< 0.001	82.76 NR	0.5	0.502	NR								NR
589.2636	0.016	0.083	0 < 0.001	< 0.001	85.09 NR	0.521	0.541	NR								NR
624.3614	0.046	0.083	0 < 0.001	< 0.001	91.23 NR	0.564	0.569	NR								NR
600.9029	0.092	0.097	0 < 0.001	< 0.001	85.97 NR	0.451	0.457	NR								NR
613.0727	0.035	0.046	0 < 0.001	0.006	88.04 NR	0.422	0.425	NR	NR							NR
633.1933	<0.003	0.054	0 < 0.001	< 0.001	91.21 NR	0.569	0.787	NR	NR							NR
566.3757	0.027	0.06	0 < 0.001	< 0.001	81.06 NR	0.524	0.649	NR	NR							NR
591.494	0.073	0.78	0 < 0.001	0.002	83	0.48	0.51									
567.531	0.16	1.2	0 0.001	0.002	79	0.45	0.49									
565.034	0.086	0.29	0 < 0.001	< 0.001	79	0.43	0.45									
559.295	0.034	1.2	0 < 0.001	0.002	77	0.44										
555.046	0.04	0.33	0 0.001	0.001	79	0.45										
		42.7	<0.001		390	7.58 3.02	0.0004 ---	0.023		29	0.029	0.06 0.12	0.06 0.13 <0.01		176 46 ---	
		102		0.37	416	3.52	0.0002 ---	0.02		140	0.14	0.09	0.1 <0.01		13 ---	
		5.94		0.07		1.29	---	<0.01		20	0.02	0.1	0.1 <0.01		7 ---	
				0.183		2.3	---					0.182	0.182 <0.010		12 ---	
4.72	<0.05		<0.001		388	0.474						0.133	0.133 <0.010			

1.96	21.4		0.07	382	1.49	-0.0001	-0.01	20	0.02	0.016	0.016	-0.01	
3.4	0.07		-0.001	376	0.875					0.013	0.013	-0.01	11
1.18	0.14		-0.001	381	2.13					0.012	0.012	-0.01	-5
	0.039	<0.003	0.039	395	1.252	<0.0001	0.013	49	0.049	<0.1			8.8
	23.94 7.377		0.105 0.049	372.6 298.2	0.687 0.861	NA NA				0.14 0.588			9.7 NA 5.8 NA
	3.117	<0.003	0.018	440.4	0.823					0.3			1.9
	4.288 2.484		0.014 0.022	504.9 432	1.787 1.575					0.6 0.5			6.2 3.5
NR	1.287 NULL	NR	0.007	427 NR	1.023	NA	NA			0.7			2.3 NA
0.021	1.115	<0.003	0.013	450.7	1.016	NA	NA	NA		1.1			NA
	10.77	<0.003	0.054	NR	1.007	NA	NA	0.567	3	0.003 NR			4.65 NA
1.04	2.237	<0.003	0.009	264.98	0.943	NR	NR	NR		0.9			2.1 NR
<0.003	0.656	<0.003	0.013	367.21	0.602	NR	NR	NR		0.1			2.5 NR
0.94	1.645	<0.003	<0.003	365.6	0.527	NR	NR	NR		0.5			2.3 NR
NULL	0.007	0.022 NULL	<0.003	<0.003	NR	96.02	0.282	0.314	NR	NR	NR		NR
NULL	0.974	0.974 NULL	<0.003	<0.003	NR	309.57	0.55	0.55	NR	NR	NR		NR
NULL	<0.003	1.268 NULL	0.011	0.019 NR		364.6	0.341	0.548	NR	NR	NR		NR
NULL	<0.003	0.023 NULL	<0.003	<0.003	NR	108.84	0.124	0.124	NR	NR	NR		NR
2,611.57	<0.01	0.03	0.0001	<0.003	<0.003	388	0.537	0.647	NR	NR	NR		NR
2,429.31	0.046	4.48	0.0001	<0.003	0.041	384.27	0.555	0.643	NR	NR	NR		NR
2,094.20	0.003	2.128	0	<0.001	0.02	344.18	0.477	0.504	NR	NR	NR		NR
1,885.23	0.017	5.45	0	<0.001	0.028	311.13	0.645	0.703	NR	NR	NR		NR
2,482.56	0.864	2.248	0.0001	0.002	0.017	385.87	0.508	0.513	NR	NR	NR		NR

1,570.34	0.096	0.395	0	0.001	0.002	319.16	2.933.	3.011	NR	NR	NR	NR	NR	NR
	0.459	0.717		0.001	0.012		315.86	0.46	0.474	NR				NR
	<0.003	2.89		<0.001	0.016		413.44	0.185	0.318	NR				NR
2,092.65	0.484	0.923	0	<0.001	0.003	314.28	NR	0.252	0.277	NR				NR
2,237.99	0.243	0.501	0	<0.001	0.016	335.47	NR	0.307	2.189	NR				NR
2,602.62	0.374	0.816	0	<0.001	<0.001	407.59	NR	<0.001	0.435	NR		NR		NR
2,707.93	0.274	1.457	0	<0.001	0.005	424.71	NR	0.147	0.157	NR		NR		NR
1,963.95	<0.003	0.448	0	<0.001	<0.001	298.15	301.1	0.262	0.306	NR		NR		NR
2,067.22	0.424	0.681	0	<0.001	0.001	308.13	NR	0.248	0.249	NR		NR		NR
2,141.99	0.086	0.115	0	<0.001	<0.001	314.22	NR	0.339	0.342	NR		NR		NR
2,758.85	0.336	0.478	0	<0.001	0.001	438.78	NR	0.194	0.218	NR		NR		NR
2,715.46	0.339	0.439	0	<0.001	<0.001	435.04	NR	0.179	0.19	NR		NR		NR
2,587.59	<0.003	<0.003	0	<0.001	<0.001	413.4	NR	0.194	0.216	NR		NR		NR
cleared after 10 mins														
2,156.48	0.066	0.189	0	<0.001	<0.001	329.72	NR	0.189	0.204	NR		NR		NR
2,643.07	0.11	0.154	0	<0.001	<0.001	421.99	NR	0.191	0.199	NR		NR		NR
2,725.43	0.095	0.144	0	<0.001	<0.001	431.04	NR	0.123	0.133	NR		NR		NR
2,882.69	0.05	0.097	0.0001	0.003	0.01	463.51	NR	0.124	0.144	NR	NR	NR		NR
2,470.04	<0.003	2.124	0	<0.001	<0.001	377.53	NR	0.167	0.206	NR	NR	NR		NR
2,628.19	0.072	0.099	0	<0.001	<0.001	418.93	NR	0.114	0.124	NR	NR	NR		NR
2,612.27	<0.005	0.11	0.0001	<0.002	<0.002	410		0.026	0.13					
2,430.03	0.3	1.1	0	<0.001	0.003	390		0.16	0.19					
2,496.18	0.25	0.47	0	<0.001	<0.001	400		0.13	0.15					
2,455.00	0.21	0.44	0	<0.001	0.002	390		0.099						
				<0.001	0.013		58	0.22	2.01	<0.0001	<0.0001	0.002	5	0.005
		25.1		<0.001			284		5.59	<0.0001	<0.001	75	0.075	<0.01
	---				---		120		5.57		---	---	<0.01	<5
		25.5		<0.01		291		4.53	<0.0001	---	<0.01	80	0.08	<0.05
												<0.05	0.01	2.5
		22.9		<0.01				4.37		---	<0.01	80	0.08	<0.01
												<0.01	0.01	<5
					0.006			4.56		---		<0.010	<0.020	<0.020
												<0.010	<0.010	<0.010
3.89		23		<0.001		293		4				<0.010	<0.010	<0.010

1.46	0.06		<0.001			4.54					<0.01	<0.01		<5
3.09	21.7	<0.001	<0.01		253	3.82	<0.0001	<0.01		80	0.08	0.015	0.015 <0.010	<5
	23.4		<0.001		288	4.01					<0.010	<0.010	0.01	<5
4.27	25.1		-0.001		296	4.83					-0.1	-0.1	-0.01	-5
2.11	25.5		-0.001		284	4.94					-0.01	-0.01	0.013	5
			0.015											
	41.68		0.03		343.3	5.511		NA			0.29			1.5 NA
	23.9		0.013		329.8	4.28		NA			1.477			<1 NA
	28.36	0.004	0.015		365.1	4.303					0.5			<0.1
	11.69		0.01		291.7	3.109					0.6			<0.1
NR	20.26 NULL	NR	0.01		317 NR	4.301		NA	NA		0.9			1.9 NA
10.55	11.7	<0.003	0.009		287.5	3.543		NA	NA	NA	0.8			<0.1 NA
	5.489	<0.003	<0.003		NR	0.087		NA	NA	3.092	3034	3.034 NR		<01 NA
9.732	9.843	<0.003	<0.003		222.52	3.456		NR	NR	NR	NR		0.4	<1 NR
5.282	8.858	<0.003	0.004		276.73	3.829		NR	NR	NR	NR		0.2	1.2 NR
8.91	13.704	<0.003	<0.003		243.27	4.663		NR	NR	NR	NR		0.5	1.1 NR
NULL	8.36	8.417 NULL	<0.003	<0.003	NR	238.04	3.901	3.957	NR	NR	NR	NR	NR	NR
NULL	8.106	8.106 NULL	<0.003	0.006	NR	211.34	3.483	3.546	NR	NR	NR	NR	NR	NR

NULL	10.472	13.738	NULL	<0.003	0.003	NR	261.33	3.769	3.801	NR	NR	NR	NR	NR	NR
NULL	2.612	2.612	NULL	<0.003	<0.003	NR	241.37	4.223	4.223	NR	NR	NR	NR	NR	NR
1,372.24	<0.01	1.54	0.0001	<0.003	<0.003	235		2.38	3.09	NR	NR	NR	NR	NR	NR
1,306.81	13.04	15.83	0.0001	<0.003	<0.003	233.5		3.382	3.391	NR	NR	NR	NR	NR	NR
1,480.82	10.996	21.032	0	0.001	0.002	237.87	NR	2.892	2.675	NR		NR	NR	<1	
1,807.30	0.003	1.083	0	<0.001	0.034	289.13		71.038	71.189	NR	NR	NR	NR	NR	NR
304.4093	154.951	258.105	0.0001	0.002	0.003		176.54	3.506	3.516	NR	NR	NR	NR	NR	NR
1,024.00	7.206	21.266	0	<0.001	0.004	189.83		0.316	3.072	NR	NR	NR	NR	NR	NR
1,262.45	16.296	17.98	0	0.001	0.001	220.26		3.562	3.646	NR	NR	NR	NR	NR	NR
1,172.45	16.572	16.883	0	<0.001	<0.001	204.11		2.92	2.97	NR	NR	NR	NR	NR	NR
	15.138	16.239		0.002	0.004		208.56	3.73	3.948		NR				
1,057.42	19.347	19.853		<0.001	0.008	NR		4.46	4.561		NR				NR
	16.488	16.818	0	<0.001	0.001	185.06	NR	3.112	3.138		NR				NR
1,157.57	16.449	18.421	0	<0.001	0.013	201.2	NR	4.303	30.248		NR				NR
1,084.83	15.516	16.781	0	<0.001	0.001	189.6	NR	3.061	3.112		NR				NR
1,379.26	18.72	18.903	0	<0.001	<0.001	246.23	NR	<0.001	5.124		NR		NR	NR	NR
1,204.48	17.363	17.862	0	<0.001	0.001	210.16	NR	3.036	3.138		NR		NR	NR	NR
1,096.63	16.854	16.917	0	<0.001	0.001	193.86	197.76	3.02	3.027		NR		NR	NR	NR
1,169.33	18.365	18.746	0	<0.001	<0.001	205.48	NR	3.041	3.05		NR		NR	NR	NR
1,196.29	12.707	15.14	0	<0.001	<0.001	209.02	NR	3.403	3.518		NR		NR	NR	NR
1,179.52	10.089	14.272	0	<0.001	<0.001	206.05	209.41	3.188	3.264		NR		NR	NR	NR
1,211.59	10.817	15.203	0	<0.001	<0.001	212.34	NR	3.504	3.57		NR		NR	NR	NR
1,376.88	20.217	21.248	0	<0.001	<0.001	248.46	NR	3.245	3.284		NR		NR	NR	NR
VL 3.68	12.754	12.788	0	<0.001	<0.001	234.54	NR	3.112	3.144		NR		NR	NR	NR
1,299.14															
1,284.94	17.249	18.036	0	<0.001	<0.001	230.42	236.29	2.914	3.126		NR		NR	NR	NR
1,247.19	9.894	14.593	0	<0.001	<0.001	225.77	NR	3.202	3.3		NR		NR	NR	NR
1,517.99	24.44	24.676	0	<0.001	<0.001	273.4	NR	3.956	4.055		NR		NR	NR	NR
1,463.47	21.628	22.257	0	<0.001	<0.001	261.98	NR	3.593	3.621		NR		NR	NR	NR
1,453.44	22.289	22.672	0	<0.001	<0.001	262.83	NR	3.1	3.425		NR		NR	NR	NR

1,557.48	11.92	18.701	0	<0.001	<0.001	277.72	283.86	3.607	3.831	NR	NR	NR
1,502.09	<0.003	0.124	0	<0.001	<0.001	268.66	NR	4.366	4.463	NR	NR	NR
1,492.82	23.473	23.792	0	<0.001	<0.001	267.59	NR	4.012	4.258	NR	NR	NR
1,362.87	22	22	0.0001	0.002	0.002	240		3.5	3.7			
1,362.87	24	24	0	0.001	0.003	240		4	4			
1,404.05	25	25	0	<0.001	<0.001	250		4	4			
1,362.87	24	24	0.0001	0.002	0.003	240	250	4				
1,362.87	23	24	0	0.001	0.003	240		3.9				
1,214.36	22	25	0.0001	0.002	0.002	210		3.7				
661.9213	0.144	0.232	<0.001	<0.001		81.47	0.61	0.634		NR		NR
	0.813	0.843	<0.001	<0.001		93.06	0.527	0.551		NR		NR
	0.127	0.166	0	<0.001	<0.001	89.97	NR	0.386	0.408	NR		NR
750.0406	0.019	0.02	0	<0.001	<0.001	100.26	NR	0.322	0.336	NR		NR
816.9484	<0.003	<0.003	0	<0.001	<0.001	112.73	NR	0.399	0.477	NR	NR	NR
782.5263	0.008	0.012	0	<0.001	<0.001	104.65	NR	0.248	0.253	NR	NR	NR
796.5759	0.013	0.046	0	<0.001	<0.001	109.42	NR	0.238	0.245	NR	NR	NR
801.0029	<0.003	<0.003	0	<0.001	<0.001	108.3	NR	0.259	0.271	NR	NR	NR
848.9654	0.008	0.022	0	<0.001	<0.001	114.32	NR	0.232	0.262	NR	NR	NR
859.7387	<0.003	<0.003	0	<0.001	<0.001	119.21	NR	0.19	0.196	NR	NR	NR
871.0433	<0.003	<0.003	0	<0.001	<0.001	121.27	NR	0.184	0.197	NR	NR	NR
nping. 60 psi 20:10	<0.003	<0.003	0	<0.001	<0.001	119.78	NR	0.18	0.186	NR	NR	NR
856.6425	0.018	0.025	0	<0.001	<0.001	120.86	NR	0.181	0.184	NR	NR	NR
874.9233	0.004	0.011	0	<0.001	<0.001	125.18	NR	0.162	0.164	NR	NR	NR
904.8734	0.007	0.008	0	<0.001	0.003	129.64	NR	0.135	0.202	NR	NR	NR
935.1754										NR		
906.7468	0.075	3.157	0	<0.001	<0.001	123.07	NR	0.167	0.181	NR	NR	NR
850.515	<0.003	<0.003	0	<0.001	<0.001	118.48	NR	0.142	0.149	NR	NR	NR
852.5	0.006	0.009	0	<0.001	<0.001	110		0.13	0.13			
827.53	0.024	0.025	0	<0.001	0.001	110		0.13	0.13			
827.53	0.026	0.033	0	<0.001	<0.001	110		0.12	0.12			
802.56	0.01	0.081	0	0.001	0.002	110		0.12				

0.008	<0.003	55.44	0.001			0.5	<0.1
355	<0.001	147	1.34	<0.0001	0.045	407	<5
	0.044		2.4			0.407	9 ---
						0.01	
						0.12	
						0.01	
						0.13	
						<0.01	
11.2		137	1.58	<0.0001	0.03	140	7
	0.03					0.14	
						<0.01	
						0.01	
						<0.01	
15.9			2.59	<0.0001	0.01	80	<5
	0.03					0.08	
						0.05	
						0.05	
						<0.01	
	<0.001		0.932			0.018	<5
						0.018	
						<0.010	
4.44	<0.05	127	0.79			0.061	6
	<0.001					0.061	
						<0.010	
4.2		130	2.88			0.024	<5
	0.033					0.024	
						<0.01	
0.21	<0.001	119	0.846	<0.0001	0.002	10	<5
2.64	0.004					0.01	
						0.012	
						0.012	
						<0.010	

342		6.716	0.0001	<0.003	0.009		168.9	7.503	<0.0001		<0.005	4	<0.004	3.25	<0.1	
	NR				NR		NR	NR	NA				NR		NR	NA
		1.38			0.013		189.1	5.084	NA					7.253	NR	NA
														<0.01		
		2.084			0.005		263.3	9.588						0.2	<0.1	
	NR	0.523	NULL	NR	0.009		240.8	NR	NA	NA				0.2	<0.1	NA
	<0.003	0.646		<0.003	0.006		193.4	4.243	NA	NA	NA		NA	0.4	<0.1	NA
		2.639		<0.003	<0.003		NR		NA	NA	NA	6.533	757	0.757	NR	NA
	0.101	0.475		<0.003	<0.003		188.52	7.372	NR	NR	NR		NR	0.4	<1	NR
	0.055	0.863		<0.003	<0.003		230.81	9.847	NR	NR	NR		NR	0.1	<1.0	NR
	0.061	0.206		<0.003	<0.003		181.39	4.959	NR	NR	NR		NR	0.1	<1.0	NR
NULL		3.928	4.836	NULL	<0.003	<0.003	NR	200.71	7.395	7.646	NR	NR	NR	NR	NR	NR
NULL		1.957	2.18	NULL	<0.003	<0.003	NR	204.06	8.865	8.865	NR	NR	NR	NR	NR	NR
NULL		0.203	0.381	NULL	<0.003	0.003	NR	211.84	10.213	10.259	NR	NR	NR	NR	NR	NR
NULL	<0.003		0.1	NULL	<0.003	<0.003	NR	215.95	10.971	10.971	NR	NR	NR	NR	NR	NR
1,805.90	<0.01	0.12	0.0001	<0.003	<0.003		273	10.2	13.6	NR	NR	NR	NR	NR	NR	NR
1,961.92	0.06	5.46	0.0001	<0.003	0.002	321.36		17.416	17.717	NR	NR	NR	NR	NR	NR	NR
985.4476	0.073	1.281	0	0.001	0.002	161.87		20.031	20.053	NR	NR	NR	NR	NR	NR	NR
876.3371	<0.003	4.594	0	<0.001	0.002	137.66		3.887	3.899	NR	NR	NR	NR	NR	NR	NR
1,286.54	1.892	9.329	0	0.001	0.005	205.53		6.898	6.771	NR	NR	NR	NR	NR	NR	NR
2,168.71	0.471	0.685	0	<0.001	0.001	393.92		7.501	7.751	NR	NR	NR	NR	NR	NR	NR
	0.06	0.863		0.002	0.009		216.23	9.592	9.682	NR						NR
	0.764	1.387		<0.001	<0.001		NR	10.903	11.183	NR						NR
1,442.99	1.862	2.782	0	<0.001	0.003	223.25	NR	8.476	8.641	NR						NR
1,320.39	2.199	2.759	0	<0.001	0.014	202.3	NR	6.116	60.155	NR						NR
1,048.53	<0.003	1.567	0	<0.001	0.004	184.89	NR	3.037	3.806	NR						NR
1,364.41	2.41	2.815	0	<0.001	0.001	206.66	NR	4.975	5.029	NR						NR
1,516.67	1.316	1.503	0	<0.001	0.001	237.54	NR	10.024	10.316	NR						NR

1,305.39	1.077	1.323	0	<0.001	<0.001	208.3	NR			NR		NR		NR
1,418.80	1.585	1.909	0	<0.001	<0.001	231.74	NR			NR		NR		NR
1,145.55	0.977	2.204	0	<0.001	<0.001	185.14	NR			NR		NR		NR
1,665.84	0.33	0.464	0	<0.001	<0.001	267.81	NR			NR		NR		NR
1,893.64	0.222	0.285	0	<0.001	<0.001	313.56	NR			NR		NR		NR
2,224.73	0.058	0.341	0	<0.001	<0.001	370.36	NR			NR		NR		NR
2,016.28	0.443	0.641	0	<0.001	<0.001	336.47	NR			NR		NR		NR
1,721.74	1.998	2.199	0.0001	0.004	0.006	304.51	NR			NR	NR	NR		NR
2,519.91	1.992	2.129	0	<0.001	<0.001	423.82	NR			NR	NR	NR		NR
1,603.13	<0.003	0.083	0	<0.001	<0.001	260.27	NR			NR	NR	NR		NR
1,437.97	2.619	6.564	0	<0.001	<0.001	242.92	NR			NR	NR	NR		NR
1,768.53	5	6	0.0001	0.002	0.004	290				16		16		
1,453.99	2.2	3.6	0.0001	0.003	0.004	250				13		14		
1,743.56	<0.005	4.6	0	<0.001	<0.001	290				14		15		
1,520.14	1.9	2.7	0.0001	0.002	0.003	260				13				
1,545.11	1.9	2.6	0.0001	0.003	0.005	260				15				
	0.005	0.55		0.001	<0.001	57				<0.005				
	0.008	0.074		0.001	0.002	74				<0.005				

pH (Field)	pH (Lab)	Phenols (m	Phosphoru	Potassium	Potassium	Selenium (	Selenium (	Silica (Tota	Silicon (Sol	Silicon (Tot	Silver (Tota	Sodium (Sc	Sodium (Tc	Strontium	Sulfate as	Sulfate as	Sulphur as	Sum Total	ISWL (mbRf	Temperatu	Thiocyanat	Tin (Total)	Titanium (T	Toluene (iç	Total Anior
6.88	7.31			12.78							30.94				1.98				107.46						
																			110.41						
																			112.12					NR	
																			112.1						
																			112.72						
																			112.12						
																			112.8						
7.04	7.39			7.11	NR						18	NR			1.23				113.18						NR
6.88	7.03			6.54	NR						15.79	NR			<0.05				113.84						NR
7.1	7.04			5.52	NR						13.83	NR			1.35	1.86									NR
6.76	7.13			4.92	NR						11.56	NR			1.27	1.95		NR							NR
6.97	7.17			4.56	NR						11.26	NR			1.08	1.92		NR							NR
6.8	7.08			4.52	NR						10.19	NR			0.54	1.12		NR			31.2				NR
	6.98			3.49	NR						7.48	NR			1.65	1.83		NR							NR
6.35																									
6.92	6.92			3.8	NR						8.07	NR			0.75	0.81		NR			122.55				NR
6.92																			122.55						
6.44	7.01			3.47	NR						7.56	NR			1.38	1.77		NR			119.6				NR
6.66	6.94			3.34	NR						6.77	NR			3.78	4.43		NR			119.18	33.1			NR
6.53	6.98			2.89	NR						6.27	NR			3.63	3.89		NR			118.86	33			NR
6.41	6.82			2.81	NR						6.13	NR			2.58	3.14		NR			117.25	33.5			NR
																			117.12						
6.63	7.04			2.49	NR						5.51	NR			3.69	4.23		NR			116.9	32.6			NR
6.31	7			2.25	NR						5.09	NR			4.32	4.47		NR			116.77	32.5			NR
																			116.7						
6.56	7.7			2.4							4.9				3.7	3.5					116.69	31			
																			116.7						
																			116.67						
6.74	7.7			2.9							7.9				1.7	1.9									
	7.7			2.4							6.4				2.3	2.2					116.69	32.8			
	7.71														90.6										15.2
																			56.7						
																			53.96						
																			54.3						
---				25		0.01	57.8			27	<0.01		64	0.3	120		47				<0.01	0.34	---		
7.18																			56.7						
																			54.3						
																			55.9						
7.12																			36.6						
	7.26					<0.01					<0.01				54		18								
																			47.2						
																			47.2						
7.47																			47.4						
	7.91																		47.4						
																									11.8
7.04	7.72			26							58				178				50.9						
																			49.72		29.6				14
																			52.8						
																			51.15						
																			50.28						
7.07																			49.12						
																			48.43		32.4				
																			50.67						
																			49.71						
																			50.73						
																			46.3						
7.77				20		-0.01					-0.001		57		267		90								16.8

6.79	7.23		18.62				68.53	283.1		47.14	34.7		NR
6.79	7.03	15.74	NR				60.56	NR	242.25	46.92			NR
6.97										49.99	31.5		
7.06										50.33			
	7.32	16.65	NR				62.04	NR	218.73				NR
6.79	6.97	17.59	NR				64.34	NR	218.02	49.47			NR
6.86	6.98	16.09	NR				61.99	NR	221.37	225.36			NR
6.66	7.13	15.98	NR				63.07	NR	221.09	226.02	NR		NR
6.93										44.81			
	7.01	15.9	NR				63.39	NR	197.52	218.8	NR		NR
6.66	6.93	16.51	NR				63.16	NR	157.45	227.67		31.5	NR
	6.93	13.83	NR				53.31	NR	208.95	211.05	NR		NR
6.32										44.55			
6.79	6.96	15.47	NR				60.13	NR	207.03	209.22	NR		NR
6.79										50.42			
										50.42			
6.52	7.02	15.86	NR				63.94	NR	211.29	212.49	NR		NR
6.64	6.97	16.17	NR				64.88	NR	224.58	228	NR	36	NR
6.53	7.03	16.06	NR				61.57	NR	203.31	217.19	NR	39.7	NR
6.46	6.99	16.32	NR				63.64	NR	208.73	210.06	NR	38.6	NR
										46.87			
6.65	7.18	16.57	NR				65.44	NR	224.7	228.39	NR	30.6	NR
6.44	7.09	15.09	NR				60.64	NR	209.28	222.93	NR	26	NR
										48.49			
6.63	7.7	19					58		190	200		33.7	
6.76	7.7	18					59		180	190		34.4	
										48.11			
6.66	7.8	18					60		190	200		35.3	
	7.8	18					59		180	190			
6.77	7.8	16					59		190	210		42.4	
6.72										43.97			
6.72	7.43	0.05	45	<0.01	<0.001	372		2560	832	39.68			65.9
	7.29							2450		39.68			64.5
										39.4			
										32.5			
6.77		56	<0.01	163	76.1	<0.01	364	0.2	2,480	871	0.02	0.26	---
										39.3			
										39.2			
										34.2			
6.76										39.1			
	7.16		<0.01		<0.01			2440	855	39.68			
										39.1			
										39			
7.06										39			
	7.55							2,430					63.9
										38.93			
										38.93			
6.73	7.7	55					374	2320		38.88	30.7		61
										38.84			
										38.82			
										38.8			
										38.77			
6.83										38.69			
										38.45	34.7		
										38.44			
										38.38			
										38.82			
										38.24			

	7.57	-0.05		44	-0.01		-0.01	360	2390	830		38.2		63.8
6.65													32	
	7.74			38				375	2300					60.9
	8.22			46				361	2480					64.6
6.8														
												38.05		
												37.6		
6.52	6.8	<0.050	0.64	40.76	<0.010		<0.001	389	2200	886		37.57		
												37.63	35.7	
												37.68		
												37.67		
6.8												37.67		
												37.619	32.3	
												37.65		
6.64	6.67			37.68				372.3	2150			37.58		NA
6.8	6.8			35.59				316.3	2599.3			37.619		NA
												37.54		
												37.5		
6.62	NA			36.25				424	2200			37.565	38.7	
												37.435		
												37.3385		
6.7	5.97			35.72				472.2	2800			38.4		
6.92	6.82			30.71				423.1	2800			37.35		
												37.3		
	6.66			36.88	NR		NR	413.5	2800	NR			NA	NA
	7.31			44.03	NR		NR	444	2400	NR			NA	NA
7.68	7.03		NR		NR		NR		2600	NR		36.8	NA	NA
												36.12		
	6.82			37.44	NR		NR	376.65	2500	NR			NR	NR
8.05	7.18			39.49	NR		NR	356.37	2900	NR		36.24	33.8	NR
												36.25		
												36.28		
6.66	7.1			37.58	NR		NR	354.98	2850	NR		36.29	31.3	NR
												36.26		
												36.23		
												36.28		
6.77	6.87		NR	16.6	NR		NR	NR	58.09	448.8	NR	36.22	NR	NR
												36.22		
6.56	6.93		NR	30.66	NR		NR	NR	303.14	2400	NR	36.19	NR	NR
												36.14		
8	7.61		NR	35.52	NR		NR	NR	351.89	2412	NR	36.13	NR	NR
	7.6		NR	17.19	NR		NR	NR	59.7	510	NR		NR	NR
7.86												36.01		
6.6	6.62		24.2		NR		NR	375	2459.4	NR		34.99	31	NR
												35.94		
6.8	7.94		39.16		NR		NR	367.53	2267	NR		35.95	28.9	NR
7.7	7.73		28.59		NR		NR	293.28	1998.64	NR		35.92	NR	NR
6.5	6.66		33.82		NR		NR	343.08	2323.83	NR		36.87	33.7	NR
6.9	6.76		38.54		NR		NR	362.85	4071.51	NR		36.9	NR	NR

6.45	6.86	39.31	NR	NR	2979.12	2646.01	NR	35.94	32.2	NR	NR
6.5	6.89	35.86			342.94	2154.99		35.92			NR
6.5								35.93			
7.79	8.04	42.45			392.64	2726.5		35.3	33.7		NR
6.55	6.8	36.32	NR		349.58	1974.69		35.89	32.5		NR
6.58								36.1	34.1		NR
6.38	6.93	37.74	NR		374.84	2179.92		35.79			NR
6.48	6.66	39.65	NR		386.8	2704.41		35.65			NR
7.31	6.73	39.67	NR		404.53	2971.77	3037.8	35.6			NR
								35.84			
6.69	6.75	36.48	37.54		348.99	359.59		2312.82	2344.14	NR	35.96
6.47	6.85	37.2	NR		351.42	NR		2245.85	2295.57	NR	35.63
								35.87			
6.72	6.85	39.43	NR		365.19	NR		2223.81	2262.09	NR	35.85
6.47	6.68	39.98	NR		396.4	NR		2712.09	2742.63	NR	35.86
								35.67			36.4
	6.67	38.06	NR		382.62	NR		2879.64	2925.06	NR	35.95
6.39											NR
6.61	6.74	38.37	NR		370.33	NR		2725.29	2725.71	NR	35.55
6.61								35.55			
								35.45			
6.47								35.41			
	6.95	37.22	NR		360.98	NR		2206.65	2214.81	NR	35.39
6.42	6.74	38.67	NR		391.55	NR		2953.05	3160.25	NR	36.5
6.24	6.8	38.71	NR		396.58	NR		2903.34	2953.22	NR	35.36
6.15	6.74	41.27	NR		418.63	NR		3011.88	3041.59	NR	35.35
								35.36			36.2
6.47	6.9	39.94	NR		387.59	NR		2588.69	2590.92	NR	35.34
6.11	6.71	37.38	NR		385.94	NR		2930.55	2964.84	NR	35.33
								35.3			31.8
6.35	7.5	53			430			2900	3000		35.1
6.43	7.4	54			360			2800	2900		35.3
											32.2
6.28	7.6	55			370			3000	3000		35.26
	7.6	56			360			2700	2900		37.6
											35.24
											35.26
											33.9
	7.05	25	<0.001	<0.001	7.9	10.6	68	173			35.3
7.08											14.44
7.08	6.6	107	<0.01		<0.001	332		2140	707		14.44
	6.7	346	---		---	---		2100			
											13.4
											13.1
											13.1
---		116	<0.01	26.3	12.3	<0.01	334	0.1	2,100	699	13.1
5.65											13.8
											14.9
											13.9
5.63											14.44
	6.24		<0.01		<0.01			2070	680		14
											13.9
											12.9
5.9											12.5
	6.6							2,120			12.5
											12.86
5.74	6.47	152			353			1900			13.11
											13.26
											13.36
											33.1
											47.2

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5.26	6.34	NR	93.52	NR	NR	NR	306.89	1975	NR	7.81	NR	NR
	6.75	NR	91.07	NR	NR	NR	300.08	2486	NR		NR	NR
5.36										7.2		
5.5	6.05		90.8	NR	NR		301	1869.3	NR	5.4	31 NR	NR
										5.34		
5.6	5.89		93.01	NR	NR		305.22	1615	NR	5.15	28.4 NR	NR
5.44											28.9	
5.4	3.24		134.09 NR	NR	NR		431.68	2890.32	NR	4.95	29.5 NR	
5.57											25.6	
5.5												
5.8												
5.7											26.3	
5.7											27.7	
5.4	6.41		59.99	NR	NR		155.23	2209.22	NR	4.82	NR	NR
										4.74		
NR			85.72	NR	NR		277.92	1464			NR	NR
5.6	5.91		80.36	NR	NR		269.86	1490.46	NR	3.72	29.8 NR	NR
5.8	5.72		92.41	NR	NR		268.13	1594.01	NR	3.88	NR	NR
5.52	5.84		96.28	NR	NR		230.72	1710.62	NR	4.21	29.9 NR	NR
	5.73											
5.74			90.93				293.14	1507.21				NR
										4.27	31.2	
										4.18		
5.66	5.93		NR			NR		1525.77		4.07	31.7	NR
5.57	5.88		82.21 NR			259.78 NR		1320.63		2.85		NR
5.54										3	31.5	
5.56	5.92		87.93 NR			285.88 NR		1475.01		3.2		NR
5.7	5.8		81.67 NR			265.06 NR		1530.93		3.308	30.2	NR
5.59	5.83		92.81 NR			307.9 NR		1764.23		3.44		NR
5.82	5.79		92.25 NR			300.77 NR		1633.98	1634.85	3.45		NR
										3.44		
5.62	5.82		83.34	87.26		274.67	285.64	1624.23	1667.49	NR	31.1	NR
5.53	5.92		89.69 NR			284.34 NR		1611.8	1631.91	NR		NR
										3.25		
										3.28		
										3.28		
										3.37		
5.63	5.79		91.63 NR			288.78 NR		1584.21	1616.46	NR		NR
										3.55		
5.58	5.79		91	93.61		290.57	296.72	1652.25	1677.96		29.8	NR
										3.59		
5.43	5.75		92.42 NR			294.39 NR		1525.83	1711.49			NR
										3.66		
	5.8		91.55 NR			298.72 NR		1830.45	1849.71	NR		NR
5.4												
5.62	5.67		88.27 NR			287.5 NR		1727.07	1740.36	NR		NR
5.62										2.81		
										2.81		
										2.57		
5.4	5.89		87.14	88.93		290.36	291.41	1826.94	1830.31		32	NR
										2.67		
5.27	5.9		86.56 NR			288.05 NR		1748.37	1772.76	NR		NR
										2.71		
										2.93		
										3.02		
5.5	5.92		95.17 NR			329.74 NR		2113.44	2139.2	NR	32.7	NR
										3.07		
										3.07		
										3.14		
5.27	6.02		95.89 NR			320.68 NR		1968.57	2031.87	NR		NR
										3.165		
										3.14	36.5	
										3.15		
										2.65		
5.25	6.51		97.32 NR			325.49 NR		1916.94	1933.35	NR		NR
										2.34		
										2.27	31.5	

											2.28		
											2.39		
5.13	5.9	98.96	100.7			339.37	344.15	1901.46	1907.31	NR	2.56	32.8	NR
											2.77		
5.47	5.91	96.42	NR			325.49	NR	2072.13	2088.18	NR	2.77	28.6	NR
											2.92		
											3.02		
											3.1		
5.24	6.07	91.19	NR			323.26	NR	2055.51	2069.4	NR	3.12	29.2	NR
											3.21		
											3.26		
5.4	6.4	99				320		2000	2100		3.07	28.7	
											3		
											3		
											2.89		
											2.75		
5.58	6.4	110				290		1800	1900		2.66	30.8	
											2.71		
											3.94		
5.5	6.3	110				300		2000	2000		3.11	33.4	
											3.3		
											3.39		
5.36	6.5	110	110			300	300	1900	2000		3.39	27.9	
	6.6	110				290		1800	1900				
											3.55		
											3.68		
											3.78		
											3.9		
5.36	6.6	83				300		2000	2000		3.9	35.9	
											3.99		
											14.76		
											10.01		
2.08	6.93		77.08				194.34	11.19			6.53		NR
	7.01		82.69				201.95	4.1			9.45		NR
6.65	6.95	70.9	NR			175.21	NR	12.84			9.77		NR
6.66											10.62	30.8	
6.62	7.05	71.06	NR			178.49	NR	25.89			10.15		NR
	6.77	69.93	NR			171.77	NR	7.54			9.96		NR
		69.33	NR			166.98	NR	49.23	51.51		9.97		NR
6.9	6.81	66.85	NR			163.28	NR	43.95	57.19	NR	9.81		NR
6.5	6.92	65.95	NR			157.48	NR	59.4	67.56	NR			NR
6.69	6.91	68.01	NR			161.43	NR	48.32	67.54			31.6	NR
6.61	6.86												
	7.12	63.35	NR			149.18	NR	47.79	53.82	NR			NR
6.35													
6.84	6.89	63.04	NR			147.71	NR	57.48	61.26	NR			NR
6.84													
6.43	6.99	62.11	NR			154.67	NR	81.66	83.25	NR	9.31		NR
6.69	6.97	62.65	NR			148.07	NR	92	94	NR	9.28	30.6	NR
6.5	7	63.46	NR			148.94	NR	108.93	112.7	NR	9.39	32.6	NR
6.47	6.92	65.8	NR			154.77	NR	106.2	140.1	NR	8.87	31.3	NR
											9.22		
6.66	7.13	63.46	NR			147.3	NR	126.39	130.13	NR	8.9	30.9	NR
6.53	7.06	58.78	NR			137.93	NR	126.72	136.29	NR	9.03	31.3	NR
											9.73		
6.6	7.7	65				130		580	240		9.08	29.6	
6.79	7.7	68				110		830	210		9	30.8	
											9.54		
6.54	7.8	68				110		170	190		9.07	31.2	
											9.34		
6.63	7.8	61				130		610	250		9.14	31.3	

>73

Dry

[illegible]

										6.99		
										6.3		
										5.83		
										6.17		
6.4										6.17	34.3	
										6.42		
										6.65		
	7.32 <0.05		58.42	<0.01	<0.001	145.2	1100	338.7				
NR		NR				NR	NR					NA
6.47										7.15		
6.58	6.76		73.77			140.2	929.75			7.076	31	NA
										4.77		
6.35										5.821	41.7	
NA							1100					
										4.665		
7.46										4.68		
	6.77		89.03			137.8	1200			5.9		
										5.45		
	6.7		69.33	NR	NR	128.9	1100	NR			NA	NA
	7.6		67.04	NR	NR	115.7	940	NR			NA	NA
7.13	6.61	NR		NR	NR		1200	NR		4.2	NA	NA
	6.73		66.29	NR	NR	120.14	1200	NR			NR	NR
6.32	7.02		66.99	NR	NR	94.98	1500	NR				NR
										5.4	30.6 NR	
										5.49		
										5.71		
6.71	7.22		58.9	NR	NR	87.88	1200	NR		5.71	30.4 NR	NR
										5.73		
										5.09		
										4.55		
6.73										3.65		
	6.7	NR	63.42	NR	NR	91.19	1596.9	NR			NR	NR
										3.75		
6.66	6.65	NR	54.7	NR	NR	76.51	1270	NR		4.31	NR	NR
										4.54		
6.24	6.69	NR	60.08	NR	NR	85.58	1436	NR		4.9	NR	NR
	6.67	NR	60.45	NR	NR	84.89	1677	NR			NR	NR
6.34										5		
6.2	6.25		86.7	NR	NR	98	1736.1	NR		4.31	29.1 NR	NR
										4.31		
6.3	6.58		75.33	NR	NR	87.82	1696	NR		4.8	27.1 NR	NR
6	6.47		37.56	NR	NR	42.26	984.57	NR		5.16	NR	NR
6.3	6.39		49.75	NR	NR	88.98	680.04	NR		5.66	30.1 NR	NR
6.7	6.37		61.95	NR	NR	105.92	957.67	NR		5.05	NR	NR
6.2	6.49		0.78	NR	NR	903.25	1491.84	NR		6.06	29.3 NR	NR
6.4										6.63	30.4	
	6.46		71.47			138.35	1085.04					NR
										6.85		
6.39	6.66		NR			NR	1135.47			6.89	30.8	NR
6.16	6.61		64.93 NR			102.58 NR	1167.54			5.51		NR
6.32										6.67	35.3	
6.31	6.67		62.05 NR			100.26 NR	1072.44			6.03		NR
6.5	6.39		74.03 NR			170.66 NR	752.54			5.95		NR
6.43	6.46		63.19 NR			99.17 NR	1208.52	1217.73		6.82		NR
6.22	6.56		66.6 NR			100.4 NR	1303.94	1438.83	NR	6.78		NR

6.25	6.38	69.23 NR	128.92 NR	1146.15	1152.09	NR	6.93		NR
6.08	6.19	74.7 NR	140.16 NR	1016.77	1331.74		7.06		NR
							7.5	29.9	
6.03	6.51	53.04 NR	94.16 NR	1070.52	1094.58	NR	7.68		
6.41	6.41	64.58 NR	85.29 NR	1454.28	1619.46	NR	7.5		NR
6.5							6.55		NR
							6.3	32.4	
6.59	6.95	72.43 NR	88.05 NR	1793.16	1826.91	NR	6.03		
6.93	6.9	74.85 NR	81.64 NR	1985.82	2047.23	NR	6.37		NR
6.21	6.78	73.74 NR	98.88 NR	1653.87	1734	NR	7.1	31.6	NR
5.66	6.56	80.33 NR	139.34 NR	1483.92	1576.34	NR	7.31	32	NR
	6.48	82.1 NR	94.67 NR	2269.57	2290.83	NR	6.36	32.3	NR
							6.58		
5.9	6.54	68.04 NR	102.67 NR	1460.33	1618.59	NR	7.1	30.9	NR
5.68	6.45	67.61 NR	123.33 NR	1325.52	1829.01	NR	7.57	31.5	NR
							7.64		
6.1	7	76	99	1500	1500		7.71	29.5	
6.08	6.9	83	110	1200	1400		7.53	30.4	
							7.6		
5.93	6.8	85	92	1600	1600		7.95	29.6	
	7.1	84	110	1300	1400				
							8.38		
6.16	7.3	67	120	1400	1600		8.43	30.5	
6.52							135.61	31.1	
	7.7	0.7	2.9	11	12				
6.65							116.38	32.4	
	7.6	0.7	4	150	180				
6.46							117.34	32.9	
6.61							135.65	34	

Total Catio Total Deptl Total Disso Total Kjeld: Total Nitro Total Nitro Total Orgar Total Petro Total Petro Total Petro Total Petro Total Petro Total Petro Total Petro Total Phen Total Phos Total Phos Total Suspi Turbidity (l Turbidity (l Vanadium Zinc (Effect Zinc (Solub Zinc (Solub Zinc (Total) Zinc (Total) (mg/L)
137.69

500	2	<1														2.28	3922	>1000				0.005	626	0.626	
452	1.8	<1														0.07	13	31			0.0054	0.048		0.195	
440 NR	5	<1														0.01	23	8.95			0.0004	0.004		0.064	
410	<0.1	<5														0.02	11	109			0.0004	<0.004		0.006	
418 NR	<1	<5	NR	NR	NR	NR	NR									0.03	11	0.4	77.8			0.0004	<0.004		0.008
460 NR	<1	<5	NR	NR	NR	NR	NR									0.01	9	4.37	81.7			0.0009	0.008		0.01
468 NR	<1	<5	NR	NR	NR	NR	NR									0.11	8	4.41	67.2			0.0004	<0.004		0.007
452 NR	<1	<5	NR	NR	NR	NR	NR									0.04	12		56.2			0.0004	<0.004		0.004
440 NR	<1	<5	NR	NR	NR	NR	NR									0.07	97	3.49 71.4	78			0.0007	0.006		0.006
470 NR	<1	<5	NR	NR	NR	NR	NR									0.04	202	140	14.2			0.0004	<0.004		<0.004
476 NR	<1	<5	NR	NR	NR	NR	NR									0.16	110	97.6	74.5			0.0014	0.013		0.015
484 NR	<1	<5	NR	NR	NR	NR	NR									0.07	108	92.8	108			0.0004	0.004		<0.004
454 NR	<1	<5	NR	NR	NR	NR	NR									0.04	10	3.34	35.6			0.0004	<0.004		<0.004
448 NR	1	<5	NR	NR	NR	NR	NR									0.06	22	4.09	36.6			0.0004	<0.004		<0.004
498 NR	<1	<5	NR	NR	NR	NR	NR									0.06	5	2.33	10.2			0.0004	<0.004		<0.004
480	0.12	<1														<0.02	<5	10.4	20			0.0006	<0.005		<0.005
490	0.26	<1														<0.02	12	39			0.0006	<0.005		0.031	
450	0.17	<1														<0.02	<5	2.94	6.5			0.0006	0.005		0.006
15.6	890																630							148	0.148
---	---															1	458			0.02				90	0.09
---	---																181							1740	1.74
12	---	---															972							483	0.483
14.3	820																988							53	0.053
16.7	988																322							103	0.103

16.1	46.98	888											221				30	0.03			
	45.68																				
	45.68																				
	49.64																				
	46.3																				
16.2	47.81	866											18				354	0.354			
	46.47																				
	46.47																				
	47.14																				
	46.09																				
	45.83																				
		0.66											99				0.019	149	0.149		
		880		2.2	<20		1.79		256		0.0004		0.003		490		0.49				
	NR		NA		NA		NA		NR				NR								
		836		NA	NA		NA		412					325		0.325					
	274		<0.1	NR	<0.1		NA		2.24		90		NR	NULL		NR		2 <0.002			
	844		2.2	NR	<0.1		NA		0.14		3		NR			0.022		27 0.027			
	NR	NR	NR	NR	<0.1		NA		NR		NR		NR			0.035		39 0.039			
	816	0.8	NR	<1		NR		1.3		90		NR			0.006		100 0.1				
62.41	870	0.6	NR	<1		NR		1.62		51		NR			0.005		5 0.005				
	828	3.4	NR	1.1		NR		0.61		212		NR			<0.002		36 0.036				
	1016		0.2	NR	<50	<20	NR		0.08		4		3.51	NULL		0.055		61 0.061			
61.2	984		1.2	NR	NR	NR	<1		NR		0.18		46	54.3		NULL		0.02 30 0.03			
	1230		0.5	NR	NR	NR	<1		NR		0.32		9	15.58		NULL		0.015 15 0.015			
	1116		1	NR	NR	NR	<1		NR		0.11		<1	22.6		NULL		<0.002 8 0.008			
	1228		1.2	NR	NR	NR	<1		NR		0.19		79	79.8		NULL		0.05 111 0.111			
	1280		0.7	NR	<1		NR		0.196		127		181	0.0019		0.017		19 0.019			
	1142		0.57	NR	1		NR		0.13		40		58.9	0.0061		0.055		119 0.119			
	1178		0.3	NR	<1		NR		0.17		43		71.8	0.0103		0.093		162 0.162			
	944		0.1	NR	<1		NR		0.42		73		77.1	0.0018		0.016		31 0.031			
	112		0.3	NR	<1		NR		0.07		13		4.47	0.0052		0.047		64 0.064			
	976	<1	<1		<1				0.07		19		22.8			0.053		57 0.057			
	896	<1	<1		<1				0.06		10		11.4			0.025		27 0.027			
	1028	<1	2		2				0.09		2		19.52	14		0.0022		20 0.02 23 0.023			

[illegible]

65.2	38.18 38.18	4160	1	1.1					0.22	958			33	0.033	
	38.17 38.24 38.17 38.1 38.1														
66.1	38.08 38.04	4150	0.5	0.6					0.16	538			104	0.104	
		2.23		<0.1		5.45				388			0.035	148 0.148	
		3548 2932		2.8 2.8	NA NA			1.37 1.37	2504 716				718 145	0.718 0.145	
				1.3	NA			2.95					0.035	67 0.067	
		4794 4696		4.2 <0.1		4 <0.1		2.24 1.01	42				25 532	0.025 0.532	
		4664 4436		3.5 NR 2.1 NR	<0.1 <0.1	NA NA		1.94 NR 4.13 NR		NR NR	NULL	NR	156 78	0.156 0.078	
	NR		NR	NR		1	NA	NR		NR			0.052 202	0.202	
		4198 4552	1 1.3	NR NR	<1 <1		NR NR	0.47 0.92	390 447	NR NR			0.061 0.007	81 39	0.081 0.039
		4736	<0.1	NR		1.8	NR	1.26	50	NR			0.029	31 0.031	
43.88		4696		<0.1 NR		120 <20	NR	0.04	20	34.4	NULL	0.035	54	0.054	
		4592		1.2 NR	NR	NR	NR	0.39	31	34.9	NULL	<0.002	2	<0.002	
		4574 4556		2.1 NR 2.5 NR	NR NR	NR NR	NR NR	0.59 0.07	225 157	233 81.8	NULL NULL	0.011 <0.002	20 2	0.02 <0.002	
		5182		1.9 NR	NR	NR	NR	0.32	37	42.5	0.0033	0.03	63	0.063	
		5258		1.6 NR			NR	0.536	309	321	0.0013	0.012	63	0.063	
		4420		1.2 NR			NR	0.08	289	18.6	0.0004	<0.004	12	0.012	
		4780		1.1 NR			NR	0.25	355	380	0.0084	0.076	111	0.111	
		1120		0.6 NR			NR	0.63	150	99.6	0.0155	0.14	523	0.523	
		4680		1.3 NR			NR	0.42	251	37.6	0.0035	0.032	55	0.055	
		4762		<1		<1		0.09	20	17.4		0.024	29	0.029	

