Table 1 provides a summary of the EPA monitoring points for the Rangers Valley Feedlot. This table has been reproduced from Section 2 of Environmental Protection Licence No. 3864. Click on the EPA number to view the monitoring results collected (if available).

Table 1: Summary of EPA Monitoring Points

EPA No.	Type of monitoring point	Type of discharge point	Description of location
EPA Monitoring Point 2	Surface water quality monitoring		Surface water monitoring point (S2) at Cam Creek causeway on Deepwater Road at "Nant Park" labelled as EPA Point 2 on map titled Environmental Monitoring Points - Location of Surface Water Monitoring points dated 1st May 2007. See Fig 1 - 250832A1/10.
EPA Monitoring Point 3	Surface water quality monitoring		Surface water monitoring point (S3) at grassed waterway in Old 2 paddock labelled as EPA Point 3 on map titled Environmental Monitoring Points - Location of Surface Water MP dated 1st May 2007. See Fig 1 - 250832A1/10.
EPA Monitoring Point 4	Surface water quality monitoring		Surface water monitoring point (S4) at Cam Creek bridge on Rangers Valley Road labelled as EPA Point 4 on map titled Environmental Monitoring Points -Location of Surface Water MP dated 1st May 2007. See Fig 1 - 250832A1/10.
EPA Monitoring Point 5	Surface water quality monitoring		Surface water monitoring point (S5) at Severn River Bridge on the Yarraford Road labelled as EPA Point 5 on map titled Environmental Monitoring Points - Location of Surface Water MP dated 1st May 2007. See Fig 1 - 250832A1/10.
EPA Monitoring Point 6	Surface water quality monitoring		Surface water monitoring point (S6) at Severn River Bridge on the Emmaville Road labelled as EPA Point 6 on map titled Environmental Monitoring Points -Location of Surface Water MP dated 1st May 2007. See Fig 1 - 250832A1/10.

EPA No.	Type of monitoring point	Type of discharge point	Description of location
EPA Monitoring Point 7	Surface water quality monitoring		Surface water monitoring point (S7) at Beardy Waters causeway on the Haul Rd (2nd causeway) - upstream of confluence with Severn River, labelled as EPA Point 7 on map titled Env MP -Location of Surface Water MP dated 1st May 2007. (Fig 1).
EPA Monitoring Point 8	Surface water quality monitoring		Surface water monitoring point (S8) at Severn River causeway on the Haul Road (first causeway) labelled as EPA Point 8 on map titled Environmental Monitoring Points - Location of Surface Water MP dated 1st May 2007. See Fig 1 - 250832A1/10.
10	Effluent quality and volume monitoring. Wet weather discharge. Discharge quality monitoring. Discharge to utilisation area.	Effluent quality and volume monitoring. Wet weather discharge. Discharge quality monitoring. Discharge to utilisation area.	Terminal pond and spillway servicing Pivot 3A and 3B including pump labelled as EPA Point 10 on map titled Env MPs-Location of Effluent MP dated 1st May 2007. See Fig 2 250832A1/10.
EPA Monitoring Point 11	Effluent quality and volume monitoring. Wet weather discharge. Discharge quality monitoring. Discharge to utilisation area.	Effluent quality and volume monitoring. Wet weather discharge. Discharge quality monitoring. Discharge to utilisation area.	Final effluent holding pond (on eastern side of the feedlot, known as E2) including spillway and irrigation pumps labelled as EPA Point 11 on map titled Env MPs-Location of Effluent MP dated 1st May 2007. See Fig 2. 250832A1/10.
13	Wet weather discharge. Discharge quality monitoring.	Wet weather discharge. Discharge quality monitoring	Spillway for effluent holding pond known as W2 (on western side of feedlot) labelled as EPA Point 13 on map titled Env MPs-Location of Effluent MP dated 1st May 2007. See Fig 2 250832A1/10.
14	Effluent quality and volume monitoring. Wet weather discharge. Discharge quality monitoring. Discharge to utilisation area.	Effluent quality and volume monitoring. Wet weather discharge. Discharge quality monitoring. Discharge to utilisation area.	Terminal pond and spillway servicing Pivot 1 and located in the paddock Bottom Swamp including pump labelled as EPA Point 14 on map titled Env MPs-Location of Effluent MP dated 1st May 2007. see Fig 2 250832A1/10.

EPA No.	Type of monitoring point	Type of discharge point	Description of location
EPA Monitoring Point 20	Effluent quality and volume monitoring. Wet weather discharge. Discharge quality monitoring. Discharge to utilisation area.	Effluent quality and volume monitoring. Wet weather discharge. Discharge quality monitoring. Discharge to utilisation area.	Effluent holding pond (on western side of feedlot, known as W4) including spillway and irrigation pump labelled as EPA Point 20 on map titled Env MPs-Location of Effluent MP dated 1st May 2007. see Fig 2 250832A1/10.
22	Effluent quality and volume monitoring. Wet weather discharge. Discharge quality monitoring. Discharge to utilisation area.	Effluent quality and volume monitoring. Wet weather discharge. Discharge quality monitoring. Discharge to utilisation area.	Terminal pond and spillway servicing Rye East and Rye West known as W5 including pump labelled as EPA Point 22 on map titled Env MPs-Location of Effluent MP dated 1st May 2007. see Fig 2 250832A1/10.
EPA Monitoring Point 24	Manure quality monitoring. Mass monitoring.		Manure stockpile and composting area containing screened and unscreened manure and labelled as EPA Point 24 on map titled Env MPs-Location of Effluent MP dated 1st May 2007. see Fig 2 250832A1/10.
EPA Monitoring Point 26	Discharge quality monitoring.		Dam located in the bottom corner of "Washpool Road" (13) paddock labelled as EPA Point 26 on map titled Env MPs-Location of Effluent MP dated 1st May 2007. see Fig 2 250832A1/10.
EPA Monitoring Point 27	Soil quality monitoring. Mass monitoring.		Effluent utilisation area known as Pivot 1 labelled as EPA Point 27 on map titled "Rangers Valley Cattle Station Site Plan" dated 30.07.03.
EPA Monitoring Point 28	Soil quality monitoring. Mass monitoring.		Effluent utilisation area known as Pivot 3A labelled as EPA Point 28 on map titled "Rangers Valley Cattle Station Site Plan" dated 30.07.03.
EPA Monitoring Point 29	