		4544	<1		<1				0.57	612		662			0.012	55	0.055
		4830	<1		2				0.11	16	25	18.2	0.0022	20	0.02	23	0.023
44.19		4746		2	<1				0.09	10		9.27	0.0028		0.025		0.026
		4810 NR		1	<1				0.38	28		23.9	0.0071		0.064		0.261
		4732	<0.1		<5				0.4	60		41.6	0.0044		0.04		0.044
		4766 NR	<1	NR	NR		NR		0.07	<1		16	0.0022		0.02		0.02
		4716 NR	<1		<5	NR	NR	NR	0.07	26	22.9	19.3	0.0037		0.033		0.036
		4428 NR	<1		<5	NR	NR	NR	0.05	6	7.75	7.59	0.0048		0.043		0.052
		4990 NR	<1		<5	NR	NR	NR	0.81	15	7.45	10.8	0.0024		0.022		0.034
		4610 NR	<1		<5	NR	NR	NR	0.32	4		4.97	0.003		0.027		0.032
		4492 NR	<1		<5	NR	NR	NR	0.51	10	8.55 9.69 9.69	5.39	0.0032		0.029		0.036
												34.8					
		4588 NR	<1		<5	NR	NR	NR	0.05	36		28	0.0013		0.012		0.032
		4814 NR	<1		<5	NR	NR	NR	0.51	128	61.9	113	0.0039		0.035		0.053
		4838 NR	<1		<5	NR	NR	NR	0.5	16	30.6	10.4	0.0042		0.038		0.057
		4562 NR	<1		<5	NR	NR	NR	0.26	7	13.67	9.75	0.0024		0.022		0.048
		4558 NR	<1		<5	NR	NR	NR	0.09	3	4.72	4.95	0.0022		0.02		0.036
		6000 NR	<1		<5	NR	NR	NR	0.46	5	16.71	1.04	0.0037		0.033		0.063
		5000	0.4			3			0.02	33	47.8	22	0.0029		0.026		0.03
		4800	0.28		<1				0.04	33	49.9	13	0.0025		0.023		0.031
		4700	0.17		<1				<0.02	10	9.37	3.2	0.0034		0.031		0.042
		4800	0.19		1				<0.02	8		3.2	0.0021		0.019		0.025
10.86		615	0.02							106					0.016	54	0.054
48.9	39.68	3300 <0.1	<0.1		<5				0.01	15					0.07		
									NULL	19						110	0.11
		0.3	0.4						1	4		<0.01				60	0.06
		3380	0.2						0.03	10						80	0.08
50.9		3380	0.5	0.5					0.02	2						109	0.109
51		3400 <0.1	<0.1						0.02	13						86	0.086
12		744	0.1	0.2					0.04	2						5	<0.005

49.5	3060	0.7	0.7						0.02	12			0.093	80	0.08
	3410	<0.1	<0.1						0.03	3				92	0.092
52	12.48 12.79 12.79	3620	0.5	0.5					0.06	8				88	0.088
	12.92 13 13.16 13.16														
48.6	13.14 13.16 13.23	3530	-0.1	-0.1					-0.01	2				100	0.1
														18.9	0.0189
	3694 3538		1.3 0.6	NA NA					1.4 0.61 <0.1	59				474 242	0.474 0.242
			0.4	NA					0.59				0.043	167	0.167
	2870		3.9	<0.1					0.93					123	0.123
	2124 3182		<0.1 2.8 NR NR	<0.1 NR NR		NA NA NA		0.38 NR 0.28 NR NR		NR NR NR	NULL	NR	323 130 184	0.323 0.13 0.184	
	NR	NR													
40.32	3778 3466		0.4 1.4	NR NR		<1 <1		NR NR	0.09 0.57	11 38	NR NR		0.154 0.197	161 197	0.161 0.197
	3336		1	NR		<1.1		NR	0.31	23	NR		0.266	268	0.268
40.32	3934		<0.1	NR	<50	<20		NR	0.03	9.5	1.18	NULL	0.236	236	0.236
	3370		<0.1	NR	NR	NR	<1	NR	0.4	5	43.1	NULL	0.157	157	0.157
	3416 3550		<0.1 0.8 NR	NR NR	NR NR	<1 <1		NR NR	0.37 0.05	22 23	28.3 33.4	NULL NULL	0.168 0.199	168 199	0.168 0.199
	3402		1.2 NR	NR	NR	<1		NR	0.27	44	73.5	0.0166	0.15	192	0.192
	3408		0.3 NR			<1		NR	0.223	29	25.3	0.0155	0.14	168	0.168

22984	1.1	NR	NR	NR	0.17	24	146	0.0004	<0.004	170	0.17
4650	2.1	NR	<1	NR	0.08	10	17.74	12.052	108.957	144905	144.905
NR	NR	NR	NR	NR	NR	NR	NR	0.0345	0.247	286	0.286
3162	<0.1	NR	<1	NR	0.16	74	389	0.0293	0.265	282	0.282
2908	<0.1	NR	<1	NR	0.46	29	74.7	0.026	0.235	350	0.35
2882	0.4	NR	<1	NR	0.41	<1	2.17	0.0171	0.155	784	0.784
2732	<1		<1		0.05	20	23.5		0.13	169	0.169
40.56											
2844	NR		<1		NR	23	38.8		0.237	375	0.375
2938	<1		2		<0.01	8	2.63	0.0125	113	0.113	0.118
2838	0.7		<1		0.03	4	8.09	0.0157	0.142		0.159
2912	0.3		1.42		<0.01	25	72.5	0.0147	0.133		0.149
3176 NR	<1		<1		0.2	20	4.96	0.0175	0.158		0.359
3002	<0.1		<5		<0.01	28	43.3	0.014	0.127		0.13
3158 NR	<1	NR	NR	NR	<0.01	20	30.7	0.0198	0.179		0.2
2858 NR	<1		<5	NR	<0.01	9	3.41	0.0111	0.1		0.1
2876 NR	<1		<5	NR	<0.01	4	0.4	0.0145	0.131		0.133
2960 NR	<1		NR		0.04	7	2.62	0.0133	0.12		0.122
2916 NR	<1		<5	NR	0.05	17	4.32	0.0137	0.124		0.126
2826 NR	<1		<5	NR	0.21	14	29.5	0.0143	0.129		0.137
2780 NR	<1		<5	NR	0.44	13	15.78 7.52 7.52	0.0135	0.122		0.125
2764 NR	<1		NR		0.03	4	1.84	0.0152	0.137		0.147
2742 NR	<1		<5	NR	0.18	7	7.17	0.0148	0.134		0.169
3168 NR	<1		<5	NR	0.32	4	1.7	0.0097	0.088		0.089
39.72											
3174 NR	<1		<5	NR	0.36	20	13	0.0118	0.107		0.113
2884 NR	1		<5	NR	0.1	27	12.42	0.0107	0.097		0.114
3104 NR	<1		NR	NR	0.23	27	13.73	0.0149	0.135		0.157
3050 NR	1		<5	NR	0.43	9	6.29	0.0163	0.147		0.156

4090 NR	1	<5	NR	NR	NR	NR	0.34	9	4.1	25.2	0.0119	0.108	0.161
3500	0.09	<1					<0.02	13	10.24	76	0.0111	0.1	0.11
3300	<0.05	<1					0.03	28	3.74	76	0.0155	0.14	0.11
3200	0.06	<1					<0.02	15	1.57	88	0.0107	0.097	0.11
3300	0.1						<0.02	7	1.32	130	0.0122	0.11	0.12
3200	0.07	<1					<0.02	<5		120	0.0188	0.17	0.16
3300	0.14	<1					<0.02	5	5.54	89	0.0133	0.12	0.12
1250	<1	<1					0.27	9		17.2		<0.004	18 0.018
1272	<1	<1					0.24	4		14.5		0.007	8 0.008
1352	1		1				0.22	3	21.2	29.3	0.0004	4 < 0.004	10 0.01
1308	1.4	<1					0.25 <1			7.14	0.0004	< 0.004	< 0.004
1348 NR	3	<1					0.39	2		48	0.0018	0.016	0.218
1288	1.3	<5					0.26	8		1.96	0.0004	<0.004	<0.004
1350 NR	< 1	< 5	NR	NR	NR	NR	0.26	4	2.1	102	0.0004	< 0.004	< 0.004
1284 NR	1	<5	NR	NR	NR	NR	0.24	1	0.88	80.2	0.0004	<0.004	0.032
1340 NR	<1	<5	NR	NR	NR	NR	0.25	3	1.5	26.6	0.0004	< 0.004	0.034
1336 NR	1	<5	NR	NR	NR	NR	0.4	3		55.3	0.0004	<0.004	<0.004
1324 NR	1	<5	NR	NR	NR	NR	0.57 <1		3.91		0.0004	<0.004	<0.004
1356 NR	<1	<5	NR	NR	NR	NR	0.34	5	7.58	89.7	0.0033	0.03	0.037
1390 NR	2	<5	NR	NR	NR	NR	0.42 <1		4.96	10.8	0.0004	<0.004	<0.004
1398 NR	6	<5	NR	NR	NR	NR	0.45	2	4.88	112	0.0004	<0.004	<0.004
1330 NR	<1	<5	NR	NR	NR	NR	0.24	1	10.7	53.7	0.0004	<0.004	<0.004
1324 NR	3	<5	NR	NR	NR	NR	0.5 <1		2.22	85.4	0.0004	<0.004	0.004
1420 NR	1	<5	NR	NR	NR	NR	0.4 <1		5.88	66.2	0.001	0.009	0.01
1400	1.1		8				0.21	<5	5.84	55	0.0006	<0.005	0.007
1400	1.1		17				0.26	<5	7.28	130	0.0006	<0.005	0.009
1300	1.3		14				0.22	<5	4.86	3.4	0.0006	<0.005	0.029
1200	1.6		13				0.16				0.0006	<0.005	0.031
482	0.3	<0.1					0.07	14	89.9	3			2 0.002

80.67

80.7

83.4

25.5	37.33
23.6	

<5

8.5 2680
358

0.1

501 0.501

21.8	1380
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1 204

0.01

250	0.25
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151

450	0.45
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21.5	1380
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461

72	0.072
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22.4	1500
------	------

36

95	0.095
----	-------

21.9	1710
------	------

744

492 0.492

20.9	1250
------	------

40

0.074

94 0.094

5.82
6.17
6.17
6.39
6.59
6.83
6.83
6.96
21.48
6.99
7.08

	2148		4.3		<20				0.67	142		0.0105		0.083	3080	3.08	
	NR		NA		NA			NA	NR						NR		
	2499		NA		NA			NA		14					738	0.738	
	NA		NA	NA					NA	NA							
	2290		2		<0.1				0.19						331	0.331	
	2380		<0.1	NR	<0.1		NA		0.27	8	NR	NULL	NR		641	0.641	
	1784		2.1	NR	<0.1		NA		0.26	9	NR			0.436	452	0.452	
	NR	NR		NR	<0.1		NA	NR		NR	NR			0.693	870	0.87	
37.49	2106	0.5		NR	<1		NR		0.19	6	NR			0.921	943	0.943	
	2568	1.2		NR	<1		NR		0.47	12	NR			1.482	1666	1.666	
	2160	<0.1		NR	<1.1		NR		0.71	4	NR			0.703	704	0.704	
37.06	2460		1.7	NR	<50	<20		NR	0.46	19.5		67.8	NULL	0.026	870	0.87	
	2494		<0.1	NR	NR	NR	<1	NR	0.61	10		35.1	NULL	0.404	824	0.824	
	2758		<0.1	NR	NR	NR	<1	NR	0.43	4		20.9	NULL	1.505	1553	1.553	
	2848		0.8	NR	NR	NR	<1	NR	0.05	3		2.9	NULL	1.942	1942	1.942	
	3896		1.2	NR	NR	NR	<1	NR	0.32	9		45.2	0.2655	2.4	2902	2.902	
	4146		0.9	NR		<1		NR	0.444	12		110	0.3199	2.892	3050	3.05	
	3606		0.3	NR			1	NR	0.09	6		11.07	0.2196	1.985	3418	3.418	
	1958		0.1	NR		<1		NR	<0.01	19		34.7	0.0436	0.394	434	0.434	
	2038		1.2	NR		<1		NR	0.8	42		108	0.1069	0.966	981	0.981	
	2972		0.3	NR		<1		NR	0.41	8		47.2	0.0882	0.797	841	0.841	
	2342		<1			<1			0.16	9		30.2		1.25	1270	1.27	
	2418		NR			<1			NR	14		20		1.477	1488	1.488	
37.62	2864		<1			<1			0.13	4	11.13	45	0.0982	888	0.888	926	0.926
	2212		1.9			<1			0.14	10		11.77	0.0815	0.737		0.766	
	2196 NR		<1			<1			0.4	10		4.8	0.1196	1.081		1.087	
	2272		<0.1			<5			0.1	13		41.4	0.0884	0.799		0.826	
	2788 NR		<1			<5	NR	NR	0.09	9	6.78	8.99	0.1105	0.999		1.102	
	2458 NR		1			<5	NR	NR	0.1	5	6.84	11.3	0.1185	1.071		1.124	
	2744 NR		<1			<5	NR	NR	0.14	17	6.76	30.8	0.1575	1.424		1.447	
	2244 NR		<1			<5	NR	NR	0.28	2	20.1	28.4	0.0365	0.33		0.35	
	2784 NR		<1			<5	NR	NR	0.46	5	6.61	10.4	0.2397	2.167		2.976	
											6.47						
	3148 NR		28			<5	NR	NR	0.33	63	167	11.4	0.1019	0.921		0.97	
	3464 NR		4			<5	NR	NR	0.62	18	136	128	0.0004	<0.004		0.106	

3042 NR		3	<5	NR	NR	NR	NR	0.56	26	51.2	58.8	0.0004	<0.004	0.338
2878 NR	<1		<5	NR	NR	NR	NR	0.39	11	25.1	22.2	0.0004	<0.004	0.344
3390 NR		1	<5	NR	NR	NR	NR	0.24	9		37	0.0049	0.044	0.242
2542 NR		3	<5	NR	NR	NR	NR	0.41	12	29	34.9	0.0004	<0.004	1.028
3176 NR		1	<5	NR	NR	NR	NR	0.36	13	7.21	25.9	0.5344	4.831	6.556
3200	0.49		<1					0.06	15	17.11	83	0.6194	5.6	5.9
3100	0.19		<1					0.08	8	12.99	43	0.5641	5.1	5.6
2800	0.36		<1					0.1	10	7.24	33	0.4646	4.2	4.8
2800	0.17		<1					0.03	6		13	0.6526	5.9	6.3
3000	0.41		<1					0.02	5	5.63	12	0.5199	4.7	5.4
490	0.53		<1					<0.02	<5	1.01	3		0.015	0.01
790	5.4		<1					<0.02	<5	18.6	<0.5		0.033	0.023
										8.51				
										1.02				

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Variable	Unit	Site	Sample Poi	Data Sourc	Date	Data Point	Graphable	Sample Ref
Arsenic (So mg/L)		GW	A_GW07	SGS	16/03/2019	<0.003	0.003	ENV-19-022
Arsenic (So mg/L)		GW	B_GW01	SGS	17/03/2019	0.007	0.007	ENV-19-022
Arsenic (So mg/L)		GW	C_GW01	SGS	18/03/2019	<0.006	0.006	ENV-19-022
Arsenic (So mg/L)		GW	C_GW09	SGS	17/03/2019	0.007	0.007	ENV-19-022
Arsenic (So mg/L)		GW	P_GW15	SGS	16/03/2019	0.004	0.004	ENV-19-022
Arsenic (So mg/L)		GW	P_GW31	SGS	18/03/2019	<0.003	0.003	ENV-19-022
Arsenic (So mg/L)		GW	P_GW32	SGS	17/03/2019	<0.003	0.003	ENV-19-022
Arsenic (So mg/L)		GW	P_GW33	SGS	18/03/2019	<0.003	0.003	ENV-19-022
Cadmium (mg/L)		GW	A_GW07	SGS	16/03/2019	<0.0001	0.0001	ENV-19-022
Cadmium (mg/L)		GW	B_GW01	SGS	17/03/2019	<0.0001	0.0001	ENV-19-022
Cadmium (mg/L)		GW	C_GW01	SGS	18/03/2019	<0.0002	0.0002	ENV-19-022
Cadmium (mg/L)		GW	C_GW09	SGS	17/03/2019	0.0005	0.0005	ENV-19-022
Cadmium (mg/L)		GW	P_GW15	SGS	16/03/2019	0.0003	0.0003	ENV-19-022
Cadmium (mg/L)		GW	P_GW31	SGS	18/03/2019	<0.0001	0.0001	ENV-19-022
Cadmium (mg/L)		GW	P_GW32	SGS	17/03/2019	<0.0001	0.0001	ENV-19-022
Cadmium (mg/L)		GW	P_GW33	SGS	18/03/2019	<0.0001	0.0001	ENV-19-022
EC (Field)	µS/cm	GW	A_GW07	Field	16/03/2019	831	831	
EC (Field)	µS/cm	GW	B_GW01	Field	17/03/2019	1255	1255	
EC (Field)	µS/cm	GW	C_GW01	Field	18/03/2019	4640	4640	
EC (Field)	µS/cm	GW	C_GW09	Field	17/03/2019	3400	3400	
EC (Field)	µS/cm	GW	P_GW15	Field	16/03/2019	3500	3500	
EC (Field)	µS/cm	GW	P_GW31	Field	18/03/2019	2180	2180	
EC (Field)	µS/cm	GW	P_GW32	Field	17/03/2019	849	849	
EC (Field)	µS/cm	GW	P_GW33	Field	18/03/2019	1047	1047	
EC (Lab)	µS/cm	GW	A_GW07	SGS	16/03/2019	820	820	ENV-19-022
EC (Lab)	µS/cm	GW	B_GW01	SGS	17/03/2019	1300	1300	ENV-19-022
EC (Lab)	µS/cm	GW	C_GW01	SGS	18/03/2019	4900	4900	ENV-19-022
EC (Lab)	µS/cm	GW	C_GW09	SGS	17/03/2019	3600	3600	ENV-19-022
EC (Lab)	µS/cm	GW	P_GW15	SGS	16/03/2019	3100	3100	ENV-19-022
EC (Lab)	µS/cm	GW	P_GW31	SGS	18/03/2019	2100	2100	ENV-19-022
EC (Lab)	µS/cm	GW	P_GW32	SGS	17/03/2019	860	860	ENV-19-022
EC (Lab)	µS/cm	GW	P_GW33	SGS	18/03/2019	1100	1100	ENV-19-022
Lead (Solut mg/L)		GW	A_GW07	SGS	16/03/2019	0.001	0.001	ENV-19-022
Lead (Solut mg/L)		GW	B_GW01	SGS	17/03/2019	0.001	0.001	ENV-19-022
Lead (Solut mg/L)		GW	C_GW01	SGS	18/03/2019	0.003	0.003	ENV-19-022
Lead (Solut mg/L)		GW	C_GW09	SGS	17/03/2019	0.003	0.003	ENV-19-022
Lead (Solut mg/L)		GW	P_GW15	SGS	16/03/2019	0.003	0.003	ENV-19-022
Lead (Solut mg/L)		GW	P_GW31	SGS	18/03/2019	0.001	0.001	ENV-19-022
Lead (Solut mg/L)		GW	P_GW32	SGS	17/03/2019	0.002	0.002	ENV-19-022
Lead (Solut mg/L)		GW	P_GW33	SGS	18/03/2019	0.002	0.002	ENV-19-022
pH (Field)		GW	A_GW07	Field	16/03/2019	6.78	6.78	
pH (Field)		GW	B_GW01	Field	17/03/2019	6.73	6.73	
pH (Field)		GW	C_GW01	Field	18/03/2019	6.33	6.33	
pH (Field)		GW	C_GW09	Field	17/03/2019	5.68	5.68	
pH (Field)		GW	P_GW15	Field	16/03/2019	5.97	5.97	
pH (Field)		GW	P_GW31	Field	18/03/2019	6.75	6.75	
pH (Field)		GW	P_GW32	Field	17/03/2019	6.63	6.63	
pH (Field)		GW	P_GW33	Field	18/03/2019	6.6	6.6	
pH (Lab)		GW	A_GW07	SGS	16/03/2019	7.7	7.7	ENV-19-022
pH (Lab)		GW	B_GW01	SGS	17/03/2019	7.8	7.8	ENV-19-022
pH (Lab)		GW	C_GW01	SGS	18/03/2019	7.6	7.6	ENV-19-022
pH (Lab)		GW	C_GW09	SGS	17/03/2019	6.4	6.4	ENV-19-022
pH (Lab)		GW	P_GW15	SGS	16/03/2019	6.9	6.9	ENV-19-022
pH (Lab)		GW	P_GW31	SGS	18/03/2019	7.8	7.8	ENV-19-022
pH (Lab)		GW	P_GW32	SGS	17/03/2019	7.5	7.5	ENV-19-022
pH (Lab)		GW	P_GW33	SGS	18/03/2019	7.5	7.5	ENV-19-022
Sulfate as S mg/L		GW	A_GW07	SGS	16/03/2019	3.1	3.1	ENV-19-022
Sulfate as S mg/L		GW	B_GW01	SGS	17/03/2019	180	180	ENV-19-022

Sulfate as S mg/L	GW	C_GW01	SGS	18/03/2019	2900	2900 ENV-19-022
Sulfate as S mg/L	GW	C_GW09	SGS	17/03/2019	1800	1800 ENV-19-022
Sulfate as S mg/L	GW	P_GW15	SGS	16/03/2019	1500	1500 ENV-19-022
Sulfate as S mg/L	GW	P_GW31	SGS	18/03/2019	210	210 ENV-19-022
Sulfate as S mg/L	GW	P_GW32	SGS	17/03/2019	9.6	9.6 ENV-19-022
Sulfate as S mg/L	GW	P_GW33	SGS	18/03/2019	150	150 ENV-19-022
SWL mbRP	GW	A_GW07	Field	16/03/2019	116.81	116.81
SWL mbRP	GW	B_GW01	Field	17/03/2019	44.45	44.45
SWL mbRP	GW	C_GW01	Field	18/03/2019	35.33	35.33
SWL mbRP	GW	C_GW09	Field	17/03/2019	3.71	3.71
SWL mbRP	GW	P_GW15	Field	16/03/2019	8.37	8.37
SWL mbRP	GW	P_GW31	Field	18/03/2019	9.16	9.16
SWL mbRP	GW	P_GW32	Field	17/03/2019	117.34	117.34
SWL mbRP	GW	P_GW33	Field	18/03/2019	135.64	135.64
SWL mbRP	GW	PW012	Field	19/02/2019	150.93	150.93
SWL mbRP	GW	PW012	Field	20/03/2019	150.91	150.91
Zinc (Solub mg/L)	GW	A_GW07	SGS	16/03/2019	<0.005	0.005 ENV-19-022
Zinc (Solub mg/L)	GW	B_GW01	SGS	17/03/2019	0.020	0.02 ENV-19-022
Zinc (Solub mg/L)	GW	C_GW01	SGS	18/03/2019	0.020	0.02 ENV-19-022
Zinc (Solub mg/L)	GW	C_GW09	SGS	17/03/2019	0.088	0.088 ENV-19-022
Zinc (Solub mg/L)	GW	P_GW15	SGS	16/03/2019	4.7	4.7 ENV-19-022
Zinc (Solub mg/L)	GW	P_GW31	SGS	18/03/2019	<0.005	0.005 ENV-19-022
Zinc (Solub mg/L)	GW	P_GW32	SGS	17/03/2019	0.005	0.005 ENV-19-022
Zinc (Solub mg/L)	GW	P_GW33	SGS	18/03/2019	0.017	0.017 ENV-19-022

Variable	Unit	Sample Poi Date	Data Point	Graphable Value
Alkalinity as CaCO3	mg/L	A_GW07	24/12/2018	490
Alkalinity as CaCO3	mg/L	A_GW07	16/03/2019	500
Alkalinity as CaCO3	mg/L	B_GW01	24/12/2018	470
Alkalinity as CaCO3	mg/L	B_GW01	17/03/2019	470
Alkalinity as CaCO3	mg/L	C_GW01	18/03/2019	580
Alkalinity as CaCO3	mg/L	C_GW09	25/12/2018	54
Alkalinity as CaCO3	mg/L	C_GW09	17/03/2019	60
Alkalinity as CaCO3	mg/L	P_GW15	24/12/2018	150
Alkalinity as CaCO3	mg/L	P_GW15	16/03/2019	160
Alkalinity as CaCO3	mg/L	P_GW31	26/12/2018	610
Alkalinity as CaCO3	mg/L	P_GW31	18/03/2019	830
Alkalinity as CaCO3	mg/L	P_GW32	29/12/2018	490
Alkalinity as CaCO3	mg/L	P_GW32	21/01/2019	500
Alkalinity as CaCO3	mg/L	P_GW32	17/02/2019	490
Alkalinity as CaCO3	mg/L	P_GW32	17/03/2019	500
Alkalinity as CaCO3	mg/L	P_GW33	26/12/2018	470
Alkalinity as CaCO3	mg/L	P_GW33	21/01/2019	470
Alkalinity as CaCO3	mg/L	P_GW33	17/02/2019	460
Alkalinity as CaCO3	mg/L	P_GW33	18/03/2019	480
Aluminium (Soluble)	mg/L	C_GW09	25/12/2018	0.026
Aluminium (Soluble)	mg/L	C_GW09	17/03/2019	0.02
Aluminium (Total)	mg/L	C_GW09	25/12/2018	0.041
Aluminium (Total)	mg/L	C_GW09	17/03/2019	0.045
Arsenic (Soluble)	mg/L	A_GW07	24/12/2018	<0.003
Arsenic (Soluble)	mg/L	A_GW07	16/03/2019	<0.003
Arsenic (Soluble)	mg/L	B_GW01	24/12/2018	0.006
Arsenic (Soluble)	mg/L	B_GW01	17/03/2019	0.007
Arsenic (Soluble)	mg/L	C_GW01	18/03/2019	<0.006
Arsenic (Soluble)	mg/L	C_GW09	25/12/2018	0.005
Arsenic (Soluble)	mg/L	C_GW09	17/03/2019	0.007
Arsenic (Soluble)	mg/L	P_GW15	24/12/2018	<0.003
Arsenic (Soluble)	mg/L	P_GW15	16/03/2019	0.004
Arsenic (Soluble)	mg/L	P_GW31	26/12/2018	<0.003
Arsenic (Soluble)	mg/L	P_GW31	18/03/2019	<0.003
Arsenic (Soluble)	mg/L	P_GW32	29/12/2018	<0.003
Arsenic (Soluble)	mg/L	P_GW32	21/01/2019	0.006
Arsenic (Soluble)	mg/L	P_GW32	17/02/2019	<0.003
Arsenic (Soluble)	mg/L	P_GW32	17/03/2019	<0.003
Arsenic (Soluble)	mg/L	P_GW33	26/12/2018	<0.003
Arsenic (Soluble)	mg/L	P_GW33	21/01/2019	0.006
Arsenic (Soluble)	mg/L	P_GW33	17/02/2019	0.007
Arsenic (Soluble)	mg/L	P_GW33	18/03/2019	<0.003

Arsenic (Total)	mg/L	A_GW07	24/12/2018	<0.003	0.003
Arsenic (Total)	mg/L	A_GW07	16/03/2019	<0.003	0.003
Arsenic (Total)	mg/L	B_GW01	24/12/2018	0.005	0.005
Arsenic (Total)	mg/L	B_GW01	17/03/2019	0.009	0.009
Arsenic (Total)	mg/L	C_GW01	18/03/2019	<0.006	0.006
Arsenic (Total)	mg/L	C_GW09	25/12/2018	0.007	0.007
Arsenic (Total)	mg/L	C_GW09	17/03/2019	0.007	0.007
Arsenic (Total)	mg/L	P_GW15	24/12/2018	<0.003	0.003
Arsenic (Total)	mg/L	P_GW15	16/03/2019	0.004	0.004
Arsenic (Total)	mg/L	P_GW31	26/12/2018	<0.003	0.003
Arsenic (Total)	mg/L	P_GW31	18/03/2019	<0.003	0.003
Arsenic (Total)	mg/L	P_GW32	29/12/2018	<0.003	0.003
Arsenic (Total)	mg/L	P_GW32	21/01/2019	0.005	0.005
Arsenic (Total)	mg/L	P_GW32	17/02/2019	<0.003	0.003
Arsenic (Total)	mg/L	P_GW32	17/03/2019	<0.003	0.003
Arsenic (Total)	mg/L	P_GW33	26/12/2018	<0.003	0.003
Arsenic (Total)	mg/L	P_GW33	21/01/2019	0.006	0.006
Arsenic (Total)	mg/L	P_GW33	17/02/2019	0.007	0.007
Arsenic (Total)	mg/L	P_GW33	18/03/2019	<0.003	0.003
Boron (Soluble)	mg/L	C_GW09	25/12/2018	0.49	0.49
Boron (Soluble)	mg/L	C_GW09	17/03/2019	0.47	0.47
Boron (Total)	mg/L	C_GW09	25/12/2018	0.54	0.54
Boron (Total)	mg/L	C_GW09	17/03/2019	0.47	0.47
Cadmium (Effective)	mg/L	A_GW07	24/12/2018	8.3769	8.3769
Cadmium (Effective)	mg/L	A_GW07	16/03/2019	8.3769	8.3769
Cadmium (Effective)	mg/L	B_GW01	24/12/2018	9.1747	9.1747
Cadmium (Effective)	mg/L	B_GW01	17/03/2019	9.2745	9.2745
Cadmium (Effective)	mg/L	C_GW01	18/03/2019	36.8984	36.8984
Cadmium (Effective)	mg/L	C_GW09	25/12/2018	13.9615	13.9615
Cadmium (Effective)	mg/L	C_GW09	17/03/2019	14.9588	14.9588
Cadmium (Effective)	mg/L	P_GW15	24/12/2018	18.9478	18.9478
Cadmium (Effective)	mg/L	P_GW15	16/03/2019	20.9423	20.9423
Cadmium (Effective)	mg/L	P_GW31	26/12/2018	13.9615	13.9615
Cadmium (Effective)	mg/L	P_GW31	18/03/2019	14.9588	14.9588
Cadmium (Soluble)	mg/L	A_GW07	24/12/2018	<0.0001	0.0001
Cadmium (Soluble)	mg/L	A_GW07	16/03/2019	<0.0001	0.0001
Cadmium (Soluble)	mg/L	B_GW01	24/12/2018	<0.0001	0.0001
Cadmium (Soluble)	mg/L	B_GW01	17/03/2019	<0.0001	0.0001
Cadmium (Soluble)	mg/L	C_GW01	18/03/2019	<0.0002	0.0002
Cadmium (Soluble)	mg/L	C_GW09	25/12/2018	0.0006	0.0006
Cadmium (Soluble)	mg/L	C_GW09	17/03/2019	0.0005	0.0005
Cadmium (Soluble)	mg/L	P_GW15	24/12/2018	0.0001	0.0001
Cadmium (Soluble)	mg/L	P_GW15	16/03/2019	0.0003	0.0003

Cadmium (Soluble)	mg/L	P_GW31	26/12/2018	<0.0001	0.0001
Cadmium (Soluble)	mg/L	P_GW31	18/03/2019	<0.0001	0.0001
Cadmium (Soluble)	mg/L	P_GW32	29/12/2018	<0.0001	0.0001
Cadmium (Soluble)	mg/L	P_GW32	21/01/2019	<0.0001	0.0001
Cadmium (Soluble)	mg/L	P_GW32	17/02/2019	<0.0001	0.0001
Cadmium (Soluble)	mg/L	P_GW32	17/03/2019	<0.0001	0.0001
Cadmium (Soluble)	mg/L	P_GW33	26/12/2018	<0.0001	0.0001
Cadmium (Soluble)	mg/L	P_GW33	21/01/2019	<0.0001	0.0001
Cadmium (Soluble)	mg/L	P_GW33	17/02/2019	<0.0001	0.0001
Cadmium (Soluble)	mg/L	P_GW33	18/03/2019	<0.0001	0.0001
Cadmium (Total)	mg/L	A_GW07	24/12/2018	<0.0001	0.0001
Cadmium (Total)	mg/L	A_GW07	16/03/2019	<0.0001	0.0001
Cadmium (Total)	mg/L	B_GW01	24/12/2018	<0.0001	0.0001
Cadmium (Total)	mg/L	B_GW01	17/03/2019	<0.0001	0.0001
Cadmium (Total)	mg/L	C_GW01	18/03/2019	<0.0002	0.0002
Cadmium (Total)	mg/L	C_GW09	25/12/2018	0.0007	0.0007
Cadmium (Total)	mg/L	C_GW09	17/03/2019	0.0006	0.0006
Cadmium (Total)	mg/L	P_GW15	24/12/2018	0.0003	0.0003
Cadmium (Total)	mg/L	P_GW15	16/03/2019	0.0003	0.0003
Cadmium (Total)	mg/L	P_GW31	26/12/2018	<0.0001	0.0001
Cadmium (Total)	mg/L	P_GW31	18/03/2019	0.0001	0.0001
Cadmium (Total)	mg/L	P_GW32	29/12/2018	<0.0001	0.0001
Cadmium (Total)	mg/L	P_GW32	21/01/2019	<0.0001	0.0001
Cadmium (Total)	mg/L	P_GW32	17/02/2019	<0.0001	0.0001
Cadmium (Total)	mg/L	P_GW32	17/03/2019	<0.0001	0.0001
Cadmium (Total)	mg/L	P_GW33	26/12/2018	<0.0001	0.0001
Cadmium (Total)	mg/L	P_GW33	21/01/2019	<0.0001	0.0001
Cadmium (Total)	mg/L	P_GW33	17/02/2019	<0.0001	0.0001
Cadmium (Total)	mg/L	P_GW33	18/03/2019	<0.0001	0.0001
Calcium (Soluble)	mg/L	A_GW07	24/12/2018	84	84
Calcium (Soluble)	mg/L	A_GW07	16/03/2019	84	84
Calcium (Soluble)	mg/L	B_GW01	24/12/2018	92	92
Calcium (Soluble)	mg/L	B_GW01	17/03/2019	93	93
Calcium (Soluble)	mg/L	C_GW01	18/03/2019	370	370
Calcium (Soluble)	mg/L	C_GW09	25/12/2018	140	140
Calcium (Soluble)	mg/L	C_GW09	17/03/2019	150	150
Calcium (Soluble)	mg/L	P_GW15	24/12/2018	190	190
Calcium (Soluble)	mg/L	P_GW15	16/03/2019	210	210
Calcium (Soluble)	mg/L	P_GW31	26/12/2018	140	140
Calcium (Soluble)	mg/L	P_GW31	18/03/2019	150	150
Calcium (Soluble)	mg/L	P_GW32	29/12/2018	91	91
Calcium (Soluble)	mg/L	P_GW32	21/01/2019	95	95
Calcium (Soluble)	mg/L	P_GW32	17/02/2019	95	95

Calcium (Soluble)	mg/L	P_GW32	17/03/2019	96	96
Calcium (Soluble)	mg/L	P_GW33	26/12/2018	120	120
Calcium (Soluble)	mg/L	P_GW33	21/01/2019	120	120
Calcium (Soluble)	mg/L	P_GW33	17/02/2019	130	130
Calcium (Soluble)	mg/L	P_GW33	18/03/2019	120	120
Chloride (Soluble)	mg/L	A_GW07	24/12/2018	6	6
Chloride (Soluble)	mg/L	A_GW07	16/03/2019	6	6
Chloride (Soluble)	mg/L	B_GW01	24/12/2018	64	64
Chloride (Soluble)	mg/L	B_GW01	17/03/2019	62	62
Chloride (Soluble)	mg/L	C_GW01	18/03/2019	48	48
Chloride (Soluble)	mg/L	C_GW09	25/12/2018	190	190
Chloride (Soluble)	mg/L	C_GW09	17/03/2019	190	190
Chloride (Soluble)	mg/L	P_GW15	24/12/2018	260	260
Chloride (Soluble)	mg/L	P_GW15	16/03/2019	250	250
Chloride (Soluble)	mg/L	P_GW31	26/12/2018	230	230
Chloride (Soluble)	mg/L	P_GW31	18/03/2019	230	230
Chloride (Soluble)	mg/L	P_GW32	29/12/2018	6	6
Chloride (Soluble)	mg/L	P_GW32	21/01/2019	6	6
Chloride (Soluble)	mg/L	P_GW32	17/02/2019	7	7
Chloride (Soluble)	mg/L	P_GW32	17/03/2019	6	6
Chloride (Soluble)	mg/L	P_GW33	26/12/2018	10	10
Chloride (Soluble)	mg/L	P_GW33	21/01/2019	10	10
Chloride (Soluble)	mg/L	P_GW33	17/02/2019	11	11
Chloride (Soluble)	mg/L	P_GW33	18/03/2019	11	11
Copper (Effective)	mg/L	A_GW07	24/12/2018	0.0001	0.0001
Copper (Effective)	mg/L	A_GW07	16/03/2019	0.0001	0.0001
Copper (Effective)	mg/L	B_GW01	24/12/2018	0.0001	0.0001
Copper (Effective)	mg/L	B_GW01	17/03/2019	0.0003	0.0003
Copper (Effective)	mg/L	C_GW01	18/03/2019	0.0004	0.0004
Copper (Effective)	mg/L	C_GW09	25/12/2018	0.0001	0.0001
Copper (Effective)	mg/L	C_GW09	17/03/2019	0.0001	0.0001
Copper (Effective)	mg/L	P_GW15	24/12/2018	0.0001	0.0001
Copper (Effective)	mg/L	P_GW15	16/03/2019	0.0001	0.0001
Copper (Effective)	mg/L	P_GW31	26/12/2018	0.0001	0.0001
Copper (Effective)	mg/L	P_GW31	18/03/2019	0.0001	0.0001
Copper (Soluble)	mg/L	A_GW07	24/12/2018	<0.001	0.001
Copper (Soluble)	mg/L	A_GW07	16/03/2019	<0.001	0.001
Copper (Soluble)	mg/L	B_GW01	24/12/2018	<0.001	0.001
Copper (Soluble)	mg/L	B_GW01	17/03/2019	0.003	0.003
Copper (Soluble)	mg/L	C_GW01	18/03/2019	0.004	0.004
Copper (Soluble)	mg/L	C_GW09	25/12/2018	<0.001	0.001
Copper (Soluble)	mg/L	C_GW09	17/03/2019	<0.001	0.001
Copper (Soluble)	mg/L	P_GW15	24/12/2018	<0.001	0.001

Copper (Soluble)	mg/L	P_GW15	16/03/2019	<0.001	0.001
Copper (Soluble)	mg/L	P_GW31	26/12/2018	<0.001	0.001
Copper (Soluble)	mg/L	P_GW31	18/03/2019	<0.001	0.001
Copper (Soluble)	mg/L	P_GW32	29/12/2018	<0.001	0.001
Copper (Soluble)	mg/L	P_GW32	21/01/2019	<0.001	0.001
Copper (Soluble)	mg/L	P_GW32	17/02/2019	<0.001	0.001
Copper (Soluble)	mg/L	P_GW32	17/03/2019	<0.001	0.001
Copper (Soluble)	mg/L	P_GW33	26/12/2018	<0.001	0.001
Copper (Soluble)	mg/L	P_GW33	21/01/2019	<0.001	0.001
Copper (Soluble)	mg/L	P_GW33	17/02/2019	<0.001	0.001
Copper (Soluble)	mg/L	P_GW33	18/03/2019	<0.001	0.001
Copper (Total)	mg/L	A_GW07	24/12/2018	<0.001	0.001
Copper (Total)	mg/L	A_GW07	16/03/2019	<0.001	0.001
Copper (Total)	mg/L	B_GW01	24/12/2018	<0.001	0.001
Copper (Total)	mg/L	B_GW01	17/03/2019	0.003	0.003
Copper (Total)	mg/L	C_GW01	18/03/2019	0.003	0.003
Copper (Total)	mg/L	C_GW09	25/12/2018	0.002	0.002
Copper (Total)	mg/L	C_GW09	17/03/2019	0.002	0.002
Copper (Total)	mg/L	P_GW15	24/12/2018	0.004	0.004
Copper (Total)	mg/L	P_GW15	16/03/2019	0.005	0.005
Copper (Total)	mg/L	P_GW31	26/12/2018	<0.001	0.001
Copper (Total)	mg/L	P_GW31	18/03/2019	<0.001	0.001
Copper (Total)	mg/L	P_GW32	29/12/2018	<0.001	0.001
Copper (Total)	mg/L	P_GW32	21/01/2019	<0.001	0.001
Copper (Total)	mg/L	P_GW32	17/02/2019	<0.001	0.001
Copper (Total)	mg/L	P_GW32	17/03/2019	0.003	0.003
Copper (Total)	mg/L	P_GW33	26/12/2018	<0.001	0.001
Copper (Total)	mg/L	P_GW33	21/01/2019	<0.001	0.001
Copper (Total)	mg/L	P_GW33	17/02/2019	<0.001	0.001
Copper (Total)	mg/L	P_GW33	18/03/2019	<0.001	0.001
Cyanide WAD	mg/L	A_GW07	24/12/2018	<0.004	0.004
Cyanide WAD	mg/L	B_GW01	24/12/2018	<0.004	0.004
Cyanide WAD	mg/L	C_GW09	25/12/2018	<0.004	0.004
Cyanide WAD	mg/L	P_GW15	24/12/2018	<0.004	0.004
Cyanide WAD	mg/L	P_GW31	26/12/2018	<0.004	0.004
Cyanide WAD	mg/L	P_GW32	29/12/2018	<0.004	0.004
Cyanide WAD	mg/L	P_GW32	21/01/2019	<0.004	0.004
Cyanide WAD	mg/L	P_GW32	17/02/2019	<0.004	0.004
Cyanide WAD	mg/L	P_GW33	26/12/2018	<0.004	0.004
Cyanide WAD	mg/L	P_GW33	21/01/2019	<0.004	0.004
Cyanide WAD	mg/L	P_GW33	17/02/2019	<0.004	0.004
EC (Field)	µS/cm	A_GW07	24/12/2018	851	851
EC (Field)	µS/cm	A_GW07	16/03/2019	831	831

EC (Field)	µS/cm	B_GW01	24/12/2018	1291	1291
EC (Field)	µS/cm	B_GW01	17/03/2019	1255	1255
EC (Field)	µS/cm	C_GW01	18/03/2019	4640	4640
EC (Field)	µS/cm	C_GW09	25/12/2018	3350	3350
EC (Field)	µS/cm	C_GW09	17/03/2019	3400	3400
EC (Field)	µS/cm	P_GW15	24/12/2018	3170	3170
EC (Field)	µS/cm	P_GW15	16/03/2019	3500	3500
EC (Field)	µS/cm	P_GW31	26/12/2018	2240	2240
EC (Field)	µS/cm	P_GW31	18/03/2019	2180	2180
EC (Field)	µS/cm	P_GW32	26/12/2018	1043	1043
EC (Field)	µS/cm	P_GW32	21/01/2019	789	789
EC (Field)	µS/cm	P_GW32	17/02/2019	863	863
EC (Field)	µS/cm	P_GW32	17/03/2019	849	849
EC (Field)	µS/cm	P_GW32	16/04/2019	852	852
EC (Field)	µS/cm	P_GW33	29/12/2018	857	857
EC (Field)	µS/cm	P_GW33	21/01/2019	943	943
EC (Field)	µS/cm	P_GW33	17/02/2019	1066	1066
EC (Field)	µS/cm	P_GW33	18/03/2019	1047	1047
EC (Field)	µS/cm	P_GW33	16/04/2019	1070	1070
EC (Lab)	µS/cm	A_GW07	24/12/2018	840	840
EC (Lab)	µS/cm	A_GW07	16/03/2019	820	820
EC (Lab)	µS/cm	B_GW01	24/12/2018	1300	1300
EC (Lab)	µS/cm	B_GW01	17/03/2019	1300	1300
EC (Lab)	µS/cm	C_GW01	18/03/2019	4900	4900
EC (Lab)	µS/cm	C_GW09	25/12/2018	3500	3500
EC (Lab)	µS/cm	C_GW09	17/03/2019	3600	3600
EC (Lab)	µS/cm	P_GW15	24/12/2018	3100	3100
EC (Lab)	µS/cm	P_GW15	16/03/2019	3100	3100
EC (Lab)	µS/cm	P_GW31	26/12/2018	2200	2200
EC (Lab)	µS/cm	P_GW31	18/03/2019	2100	2100
EC (Lab)	µS/cm	P_GW32	29/12/2018	860	860
EC (Lab)	µS/cm	P_GW32	21/01/2019	850	850
EC (Lab)	µS/cm	P_GW32	17/02/2019	870	870
EC (Lab)	µS/cm	P_GW32	17/03/2019	860	860
EC (Lab)	µS/cm	P_GW33	26/12/2018	1100	1100
EC (Lab)	µS/cm	P_GW33	21/01/2019	1100	1100
EC (Lab)	µS/cm	P_GW33	17/02/2019	1100	1100
EC (Lab)	µS/cm	P_GW33	18/03/2019	1100	1100
Field Notes		A_GW07	24/12/2018	water clear with slight yellowy/orange tinge	
Field Notes		A_GW07	16/03/2019	Water has yellowish tinge	
Field Notes		B_GW01	24/12/2018	Water clear with very slight orange tinge. Some sediment on bottom of flow through bucket	
Field Notes		B_GW01	17/03/2019	Water clear with slight yellowish tinge	
Field Notes		C_GW01	26/12/2018	No sample taken as micro purge low flow pump failed.	

Field Notes		C_GW01	18/03/2019	Water cloudy with greyish tinge.	
Field Notes		C_GW09	25/12/2018	Water clear with slight yellow tinge	
Field Notes		C_GW09	17/03/2019	Water clear with slight orange tinge.	
Field Notes		NM_GW14	26/12/2018	Dry. No sample taken.	
Field Notes		NM_GW14	18/03/2019	Dry	
Field Notes		NM_GW14	18/04/2019	Dry.	
Field Notes		P_GW15	24/12/2018	Water clear with very slight yellow tinge	
Field Notes		P_GW15	16/03/2019	Water clear.	
Field Notes		P_GW31	26/12/2018	Water greyish and cloudy. Rotten egg smell present.	
Field Notes		P_GW31	18/03/2019	Water has greyish tinge and sulphur smell.	
Field Notes		P_GW32	26/12/2018	Water clear. Slight smell.	
Field Notes		P_GW32	21/01/2019	40:20, 250 psi, water slightly cloudy	
Field Notes		P_GW32	17/03/2019	Water clear with very slight yellowish tinge	
Field Notes		P_GW32	16/04/2019	40:20. 250psi. Water clear	
Field Notes		P_GW33	29/12/2018	Water slightly cloudy with slight orange tinge.	
Field Notes		P_GW33	21/01/2019	water clear	
Field Notes		P_GW33	18/03/2019	Water clear	
Field Notes		P_GW33	16/04/2019	40:20. 280 psi. Water clear	
Fluoride (Total)	mg/L	C_GW09	25/12/2018	0.6	0.6
Fluoride (Total)	mg/L	C_GW09	17/03/2019	0.5	0.5
H/30		A_GW07	24/12/2018	13.3333	13.3333
H/30		A_GW07	16/03/2019	13.3333	13.3333
H/30		B_GW01	24/12/2018	13.3333	13.3333
H/30		B_GW01	17/03/2019	13.3333	13.3333
H/30		C_GW01	18/03/2019	13.3333	13.3333
H/30		C_GW09	25/12/2018	13.3333	13.3333
H/30		C_GW09	17/03/2019	13.3333	13.3333
H/30		P_GW15	24/12/2018	13.3333	13.3333
H/30		P_GW15	16/03/2019	13.3333	13.3333
H/30		P_GW31	26/12/2018	13.3333	13.3333
H/30		P_GW31	18/03/2019	13.3333	13.3333
Hardness as CaCO3	mg/L	A_GW07	24/12/2018	456.8280	456.828
Hardness as CaCO3	mg/L	A_GW07	16/03/2019	460.9460	460.946
Hardness as CaCO3	mg/L	B_GW01	24/12/2018	555.0460	555.046
Hardness as CaCO3	mg/L	B_GW01	17/03/2019	557.5430	557.543
Hardness as CaCO3	mg/L	C_GW01	18/03/2019	2,529.9100	2529.91
Hardness as CaCO3	mg/L	C_GW09	25/12/2018	1,214.3600	1214.36
Hardness as CaCO3	mg/L	C_GW09	17/03/2019	1,362.8700	1362.87
Hardness as CaCO3	mg/L	P_GW15	24/12/2018	1,545.1100	1545.11
Hardness as CaCO3	mg/L	P_GW15	16/03/2019	1,718.5900	1718.59
Hardness as CaCO3	mg/L	P_GW31	26/12/2018	802.5600	802.56
Hardness as CaCO3	mg/L	P_GW31	18/03/2019	827.5300	827.53
Iron (Soluble)	mg/L	A_GW07	24/12/2018	2.1	2.1

Iron (Soluble)	mg/L	A_GW07	16/03/2019	1.8	1.8
Iron (Soluble)	mg/L	B_GW01	24/12/2018	0.040	0.04
Iron (Soluble)	mg/L	B_GW01	17/03/2019	0.064	0.064
Iron (Soluble)	mg/L	C_GW01	18/03/2019	0.17	0.17
Iron (Soluble)	mg/L	C_GW09	25/12/2018	22	22
Iron (Soluble)	mg/L	C_GW09	17/03/2019	23	23
Iron (Soluble)	mg/L	P_GW15	24/12/2018	1.9	1.9
Iron (Soluble)	mg/L	P_GW15	16/03/2019	3.2	3.2
Iron (Soluble)	mg/L	P_GW31	26/12/2018	0.010	0.01
Iron (Soluble)	mg/L	P_GW31	18/03/2019	0.014	0.014
Iron (Soluble)	mg/L	P_GW32	29/12/2018	0.005	0.005
Iron (Soluble)	mg/L	P_GW32	21/01/2019	<0.005	0.005
Iron (Soluble)	mg/L	P_GW32	17/02/2019	<0.005	0.005
Iron (Soluble)	mg/L	P_GW32	17/03/2019	<0.005	0.005
Iron (Soluble)	mg/L	P_GW33	26/12/2018	0.008	0.008
Iron (Soluble)	mg/L	P_GW33	21/01/2019	<0.005	0.005
Iron (Soluble)	mg/L	P_GW33	17/02/2019	<0.005	0.005
Iron (Soluble)	mg/L	P_GW33	18/03/2019	<0.005	0.005
Iron (Total)	mg/L	A_GW07	24/12/2018	2.2	2.2
Iron (Total)	mg/L	A_GW07	16/03/2019	2.1	2.1
Iron (Total)	mg/L	B_GW01	24/12/2018	0.33	0.33
Iron (Total)	mg/L	B_GW01	17/03/2019	0.51	0.51
Iron (Total)	mg/L	C_GW01	18/03/2019	0.50	0.5
Iron (Total)	mg/L	C_GW09	25/12/2018	25	25
Iron (Total)	mg/L	C_GW09	17/03/2019	24	24
Iron (Total)	mg/L	P_GW15	24/12/2018	2.6	2.6
Iron (Total)	mg/L	P_GW15	16/03/2019	3.8	3.8
Iron (Total)	mg/L	P_GW31	26/12/2018	0.081	0.081
Iron (Total)	mg/L	P_GW31	18/03/2019	0.065	0.065
Iron (Total)	mg/L	P_GW32	29/12/2018	0.55	0.55
Iron (Total)	mg/L	P_GW32	21/01/2019	1.8	1.8
Iron (Total)	mg/L	P_GW32	17/02/2019	0.82	0.82
Iron (Total)	mg/L	P_GW32	17/03/2019	0.27	0.27
Iron (Total)	mg/L	P_GW33	26/12/2018	0.074	0.074
Iron (Total)	mg/L	P_GW33	21/01/2019	0.015	0.015
Iron (Total)	mg/L	P_GW33	17/02/2019	0.007	0.007
Iron (Total)	mg/L	P_GW33	18/03/2019	0.006	0.006
Lead (Effective)	mg/L	A_GW07	24/12/2018	0.0000	0
Lead (Effective)	mg/L	A_GW07	16/03/2019	0.0000	0
Lead (Effective)	mg/L	B_GW01	24/12/2018	0.0000	0
Lead (Effective)	mg/L	B_GW01	17/03/2019	0.0000	0
Lead (Effective)	mg/L	C_GW01	18/03/2019	0.0001	0.0001
Lead (Effective)	mg/L	C_GW09	25/12/2018	0.0001	0.0001

Lead (Effective)	mg/L	C_GW09	17/03/2019 0.0001	0.0001
Lead (Effective)	mg/L	P_GW15	24/12/2018 0.0001	0.0001
Lead (Effective)	mg/L	P_GW15	16/03/2019 0.0001	0.0001
Lead (Effective)	mg/L	P_GW31	26/12/2018 0.0000	0
Lead (Effective)	mg/L	P_GW31	18/03/2019 0.0000	0
Lead (Soluble)	mg/L	A_GW07	24/12/2018 0.001	0.001
Lead (Soluble)	mg/L	A_GW07	16/03/2019 0.001	0.001
Lead (Soluble)	mg/L	B_GW01	24/12/2018 0.001	0.001
Lead (Soluble)	mg/L	B_GW01	17/03/2019 0.001	0.001
Lead (Soluble)	mg/L	C_GW01	18/03/2019 0.003	0.003
Lead (Soluble)	mg/L	C_GW09	25/12/2018 0.002	0.002
Lead (Soluble)	mg/L	C_GW09	17/03/2019 0.003	0.003
Lead (Soluble)	mg/L	P_GW15	24/12/2018 0.003	0.003
Lead (Soluble)	mg/L	P_GW15	16/03/2019 0.003	0.003
Lead (Soluble)	mg/L	P_GW31	26/12/2018 0.001	0.001
Lead (Soluble)	mg/L	P_GW31	18/03/2019 0.001	0.001
Lead (Soluble)	mg/L	P_GW32	29/12/2018 0.001	0.001
Lead (Soluble)	mg/L	P_GW32	21/01/2019 0.002	0.002
Lead (Soluble)	mg/L	P_GW32	17/02/2019 <0.001	0.001
Lead (Soluble)	mg/L	P_GW32	17/03/2019 0.002	0.002
Lead (Soluble)	mg/L	P_GW33	26/12/2018 0.001	0.001
Lead (Soluble)	mg/L	P_GW33	21/01/2019 <0.001	0.001
Lead (Soluble)	mg/L	P_GW33	17/02/2019 <0.001	0.001
Lead (Soluble)	mg/L	P_GW33	18/03/2019 0.002	0.002
Lead (Total)	mg/L	A_GW07	24/12/2018 <0.001	0.001
Lead (Total)	mg/L	A_GW07	16/03/2019 0.002	0.002
Lead (Total)	mg/L	B_GW01	24/12/2018 0.001	0.001
Lead (Total)	mg/L	B_GW01	17/03/2019 0.003	0.003
Lead (Total)	mg/L	C_GW01	18/03/2019 0.004	0.004
Lead (Total)	mg/L	C_GW09	25/12/2018 0.002	0.002
Lead (Total)	mg/L	C_GW09	17/03/2019 0.003	0.003
Lead (Total)	mg/L	P_GW15	24/12/2018 0.005	0.005
Lead (Total)	mg/L	P_GW15	16/03/2019 0.004	0.004
Lead (Total)	mg/L	P_GW31	26/12/2018 0.002	0.002
Lead (Total)	mg/L	P_GW31	18/03/2019 0.002	0.002
Lead (Total)	mg/L	P_GW32	29/12/2018 <0.001	0.001
Lead (Total)	mg/L	P_GW32	21/01/2019 0.002	0.002
Lead (Total)	mg/L	P_GW32	17/02/2019 0.001	0.001
Lead (Total)	mg/L	P_GW32	17/03/2019 0.002	0.002
Lead (Total)	mg/L	P_GW33	26/12/2018 0.002	0.002
Lead (Total)	mg/L	P_GW33	21/01/2019 <0.001	0.001
Lead (Total)	mg/L	P_GW33	17/02/2019 0.001	0.001
Lead (Total)	mg/L	P_GW33	18/03/2019 0.001	0.001

Magnesium (Soluble)	mg/L	A_GW07	24/12/2018	60	60
Magnesium (Soluble)	mg/L	A_GW07	16/03/2019	61	61
Magnesium (Soluble)	mg/L	B_GW01	24/12/2018	79	79
Magnesium (Soluble)	mg/L	B_GW01	17/03/2019	79	79
Magnesium (Soluble)	mg/L	C_GW01	18/03/2019	390	390
Magnesium (Soluble)	mg/L	C_GW09	25/12/2018	210	210
Magnesium (Soluble)	mg/L	C_GW09	17/03/2019	240	240
Magnesium (Soluble)	mg/L	P_GW15	24/12/2018	260	260
Magnesium (Soluble)	mg/L	P_GW15	16/03/2019	290	290
Magnesium (Soluble)	mg/L	P_GW31	26/12/2018	110	110
Magnesium (Soluble)	mg/L	P_GW31	18/03/2019	110	110
Magnesium (Soluble)	mg/L	P_GW32	29/12/2018	57	57
Magnesium (Soluble)	mg/L	P_GW32	21/01/2019	57	57
Magnesium (Soluble)	mg/L	P_GW32	17/02/2019	58	58
Magnesium (Soluble)	mg/L	P_GW32	17/03/2019	58	58
Magnesium (Soluble)	mg/L	P_GW33	26/12/2018	74	74
Magnesium (Soluble)	mg/L	P_GW33	21/01/2019	76	76
Magnesium (Soluble)	mg/L	P_GW33	17/02/2019	77	77
Magnesium (Soluble)	mg/L	P_GW33	18/03/2019	76	76
Manganese (Soluble)	mg/L	A_GW07	24/12/2018	0.18	0.18
Manganese (Soluble)	mg/L	A_GW07	16/03/2019	0.17	0.17
Manganese (Soluble)	mg/L	B_GW01	24/12/2018	0.45	0.45
Manganese (Soluble)	mg/L	B_GW01	17/03/2019	0.47	0.47
Manganese (Soluble)	mg/L	C_GW01	18/03/2019	0.12	0.12
Manganese (Soluble)	mg/L	C_GW09	25/12/2018	3.7	3.7
Manganese (Soluble)	mg/L	C_GW09	17/03/2019	3.8	3.8
Manganese (Soluble)	mg/L	P_GW15	24/12/2018	15	15
Manganese (Soluble)	mg/L	P_GW15	16/03/2019	11	11
Manganese (Soluble)	mg/L	P_GW31	26/12/2018	0.12	0.12
Manganese (Soluble)	mg/L	P_GW31	18/03/2019	0.11	0.11
Manganese (Soluble)	mg/L	P_GW32	29/12/2018	<0.005	0.005
Manganese (Soluble)	mg/L	P_GW32	21/01/2019	<0.005	0.005
Manganese (Soluble)	mg/L	P_GW32	17/02/2019	<0.005	0.005
Manganese (Soluble)	mg/L	P_GW32	17/03/2019	<0.005	0.005
Manganese (Soluble)	mg/L	P_GW33	26/12/2018	<0.005	0.005
Manganese (Soluble)	mg/L	P_GW33	21/01/2019	<0.005	0.005
Manganese (Soluble)	mg/L	P_GW33	17/02/2019	<0.005	0.005
Manganese (Soluble)	mg/L	P_GW33	18/03/2019	<0.005	0.005
pH (Field)		A_GW07	24/12/2018	6.74	6.74
pH (Field)		A_GW07	16/03/2019	6.78	6.78
pH (Field)		B_GW01	24/12/2018	6.77	6.77
pH (Field)		B_GW01	17/03/2019	6.73	6.73
pH (Field)		C_GW01	18/03/2019	6.33	6.33

pH (Field)		C_GW09	25/12/2018	5.36	5.36
pH (Field)		C_GW09	17/03/2019	5.68	5.68
pH (Field)		P_GW15	24/12/2018	6.16	6.16
pH (Field)		P_GW15	16/03/2019	5.97	5.97
pH (Field)		P_GW31	26/12/2018	6.63	6.63
pH (Field)		P_GW31	18/03/2019	6.75	6.75
pH (Field)		P_GW32	26/12/2018	6.52	6.52
pH (Field)		P_GW32	21/01/2019	6.65	6.65
pH (Field)		P_GW32	17/02/2019	6.61	6.61
pH (Field)		P_GW32	17/03/2019	6.63	6.63
pH (Field)		P_GW32	16/04/2019	6.68	6.68
pH (Field)		P_GW33	29/12/2018	6.46	6.46
pH (Field)		P_GW33	21/01/2019	6.61	6.61
pH (Field)		P_GW33	17/02/2019	6.51	6.51
pH (Field)		P_GW33	18/03/2019	6.6	6.6
pH (Field)		P_GW33	16/04/2019	6.59	6.59
pH (Lab)		A_GW07	24/12/2018	7.7	7.7
pH (Lab)		A_GW07	16/03/2019	7.7	7.7
pH (Lab)		B_GW01	24/12/2018	7.8	7.8
pH (Lab)		B_GW01	17/03/2019	7.8	7.8
pH (Lab)		C_GW01	18/03/2019	7.6	7.6
pH (Lab)		C_GW09	25/12/2018	6.6	6.6
pH (Lab)		C_GW09	17/03/2019	6.4	6.4
pH (Lab)		P_GW15	24/12/2018	7.3	7.3
pH (Lab)		P_GW15	16/03/2019	6.9	6.9
pH (Lab)		P_GW31	26/12/2018	7.8	7.8
pH (Lab)		P_GW31	18/03/2019	7.8	7.8
pH (Lab)		P_GW32	29/12/2018	7.7	7.7
pH (Lab)		P_GW32	21/01/2019	7.4	7.4
pH (Lab)		P_GW32	17/02/2019	7.5	7.5
pH (Lab)		P_GW32	17/03/2019	7.5	7.5
pH (Lab)		P_GW33	26/12/2018	7.6	7.6
pH (Lab)		P_GW33	21/01/2019	7.3	7.3
pH (Lab)		P_GW33	17/02/2019	7.5	7.5
pH (Lab)		P_GW33	18/03/2019	7.5	7.5
Potassium (Soluble)	mg/L	A_GW07	24/12/2018	2.4	2.4
Potassium (Soluble)	mg/L	A_GW07	16/03/2019	2.6	2.6
Potassium (Soluble)	mg/L	B_GW01	24/12/2018	16	16
Potassium (Soluble)	mg/L	B_GW01	17/03/2019	18	18
Potassium (Soluble)	mg/L	C_GW01	18/03/2019	50	50
Potassium (Soluble)	mg/L	C_GW09	25/12/2018	83	83
Potassium (Soluble)	mg/L	C_GW09	17/03/2019	95	95
Potassium (Soluble)	mg/L	P_GW15	24/12/2018	67	67

Potassium (Soluble)	mg/L	P_GW15	16/03/2019	77	77
Potassium (Soluble)	mg/L	P_GW31	26/12/2018	61	61
Potassium (Soluble)	mg/L	P_GW31	18/03/2019	61	61
Potassium (Soluble)	mg/L	P_GW32	29/12/2018	0.7	0.7
Potassium (Soluble)	mg/L	P_GW32	21/01/2019	0.7	0.7
Potassium (Soluble)	mg/L	P_GW32	17/02/2019	0.7	0.7
Potassium (Soluble)	mg/L	P_GW32	17/03/2019	0.7	0.7
Potassium (Soluble)	mg/L	P_GW33	26/12/2018	0.7	0.7
Potassium (Soluble)	mg/L	P_GW33	21/01/2019	0.7	0.7
Potassium (Soluble)	mg/L	P_GW33	17/02/2019	0.6	0.6
Potassium (Soluble)	mg/L	P_GW33	18/03/2019	0.7	0.7
Sodium (Soluble)	mg/L	A_GW07	24/12/2018	6.4	6.4
Sodium (Soluble)	mg/L	A_GW07	16/03/2019	5.8	5.8
Sodium (Soluble)	mg/L	B_GW01	24/12/2018	59	59
Sodium (Soluble)	mg/L	B_GW01	17/03/2019	58	58
Sodium (Soluble)	mg/L	C_GW01	18/03/2019	380	380
Sodium (Soluble)	mg/L	C_GW09	25/12/2018	300	300
Sodium (Soluble)	mg/L	C_GW09	17/03/2019	310	310
Sodium (Soluble)	mg/L	P_GW15	24/12/2018	120	120
Sodium (Soluble)	mg/L	P_GW15	16/03/2019	110	110
Sodium (Soluble)	mg/L	P_GW31	26/12/2018	130	130
Sodium (Soluble)	mg/L	P_GW31	18/03/2019	120	120
Sodium (Soluble)	mg/L	P_GW32	29/12/2018	2.9	2.9
Sodium (Soluble)	mg/L	P_GW32	21/01/2019	3.2	3.2
Sodium (Soluble)	mg/L	P_GW32	17/02/2019	3.1	3.1
Sodium (Soluble)	mg/L	P_GW32	17/03/2019	3.0	3
Sodium (Soluble)	mg/L	P_GW33	26/12/2018	4.0	4
Sodium (Soluble)	mg/L	P_GW33	21/01/2019	4.4	4.4
Sodium (Soluble)	mg/L	P_GW33	17/02/2019	4.1	4.1
Sodium (Soluble)	mg/L	P_GW33	18/03/2019	4.1	4.1
Sulfate as SO4 (Dissolved)	mg/L	A_GW07	24/12/2018	2.3	2.3
Sulfate as SO4 (Dissolved)	mg/L	A_GW07	16/03/2019	3.1	3.1
Sulfate as SO4 (Dissolved)	mg/L	B_GW01	24/12/2018	190	190
Sulfate as SO4 (Dissolved)	mg/L	B_GW01	17/03/2019	180	180
Sulfate as SO4 (Dissolved)	mg/L	C_GW01	18/03/2019	2900	2900
Sulfate as SO4 (Dissolved)	mg/L	C_GW09	25/12/2018	2000	2000
Sulfate as SO4 (Dissolved)	mg/L	C_GW09	17/03/2019	1800	1800
Sulfate as SO4 (Dissolved)	mg/L	P_GW15	24/12/2018	1400	1400
Sulfate as SO4 (Dissolved)	mg/L	P_GW15	16/03/2019	1500	1500
Sulfate as SO4 (Dissolved)	mg/L	P_GW31	26/12/2018	610	610
Sulfate as SO4 (Dissolved)	mg/L	P_GW31	18/03/2019	210	210
Sulfate as SO4 (Dissolved)	mg/L	P_GW32	29/12/2018	11	11
Sulfate as SO4 (Dissolved)	mg/L	P_GW32	21/01/2019	10	10

Sulfate as SO4 (Dissolved)	mg/L	P_GW32	17/02/2019	10	10
Sulfate as SO4 (Dissolved)	mg/L	P_GW32	17/03/2019	9.6	9.6
Sulfate as SO4 (Dissolved)	mg/L	P_GW33	26/12/2018	150	150
Sulfate as SO4 (Dissolved)	mg/L	P_GW33	21/01/2019	150	150
Sulfate as SO4 (Dissolved)	mg/L	P_GW33	17/02/2019	150	150
Sulfate as SO4 (Dissolved)	mg/L	P_GW33	18/03/2019	150	150
Sulfate as SO4 (Total)	mg/L	A_GW07	24/12/2018	2.2	2.2
Sulfate as SO4 (Total)	mg/L	A_GW07	16/03/2019	3.2	3.2
Sulfate as SO4 (Total)	mg/L	B_GW01	24/12/2018	210	210
Sulfate as SO4 (Total)	mg/L	B_GW01	17/03/2019	190	190
Sulfate as SO4 (Total)	mg/L	C_GW01	18/03/2019	2900	2900
Sulfate as SO4 (Total)	mg/L	C_GW09	25/12/2018	2000	2000
Sulfate as SO4 (Total)	mg/L	C_GW09	17/03/2019	1900	1900
Sulfate as SO4 (Total)	mg/L	P_GW15	24/12/2018	1600	1600
Sulfate as SO4 (Total)	mg/L	P_GW15	16/03/2019	1400	1400
Sulfate as SO4 (Total)	mg/L	P_GW31	26/12/2018	250	250
Sulfate as SO4 (Total)	mg/L	P_GW31	18/03/2019	1400	1400
Sulfate as SO4 (Total)	mg/L	P_GW32	29/12/2018	12	12
Sulfate as SO4 (Total)	mg/L	P_GW32	21/01/2019	11	11
Sulfate as SO4 (Total)	mg/L	P_GW32	17/02/2019	10	10
Sulfate as SO4 (Total)	mg/L	P_GW32	17/03/2019	9.6	9.6
Sulfate as SO4 (Total)	mg/L	P_GW33	26/12/2018	180	180
Sulfate as SO4 (Total)	mg/L	P_GW33	21/01/2019	150	150
Sulfate as SO4 (Total)	mg/L	P_GW33	17/02/2019	160	160
Sulfate as SO4 (Total)	mg/L	P_GW33	18/03/2019	160	160
SWL	mbRP	A_GW07	24/12/2018	116.69	116.69
SWL	mbRP	A_GW07	16/03/2019	116.81	116.81
SWL	mbRP	B_GW01	24/12/2018	43.97	43.97
SWL	mbRP	B_GW01	17/03/2019	44.45	44.45
SWL	mbRP	B_GW01	17/04/2019	47.13	47.13
SWL	mbRP	C_GW01	26/12/2018	35.3	35.3
SWL	mbRP	C_GW01	18/03/2019	35.33	35.33
SWL	mbRP	C_GW01	17/04/2019	35.33	35.33
SWL	mbRP	C_GW09	25/12/2018	3.9	3.9
SWL	mbRP	C_GW09	19/01/2019	3.99	3.99
SWL	mbRP	C_GW09	16/02/2019	3.87	3.87
SWL	mbRP	C_GW09	17/03/2019	3.71	3.71
SWL	mbRP	C_GW09	17/04/2019	3.75	3.75
SWL	mbRP	P_GW15	24/12/2018	8.43	8.43
SWL	mbRP	P_GW15	16/03/2019	8.37	8.37
SWL	mbRP	P_GW15	17/04/2019	8.22	8.22
SWL	mbRP	P_GW31	26/12/2018	9.14	9.14
SWL	mbRP	P_GW31	18/03/2019	9.16	9.16

SWL	mbRP	P_GW31	17/04/2019 9.46	9.46
SWL	mbRP	P_GW32	26/12/2018 135.61	135.61
SWL	mbRP	P_GW32	21/01/2019 116.38	116.38
SWL	mbRP	P_GW32	17/02/2019 117.39	117.39
SWL	mbRP	P_GW32	17/03/2019 117.34	117.34
SWL	mbRP	P_GW32	16/04/2019 117.38	117.38
SWL	mbRP	P_GW33	29/12/2018 117.34	117.34
SWL	mbRP	P_GW33	21/01/2019 135.65	135.65
SWL	mbRP	P_GW33	17/02/2019 135.88	135.88
SWL	mbRP	P_GW33	18/03/2019 135.64	135.64
SWL	mbRP	P_GW33	16/04/2019 135.6	135.6
Temperature Water (Field)	oC	A_GW07	24/12/2018 32.8	32.8
Temperature Water (Field)	oC	A_GW07	16/03/2019 34.4	34.4
Temperature Water (Field)	oC	B_GW01	24/12/2018 42.4	42.4
Temperature Water (Field)	oC	B_GW01	17/03/2019 40.5	40.5
Temperature Water (Field)	oC	C_GW01	18/03/2019 33.5	33.5
Temperature Water (Field)	oC	C_GW09	25/12/2018 35.9	35.9
Temperature Water (Field)	oC	C_GW09	17/03/2019 32.4	32.4
Temperature Water (Field)	oC	P_GW15	24/12/2018 30.5	30.5
Temperature Water (Field)	oC	P_GW15	16/03/2019 30.8	30.8
Temperature Water (Field)	oC	P_GW31	26/12/2018 31.3	31.3
Temperature Water (Field)	oC	P_GW31	18/03/2019 33.1	33.1
Temperature Water (Field)	oC	P_GW32	26/12/2018 31.1	31.1
Temperature Water (Field)	oC	P_GW32	21/01/2019 32.4	32.4
Temperature Water (Field)	oC	P_GW32	17/02/2019 30.8	30.8
Temperature Water (Field)	oC	P_GW32	17/03/2019 34.1	34.1
Temperature Water (Field)	oC	P_GW32	16/04/2019 33.4	33.4
Temperature Water (Field)	oC	P_GW33	29/12/2018 32.9	32.9
Temperature Water (Field)	oC	P_GW33	21/01/2019 34	34
Temperature Water (Field)	oC	P_GW33	17/02/2019 32.7	32.7
Temperature Water (Field)	oC	P_GW33	18/03/2019 34.1	34.1
Temperature Water (Field)	oC	P_GW33	16/04/2019 33.1	33.1
Total Dissolved Solids	mg/L	A_GW07	24/12/2018 450	450
Total Dissolved Solids	mg/L	A_GW07	16/03/2019 480	480
Total Dissolved Solids	mg/L	B_GW01	24/12/2018 850	850
Total Dissolved Solids	mg/L	B_GW01	17/03/2019 840	840
Total Dissolved Solids	mg/L	C_GW01	18/03/2019 5000	5000
Total Dissolved Solids	mg/L	C_GW09	25/12/2018 3300	3300
Total Dissolved Solids	mg/L	C_GW09	17/03/2019 3200	3200
Total Dissolved Solids	mg/L	P_GW15	24/12/2018 3000	3000
Total Dissolved Solids	mg/L	P_GW15	16/03/2019 2700	2700
Total Dissolved Solids	mg/L	P_GW31	26/12/2018 1200	1200
Total Dissolved Solids	mg/L	P_GW31	18/03/2019 1400	1400

Total Dissolved Solids	mg/L	P_GW32	29/12/2018	490	490
Total Dissolved Solids	mg/L	P_GW32	21/01/2019	520	520
Total Dissolved Solids	mg/L	P_GW32	17/02/2019	510	510
Total Dissolved Solids	mg/L	P_GW32	17/03/2019	510	510
Total Dissolved Solids	mg/L	P_GW33	26/12/2018	790	790
Total Dissolved Solids	mg/L	P_GW33	21/01/2019	810	810
Total Dissolved Solids	mg/L	P_GW33	17/02/2019	760	760
Total Dissolved Solids	mg/L	P_GW33	18/03/2019	720	720
Total Nitrogen	mg/L	A_GW07	24/12/2018	0.17	0.17
Total Nitrogen	mg/L	A_GW07	16/03/2019	0.30	0.3
Total Nitrogen	mg/L	B_GW01	24/12/2018	0.26	0.26
Total Nitrogen	mg/L	B_GW01	17/03/2019	0.24	0.24
Total Nitrogen	mg/L	C_GW01	18/03/2019	0.24	0.24
Total Nitrogen	mg/L	C_GW09	25/12/2018	0.14	0.14
Total Nitrogen	mg/L	C_GW09	17/03/2019	0.12	0.12
Total Nitrogen	mg/L	P_GW15	24/12/2018	0.41	0.41
Total Nitrogen	mg/L	P_GW15	16/03/2019	0.30	0.3
Total Nitrogen	mg/L	P_GW31	26/12/2018	1.6	1.6
Total Nitrogen	mg/L	P_GW31	18/03/2019	1.3	1.3
Total Nitrogen	mg/L	P_GW32	29/12/2018	0.53	0.53
Total Nitrogen	mg/L	P_GW32	21/01/2019	0.53	0.53
Total Nitrogen	mg/L	P_GW32	17/02/2019	0.47	0.47
Total Nitrogen	mg/L	P_GW32	17/03/2019	0.50	0.5
Total Nitrogen	mg/L	P_GW33	26/12/2018	5.4	5.4
Total Nitrogen	mg/L	P_GW33	21/01/2019	3.0	3
Total Nitrogen	mg/L	P_GW33	17/02/2019	3.7	3.7
Total Nitrogen	mg/L	P_GW33	18/03/2019	4.4	4.4
Total Petroleum Hydrocarbons	mg/L	A_GW07	24/12/2018	<1	1
Total Petroleum Hydrocarbons	mg/L	B_GW01	24/12/2018	<1	1
Total Petroleum Hydrocarbons	mg/L	C_GW09	25/12/2018	<1	1
Total Petroleum Hydrocarbons	mg/L	P_GW15	24/12/2018	<1	1
Total Petroleum Hydrocarbons	mg/L	P_GW31	26/12/2018	13	13
Total Petroleum Hydrocarbons	mg/L	P_GW32	29/12/2018	<1	1
Total Petroleum Hydrocarbons	mg/L	P_GW32	21/01/2019	<1	1
Total Petroleum Hydrocarbons	mg/L	P_GW32	17/02/2019	<1	1
Total Petroleum Hydrocarbons	mg/L	P_GW33	26/12/2018	<1	1
Total Petroleum Hydrocarbons	mg/L	P_GW33	21/01/2019	<1	1
Total Petroleum Hydrocarbons	mg/L	P_GW33	17/02/2019	1	1
Total Phosphorus	mg/L	A_GW07	24/12/2018	<0.02	0.02
Total Phosphorus	mg/L	A_GW07	16/03/2019	<0.02	0.02
Total Phosphorus	mg/L	B_GW01	24/12/2018	<0.02	0.02
Total Phosphorus	mg/L	B_GW01	17/03/2019	<0.02	0.02
Total Phosphorus	mg/L	C_GW01	18/03/2019	<0.02	0.02

Total Phosphorus	mg/L	C_GW09	25/12/2018	<0.02	0.02
Total Phosphorus	mg/L	C_GW09	17/03/2019	0.03	0.03
Total Phosphorus	mg/L	P_GW15	24/12/2018	0.02	0.02
Total Phosphorus	mg/L	P_GW15	16/03/2019	0.09	0.09
Total Phosphorus	mg/L	P_GW31	26/12/2018	0.16	0.16
Total Phosphorus	mg/L	P_GW31	18/03/2019	0.21	0.21
Total Phosphorus	mg/L	P_GW32	29/12/2018	<0.02	0.02
Total Phosphorus	mg/L	P_GW32	21/01/2019	<0.02	0.02
Total Phosphorus	mg/L	P_GW32	17/02/2019	<0.02	0.02
Total Phosphorus	mg/L	P_GW32	17/03/2019	<0.02	0.02
Total Phosphorus	mg/L	P_GW33	26/12/2018	<0.02	0.02
Total Phosphorus	mg/L	P_GW33	21/01/2019	<0.02	0.02
Total Phosphorus	mg/L	P_GW33	17/02/2019	<0.02	0.02
Total Phosphorus	mg/L	P_GW33	18/03/2019	<0.02	0.02
Total Suspended Solids	mg/L	A_GW07	24/12/2018	<5	5
Total Suspended Solids	mg/L	A_GW07	16/03/2019	8	8
Total Suspended Solids	mg/L	B_GW01	24/12/2018	<5	5
Total Suspended Solids	mg/L	B_GW01	17/03/2019	6	6
Total Suspended Solids	mg/L	C_GW01	18/03/2019	12	12
Total Suspended Solids	mg/L	C_GW09	25/12/2018	5	5
Total Suspended Solids	mg/L	C_GW09	17/03/2019	16	16
Total Suspended Solids	mg/L	P_GW15	24/12/2018	5	5
Total Suspended Solids	mg/L	P_GW15	16/03/2019	6	6
Total Suspended Solids	mg/L	P_GW31	26/12/2018	14	14
Total Suspended Solids	mg/L	P_GW31	18/03/2019	6	6
Total Suspended Solids	mg/L	P_GW32	29/12/2018	<5	5
Total Suspended Solids	mg/L	P_GW32	21/01/2019	<5	5
Total Suspended Solids	mg/L	P_GW32	17/02/2019	<5	5
Total Suspended Solids	mg/L	P_GW32	17/03/2019	<5	5
Total Suspended Solids	mg/L	P_GW33	26/12/2018	<5	5
Total Suspended Solids	mg/L	P_GW33	21/01/2019	<5	5
Total Suspended Solids	mg/L	P_GW33	17/02/2019	<5	5
Total Suspended Solids	mg/L	P_GW33	18/03/2019	<5	5
Turbidity (Field)	NTU	A_GW07	24/12/2018	2.94	2.94
Turbidity (Field)	NTU	A_GW07	16/03/2019	0.81	0.81
Turbidity (Field)	NTU	B_GW01	24/12/2018	3.98	3.98
Turbidity (Field)	NTU	B_GW01	17/03/2019	5.31	5.31
Turbidity (Field)	NTU	C_GW01	18/03/2019	19.9	19.9
Turbidity (Field)	NTU	C_GW09	25/12/2018	5.54	5.54
Turbidity (Field)	NTU	C_GW09	17/03/2019	2.12	2.12
Turbidity (Field)	NTU	P_GW15	24/12/2018	5.63	5.63
Turbidity (Field)	NTU	P_GW15	16/03/2019	4.82	4.82
Turbidity (Field)	NTU	P_GW31	26/12/2018	89.9	89.9

Turbidity (Field)	NTU	P_GW31	18/03/2019	12.6	12.6
Turbidity (Field)	NTU	P_GW32	26/12/2018	1.01	1.01
Turbidity (Field)	NTU	P_GW32	21/01/2019	18.6	18.6
Turbidity (Field)	NTU	P_GW32	17/02/2019	13.2	13.2
Turbidity (Field)	NTU	P_GW32	17/03/2019	4.01	4.01
Turbidity (Field)	NTU	P_GW32	16/04/2019	1.5	1.5
Turbidity (Field)	NTU	P_GW33	29/12/2018	8.51	8.51
Turbidity (Field)	NTU	P_GW33	21/01/2019	1.02	1.02
Turbidity (Field)	NTU	P_GW33	17/02/2019	0.39	0.39
Turbidity (Field)	NTU	P_GW33	18/03/2019	1.28	1.28
Turbidity (Field)	NTU	P_GW33	16/04/2019	0.61	0.61
Turbidity (Lab)	NTU	A_GW07	24/12/2018	6.5	6.5
Turbidity (Lab)	NTU	A_GW07	16/03/2019	24	24
Turbidity (Lab)	NTU	B_GW01	24/12/2018	2.8	2.8
Turbidity (Lab)	NTU	B_GW01	17/03/2019	4.2	4.2
Turbidity (Lab)	NTU	C_GW01	18/03/2019	6.8	6.8
Turbidity (Lab)	NTU	C_GW09	25/12/2018	89	89
Turbidity (Lab)	NTU	C_GW09	17/03/2019	170	170
Turbidity (Lab)	NTU	P_GW15	24/12/2018	12	12
Turbidity (Lab)	NTU	P_GW15	16/03/2019	29	29
Turbidity (Lab)	NTU	P_GW31	26/12/2018	3.0	3
Turbidity (Lab)	NTU	P_GW31	18/03/2019	9.3	9.3
Turbidity (Lab)	NTU	P_GW32	29/12/2018	3.0	3
Turbidity (Lab)	NTU	P_GW32	21/01/2019	16	16
Turbidity (Lab)	NTU	P_GW32	17/02/2019	3.3	3.3
Turbidity (Lab)	NTU	P_GW32	17/03/2019	1.9	1.9
Turbidity (Lab)	NTU	P_GW33	26/12/2018	<0.5	0.5
Turbidity (Lab)	NTU	P_GW33	21/01/2019	<0.5	0.5
Turbidity (Lab)	NTU	P_GW33	17/02/2019	<0.5	0.5
Turbidity (Lab)	NTU	P_GW33	18/03/2019	<0.5	0.5
Zinc (Effective)	mg/L	A_GW07	24/12/2018	0.0006	0.0006
Zinc (Effective)	mg/L	A_GW07	16/03/2019	0.0006	0.0006
Zinc (Effective)	mg/L	B_GW01	24/12/2018	0.0030	0.003
Zinc (Effective)	mg/L	B_GW01	17/03/2019	0.0022	0.0022
Zinc (Effective)	mg/L	C_GW01	18/03/2019	0.0022	0.0022
Zinc (Effective)	mg/L	C_GW09	25/12/2018	0.0133	0.0133
Zinc (Effective)	mg/L	C_GW09	17/03/2019	0.0097	0.0097
Zinc (Effective)	mg/L	P_GW15	24/12/2018	0.5199	0.5199
Zinc (Effective)	mg/L	P_GW15	16/03/2019	0.5199	0.5199
Zinc (Effective)	mg/L	P_GW31	26/12/2018	0.0006	0.0006
Zinc (Effective)	mg/L	P_GW31	18/03/2019	0.0006	0.0006
Zinc (Soluble)	mg/L	A_GW07	24/12/2018	0.005	0.005
Zinc (Soluble)	mg/L	A_GW07	16/03/2019	<0.005	0.005

Zinc (Soluble)	mg/L	B_GW01	24/12/2018	0.027	0.027
Zinc (Soluble)	mg/L	B_GW01	17/03/2019	0.020	0.02
Zinc (Soluble)	mg/L	C_GW01	18/03/2019	0.020	0.02
Zinc (Soluble)	mg/L	C_GW09	25/12/2018	0.12	0.12
Zinc (Soluble)	mg/L	C_GW09	17/03/2019	0.088	0.088
Zinc (Soluble)	mg/L	P_GW15	24/12/2018	4.7	4.7
Zinc (Soluble)	mg/L	P_GW15	16/03/2019	4.7	4.7
Zinc (Soluble)	mg/L	P_GW31	26/12/2018	<0.005	0.005
Zinc (Soluble)	mg/L	P_GW31	18/03/2019	<0.005	0.005
Zinc (Soluble)	mg/L	P_GW32	29/12/2018	0.015	0.015
Zinc (Soluble)	mg/L	P_GW32	21/01/2019	0.030	0.03
Zinc (Soluble)	mg/L	P_GW32	17/02/2019	0.014	0.014
Zinc (Soluble)	mg/L	P_GW32	17/03/2019	0.005	0.005
Zinc (Soluble)	mg/L	P_GW33	26/12/2018	0.033	0.033
Zinc (Soluble)	mg/L	P_GW33	21/01/2019	0.039	0.039
Zinc (Soluble)	mg/L	P_GW33	17/02/2019	0.027	0.027
Zinc (Soluble)	mg/L	P_GW33	18/03/2019	0.017	0.017
Zinc (Total)	mg/L	A_GW07	24/12/2018	0.006	0.006
Zinc (Total)	mg/L	A_GW07	16/03/2019	0.010	0.01
Zinc (Total)	mg/L	B_GW01	24/12/2018	0.025	0.025
Zinc (Total)	mg/L	B_GW01	17/03/2019	0.019	0.019
Zinc (Total)	mg/L	C_GW01	18/03/2019	0.019	0.019
Zinc (Total)	mg/L	C_GW09	25/12/2018	0.12	0.12
Zinc (Total)	mg/L	C_GW09	17/03/2019	0.10	0.1
Zinc (Total)	mg/L	P_GW15	24/12/2018	5.4	5.4
Zinc (Total)	mg/L	P_GW15	16/03/2019	4.7	4.7
Zinc (Total)	mg/L	P_GW31	26/12/2018	0.031	0.031
Zinc (Total)	mg/L	P_GW31	18/03/2019	0.026	0.026
Zinc (Total)	mg/L	P_GW32	29/12/2018	0.010	0.01
Zinc (Total)	mg/L	P_GW32	21/01/2019	0.008	0.008
Zinc (Total)	mg/L	P_GW32	17/02/2019	<0.005	0.005
Zinc (Total)	mg/L	P_GW32	17/03/2019	0.005	0.005
Zinc (Total)	mg/L	P_GW33	26/12/2018	0.023	0.023
Zinc (Total)	mg/L	P_GW33	21/01/2019	0.019	0.019
Zinc (Total)	mg/L	P_GW33	17/02/2019	0.015	0.015
Zinc (Total)	mg/L	P_GW33	18/03/2019	0.016	0.016

Borefield Monitoring Report

MMG Century - Lawn Hill

30 September 2016

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EXECUTIVE SUMMARY

The Century - Lawn Hill Borefield Monitoring Report was prepared in accordance with Condition 19 of Water Licence 181516 (expiry 9 April 2020) and covers the period 1 July 2015 to 30 June 2016 (the 21st water year).

The total volume of groundwater extracted from the Dewatering and Eastern Borefields during the reporting period (4,330 ML) was 36 percent lower than the average of the previous four reporting periods (6,810 ML). This is mostly attributable to the cessation of operational activities in January 2016.

Piezometric monitoring was conducted at over 50 bores during the reporting period.

1 PURPOSE

Century was Australia's largest open-pit zinc mine, located in north-west Queensland. It was in operation between 1999 and January 2016. Century comprised two sites – the mine and processing operation at Lawn Hill, and associated concentrate dewatering and ship-loading facilities at the Karumba Port, on the Gulf of Carpentaria. Concentrates were sold to smelters in Europe, Australia and Asia.

The Century deposit occurs within shales and siltstones of the mid-proterozoic Lawn Hill formation. The deposit is unconformably overlain by a complex folded sequence of Cambrian age limestone and dolostone. The limestones and dolomites in the deposit area form an annular feature with an exposed area of approximately 140km², the Century deposit is situated beneath the south-western edge of this feature. Dewatering of the highly permeable limestone sequence immediately overlying the deposit was required to maximise pit slope stability and enable safe, effective mining of the Century resource.

The Century - Lawn Hill Borefield Monitoring Report for the period 1 July 2015 to 30 June 2016 (the 21st water year) was prepared in accordance with Condition 19 of Water Licence 181516 (expiry 09/04/2020), as detailed in Table 1.

Table 1: Reporting requirement

REQUIREMENT		REPORT SECTION
a)	Data relevant to the extraction of water from each bore in the Century Borefield for the relevant period.	2
b)	Piezometric data from the monitoring bores.	3
c)	Any other information reasonably required by the Chief Executive.	No additional information requested

This report does not include detailed descriptions of:

- the Dewatering and Eastern Borefields at Century; nor
- bore locations relative to licence names and locations.

These are covered in the most recent Borefields Performance Review (Golders, 2015), submitted to the Department of Natural Resources and Mines (DNRM).

Refer to Appendix A for a graphical representation of bore locations and a summary of their operational status.

2 BOREFIELD EXTRACTION

During 2015/16, 2,730 ML water was extracted from the Eastern Borefield and 1,600 ML from the Dewatering Borefield (Figure 1).

The Dewatering Borefield was used primarily to control groundwater levels and allow safe access to the resource during mining operations. Extracted water was used predominantly as supply water to the concentrator. Post cessation of operations in January 2016, extraction has continued from the Dewatering Borefield for potable water supply, sewage and firefighting.

Groundwater extraction from the Eastern Borefield provided a supplementary water supply for operational use and as potable water supply. Dewatering continued in February and March 2016, post cessation of operations, mainly for dust suppression.

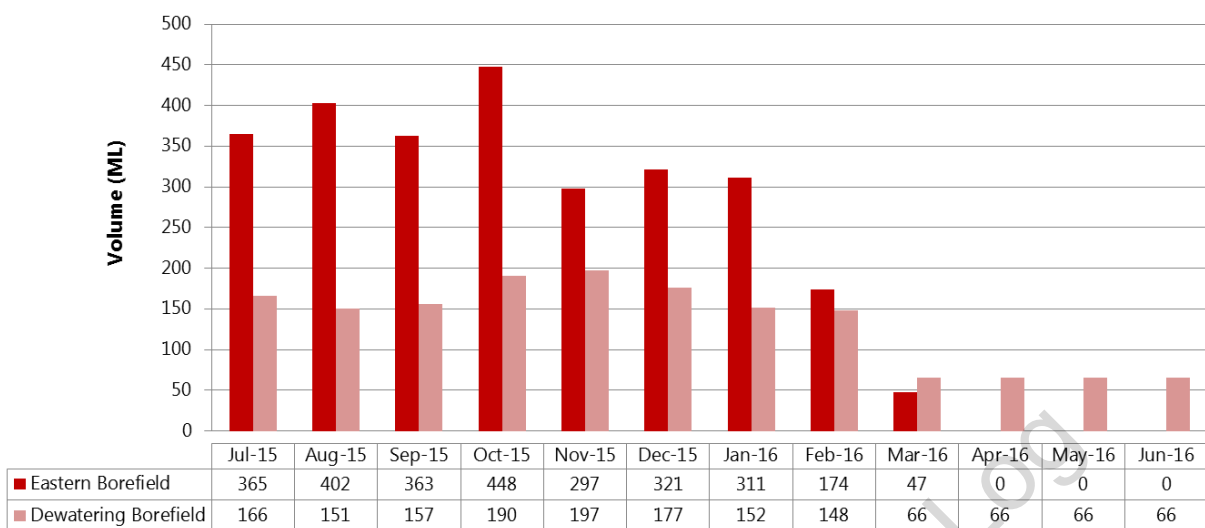


Figure 1 Groundwater extraction volumes by borefield¹

The total volume of water extracted together with rainfall data for the last five reporting periods is detailed in Figure 2. Annual extraction of water from the Eastern Borefield in the 2015/16 reporting period (2,730 ML) was 39 per cent lower than the average of the previous four reporting periods (4,480 ML). Extraction from the Dewatering Borefield in 2015/16 (1,600 ML) was 31 per cent lower (2,330 ML).

The trend in groundwater extraction since 2011/12 has been influenced by recycle of water from the evaporation dam which commenced in 2013, to reduce reliance on bore water for operational use. However, total extraction in 2015/16 was most heavily influenced by cessation of operational activities in January 2016.

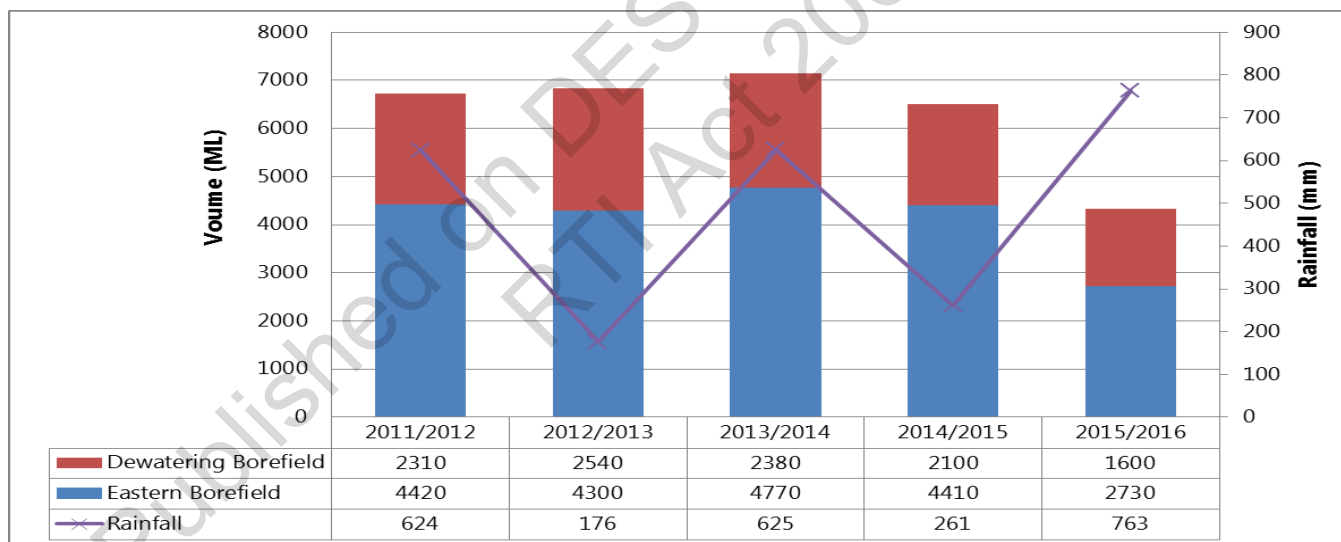


Figure 2 Annual extraction volumes compared with annual rainfall (last five reporting periods)^{1,2}

¹ Groundwater extraction data was unavailable from April to June 2016 inclusive. Extracted volumes for the Dewatering Borefield were assumed to be the same as March 2016 given that it is most representative of post-operational bore water requirements. No water was extracted from the Eastern Borefield during April-June 2016).

² Groundwater extraction data was unavailable for September 2014, May 2015 and June 2015. This was estimated using averaged data from the remainder of the 2014/15 reporting period.

3 PIEZOMETRIC DATA

Piezometric monitoring was conducted at over 50 bores during the reporting period. Piezometric monitoring results for the previous five years are presented in Figure 3 to Figure 8.

Trends in the monitoring results were explored in more detail in the piezometric impact assessment that forms a component of the five-yearly Borefields Performance Review (Golders, 2015). This report concluded that:

"The dewatering of the aquifer has had measurable effects within the southern half of the limestone annulus, with significant drawdown occurring within approximately 3km of the extraction points. Groundwater levels within the northern half of the annulus indicated seasonal variation in groundwater levels in response to climatic conditions, with no drawdown effects evident. Bores located outside the limestone annulus also showed seasonable variation in groundwater levels with no drawdown effects evident."

The next assessment is due in 2020.

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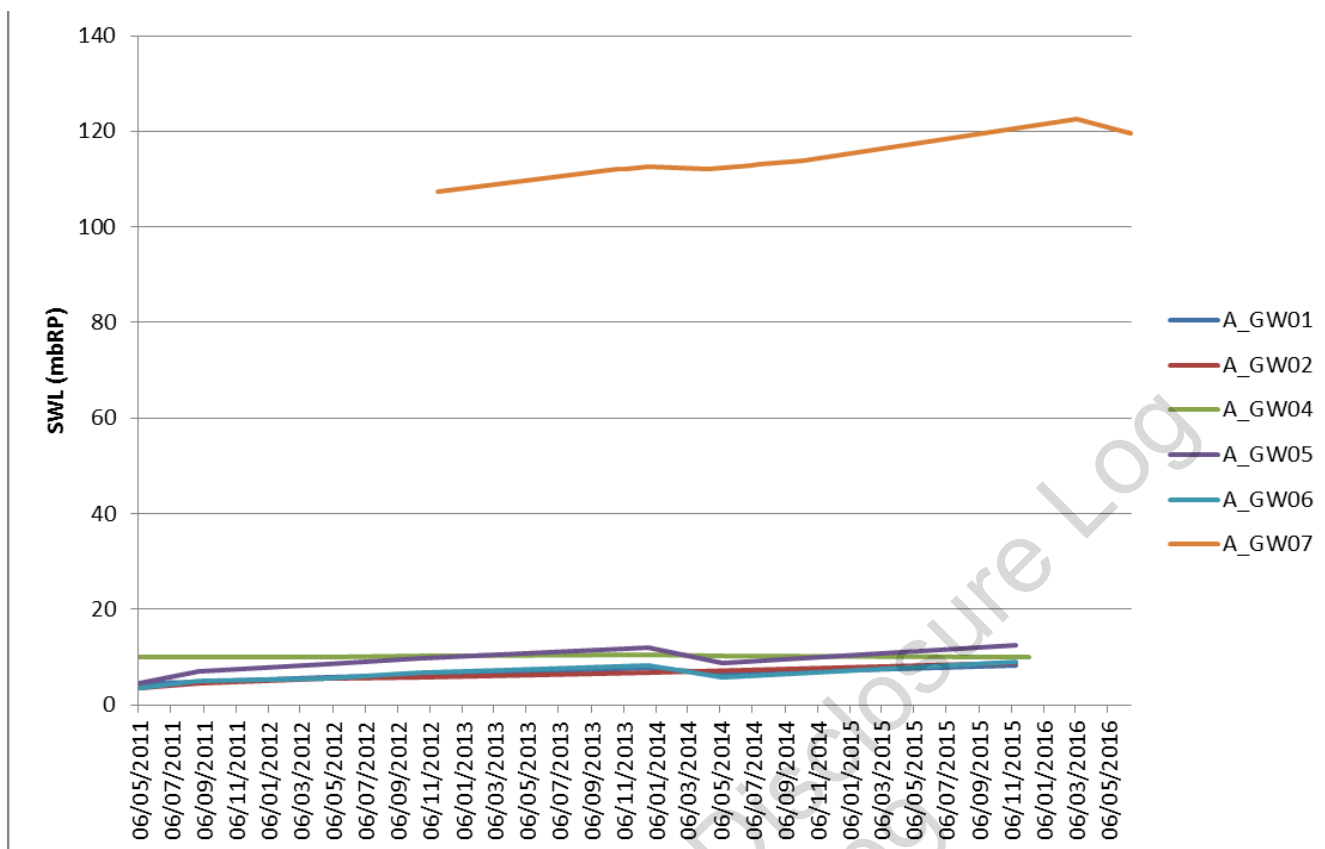


Figure 3 SWL – Archie Creek Catchment

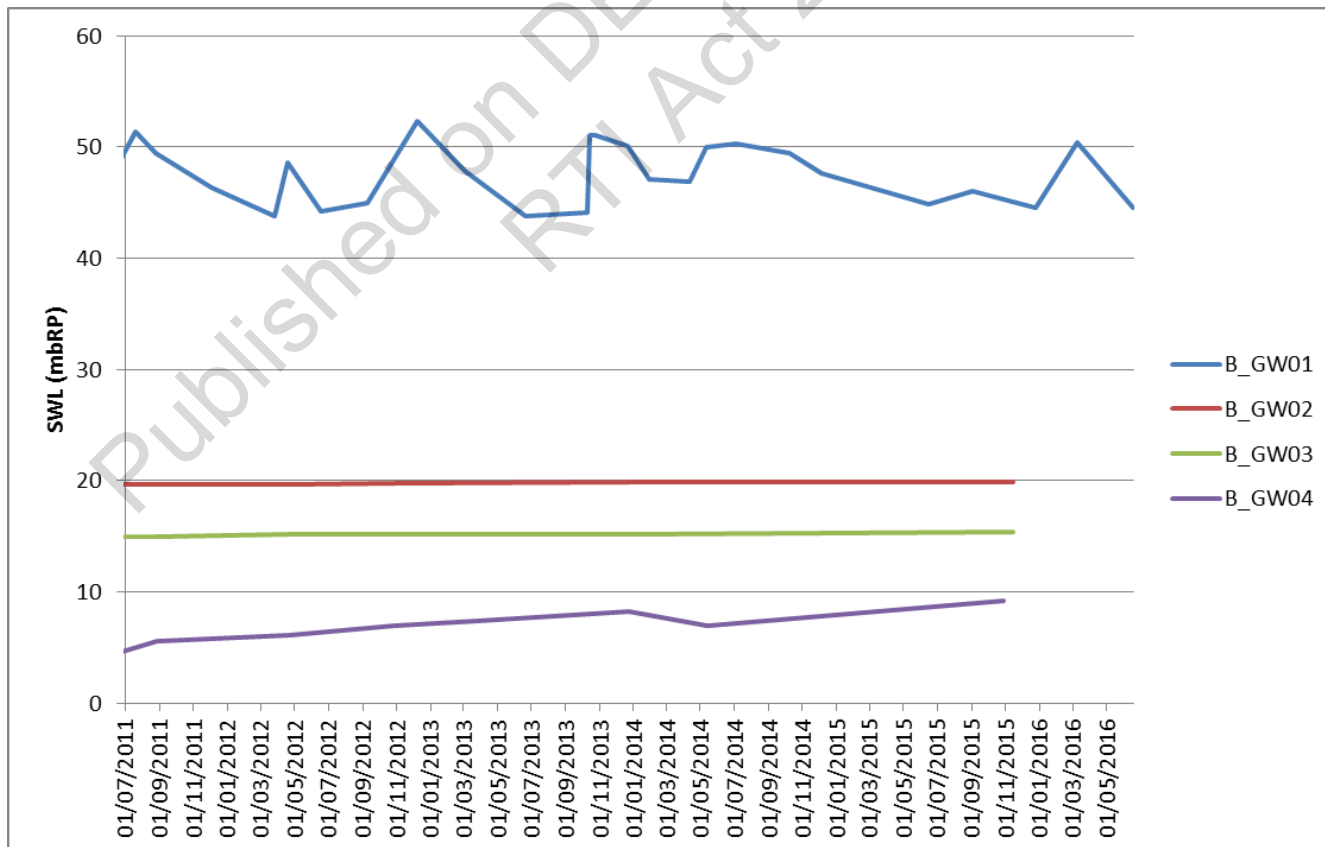


Figure 4 SWL – Bullridge Creek Catchment

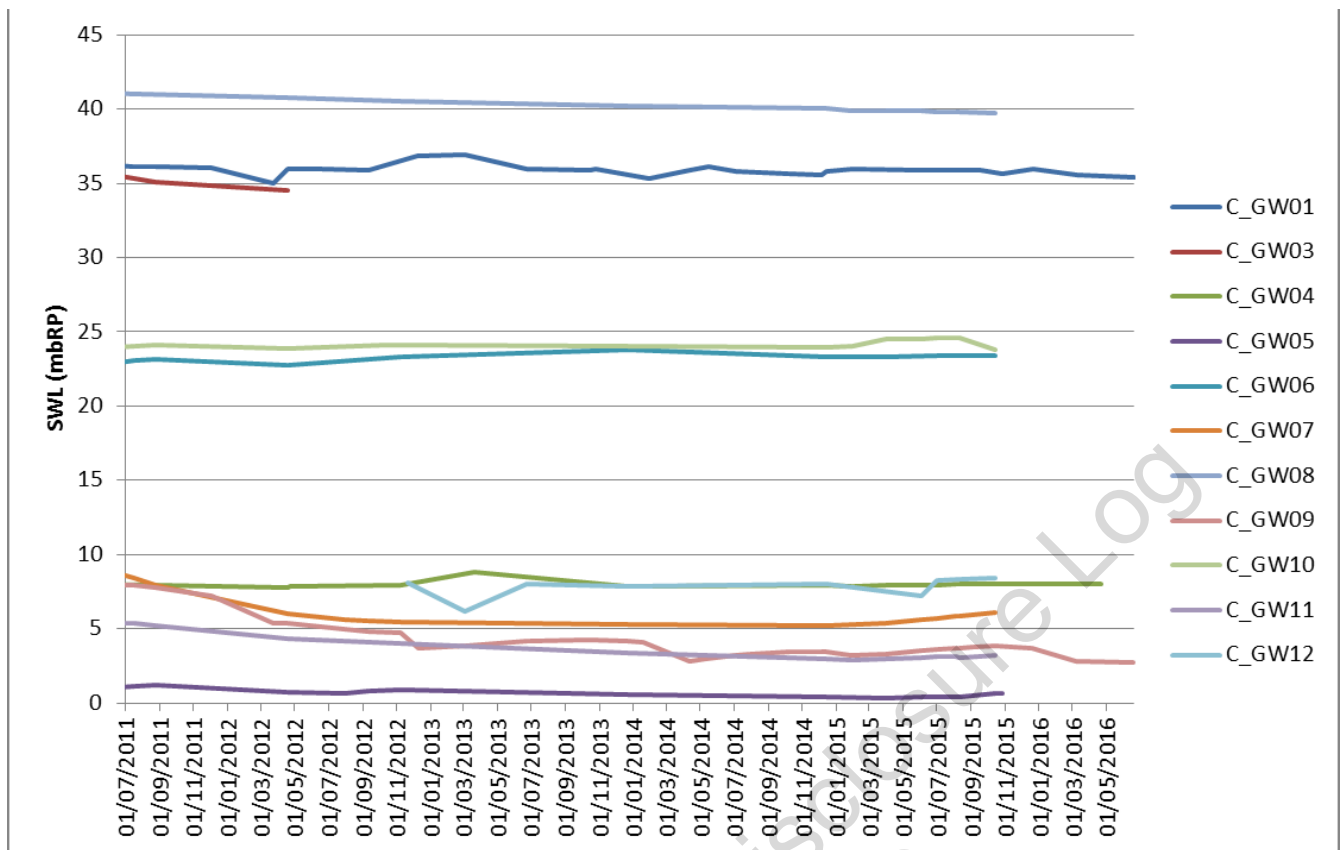


Figure 5 SWL – Coglan Creek Catchment

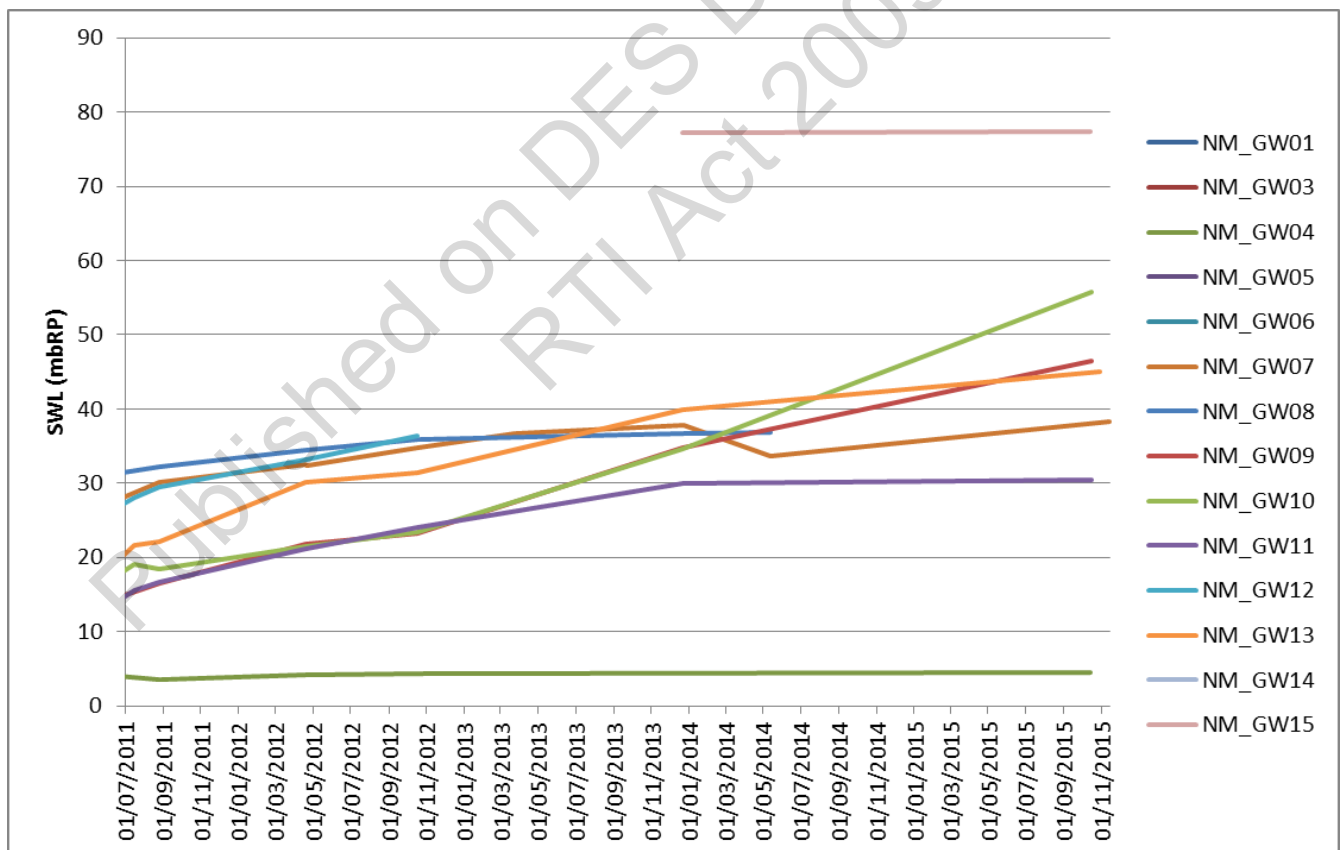
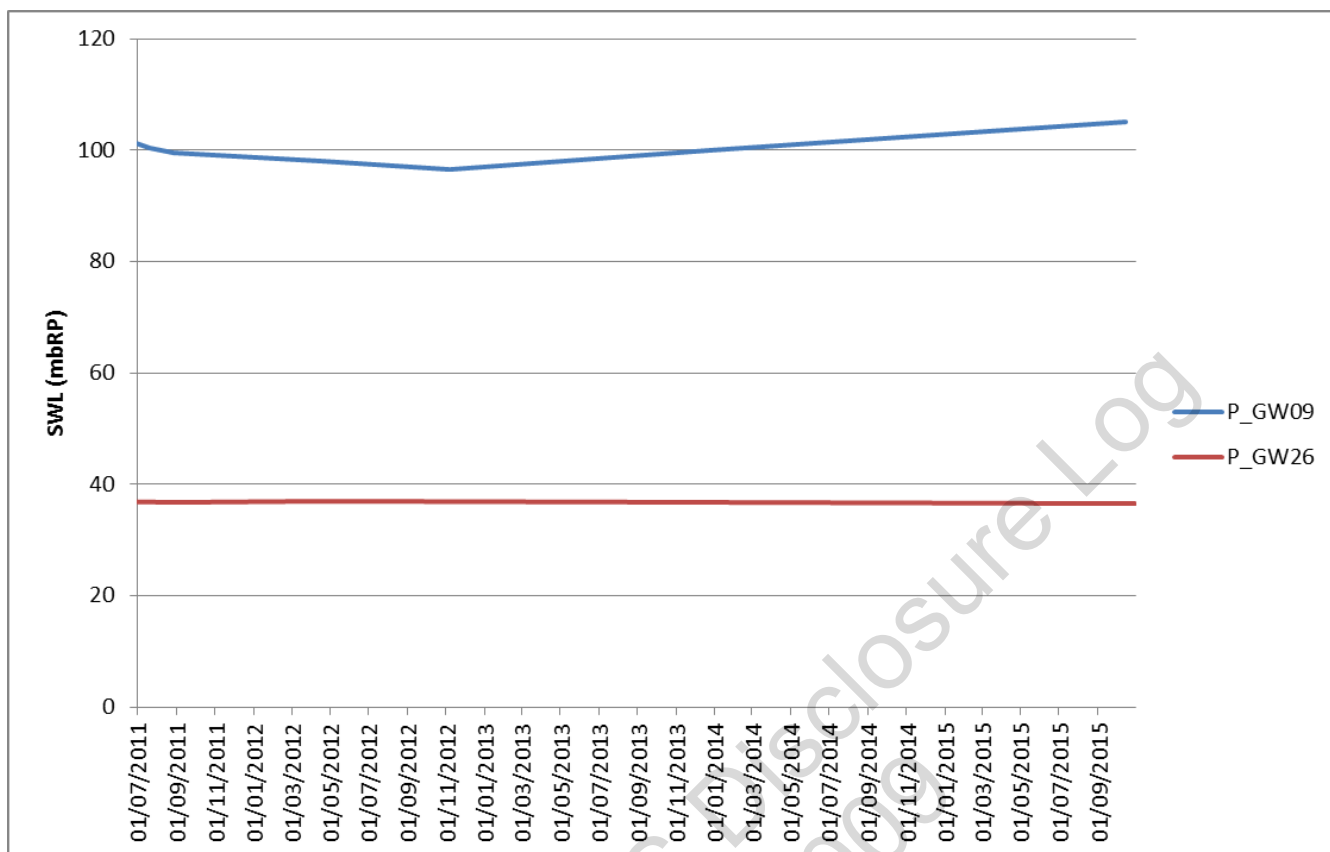
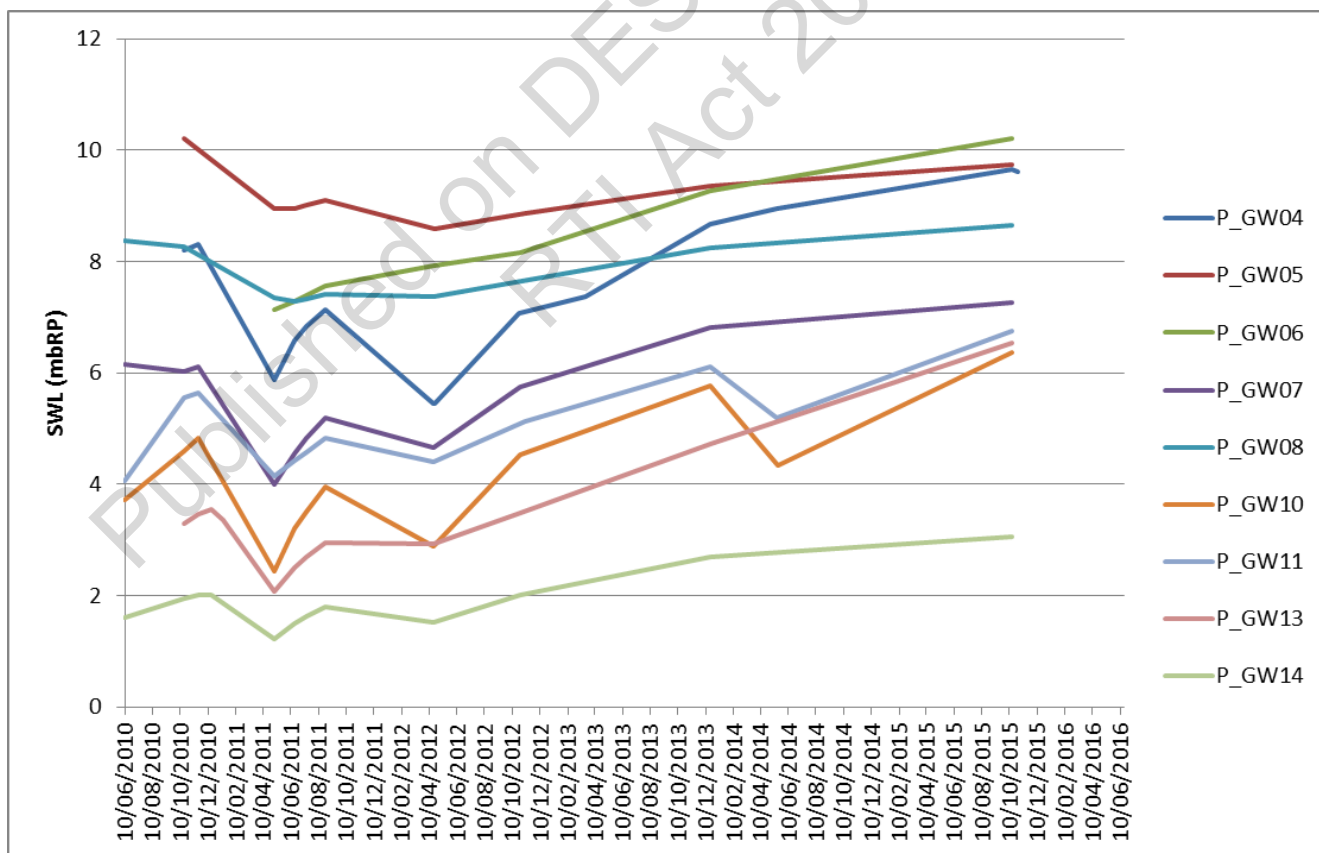


Figure 6 SWL – North Mitton Creek Catchment



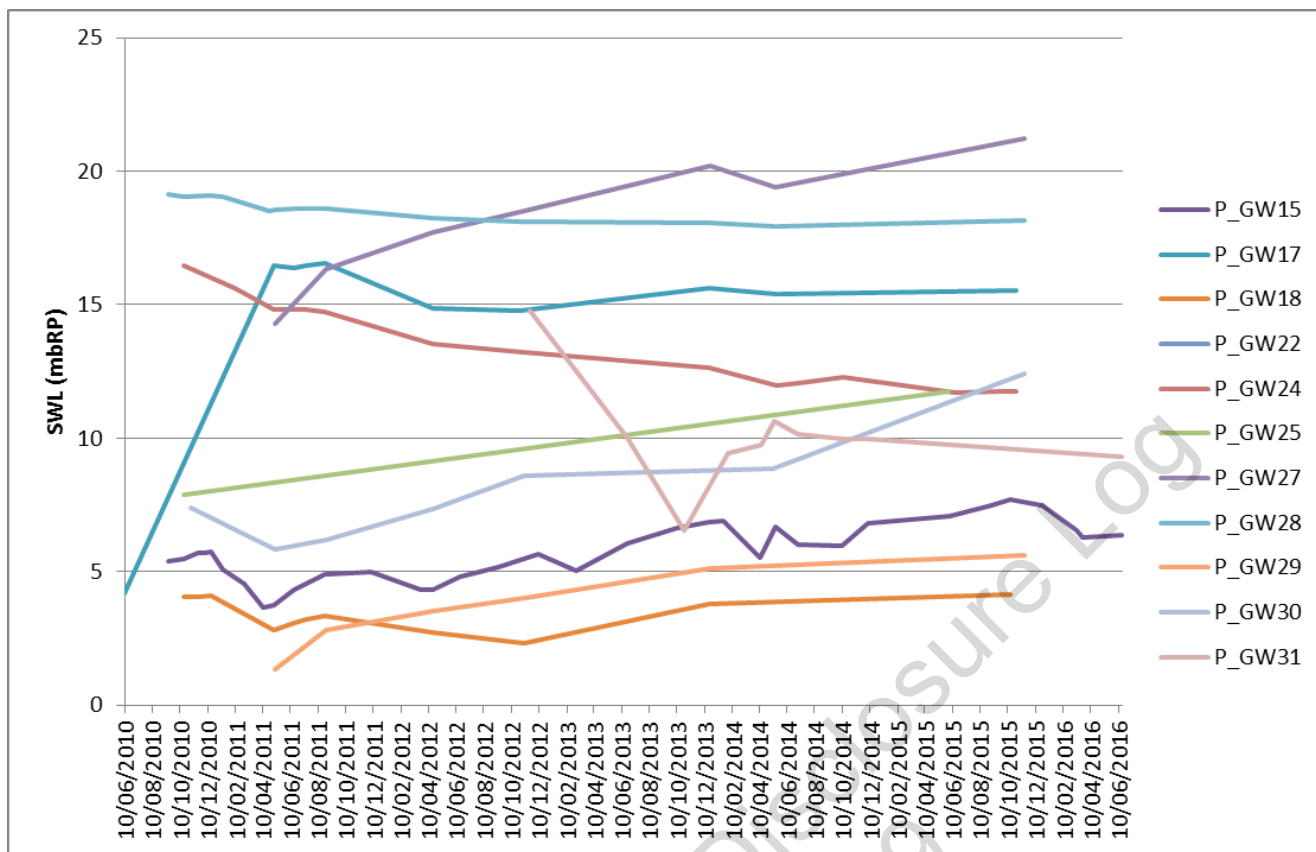


Figure 7 SWL – Page Creek Catchment (Charts A, B & C)

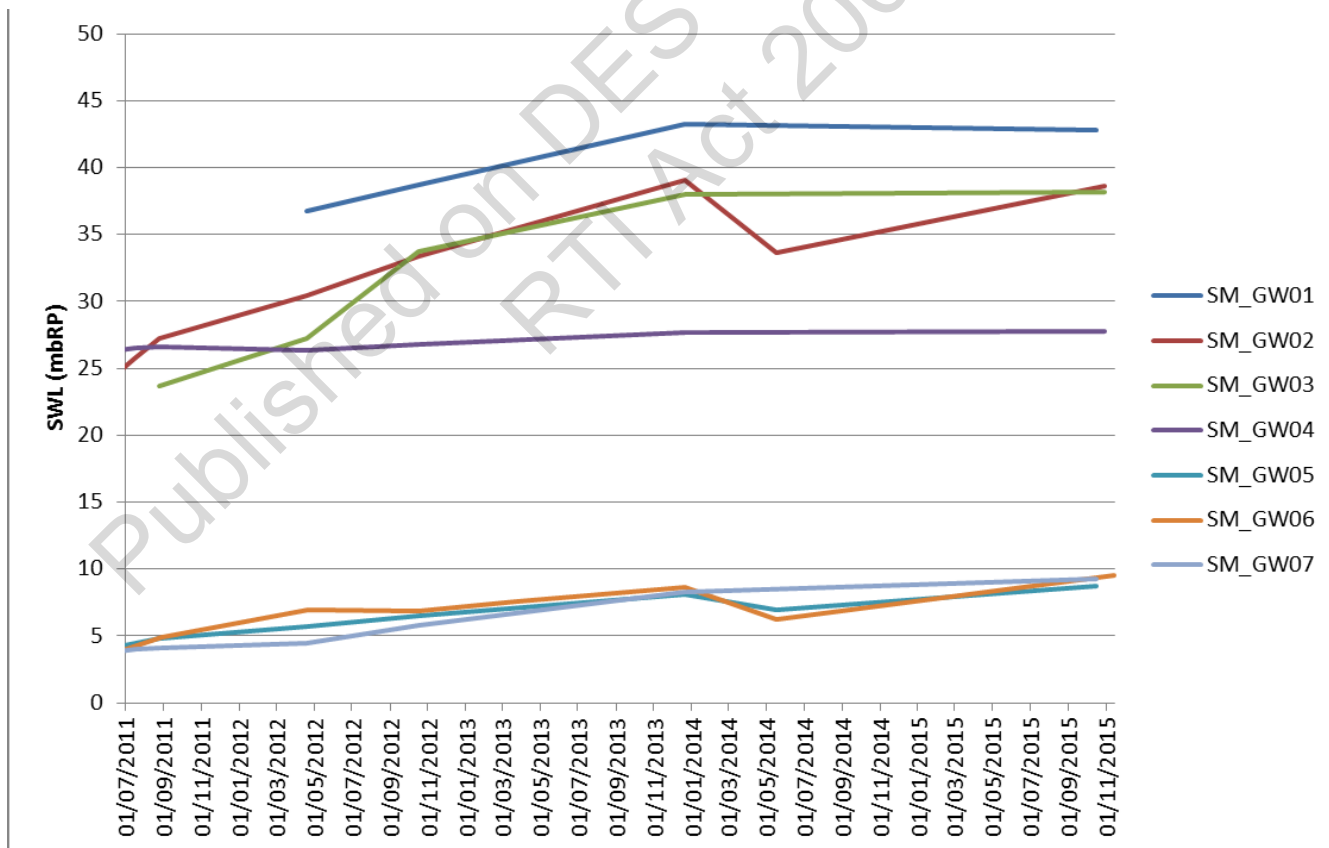


Figure 8 SWL – South Mitton Creek Catchment

4 ACRONYMS

ACRONYM	DEFINITION
SWL	Standing water level

5 REFERENCES

Golder (2015), *20 Year Borefield Performance Review MMG Century Mine*, Golder Associates , September 2015.

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APPENDIX A: BORE LOCATIONS

Table 3: Dewatering Borefield bore locations.

Licensed locations are approximately 150 m south of recorded location.

Licence Name	Licence Location - unknown datum		MMG Century Reference	Recorded Location - AMG (AGD8454K)		Status
	East	North		East	North	
DWB21	247009	7929085	DWB001	246979	7929238	Decommissioned
DWB7	247037	7928891	DWB002	247007	7929044	Decommissioned 2014
DWB15	248022	7928300	DWB004	247996	7928459	Decommissioned 2013
DWB19	248093	7928198	DWB005	248067	7928357	Decommissioned 1999
DWB11	248233	7928089	DWB006	248208	7928249	Decommissioned 2000
DWB12	248278	7927955	DWB007	248255	7928114	Decommissioned
DWB13	248312	7927736	DWB008	248290	7927896	Decommissioned 2007
DWB18	248372	7927541	DWB009	248350	7927701	Decommissioned
DWB14	248355	7927394	DWB010	248335	7927555	Decommissioned
DWB17	248688	7927196	DWB012	248669	7927358	Operational

Table 4: Eastern Borefield bores locations.

Licensed locations are approximately 150 m south-east of recorded location.

Licence Name	Licence Location - unknown datum		Bore	Location - AMG (AGD8454K)		Status
	East	North		East	North	
GAPB1	255742	7927665	EBF1	255592	7927708	Operational
GAPB2	255972	7927816	EBF2	255816	7927838	Operational
GAPB3	255434	7927995	EBF3	255286	7928011	Decommissioned 2016
GAPB4	254665	7928498	EBF4	254518	7928511	Decommissioned 2016



Figure 9 Borefield location

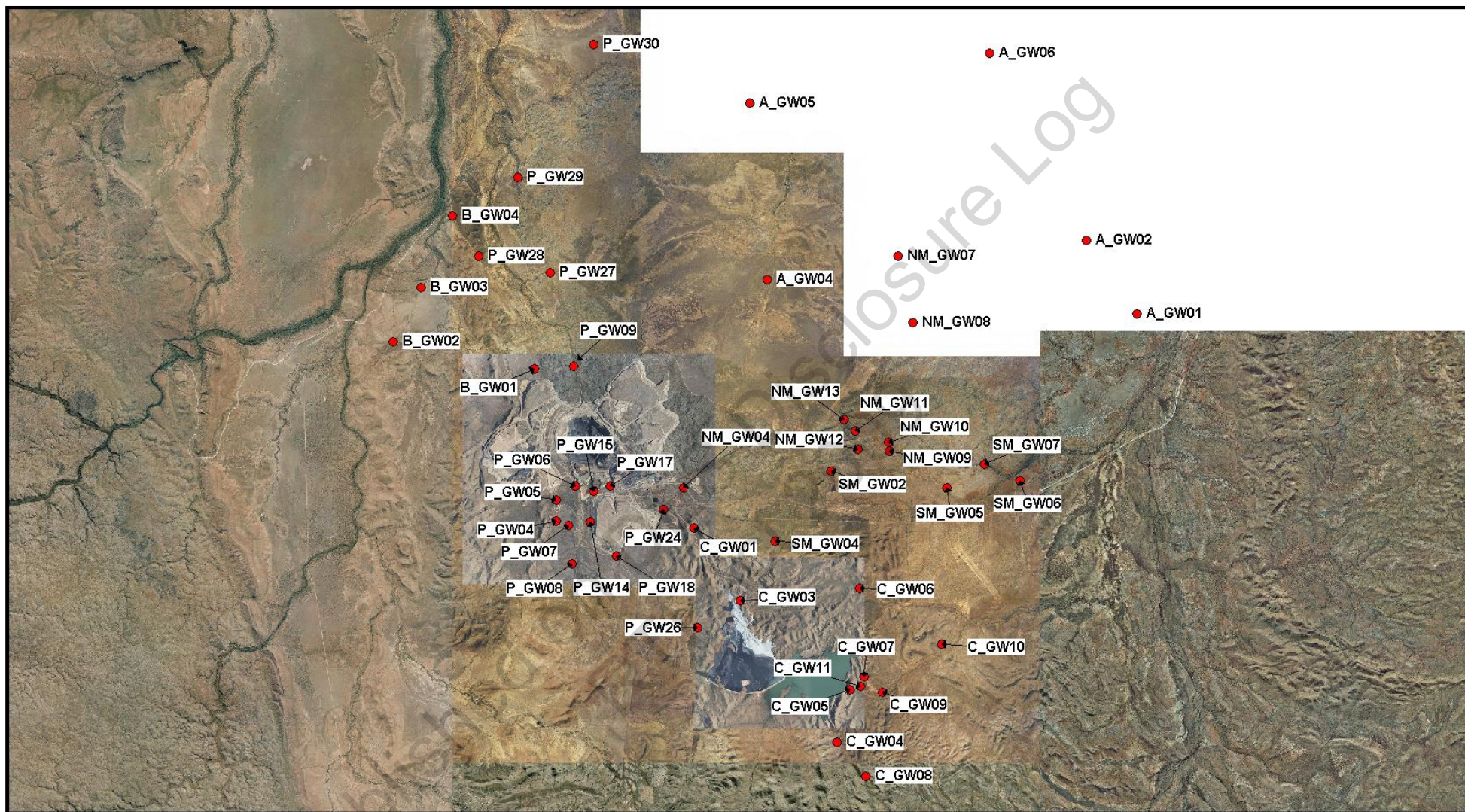


Figure 10 Piezometric monitoring locations

14/03/2017

Century Mine Groundwater Modelling Pit Lake Closure

Document 1545597-004-Rev0



R



Century Groundwater Model

CONTENTS

1. Groundwater Modelling Objectives
2. Related Century Groundwater Modelling Work (Golder)
3. Data Update
4. Updates to Numerical Groundwater Model
5. Simulation Scenarios
6. Simulation Results
7. Model Limitations
8. Model Confidence

August 3, 2017



R



Groundwater Modelling Objectives

1. Groundwater Modelling Objectives

Conduct simulations of pit re-fill and long-term groundwater behaviour to inform the assessment (by SRK) of the potential for contaminants sourced from either the pit lake or the tailings storage facility (TSF) to impact groundwater quality post-closure.

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Groundwater Modelling Objectives

1. Groundwater Modelling Objectives

Provide the following for two simulation scenarios

- Estimates of groundwater (only) volumetric flow rates into and out from the Century Mine pit during pit lake rise and in the long-term
- Estimates of groundwater volumetric flow rates through locations specified by SRK
- Long-term groundwater potentiometric-surface elevation contours

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Related Century Groundwater Modelling Work (Golder)

2. Related Century Groundwater Modelling Work (Golder)

1999	Review of Existing Hydrogeological Information and Groundwater Model Update
1999	Groundwater Modelling for the Coglan Creek Tailings Dam and Evaporation Pond Site
1999	Review of Existing Hydrogeological Information and Groundwater Model Update
2001	Mine Dewatering Performance Review for the Water Year June 2000 to May 2001
2002	Mine Dewatering Performance Review for the Water Year June 2001 to May 2002
2003	Review of Borefield Performance July 2002 to March 2003
2007	Conceptual Groundwater Model, Lawn Hill, Queensland
2008	Century Mine Groundwater Model Stage 2 Report Calibration
2010	15-Year Borefield Performance Review - MMG Century Mine
2011	Groundwater Monitoring Network Assessment
2012	Bore Replacement Decisions and Locations
2012	Analytical Modelling of Groundwater Inflows to Pit
2012	MMG Century Groundwater Model Update: Mine Closure – Stage 1
2013	Water Supply Options – MMG Century
2013	Numerical Modelling of Groundwater Inflows to Pit – Climate Scenarios
2015	20-Year Borefield Performance Review - MMG Century Mine
2015	MMG Century Pit Lake Modelling – Scenario 1
2015	MMG Century Pit Lake Modelling – Stage 1, Task 2 Closure Objectives and Risk
2015	Wellfield Assessment – Preservation, Bore Abandonment and Camp Water Supply

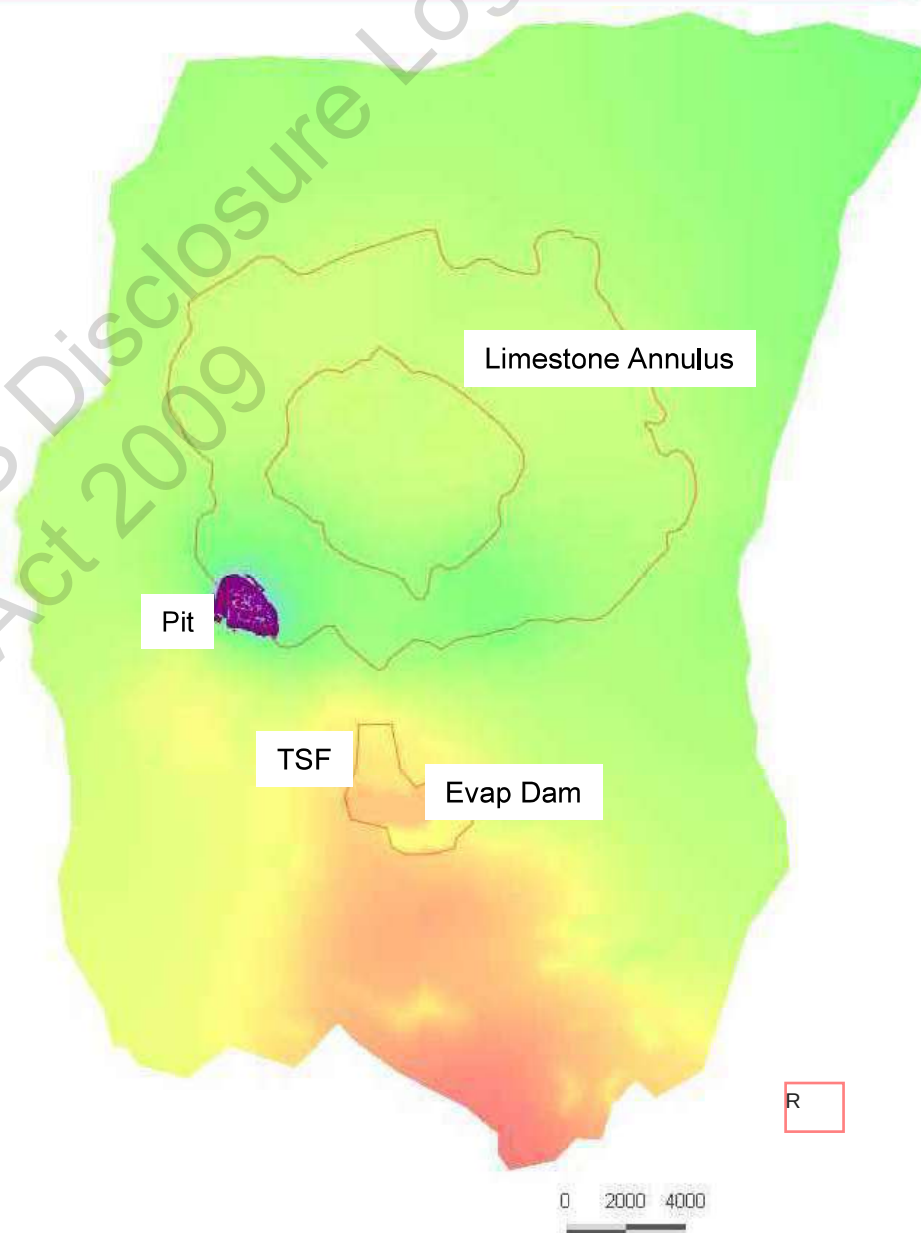
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Century Groundwater Model



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Data Update

3. Data Update (provided by MMG)

a) Pit Lake Levels

- December 2014 to November 2016

b) Groundwater Levels

- Readings from late 2015 or early 2016

c) Timing related to pit/groundwater:

	Timing	Comment
Dewatering pumps switched off	February 2016	
Evaporation dam water pumped to pit	2021 to 2036	Based on default conditions in HEC Goldsim v2.1.1 setup, i.e. pump rate 140 L/s, pumping duration 15 years
Tailings re-mining	From 2020	Duration depends on pumping rate - from 4 to 12 years according to current assumptions

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Updates to Numerical Groundwater Model

4. Updates Numerical Groundwater Model
 - a) Validation and Calibration
 - b) Input data used for closure simulations were provided by MMG
 - c) Model Changes

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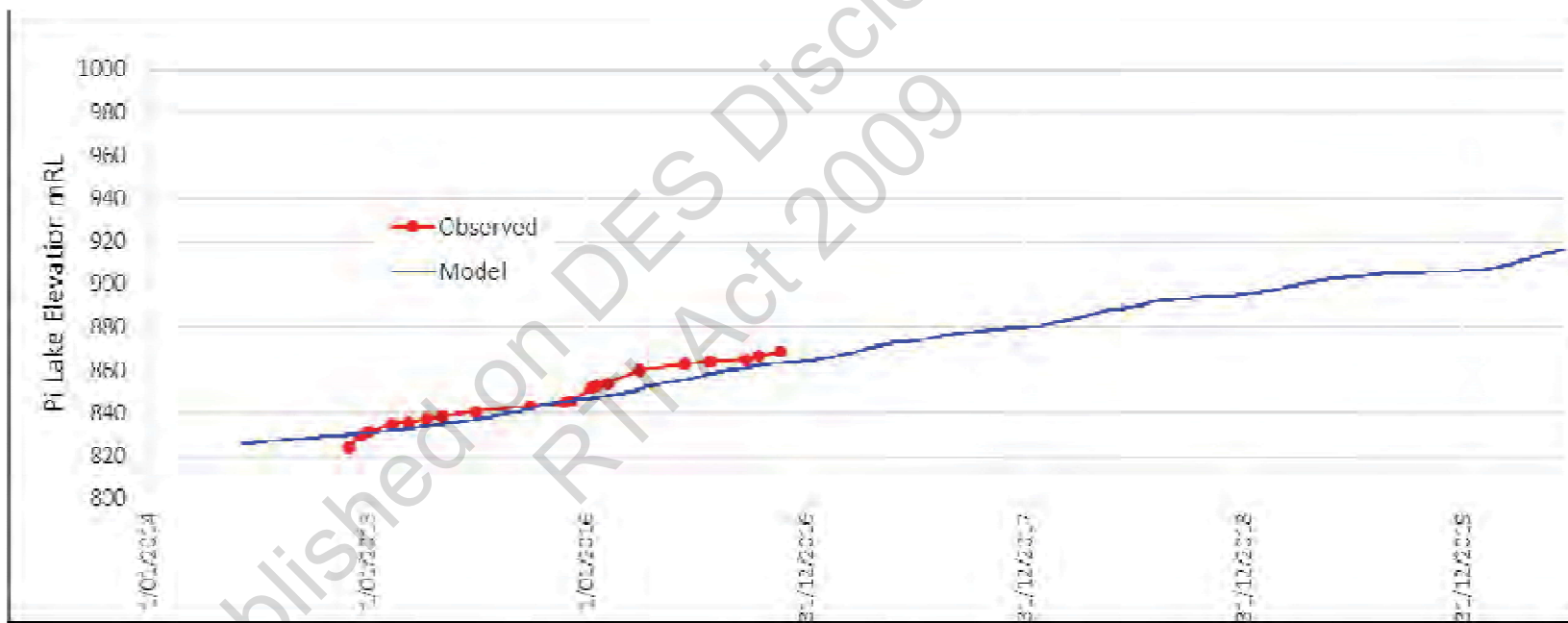


Updates to Numerical Groundwater Model

4. Updates to Numerical Groundwater Model

a) Validation

- Pit lake rebound data compared with model:



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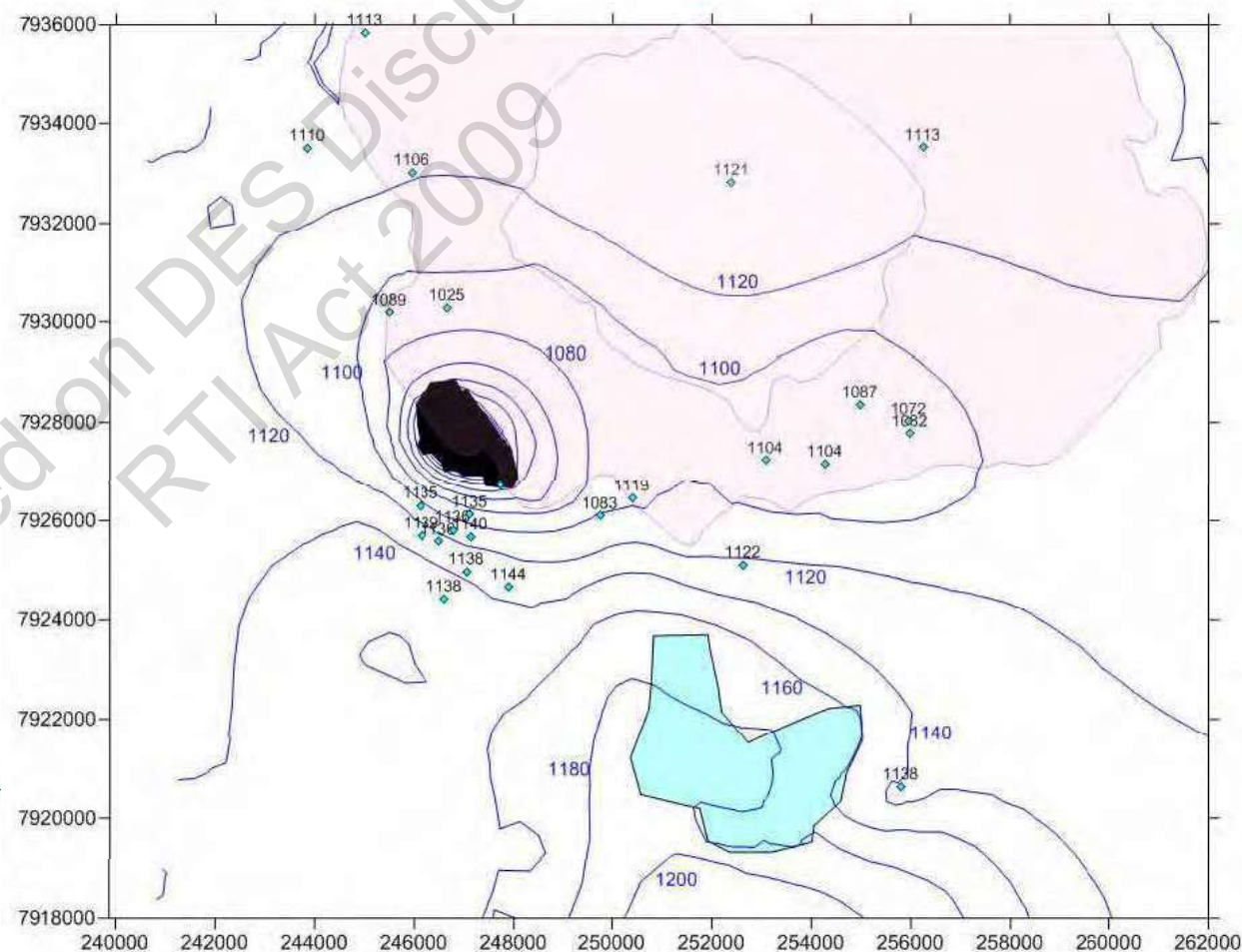


Updates to Numerical Groundwater Model

4. Updates to Numerical Groundwater Model

a) Validation

- Model-predicted (blue) and observed (black) groundwater levels
February 2016



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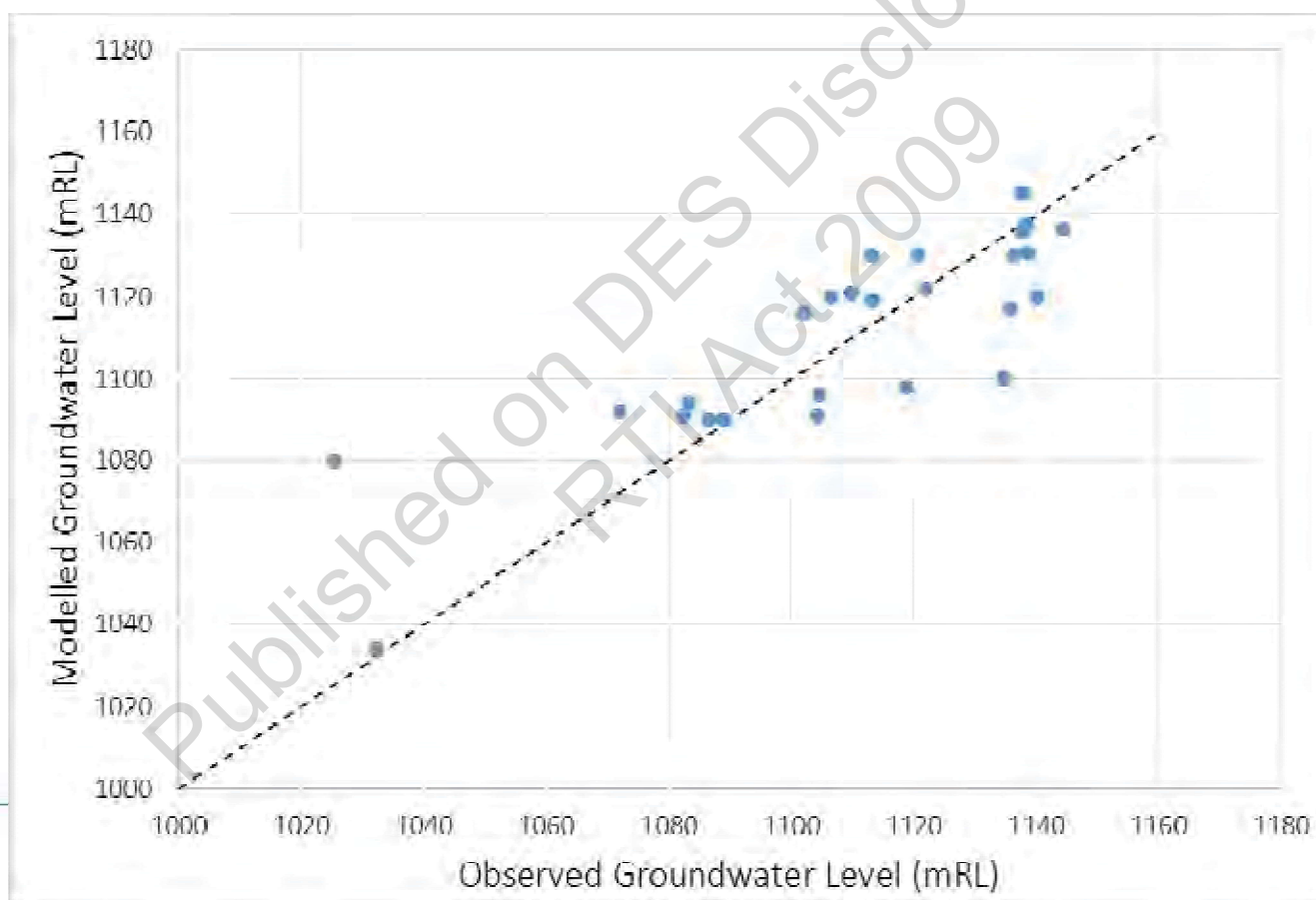


Updates to Numerical Groundwater Model

4. Updates to Numerical Groundwater Model

a) Calibration

- Modelled versus Observed groundwater levels for February 2016:



R

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Updates to Numerical Groundwater Model

- 4. Updates to Numerical Groundwater Model
 - b) Input data provided for simulation (provided by MMG & SRK)
 - i. Surface Water (Inflow) to Pit (time series) for two scenarios
 - ii. Direct Rainfall (Inflow) to Pit (time series) for two scenarios
 - iii. Evaporation (Outflow) from Pit, dependent on pit lake elevation
 - iv. Time varying seepage rates from TSF
 - v. Time varying head conditions of, and transfer rate from Evaporation Dam
 - vi. Timings related to pit and groundwater

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Updates to Numerical Groundwater Model

4. Updates to Numerical Groundwater Model

c) Model Changes

i. Expanded pit inflow/outflow functionality

The following have been converted from a volumetric rate (m^3/d , supplied by MMG/SRK) and applied in the model as a “recharge” flux (m/d) over the footprint of the pit (2.73 km^2)

- Rainfall falling directly on pit
- Surface water diverted into pit
- Transfer from evaporation dam into pit



Updates to Numerical Groundwater Model

4. Updates to Numerical Groundwater Model

c) Model Changes

- ii. Evaporation has been applied in the model as a negative “recharge” rate (m/d) over the footprint of the pit (2.73 km²)
 - Uses monthly mean values
 - Multiplied by a factor according to elevation of pit lake (adapted from GoldSim model):

<u>Pit lake elevation</u>	<u>Evaporation rate multiplied by</u>
Pit lake > 1020 mRL	0.73
930 mRL < Pit lake ≤ 1020 mRL	0.853
840 mRL < Pit lake ≤ 930 mRL	0.977
Pit lake ≤ 840 mRL	1.1



Updates to Numerical Groundwater Model

4. Updates to Numerical Groundwater Model

c) Model Changes

- iii. TSF represented by flux boundary condition
 - Seepage rate provided by SRK:

Time	Estimated seepage flux from TSF
years	m/day
0	9E-05
0.0003	9E-05
0.08	9E-05
1	4E-05
2	3E-05
5	3E-05
10	2E-05
15	2E-05
20	2E-05
50	1E-05
100	1E-05

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Simulation Scenarios

5. Simulation Scenarios

Surface water inflows to the pit (provided by the GoldSim model) are based on the catchment area reporting to the pit.

Option B has a catchment area of 15.4 km² (Permanent Sink Case)

Option C considers a catchment area of 41.7 km², which includes the Page Creek catchment (Pit Full Case)

Option C Sensitivity has same catchment area as Option C but uses reduced recharge rates to examine a Flow-Through situation



Simulation Results

6. Simulation Results

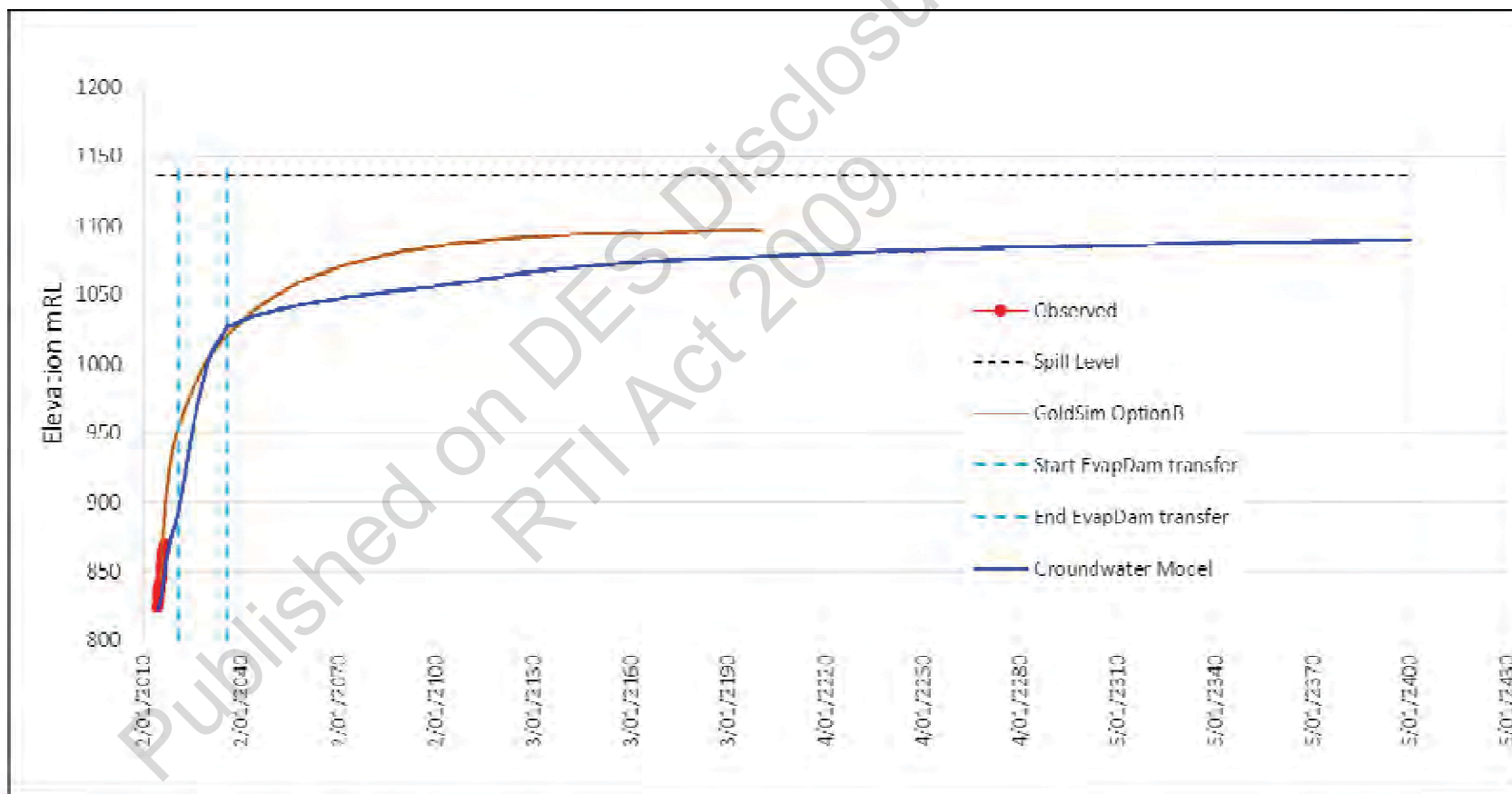
- a) Pit lake elevation (mRL)
- b) Groundwater volumetric flow rate (m^3/d) through vertical cross-sectional areas
- c) Cross-sectional flow directions
- d) Long-term groundwater potentiometric surface contours



Simulation Results

6. Simulation Results Option B

a) Pit Lake Elevation (mRL)



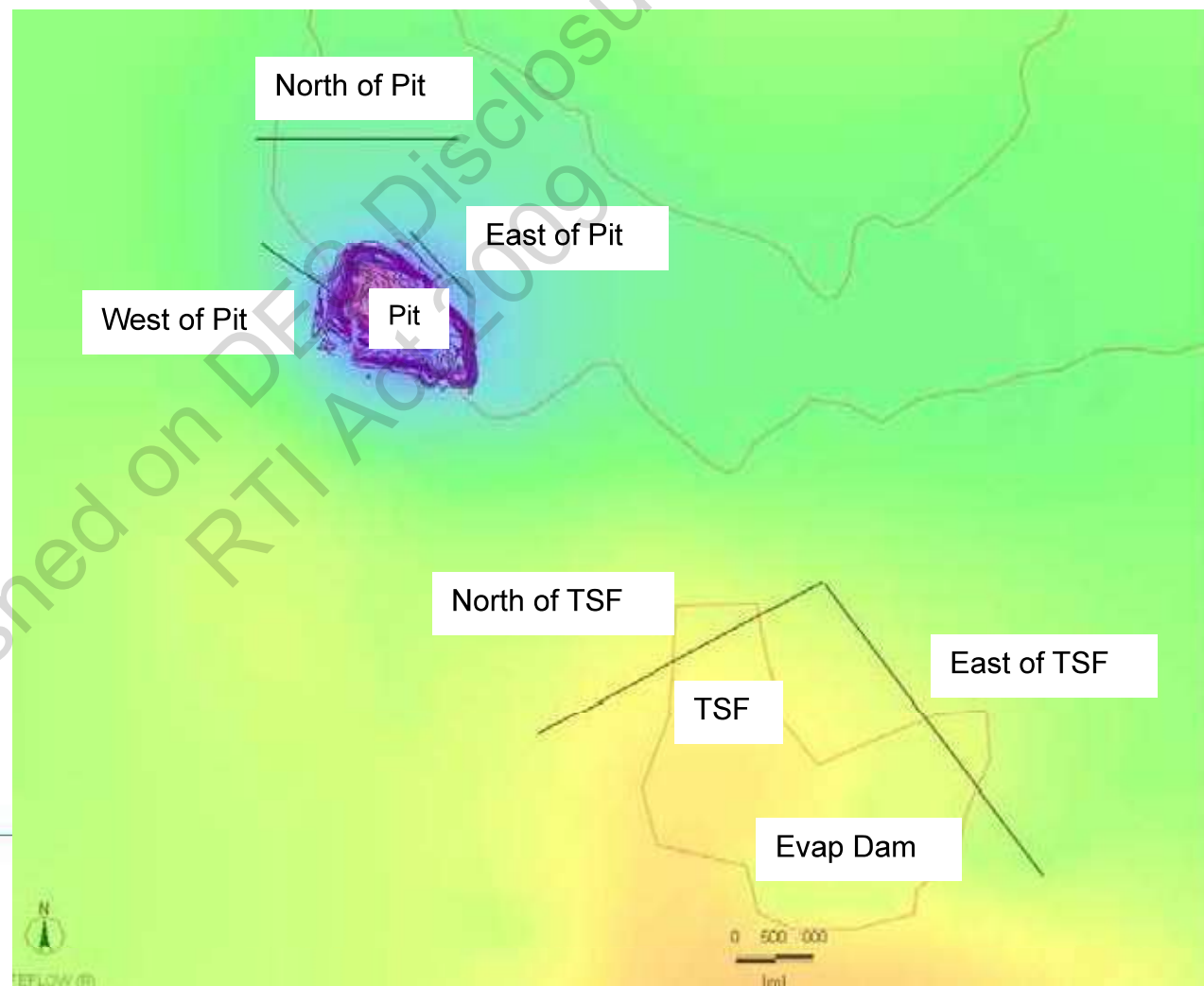
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Simulation Results

6. Simulation Results Option B

- b) Groundwater volumetric flow rate (m^3/d) through vertical cross-sections



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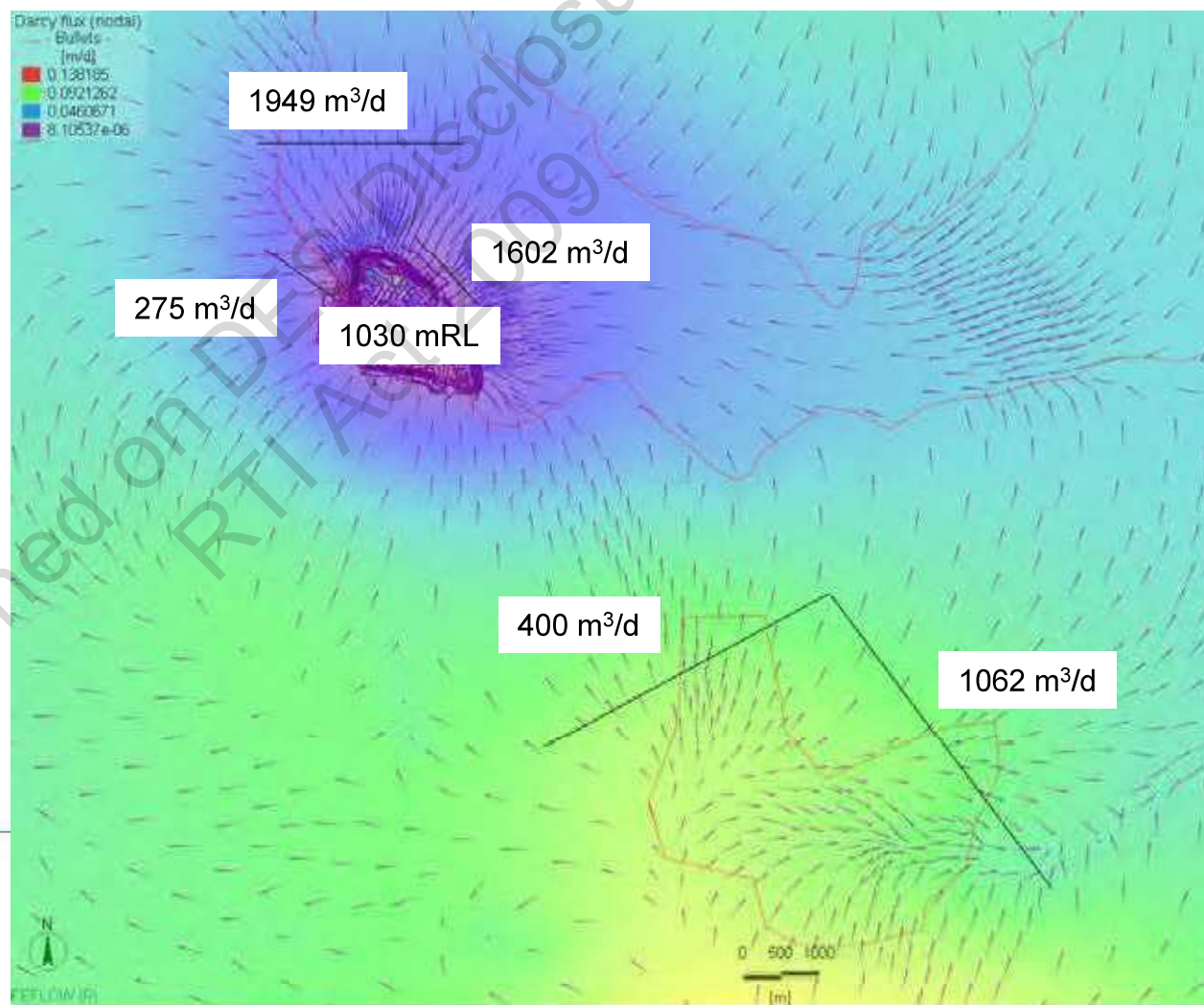
Simulation Results

6. Simulation Results Option B

b) Groundwater volumetric flow rate (m^3/d) through vertical cross-sections

Option B

Year 2040
Season Wet



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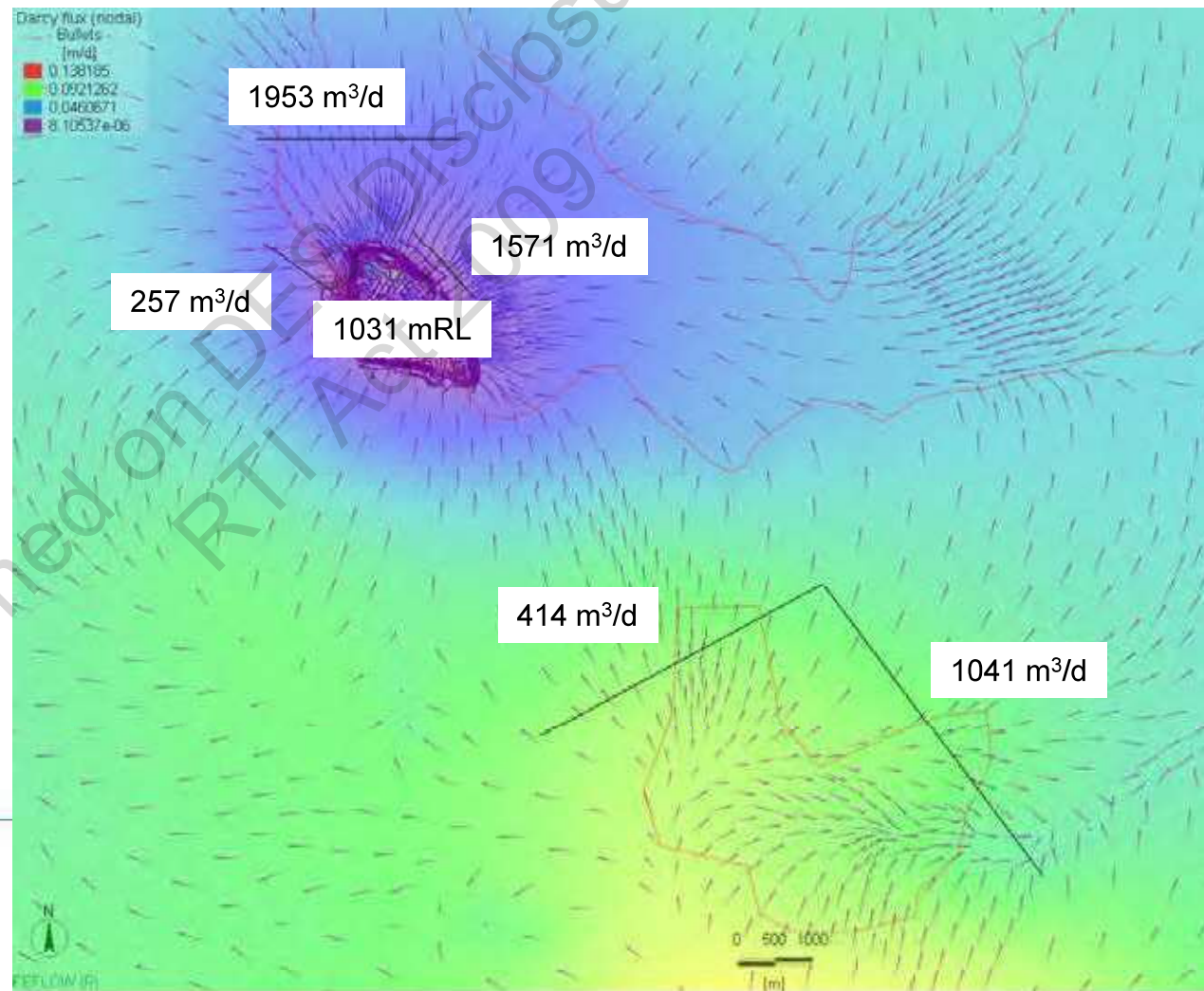
Simulation Results

6. Simulation Results Option B

b) Groundwater volumetric flow rate (m^3/d) through vertical cross-sections

Option B

Year 2040
Season Dry



August 3, 2017



Simulation Results

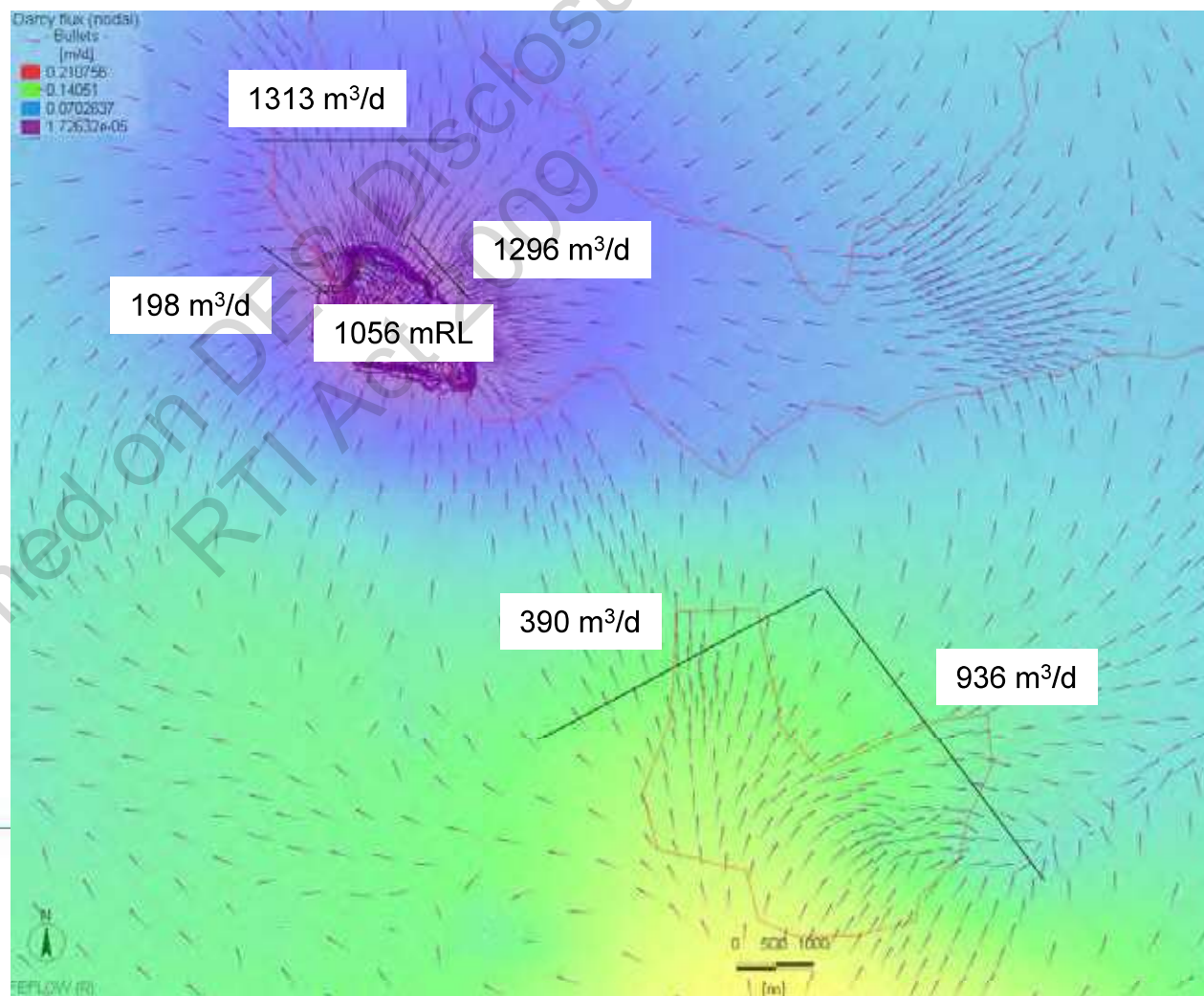
6. Simulation Results Option B

b) Groundwater volumetric flow rate (m^3/d) through vertical cross-sections

Option B

Year 2100

Season Wet



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Simulation Results

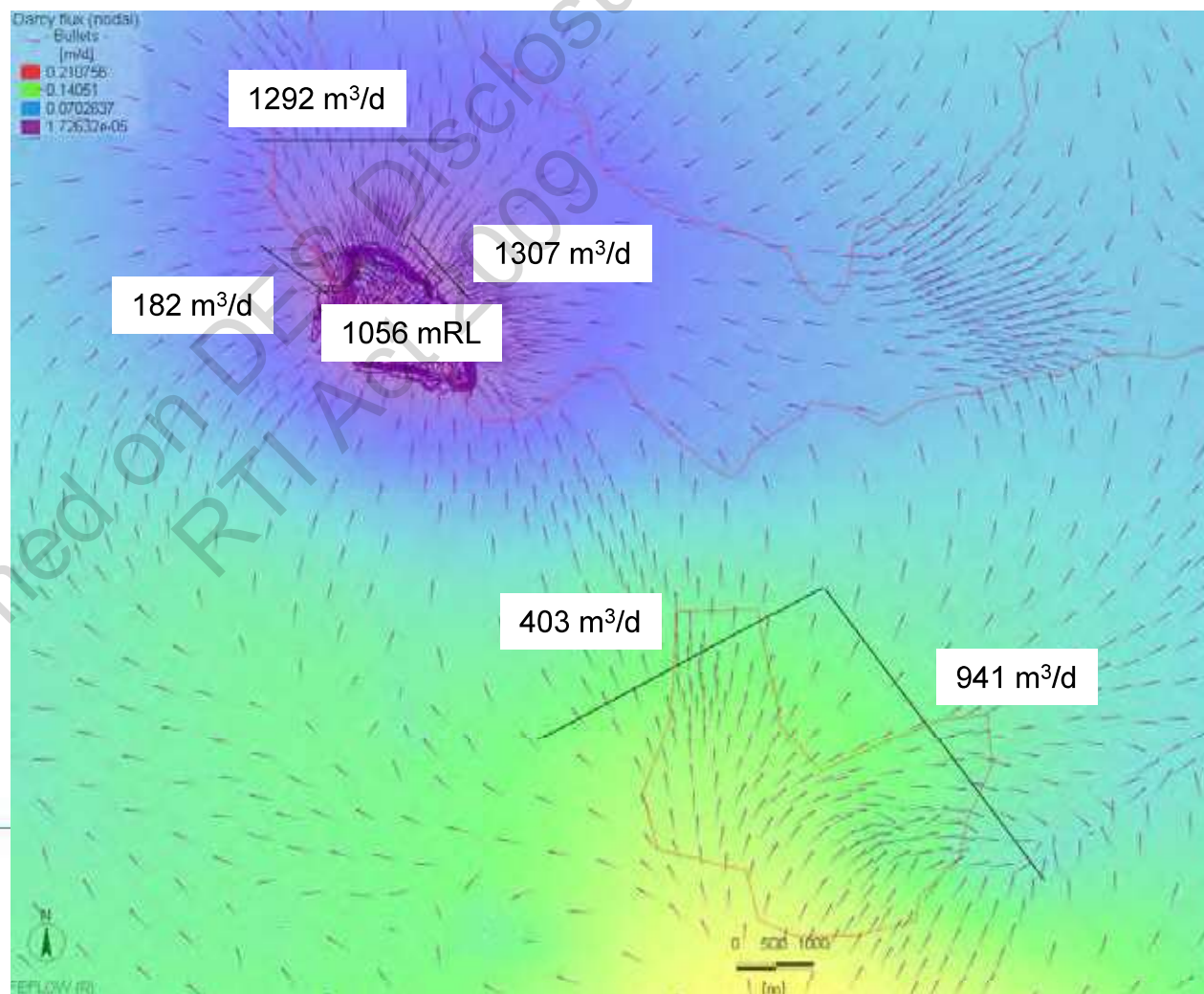
6. Simulation Results Option B

b) Groundwater volumetric flow rate (m^3/d) through vertical cross-sections

Option B

Year 2100

Season Dry



August 3, 2017



Simulation Results

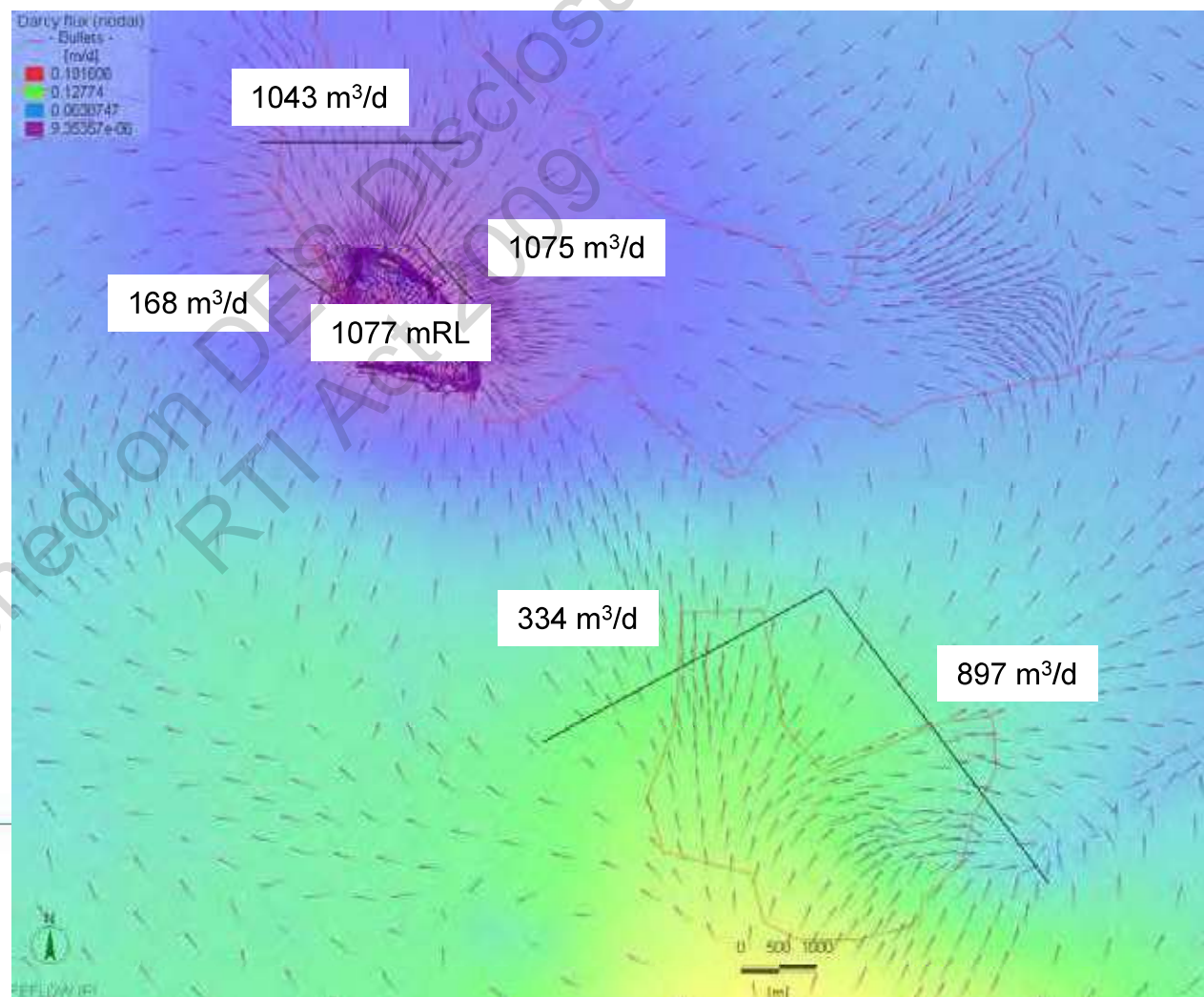
6. Simulation Results Option B

b) Groundwater volumetric flow rate (m^3/d) through vertical cross-sections

Option B

Year 2200

Season Wet



August 3, 2017



Simulation Results

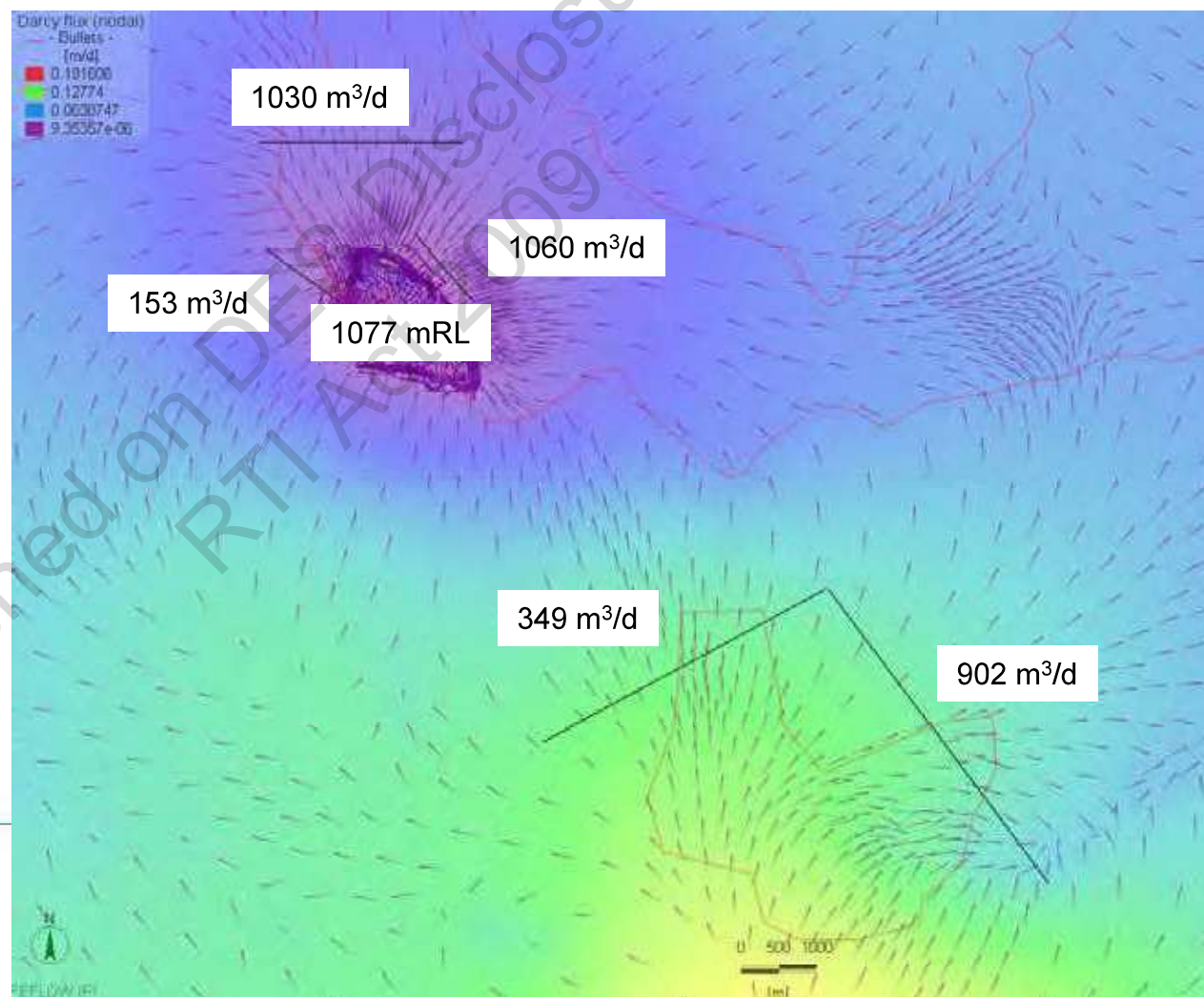
6. Simulation Results Option B

b) Groundwater volumetric flow rate (m^3/d) through vertical cross-sections

Option B

Year 2200

Season Dry



August 3, 2017



Simulation Results

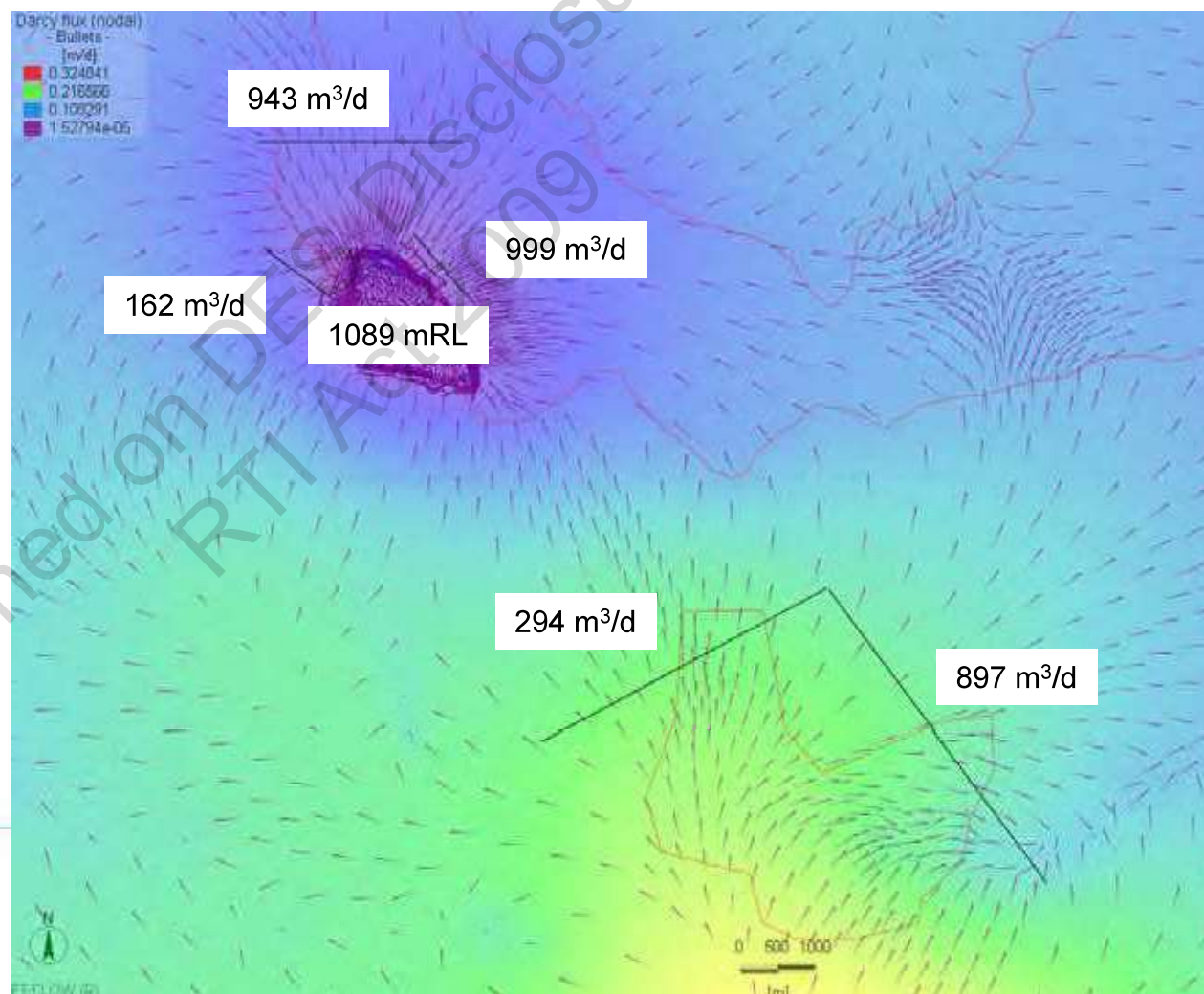
6. Simulation Results Option B

b) Groundwater volumetric flow rate (m^3/d) through vertical cross-sections

Option B

Year 2400

Season Wet



August 3, 2017



Simulation Results

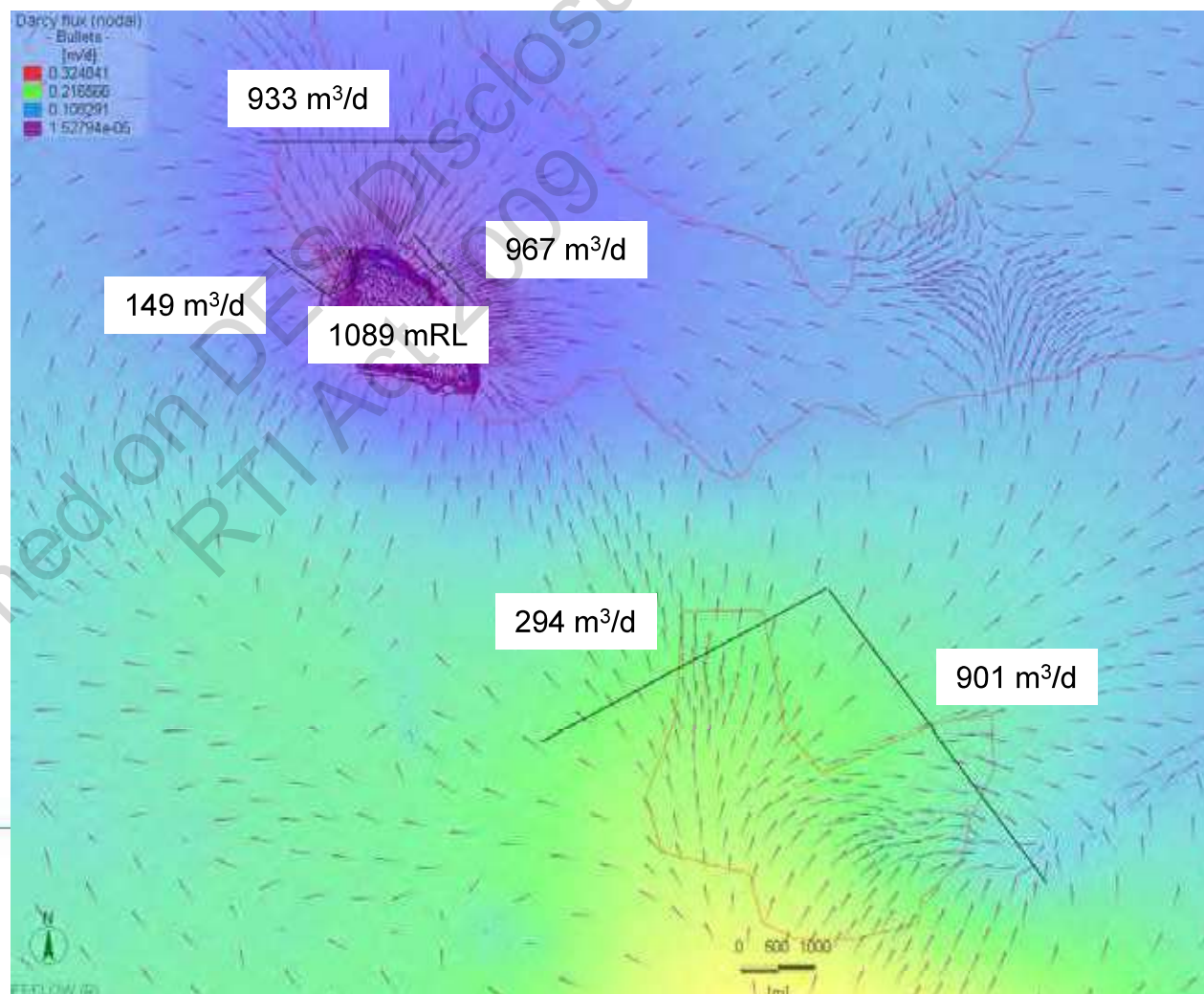
6. Simulation Results Option B

b) Groundwater volumetric flow rate (m^3/d) through vertical cross-sections

Option B

Year 2400

Season Dry



August 3, 2017

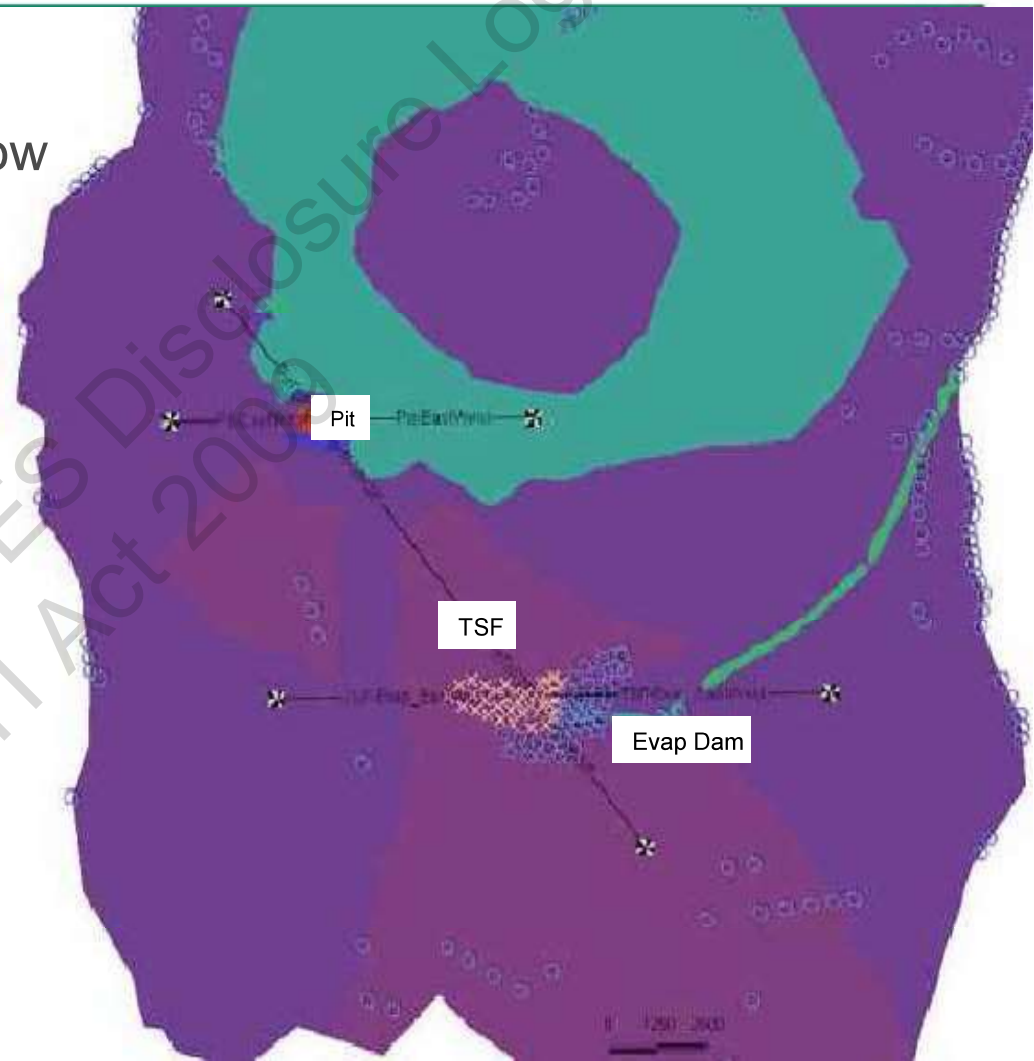


Simulation Results

6. Simulation Results Option B
- c) Direction of groundwater flow along cross-sections

Cross-Sections

- *PitToTSFEvap-NWtoSE*
- *TSF-Evap_EastWest*
- *Pit-EastWest*





Simulation Results

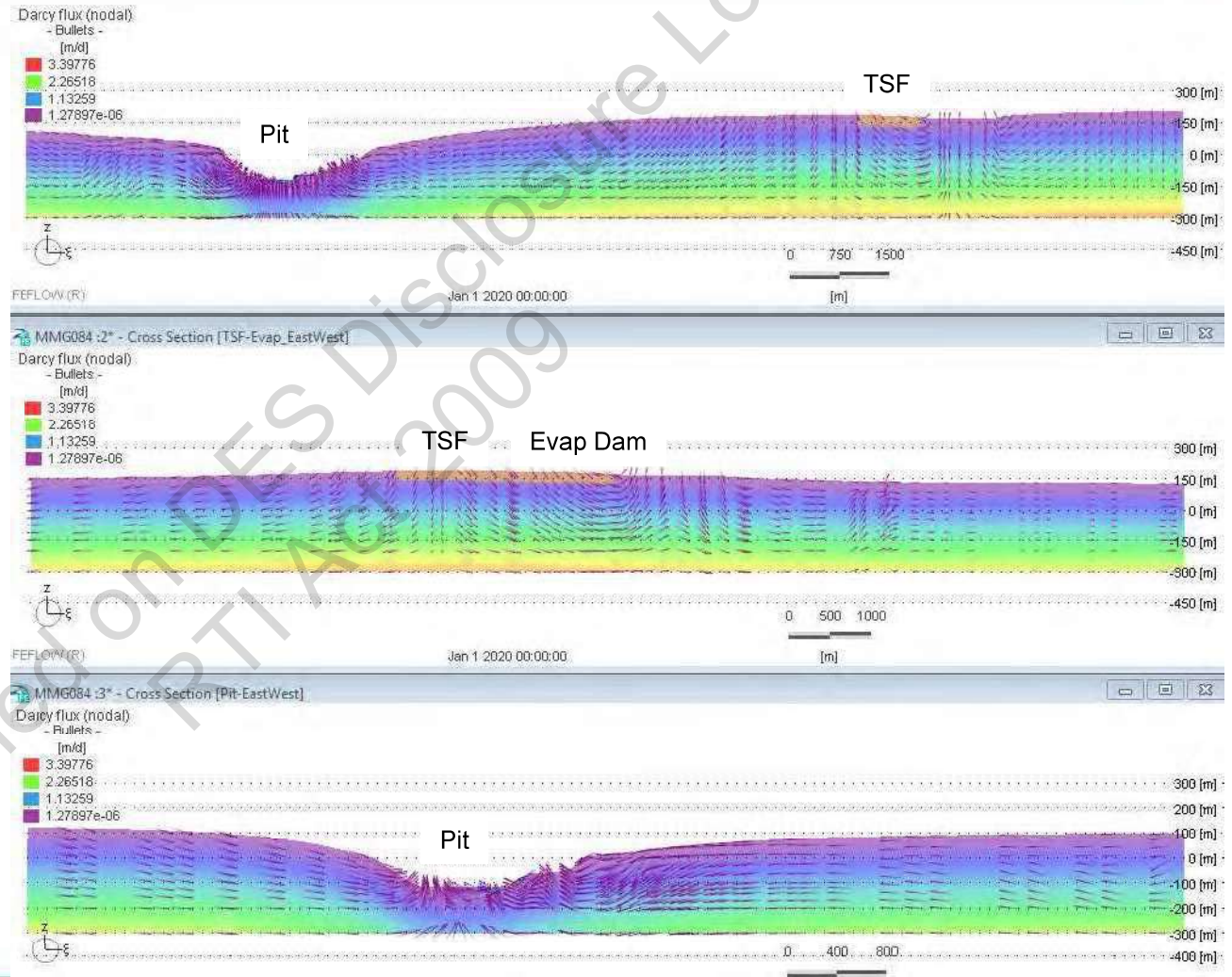
Option B

Jan 2020

■ *PitToTSFEvap-NWtoSE*

■ *TSF-Evap_EastWest*

■ *Pit-EastWest*





Simulation Results

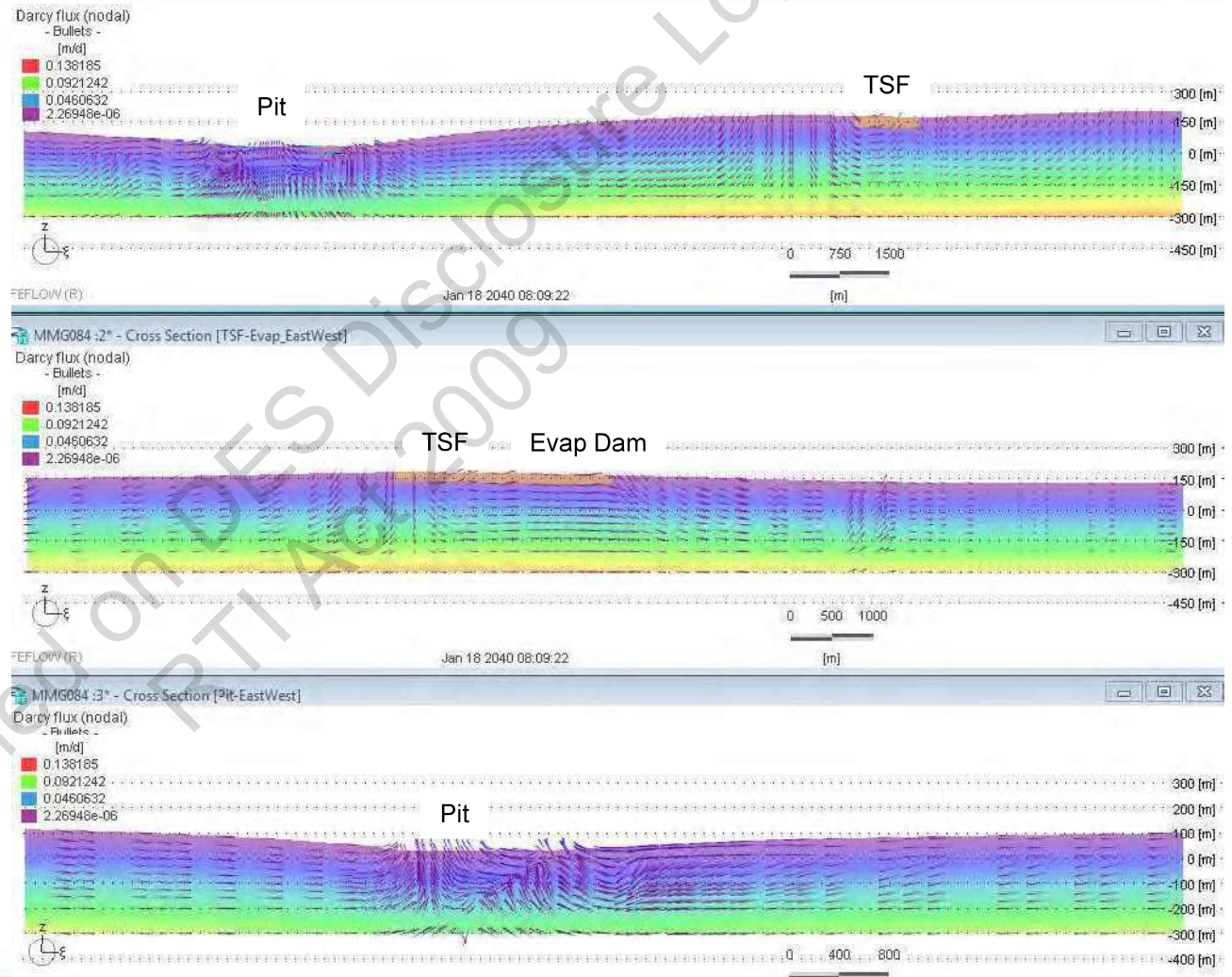
Option B

Jan 2040

■ *PitToTSFEvap-NWtoSE*

■ *TSF-Evap_EastWest*

■ *Pit-EastWest*





Simulation Results

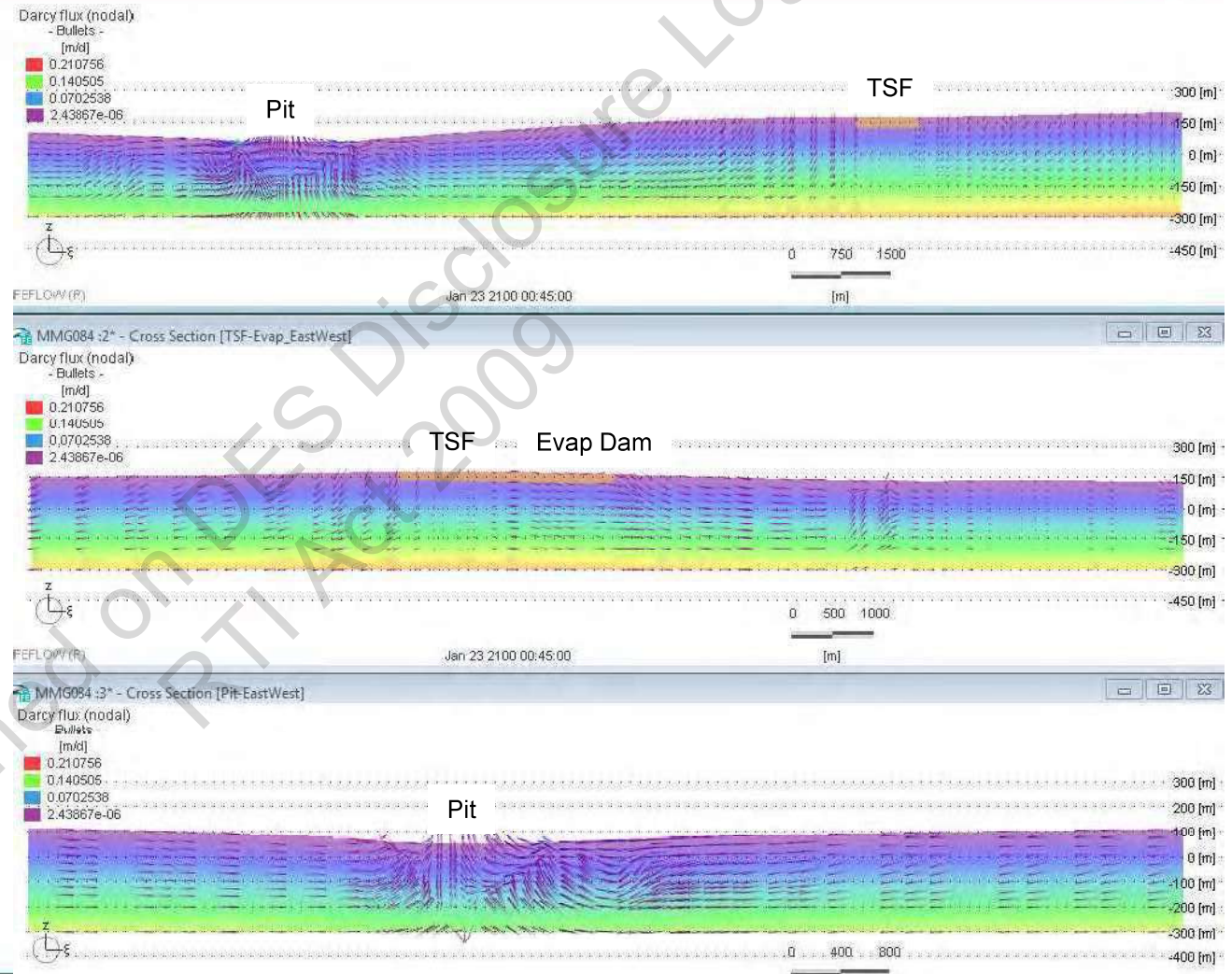
Option B

Jan 2100

■ *PitToTSFEvap-NWtoSE*

■ *TSF-Evap_EastWest*

■ *Pit-EastWest*





Simulation Results

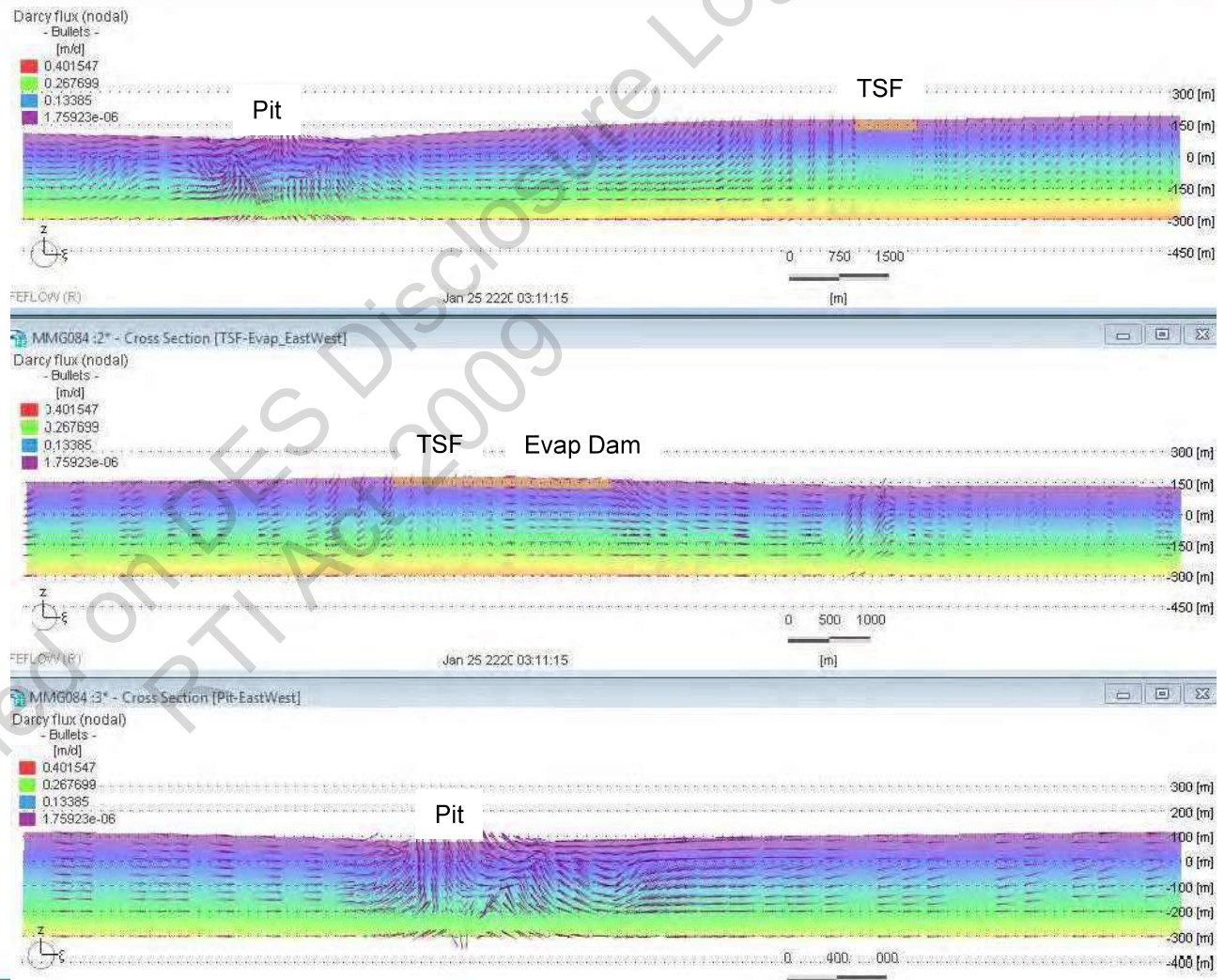
Option B

Jan 2200

■ *PitToTSFEvap-NWtoSE*

■ *TSF-Evap_EastWest*

■ *Pit-EastWest*





Simulation Results

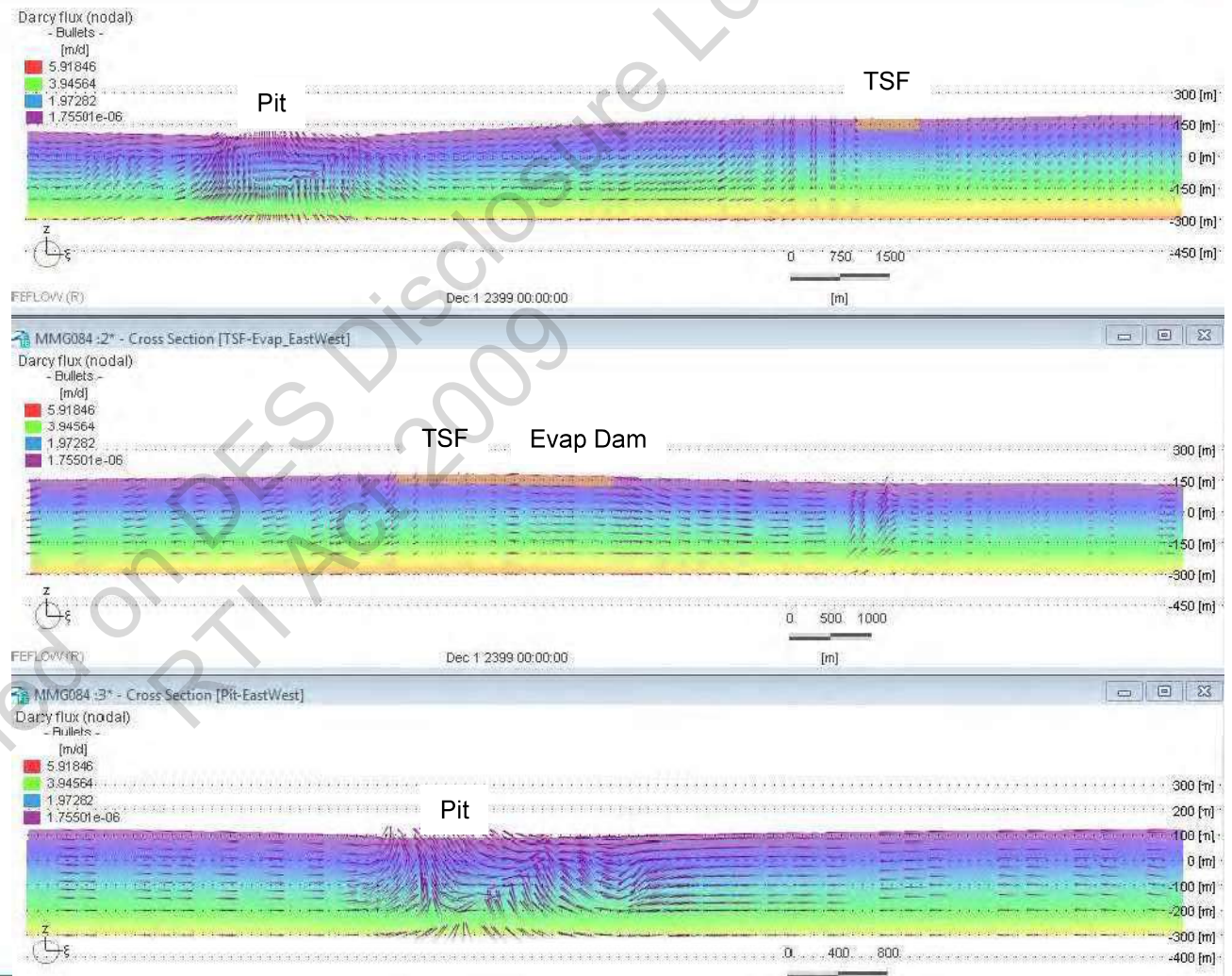
Option B

Jan 2400

■ *PitToTSFEvap-NWtoSE*

■ *TSF-Evap_EastWest*

■ *Pit-EastWest*

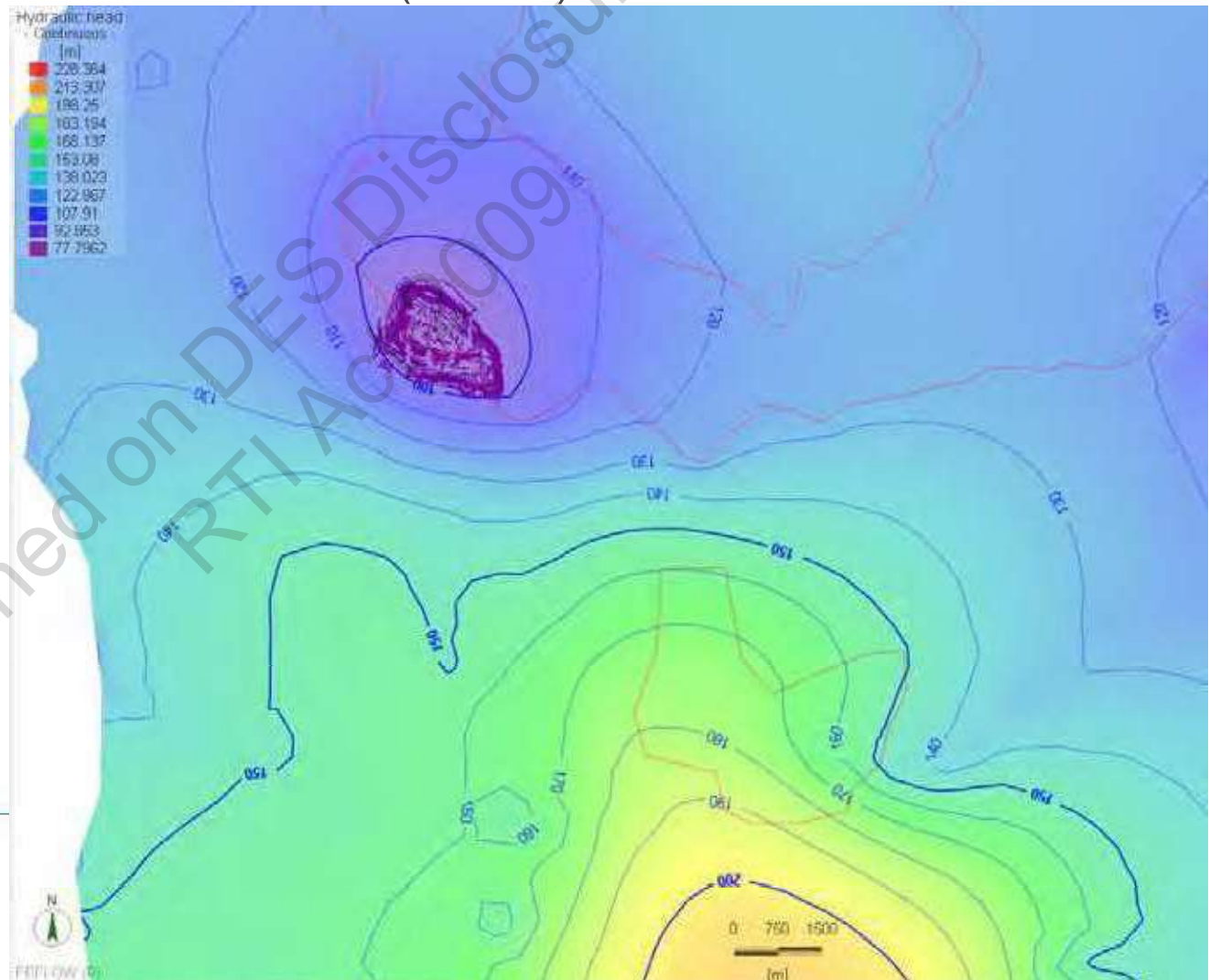




Simulation Results

6. Simulation Results Option B

d) Long-term groundwater contours (mAHD)



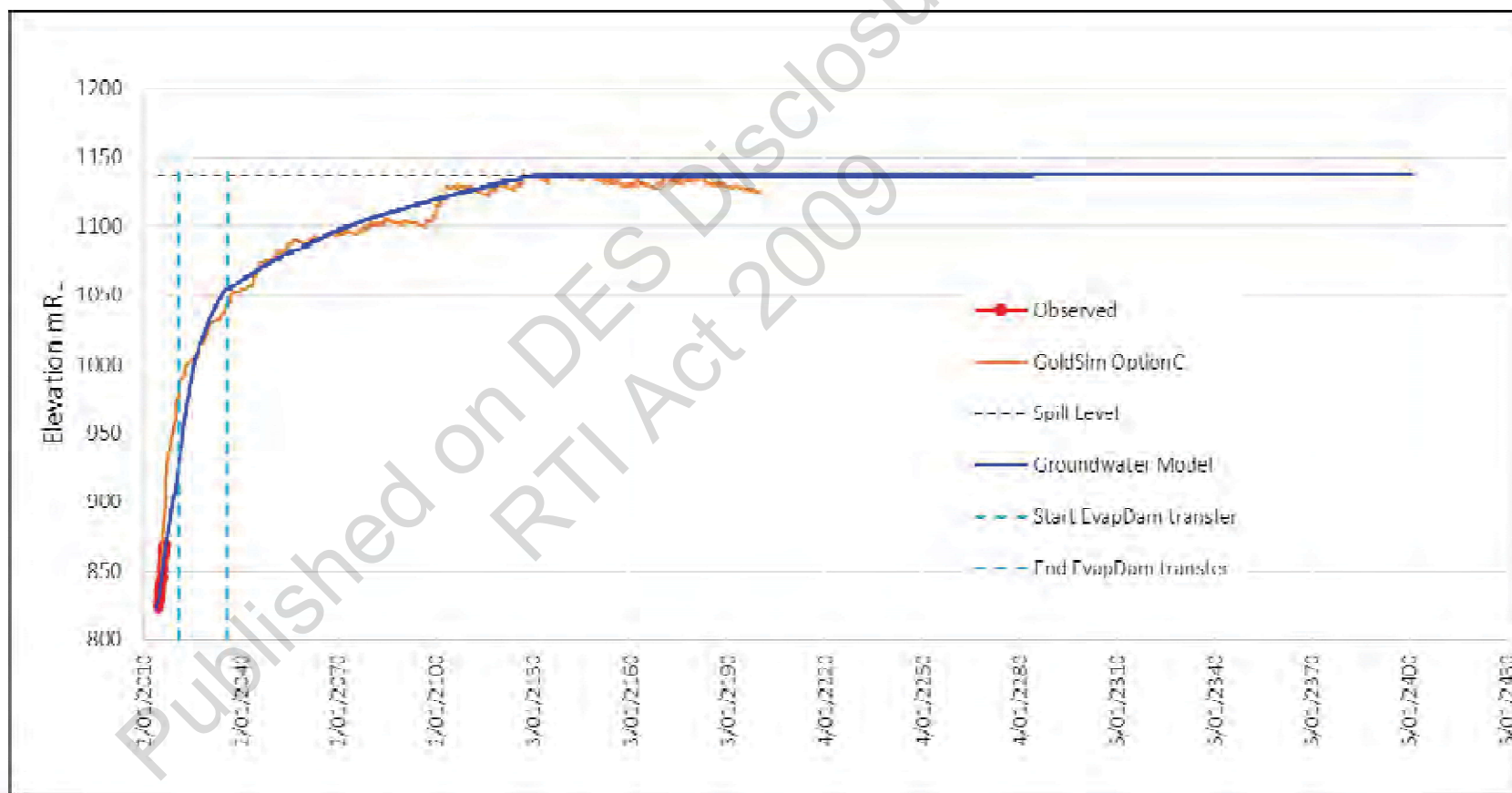
August 3, 2017



Simulation Results

6. Simulation Results Option C

a) Pit Lake Elevation (mRL)



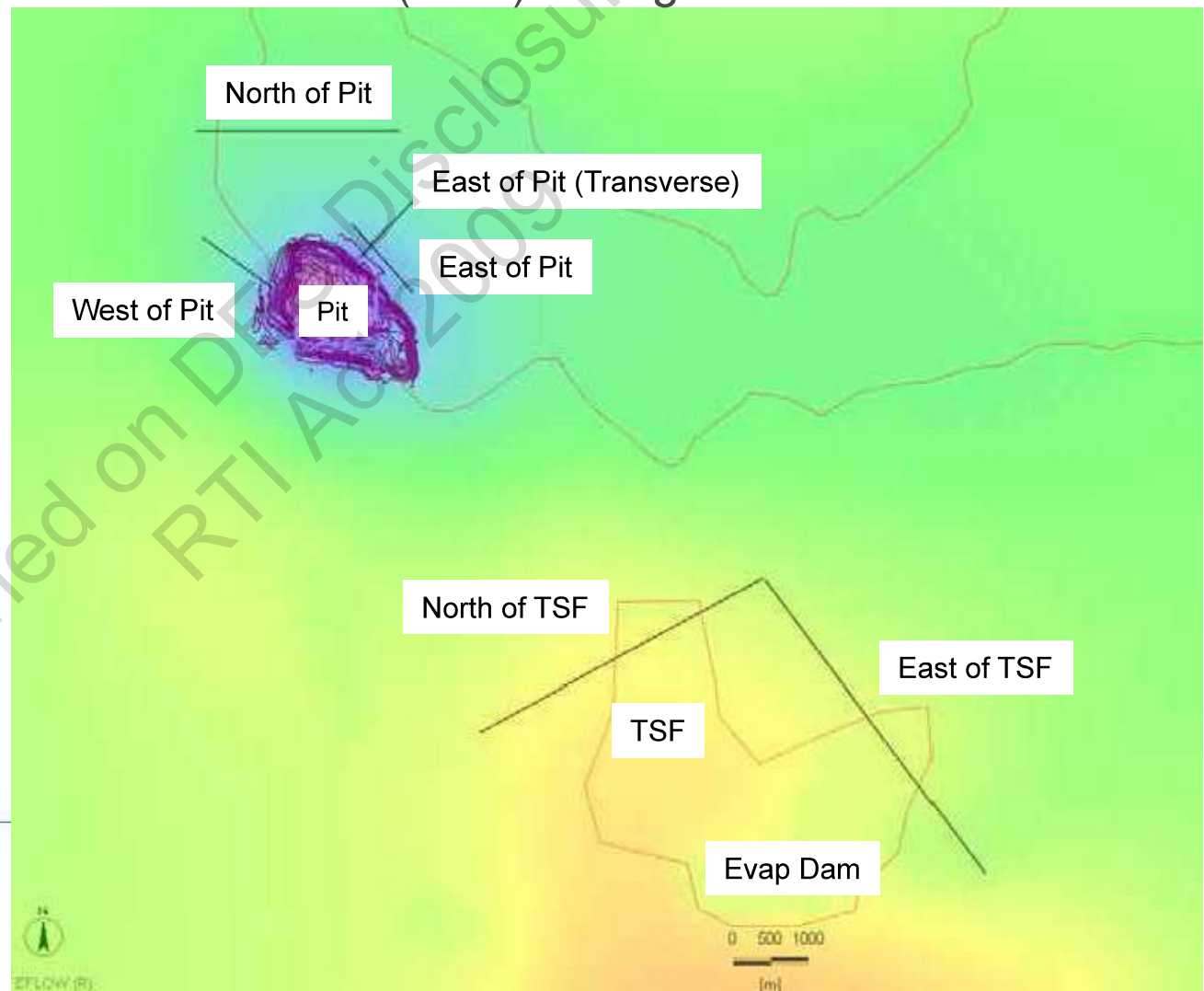
August 3, 2017



Simulation Results

6. Simulation Results Option C

b) Groundwater volumetric flow rate (m^3/d) through vertical cross-sections



August 3, 2017



Simulation Results

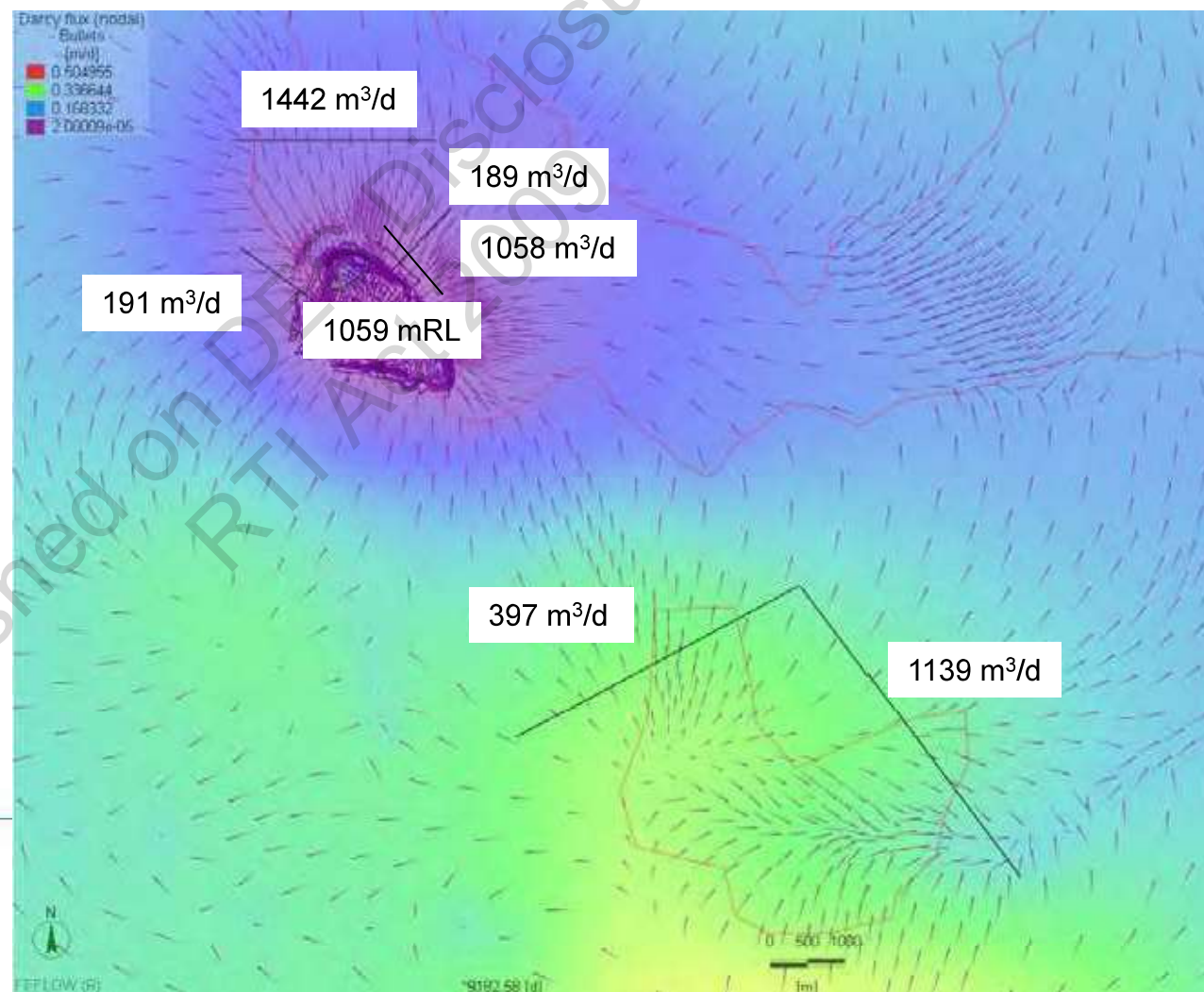
6. Simulation Results Option C

b) Groundwater volumetric flow rate (m^3/d) through vertical cross-sections

Option C

Year 2040

Season Wet



August 3, 2017



Simulation Results

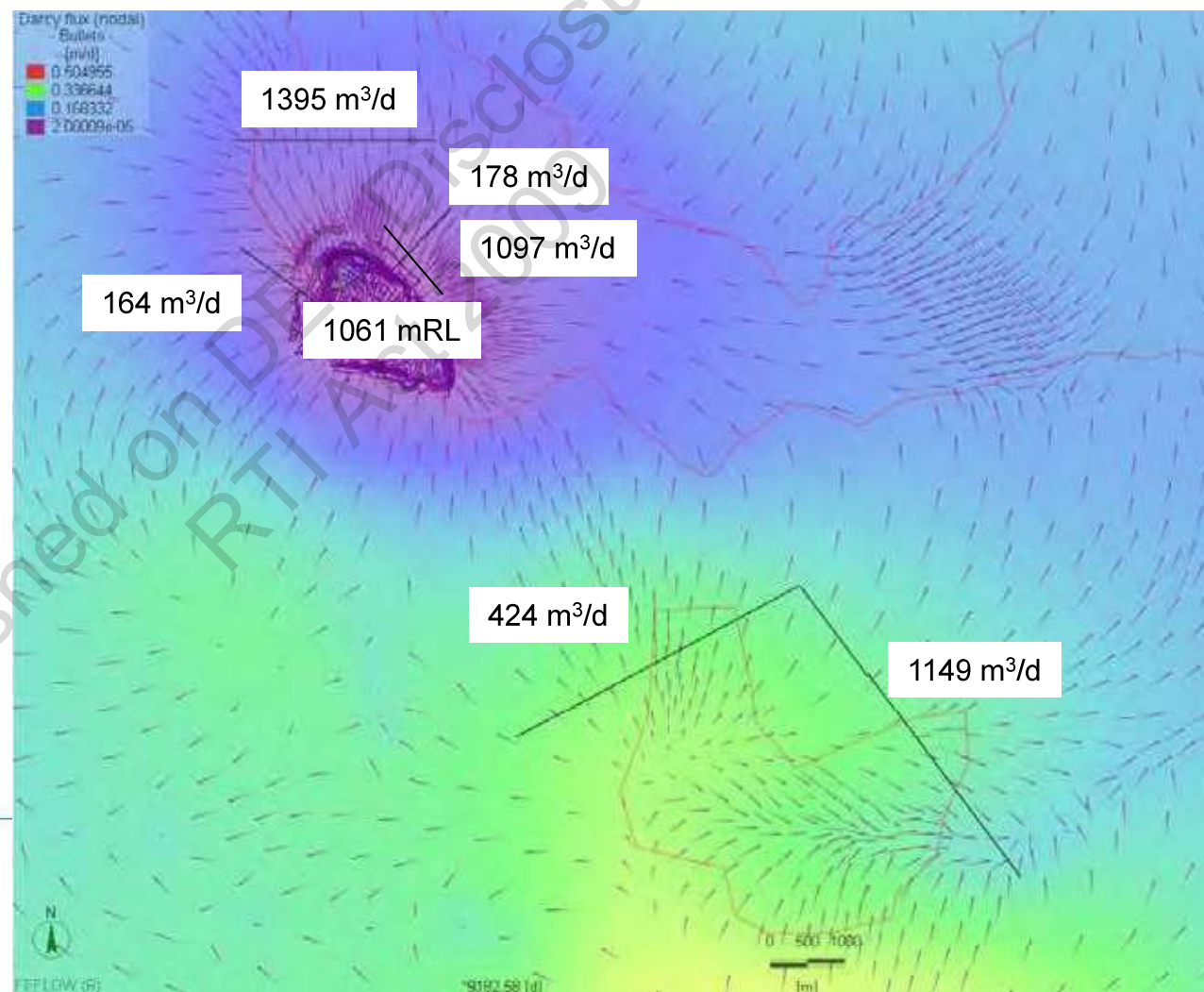
6. Simulation Results Option C

b) Groundwater volumetric flow rate (m^3/d) through vertical cross-sections

Option C

Year 2040

Season Dry



August 3, 2017



Simulation Results

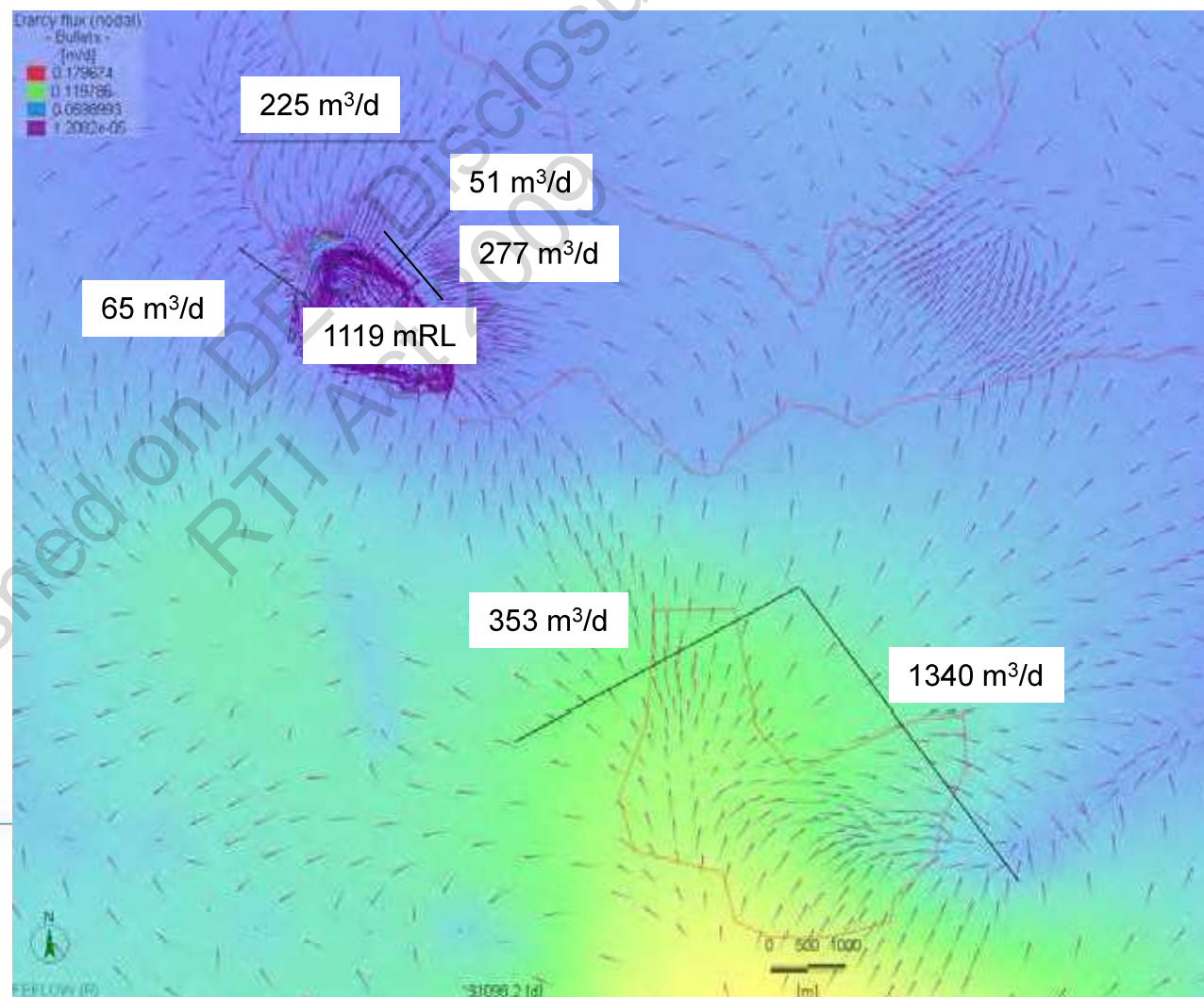
6. Simulation Results Option C

b) Groundwater volumetric flow rate (m^3/d) through vertical cross-sections

Option C

Year 2100

Season Wet



August 3, 2017



Simulation Results

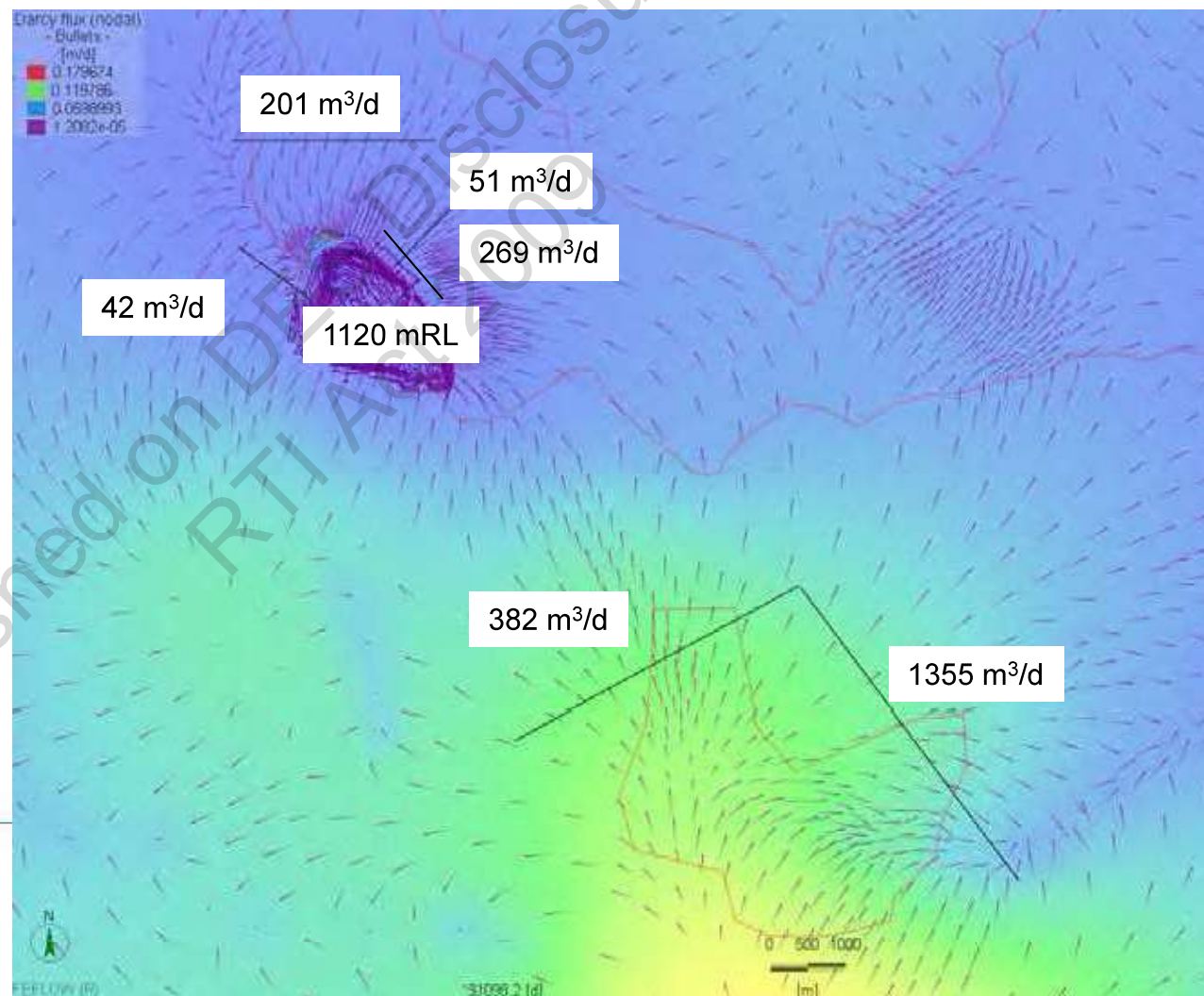
6. Simulation Results Option C

b) Groundwater volumetric flow rate (m^3/d) through vertical cross-sections

Option C

Year 2100

Season Dry



August 3, 2017



Simulation Results

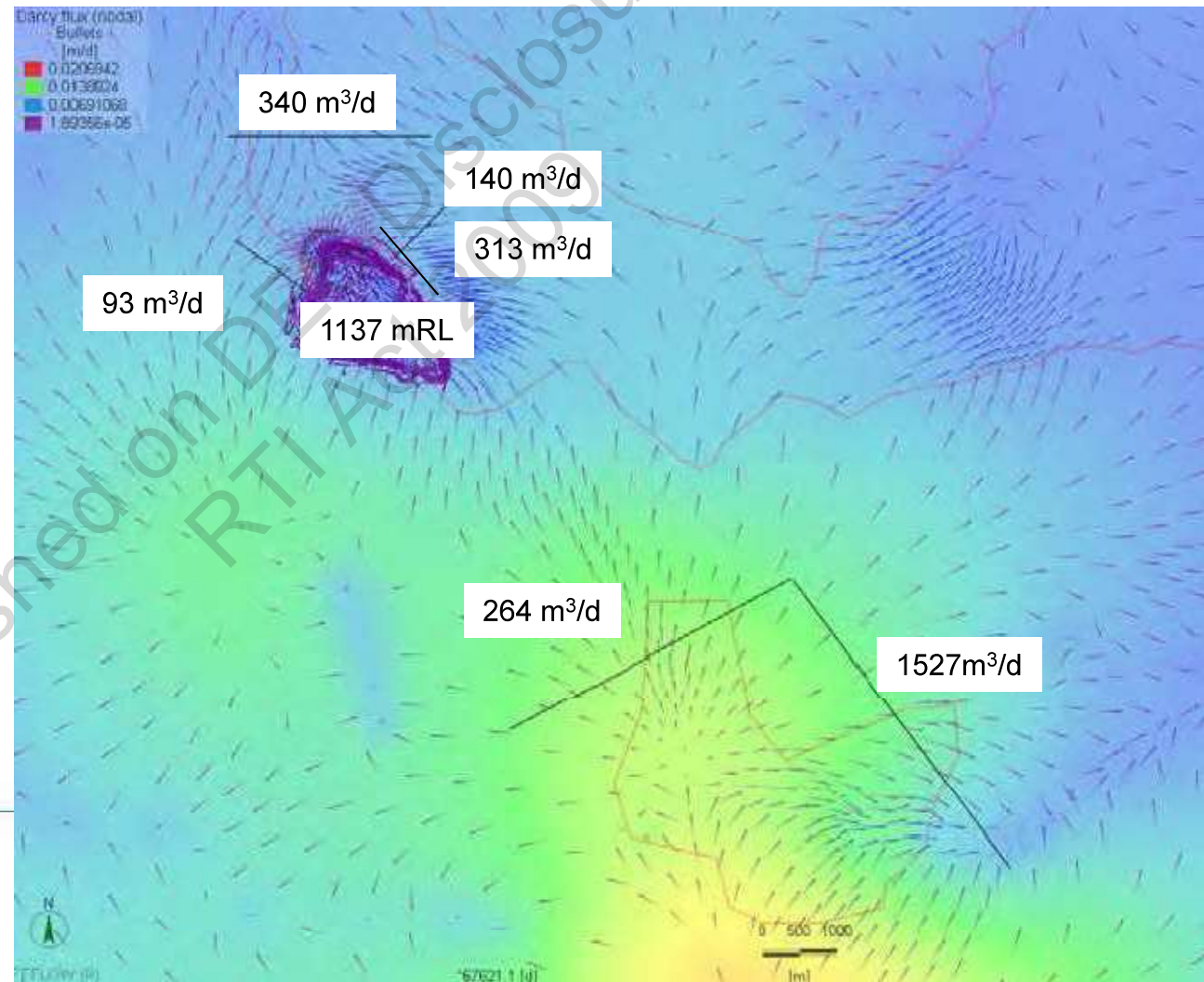
6. Simulation Results Option C

b) Groundwater volumetric flow rate (m^3/d) through vertical cross-sections

Option C

Year 2200

Season Wet



August 3, 2017



Simulation Results

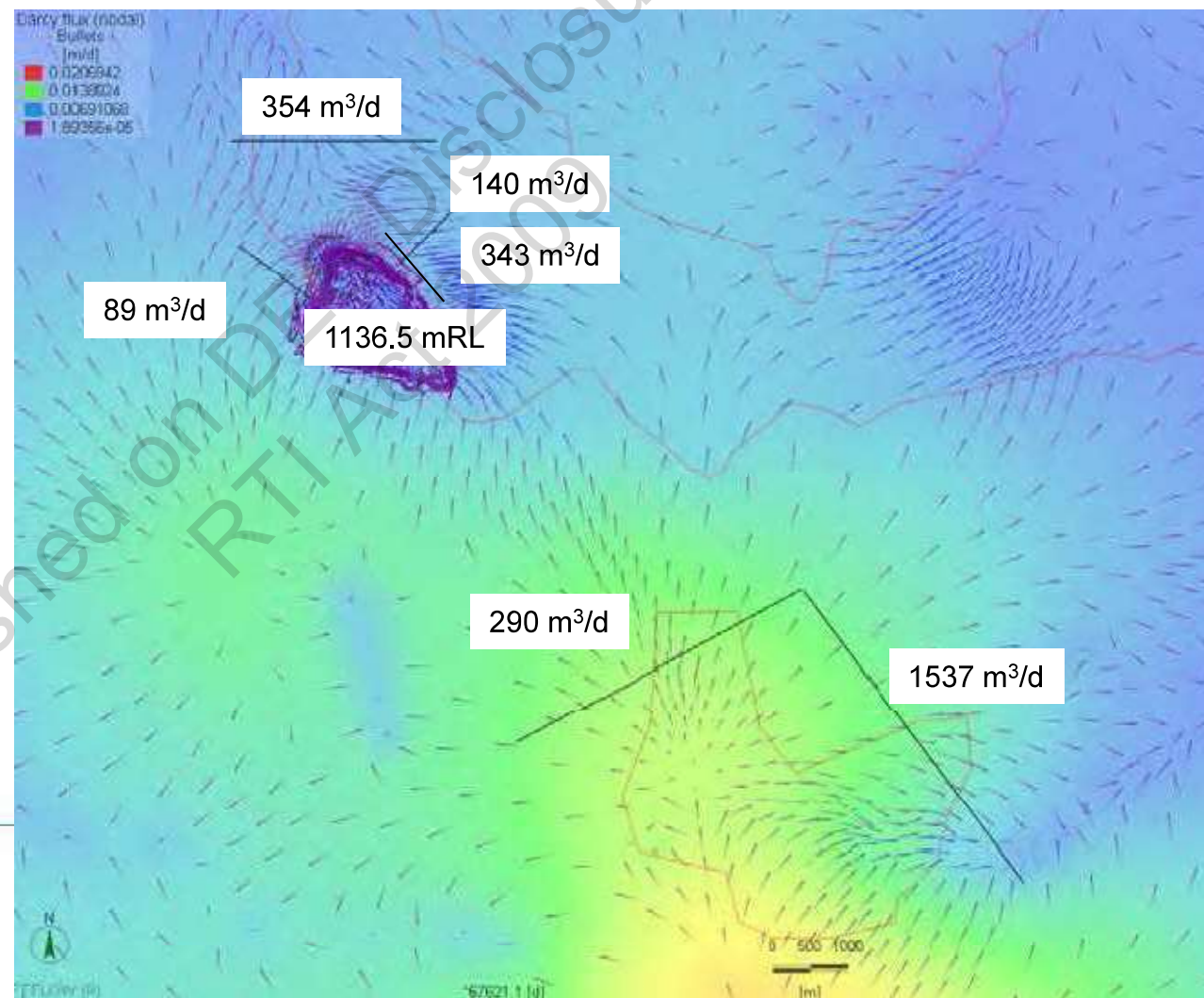
6. Simulation Results Option C

b) Groundwater volumetric flow rate (m^3/d) through vertical cross-sections

Option C

Year 2200

Season Dry



August 3, 2017



Simulation Results

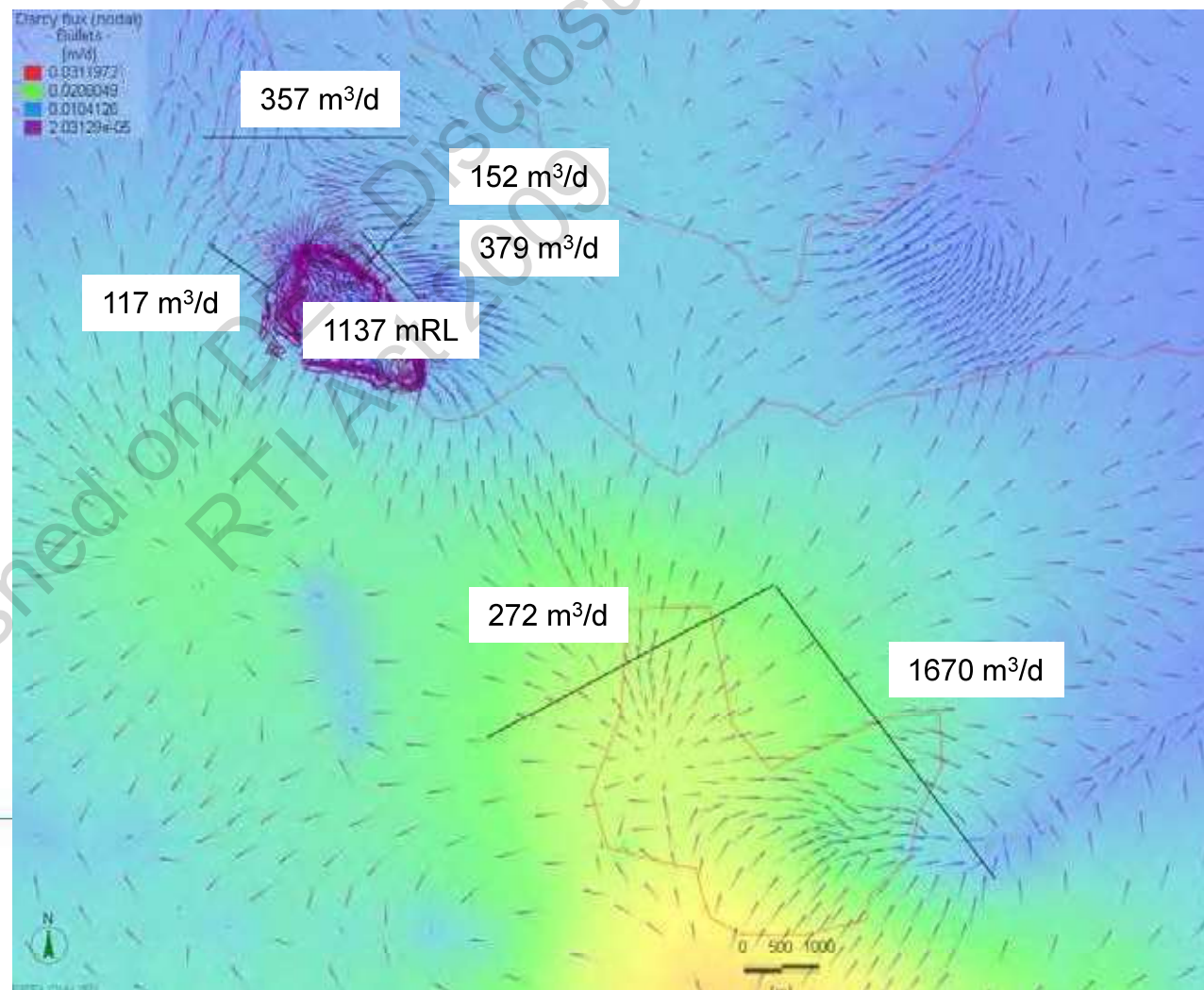
6. Simulation Results Option C

b) Groundwater volumetric flow rate (m^3/d) through vertical cross-sections

Option C

Year 2400

Season Wet



August 3, 2017



Simulation Results

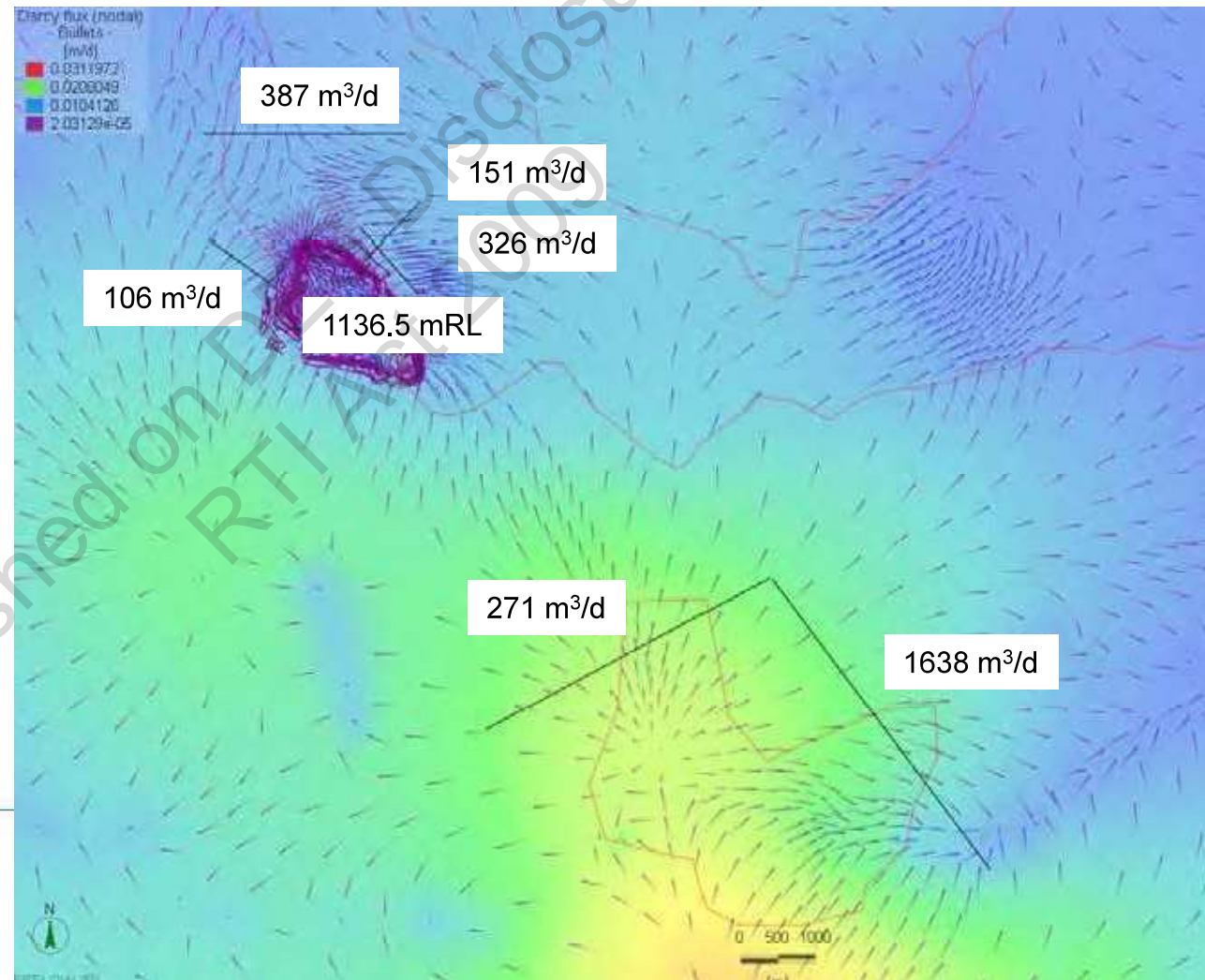
6. Simulation Results Option C

b) Groundwater volumetric flow rate (m^3/d) through vertical cross-sections

Option C

Year 2400

Season Dry



August 3, 2017

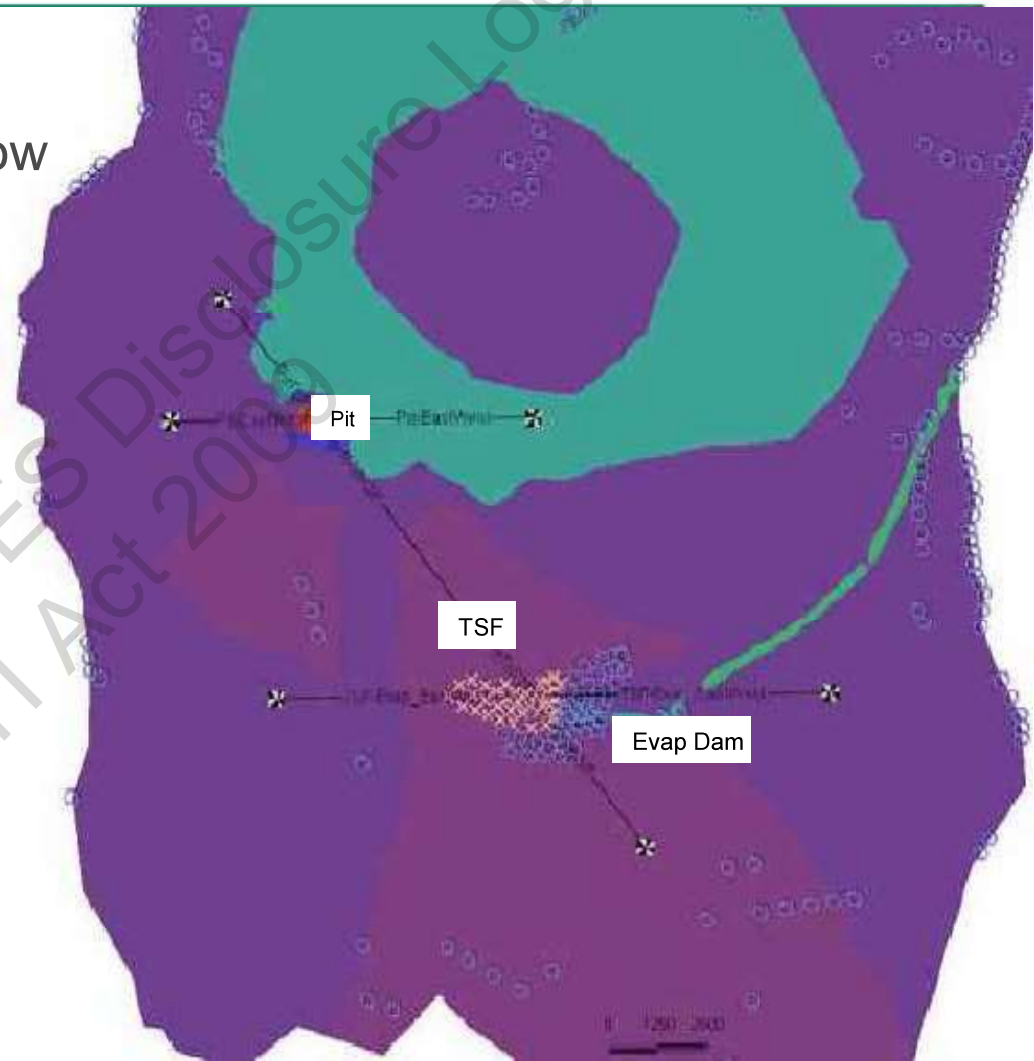


Simulation Results

6. Simulation Results Option C
- c) Direction of groundwater flow along cross-sections

Cross-Sections

- *PitToTSFEvap-NWtoSE*
- *TSF-Evap_EastWest*
- *Pit-EastWest*





Simulation Results

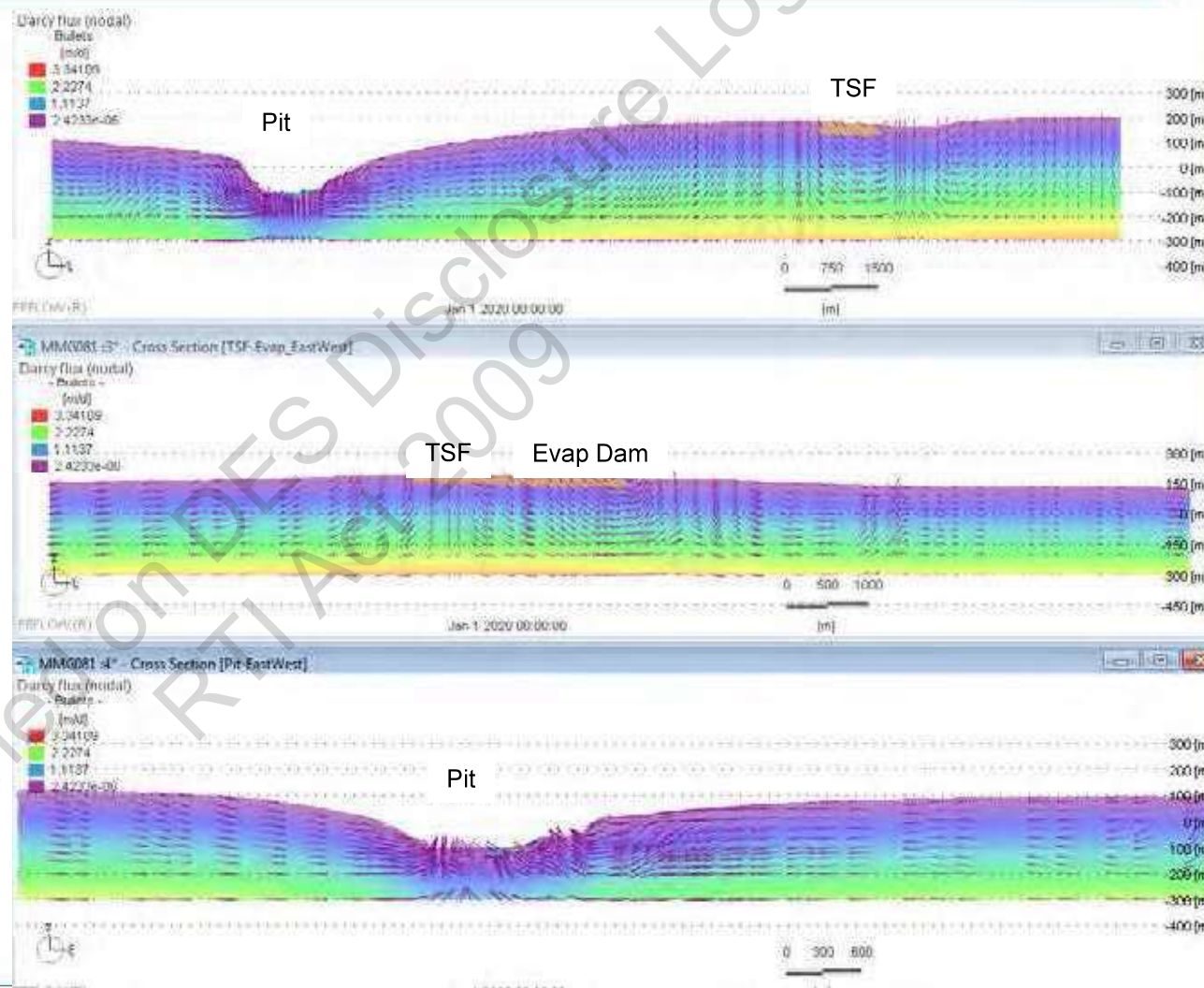
Option C

Jan 2020

■ *PitToTSFEvap-NWtoSE*

■ *TSF-Evap_EastWest*

■ *Pit-EastWest*





Simulation Results

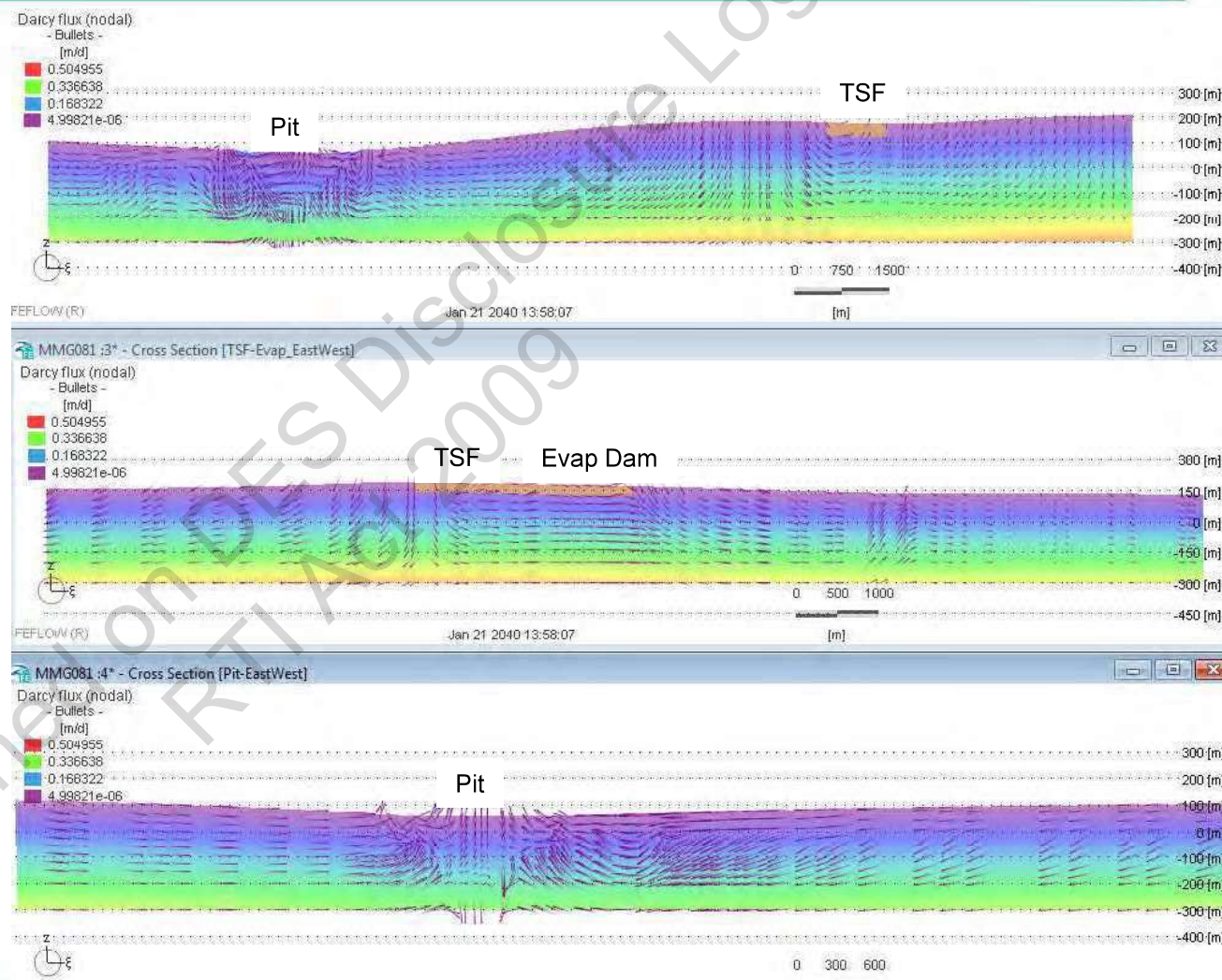
Option C

Jan 2040

■ *PitToTSFEvap-NWtoSE*

■ *TSF-Evap_EastWest*

■ *Pit-EastWest*





Simulation Results

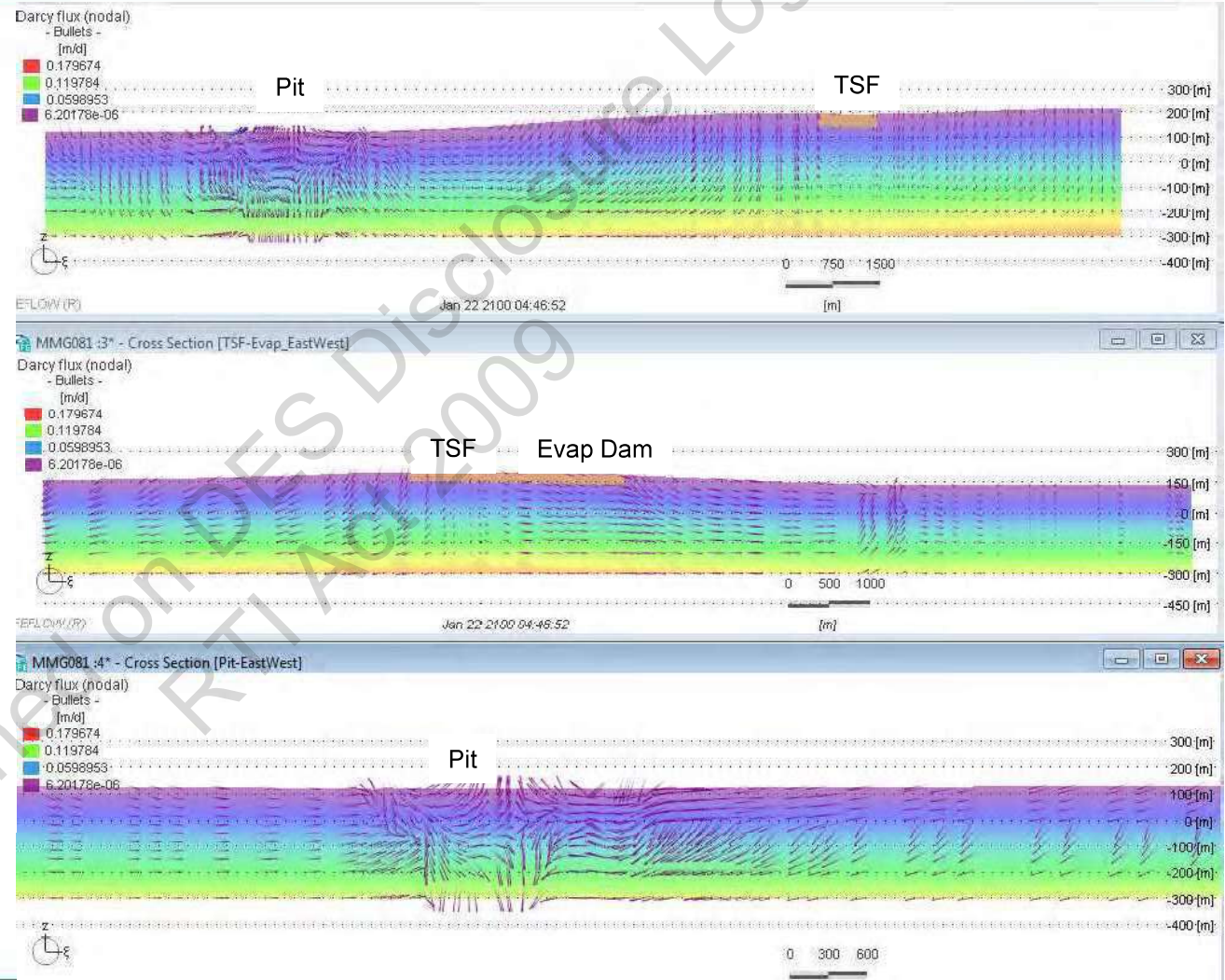
Option C

Jan 2100

■ *PitToTSFEvap-NWtoSE*

■ *TSF-Evap_EastWest*

■ *Pit-EastWest*





Simulation Results

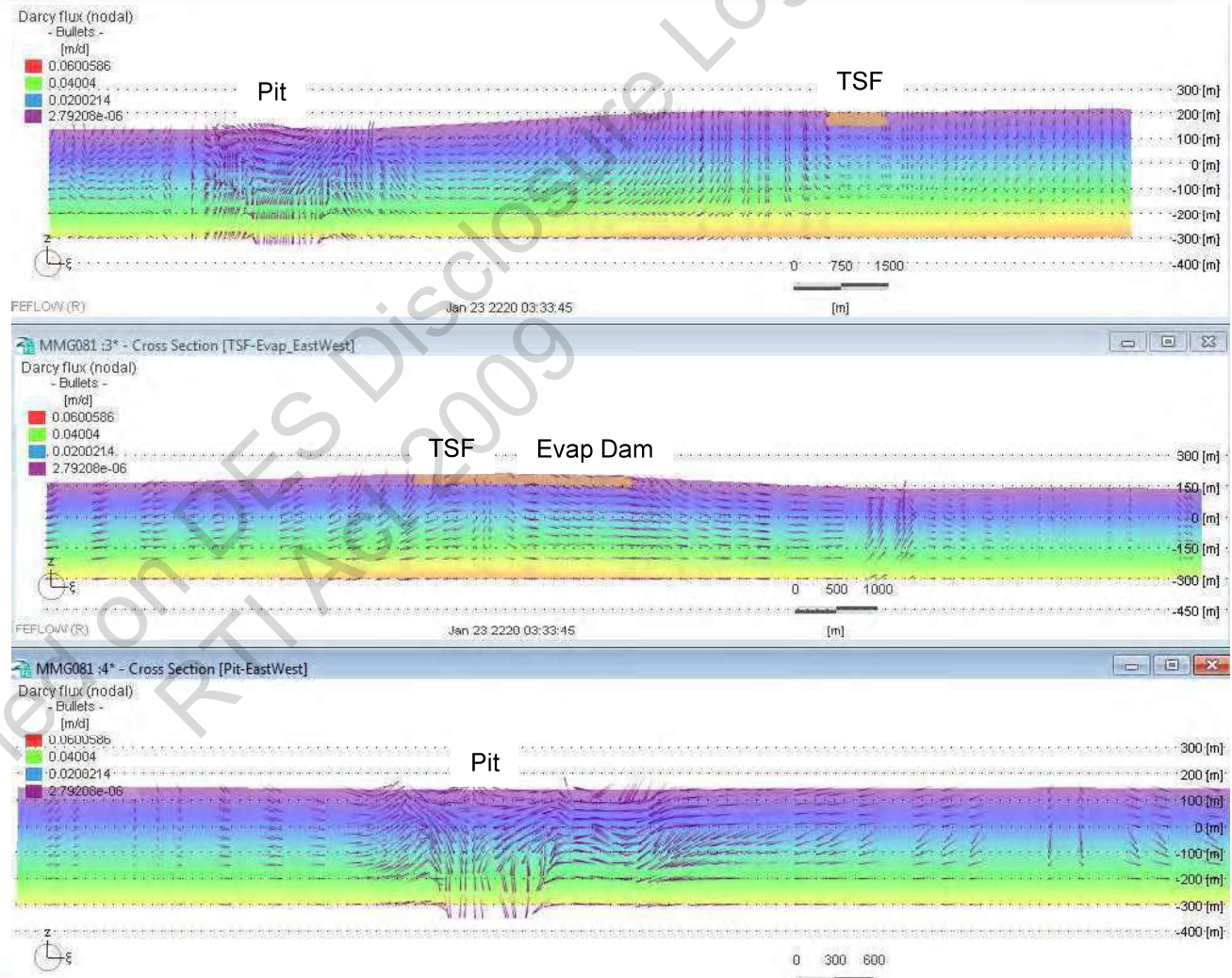
Option C

Jan 2220

■ *PitToTSFEvap-NWtoSE*

■ *TSF-Evap_EastWest*

■ *Pit-EastWest*





Simulation Results

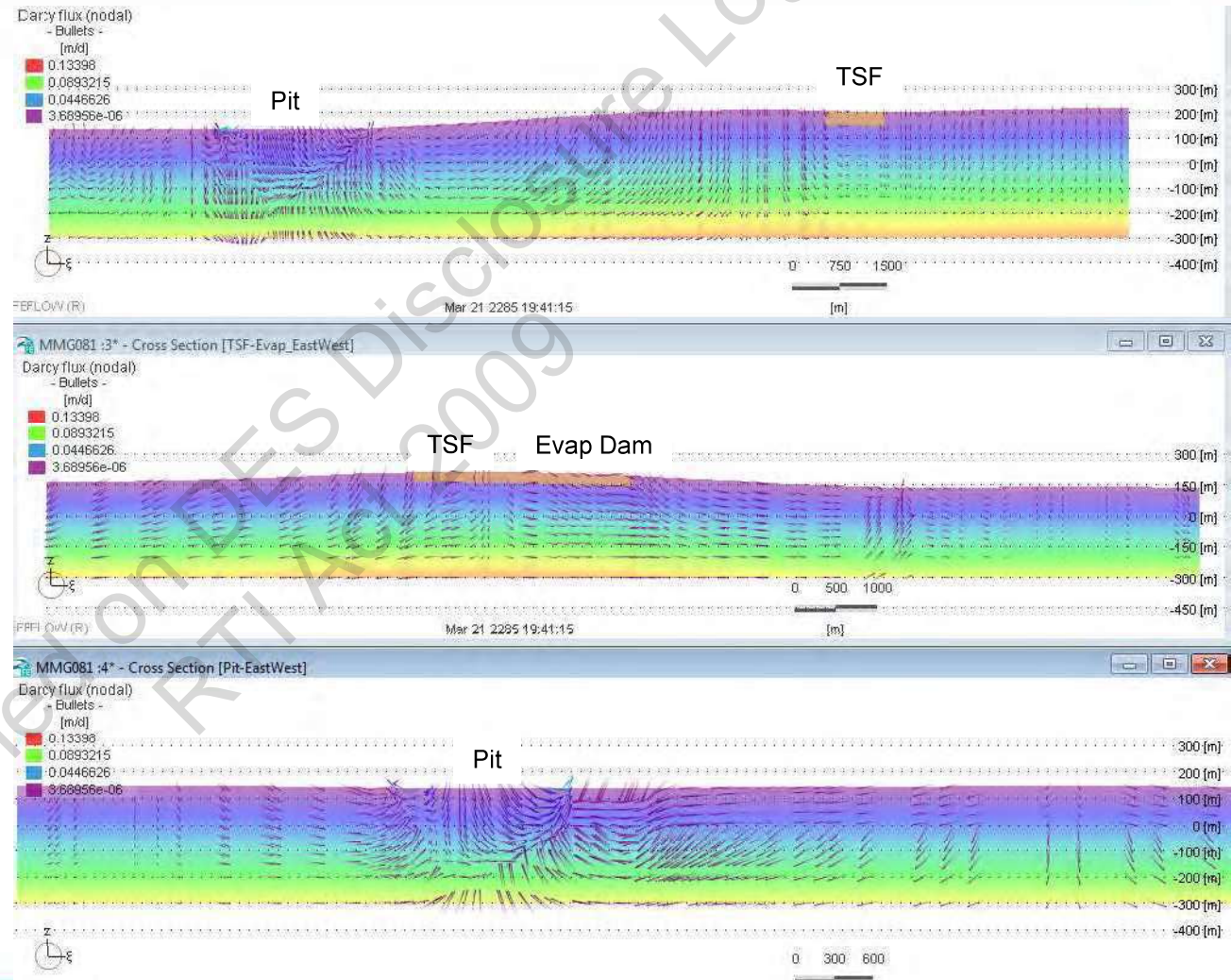
Option C

Jan 2400

■ *PitToTSFEvap-NWtoSE*

■ *TSF-Evap_EastWest*

■ *Pit-EastWest*

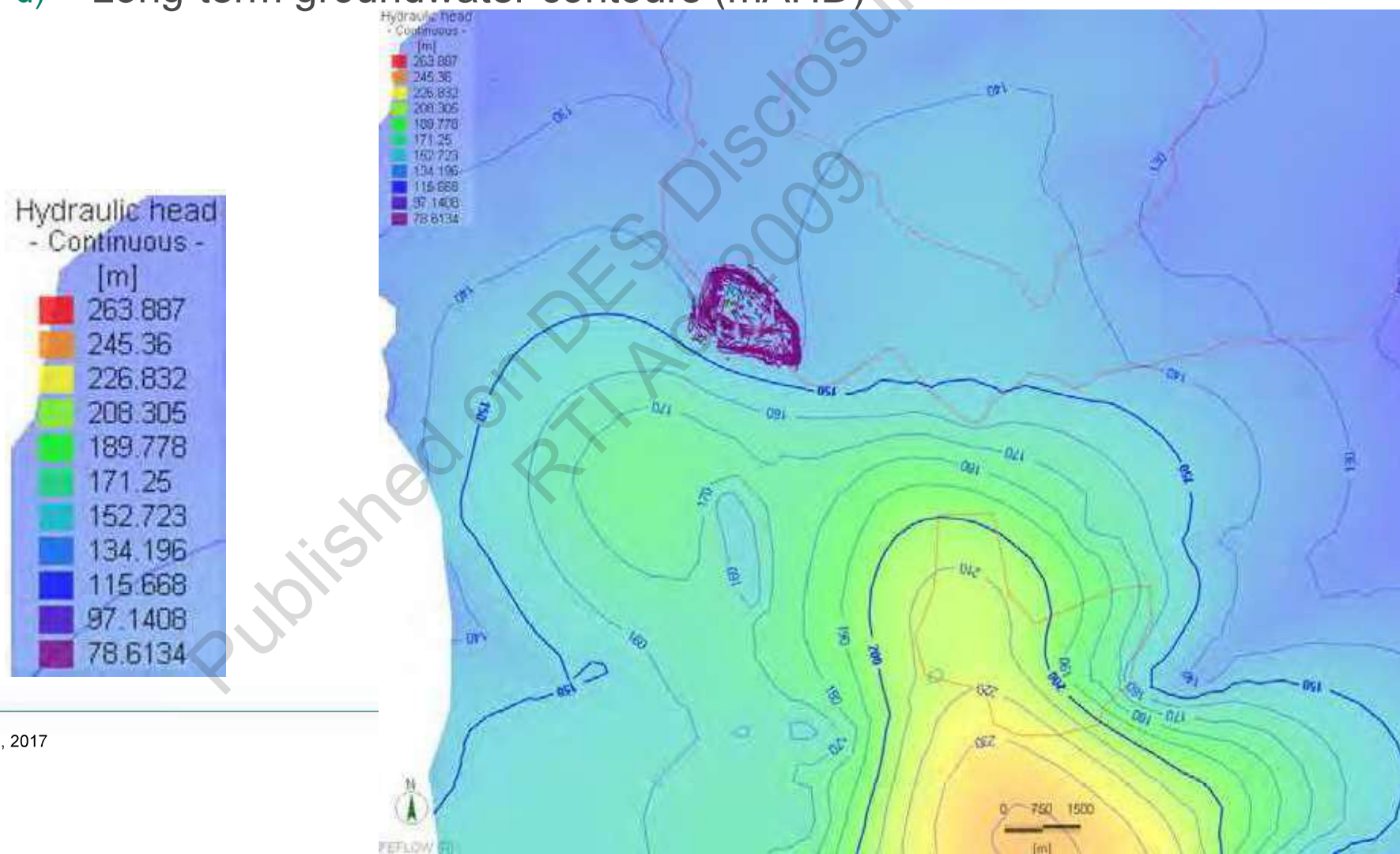




Simulation Results

6. Simulation Results Option C

d) Long-term groundwater contours (mAHD)



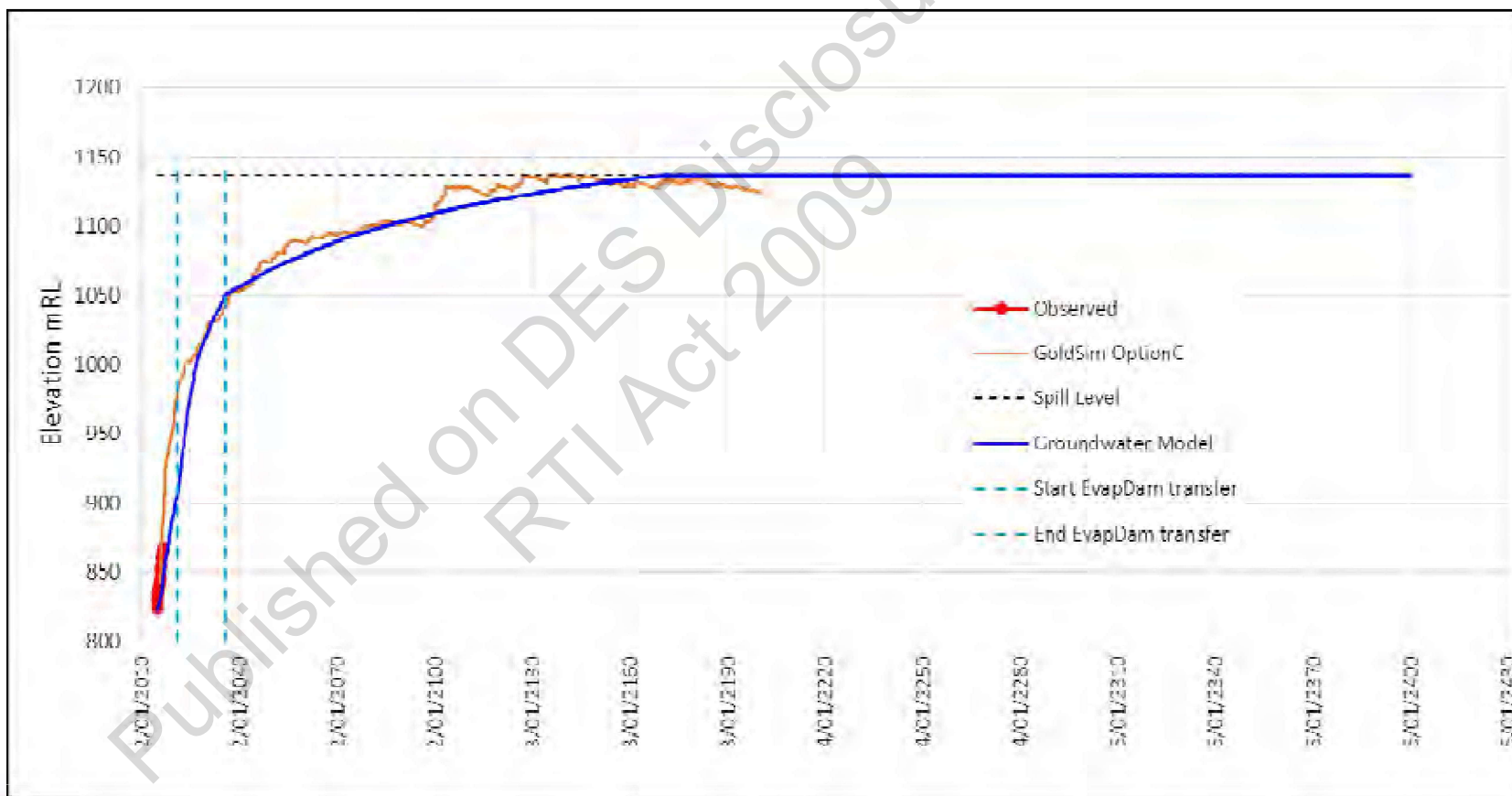
August 3, 2017



Simulation Results

6. Simulation Results Option C Sensitivity

a) Pit Lake Elevation (mRL)



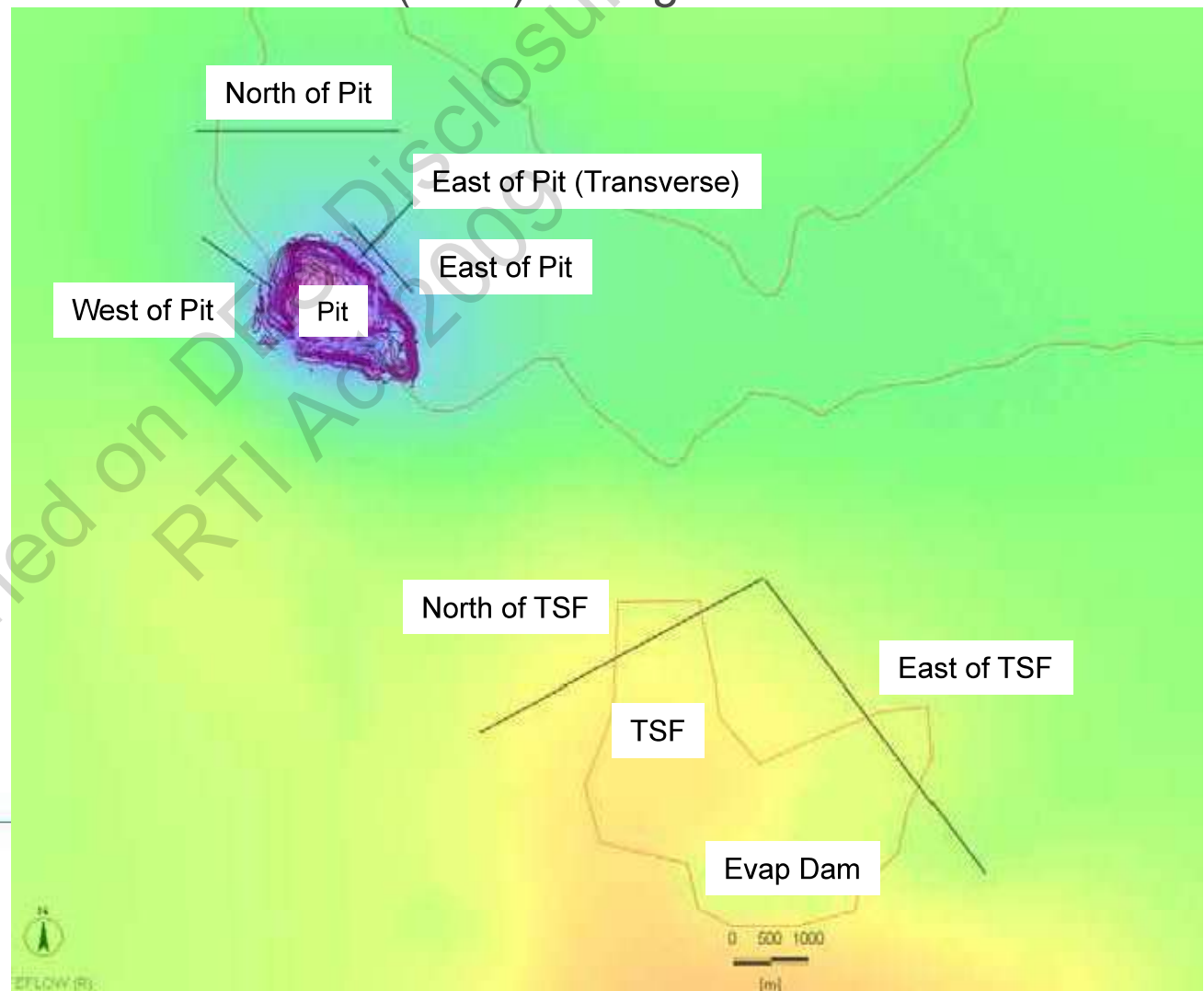
August 3, 2017



Simulation Results

6. Simulation Results Option C Sensitivity

b) Groundwater volumetric flow rate (m^3/d) through vertical cross-sections



August 3, 2017



Simulation Results

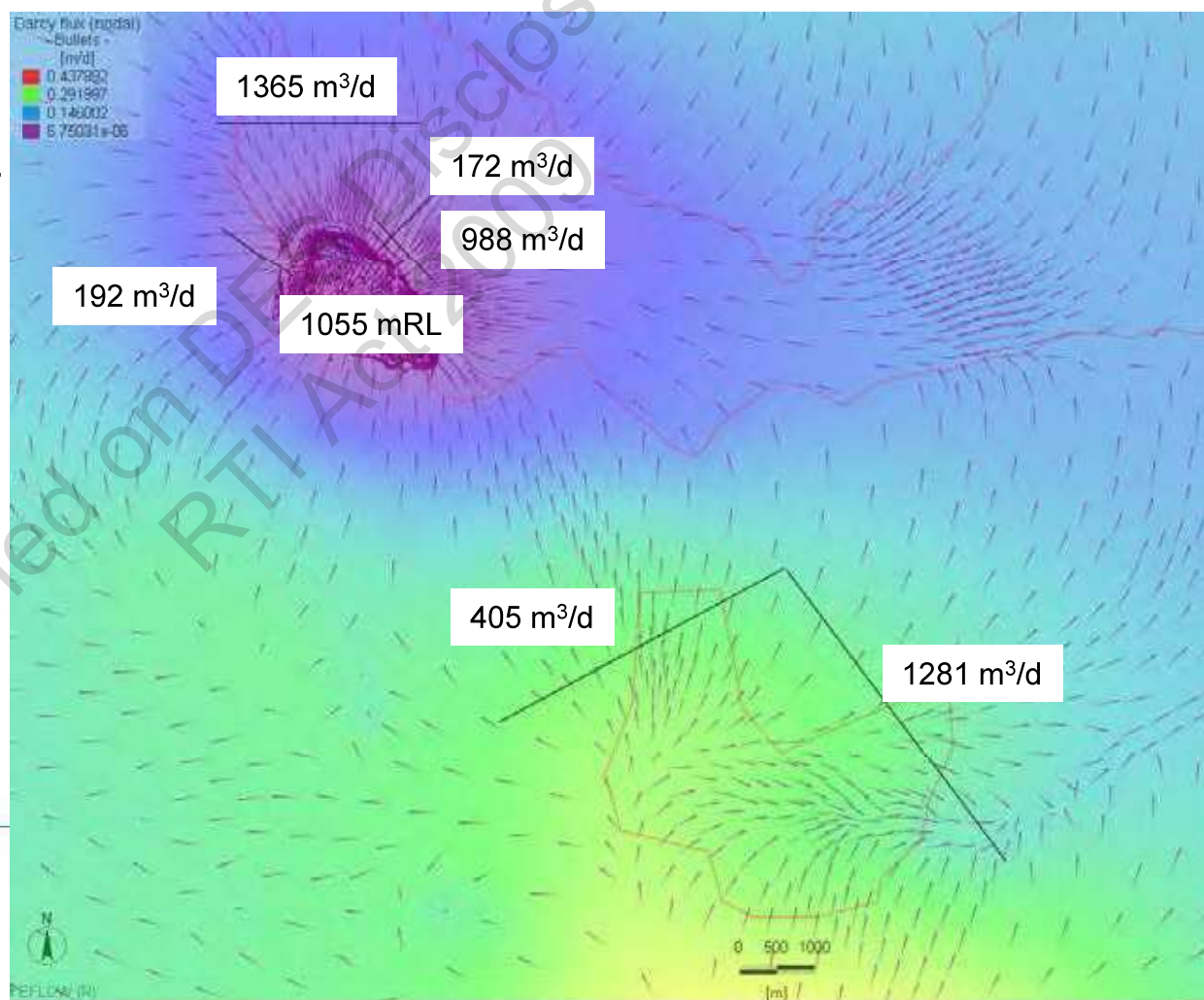
6. Simulation Results Option C Sensitivity

b) Groundwater volumetric flow rate (m^3/d) through vertical cross-sections

Option C Sensitivity

Year 2040

Season Wet



August 3, 2017



Simulation Results

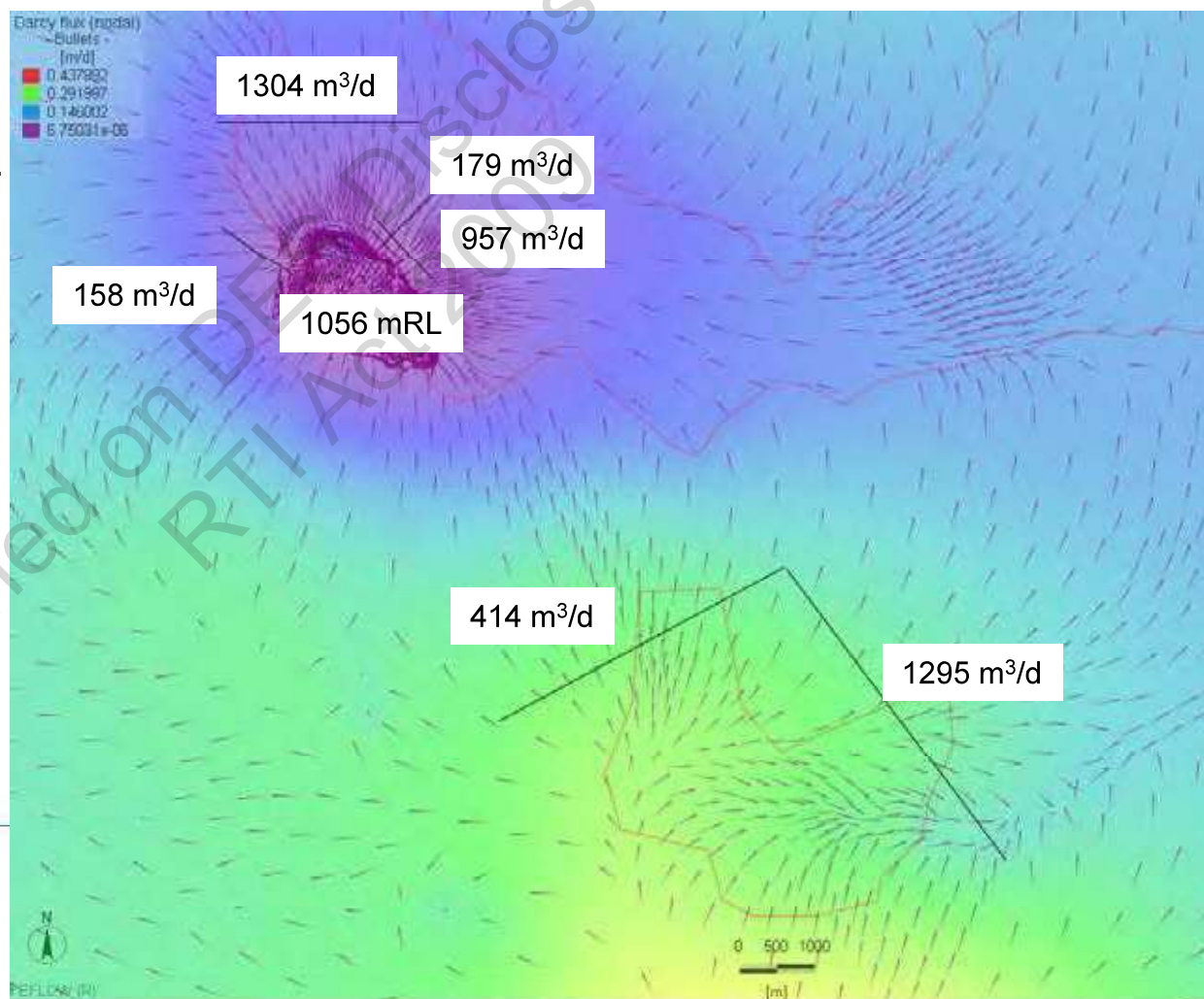
6. Simulation Results Option C Sensitivity

b) Groundwater volumetric flow rate (m^3/d) through vertical cross-sections

Option C Sensitivity

Year 2040

Season Dry



August 3, 2017



Simulation Results

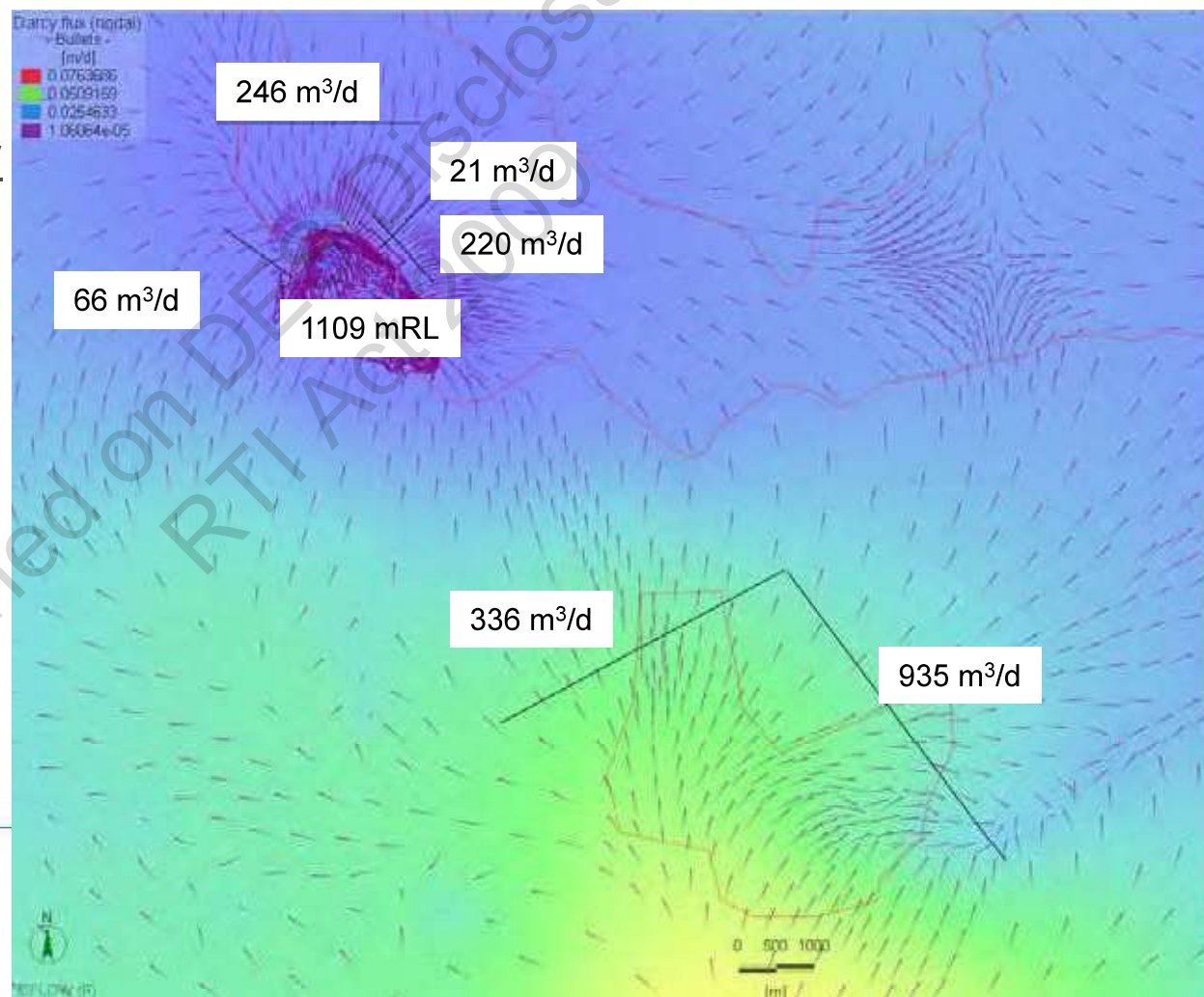
6. Simulation Results Option C Sensitivity

b) Groundwater volumetric flow rate (m^3/d) through vertical cross-sections

Option C Sensitivity

Year 2100

Season Wet



August 3, 2017



Simulation Results

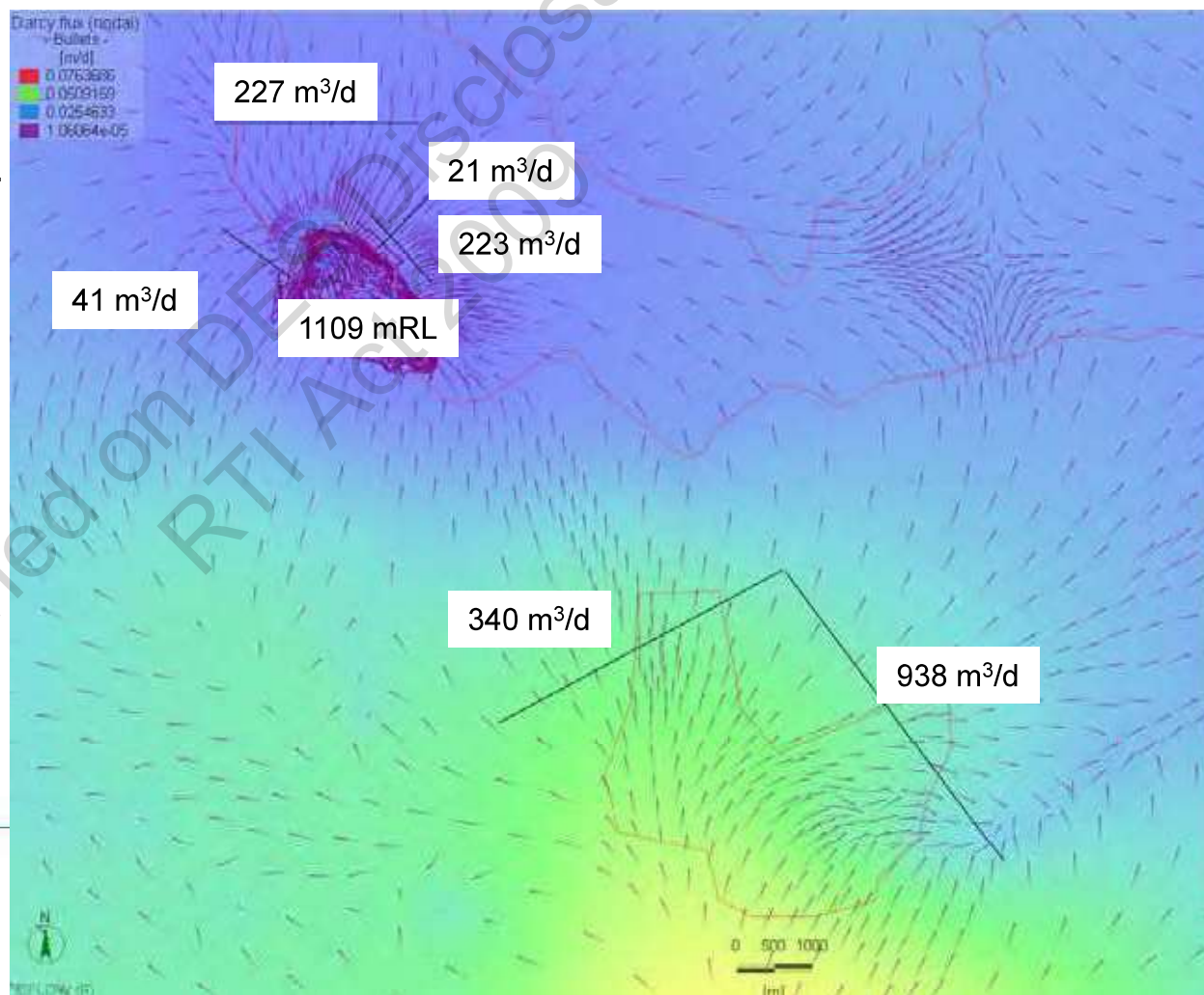
6. Simulation Results Option C Sensitivity

b) Groundwater volumetric flow rate (m^3/d) through vertical cross-sections

Option C Sensitivity

Year 2100

Season Dry



August 3, 2017



Simulation Results

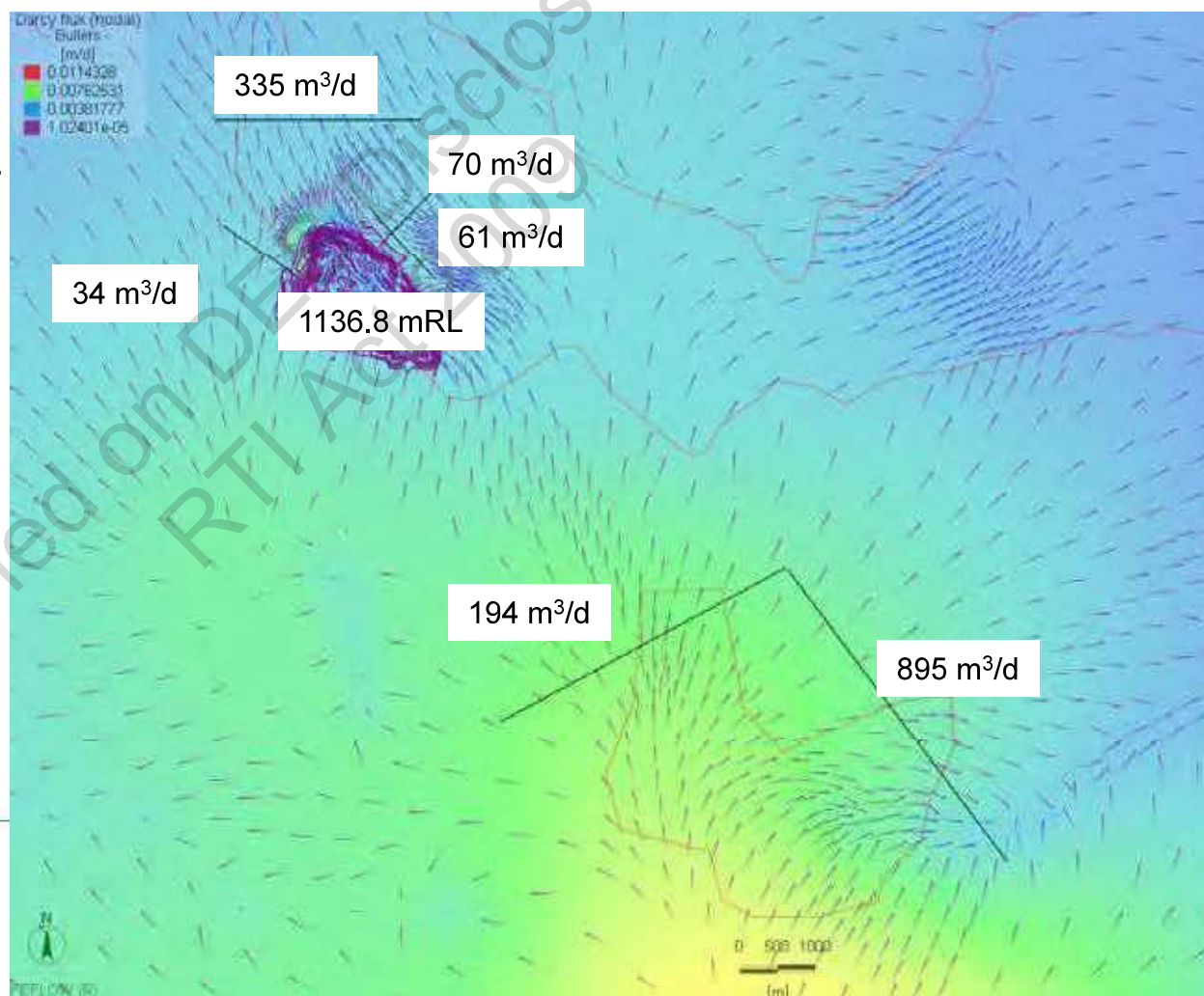
6. Simulation Results Option C Sensitivity

b) Groundwater volumetric flow rate (m^3/d) through vertical cross-sections

Option C Sensitivity

Year 2200

Season Wet



August 3, 2017



Simulation Results

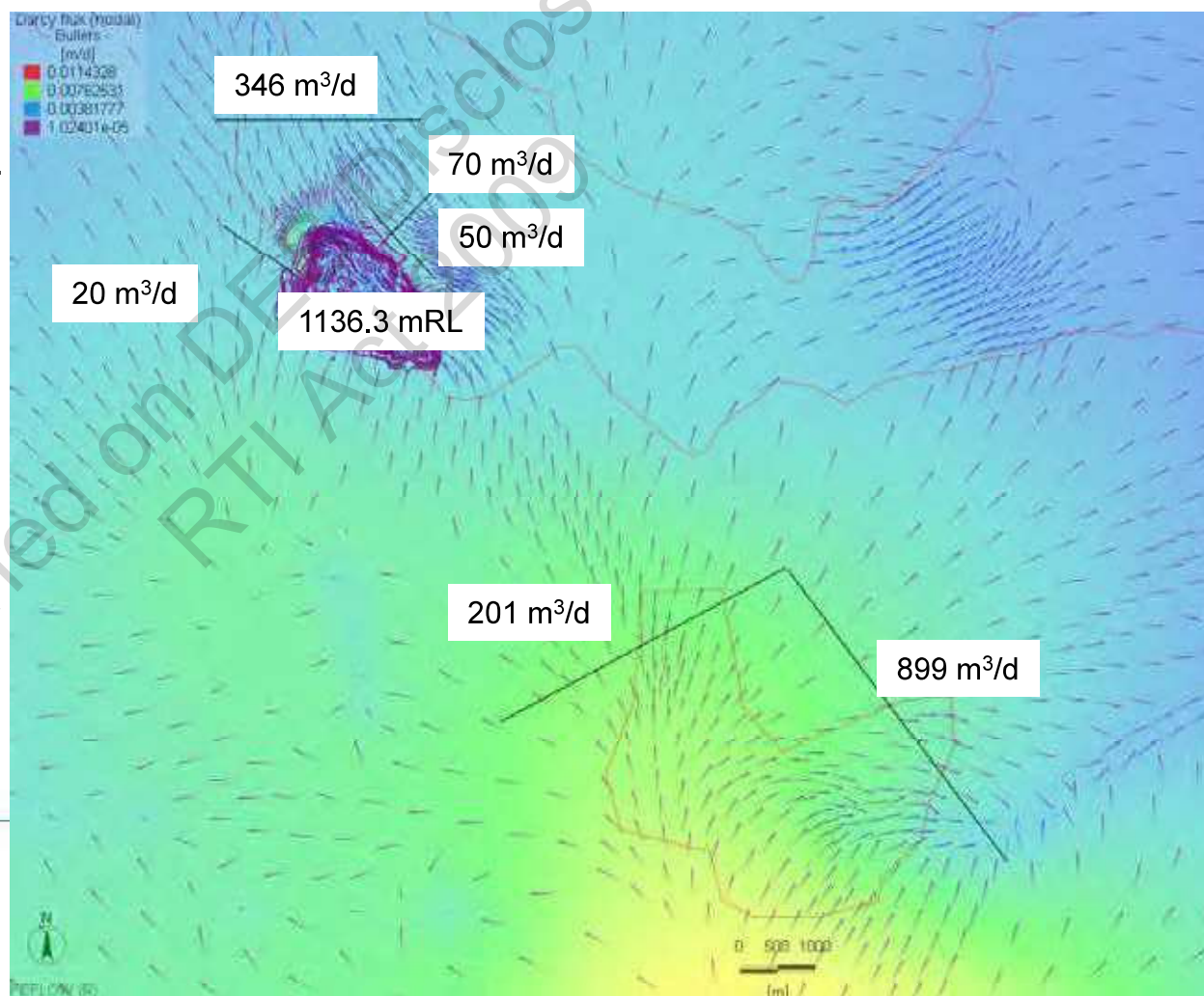
6. Simulation Results Option C Sensitivity

b) Groundwater volumetric flow rate (m^3/d) through vertical cross-sections

Option C Sensitivity

Year 2200

Season Dry



August 3, 2017



Simulation Results

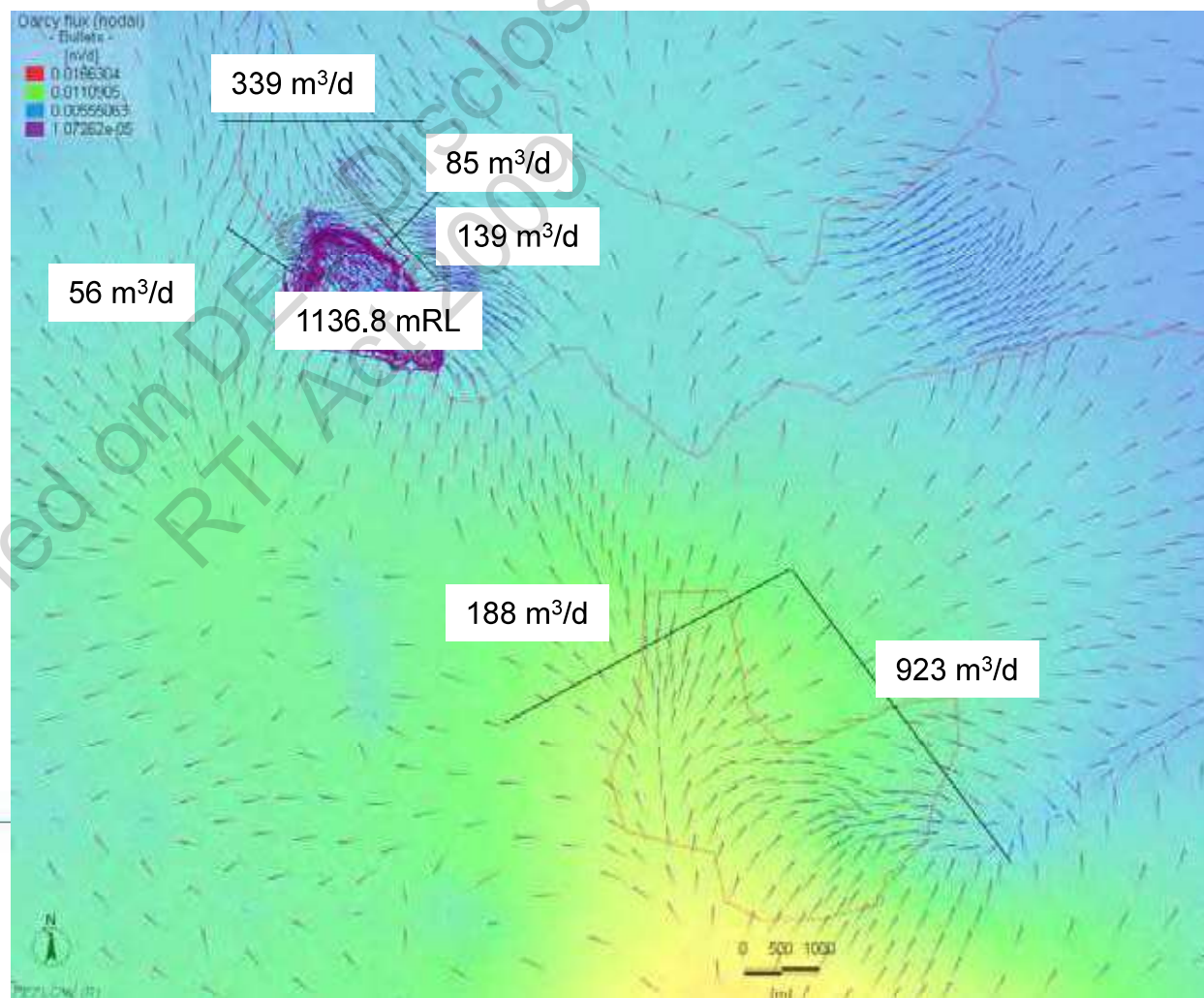
6. Simulation Results Option C Sensitivity

b) Groundwater volumetric flow rate (m^3/d) through vertical cross-sections

Option C Sensitivity

Year 2400

Season Wet



August 3, 2017



Simulation Results

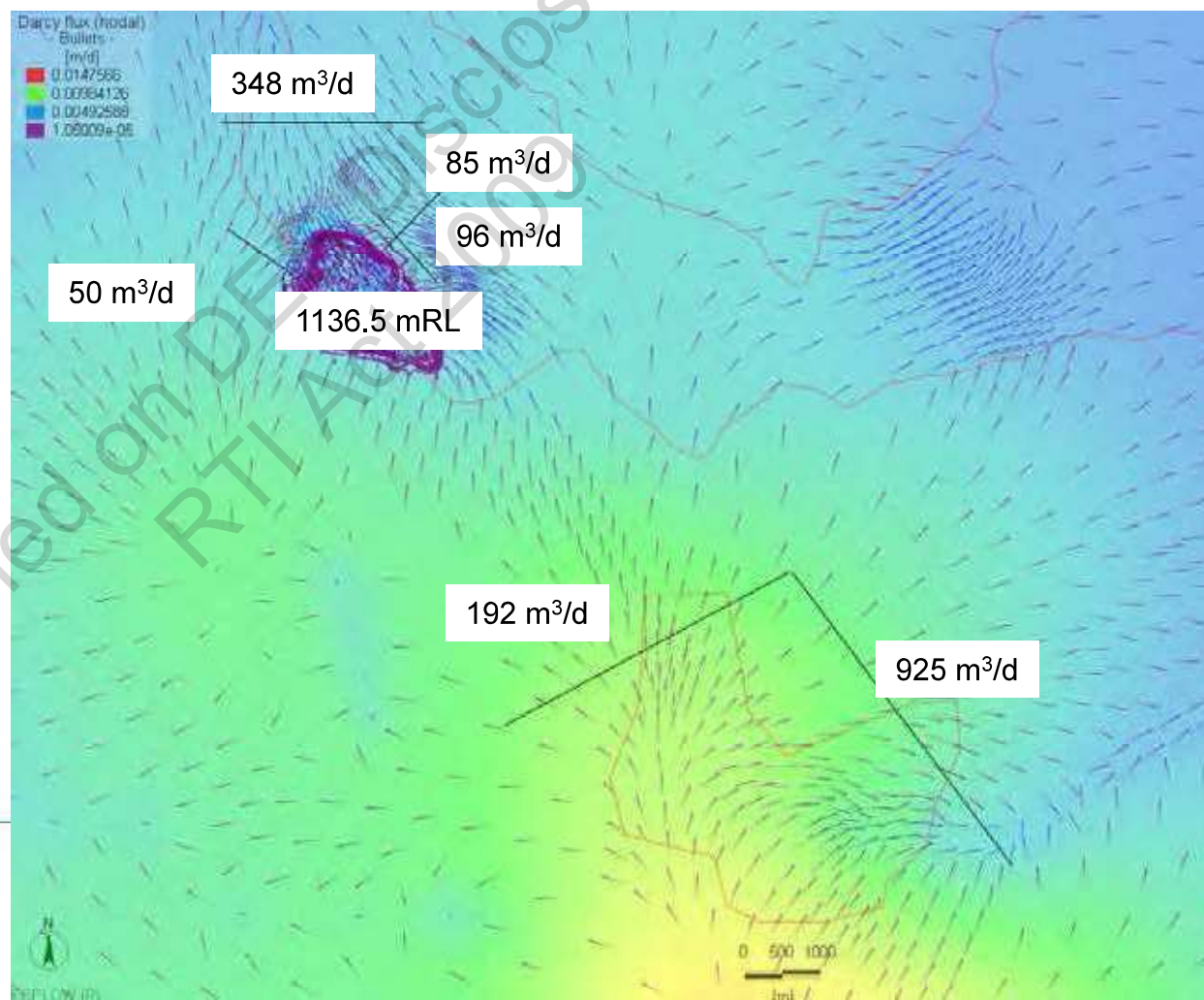
6. Simulation Results Option C Sensitivity

b) Groundwater volumetric flow rate (m^3/d) through vertical cross-sections

Option C Sensitivity

Year 2400

Season Dry



August 3, 2017

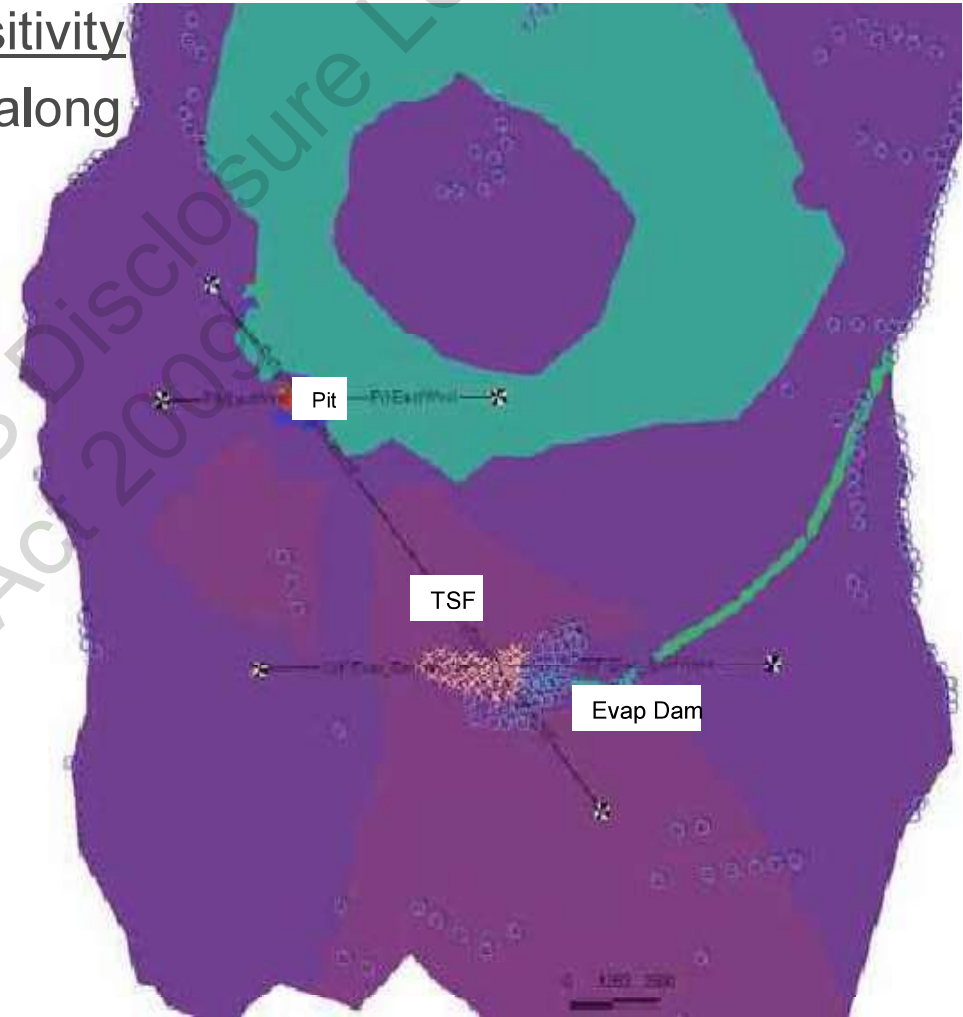


Simulation Results

6. Simulation Results Option C Sensitivity
 - c) Direction of groundwater flow along cross-sections

Cross-Sections

- *PitToTSFEvap-NWtoSE*
- *TSF-Evap_EastWest*
- *Pit-EastWest*





Simulation Results

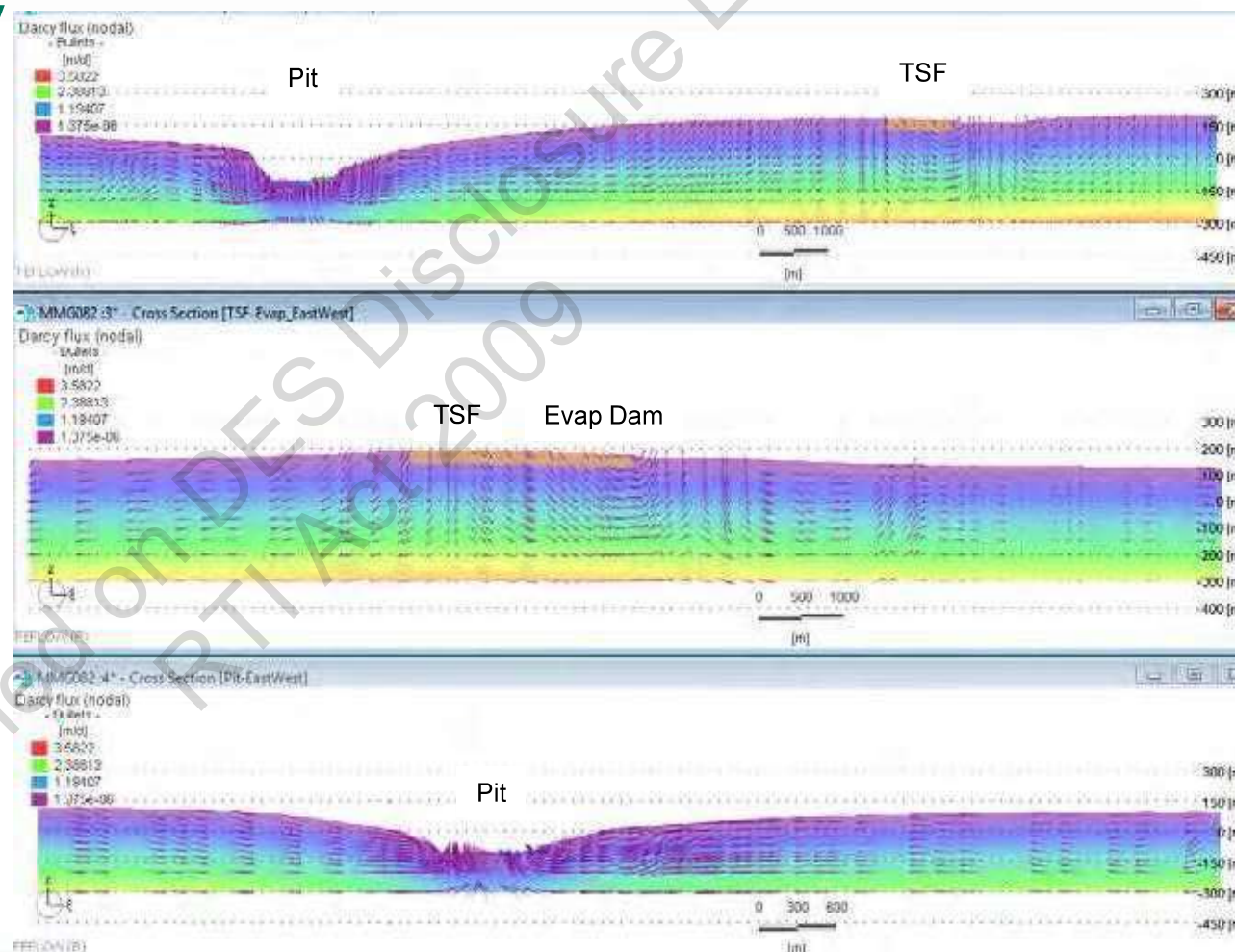
Option C Sensitivity

Jan 2020

■ *PitToTSFEvap-NWtoSE*

■ *TSF-Evap_EastWest*

■ *Pit-EastWest*





Simulation Results

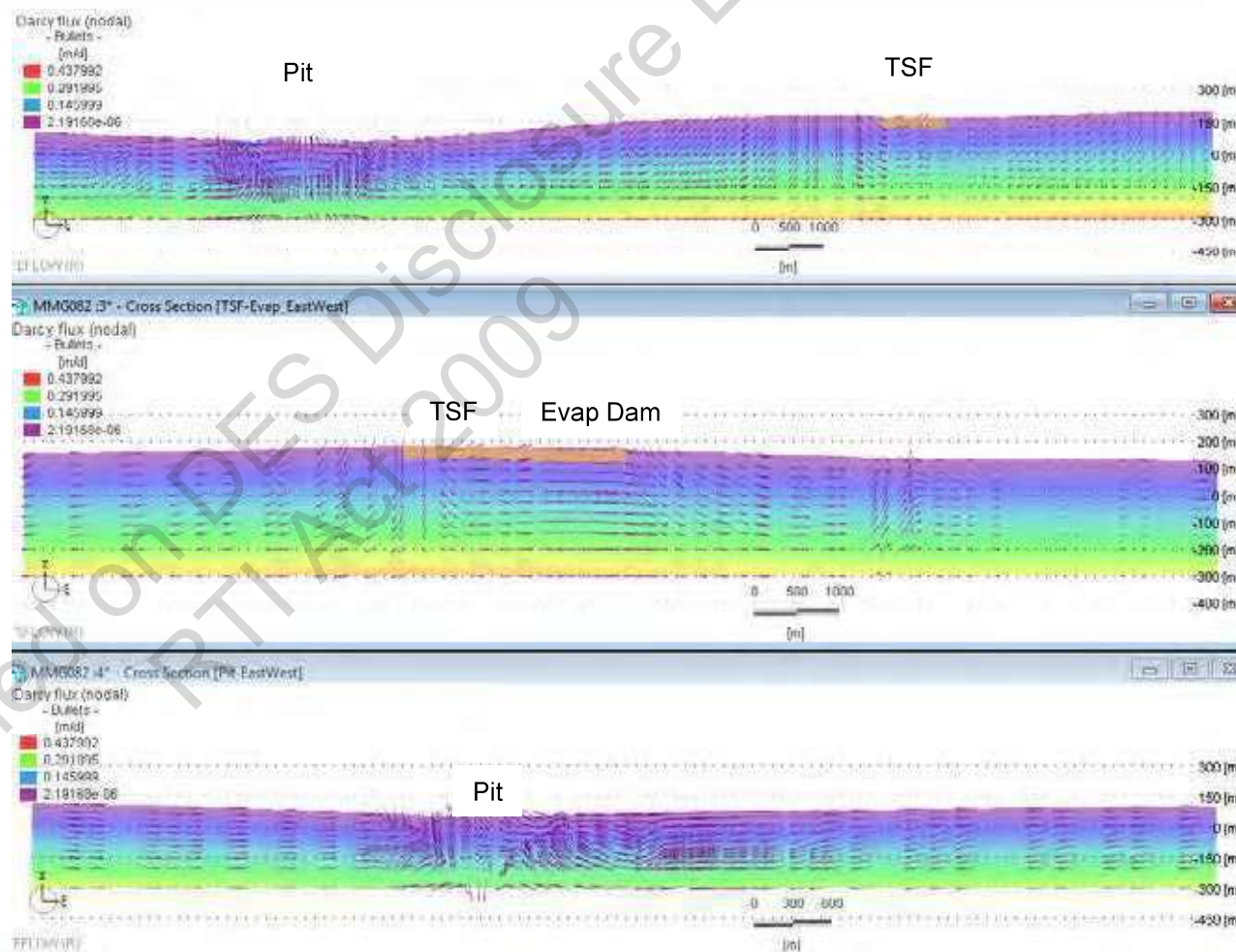
Option C Sensitivity

Jan 2040

■ *PitToTSFEvap-NWtoSE*

■ *TSF-Evap_EastWest*

■ *Pit-EastWest*





Simulation Results

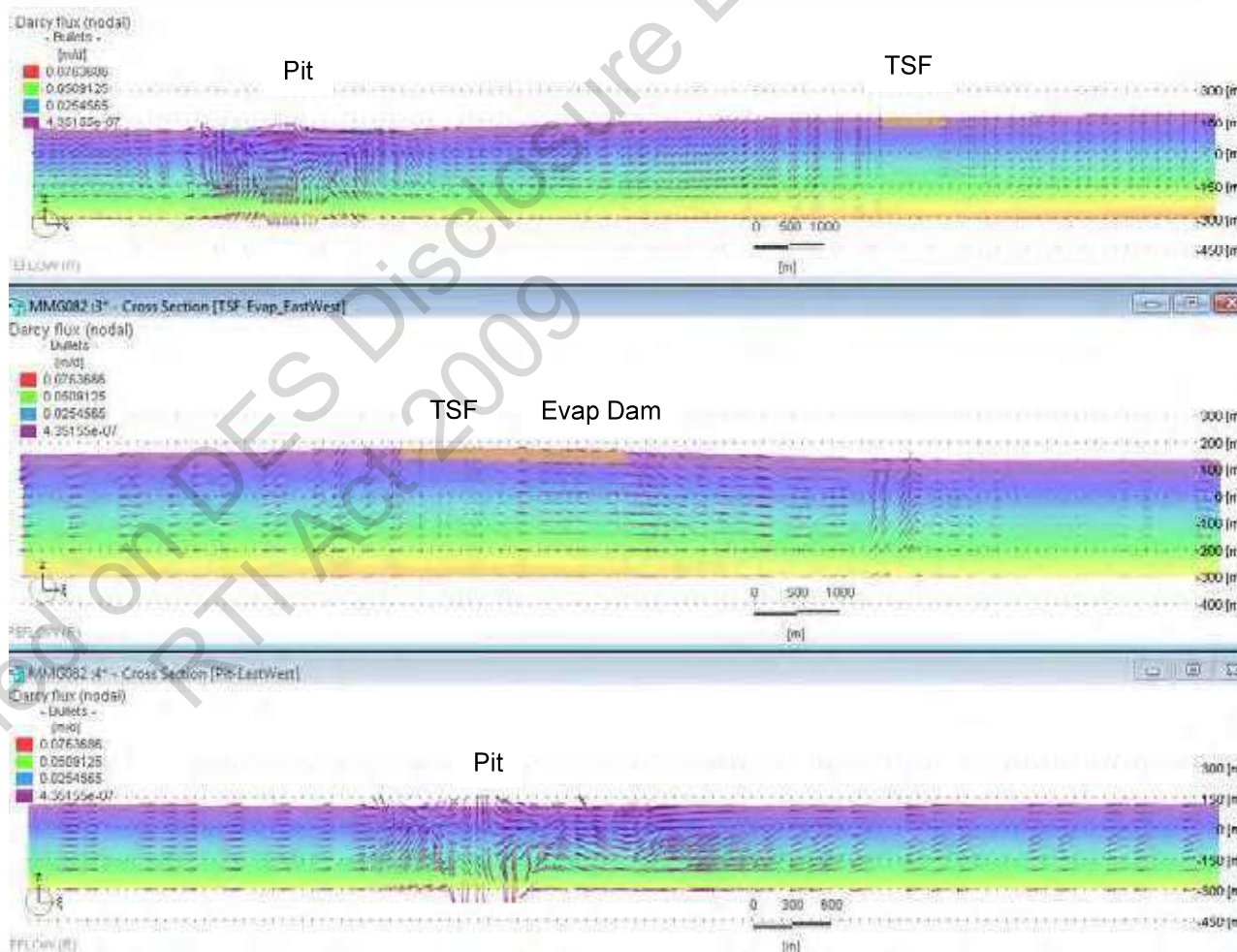
Option C Sensitivity

Jan 2100

■ *PitToTSFEvap-NWtoSE*

■ *TSF-Evap_EastWest*

■ *Pit-EastWest*





Simulation Results

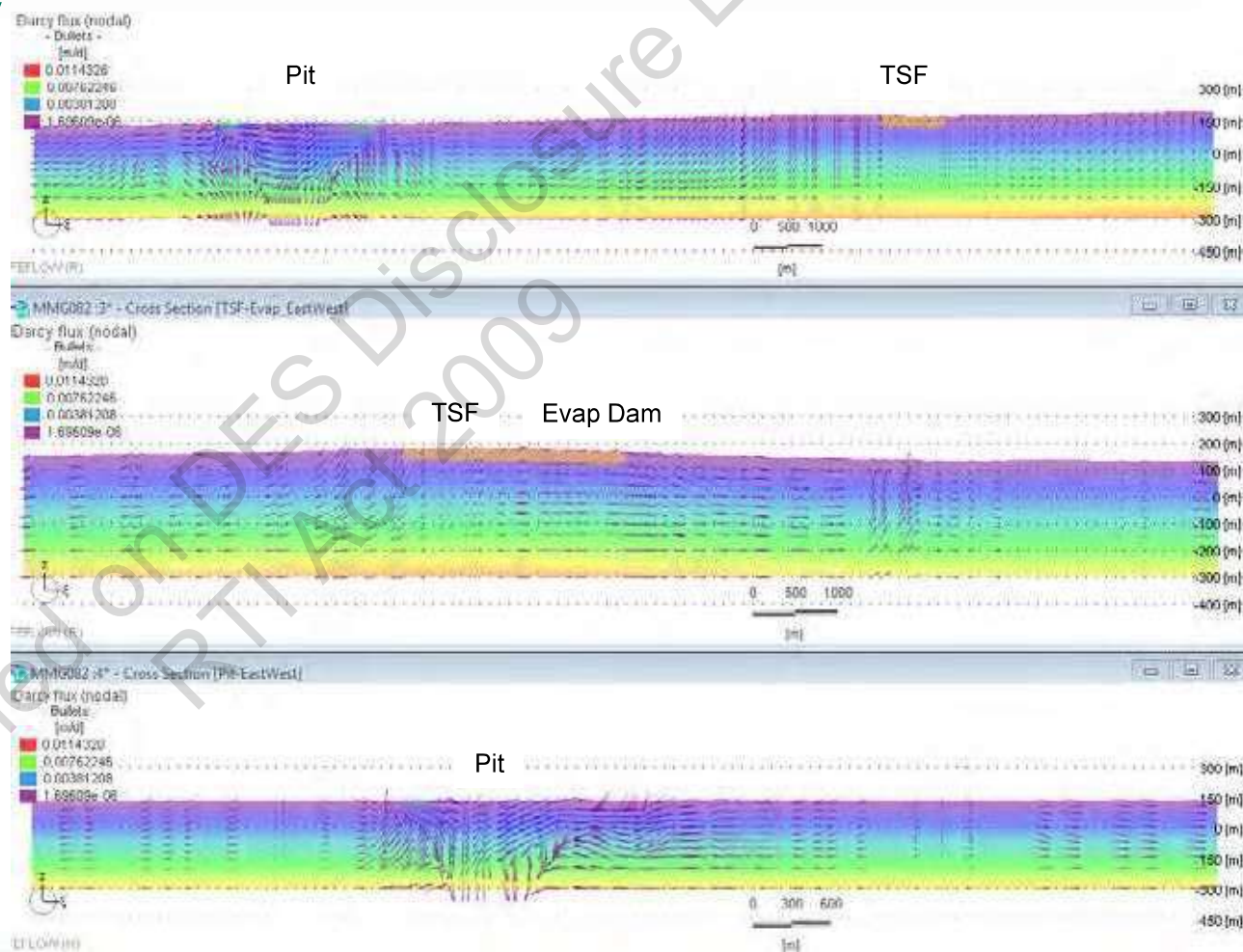
Option C Sensitivity

Jan 2200

■ *PitToTSFEvap-NWtoSE*

■ *TSF-Evap_EastWest*

■ *Pit-EastWest*





Simulation Results

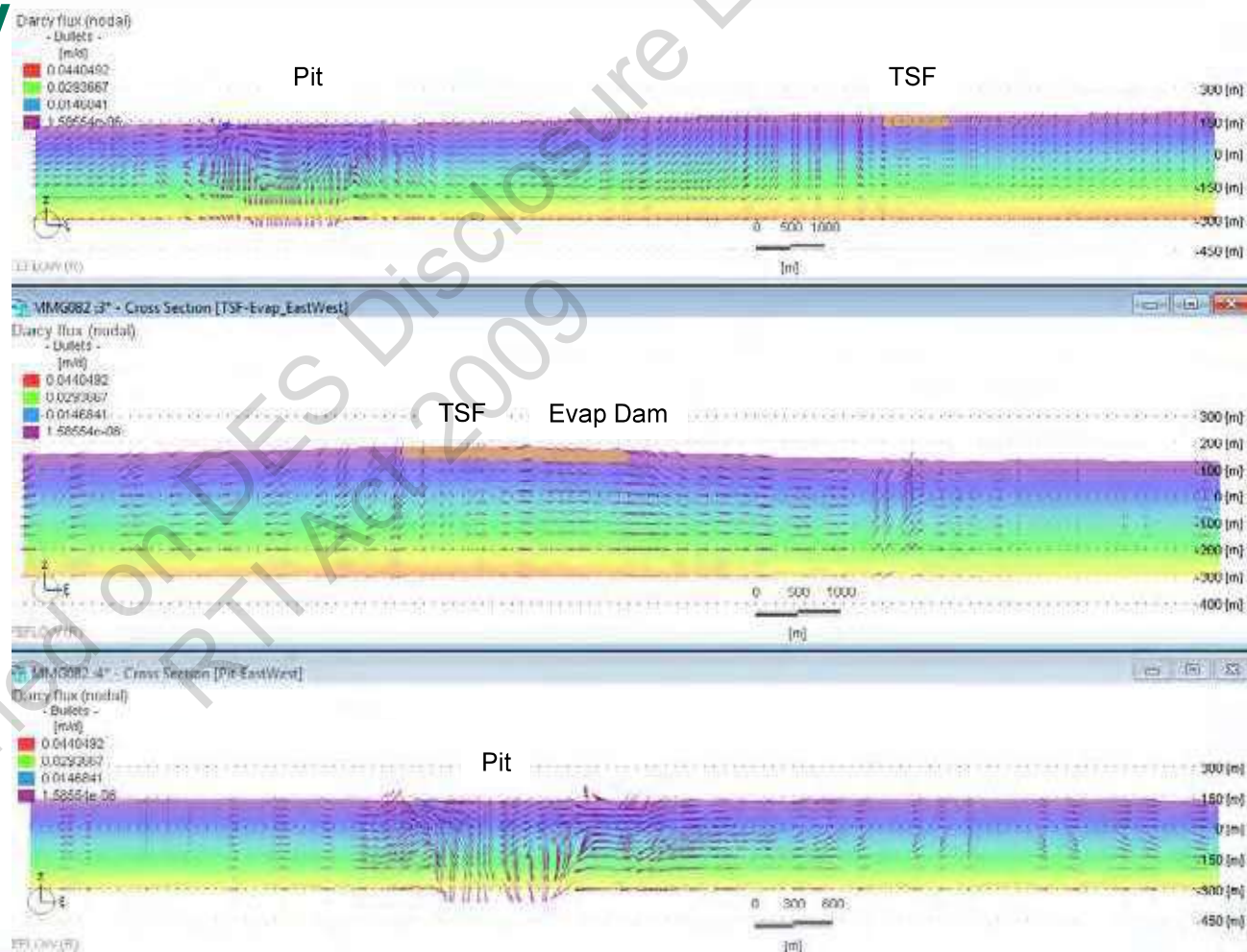
Option C Sensitivity

Jan 2400

■ *PitToTSFEvap-NWtoSE*

■ *TSF-Evap_EastWest*

■ *Pit-EastWest*

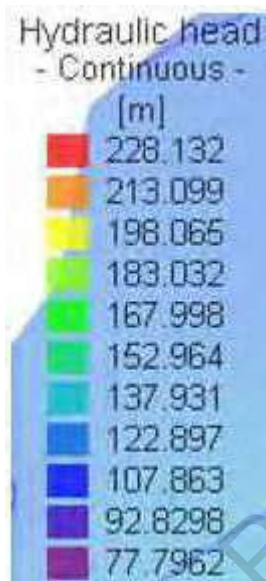
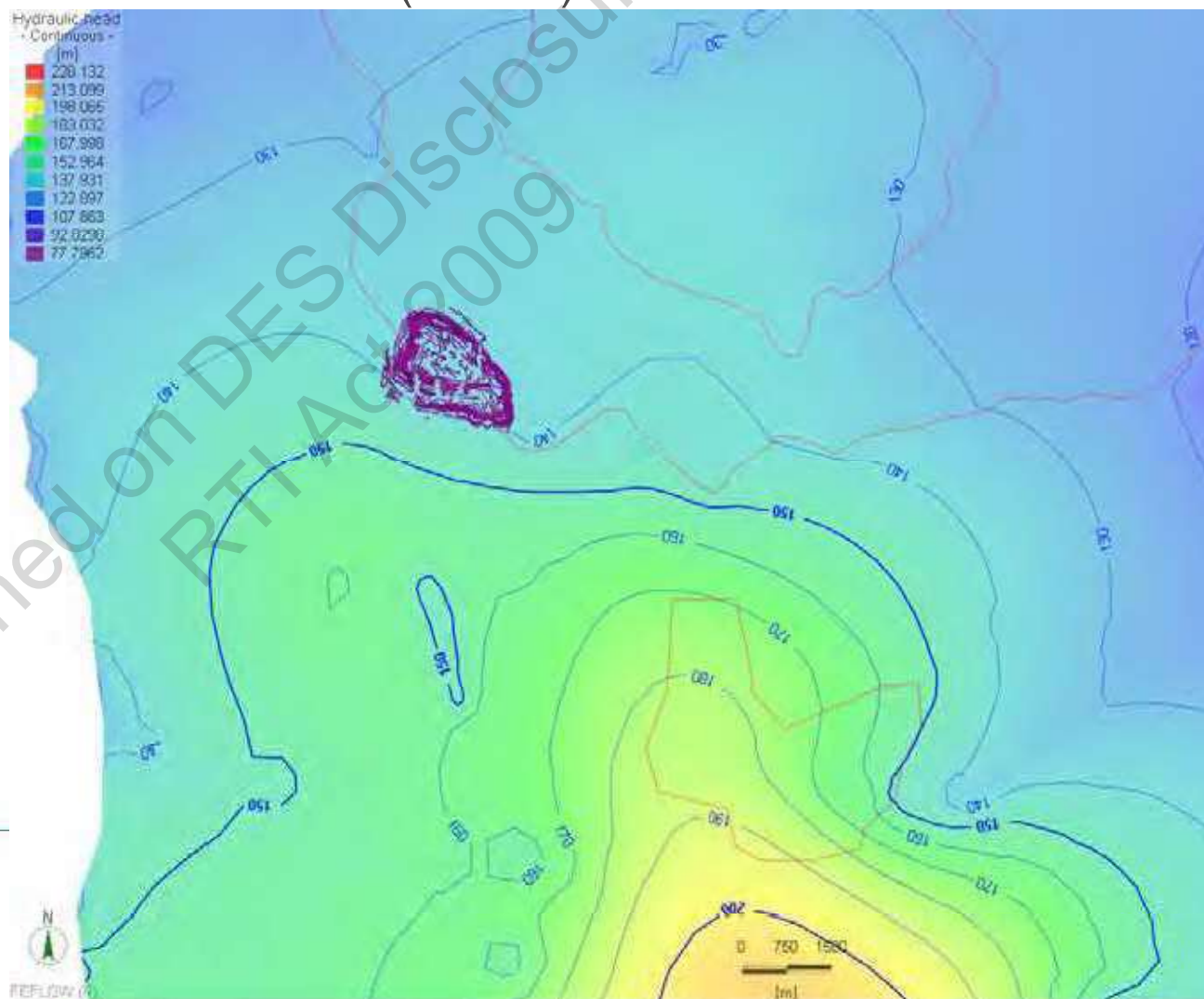




Simulation Results

6. Simulation Results Option C Sensitivity

d) Long-term groundwater contours (mAHD)



August 3, 2017



Model Limitations

7. Model Limitations

- Simplified representation of non-groundwater pit inflow/outflows (rainfall, surface water, evaporation)
- Limited pit water level rebound data records for full validation
- Modelled post-closure groundwater levels are higher than recorded pre-mining groundwater levels, possibly due to
 - Pre-mine groundwater levels were recorded at end of dry season (October 1994)
 - Pre-mine wet season levels are inferred from post-mining measurements which can fluctuate by more than 20m
- Pit inflows/outflows can be large at early simulation times but are of short duration (single time-step)
- Model results are sensitive to groundwater recharge rates



Model Confidence

8. Model Confidence

- Confidence Level Class 2 according to the Australian Groundwater Modelling Guidelines (2012)
- Suitable for
 - Evaluating medium risk impacts
 - Estimating groundwater levels and flow rates and directions
 - Aiding the design of groundwater management schemes and mine post-closure schemes

August 3, 2017



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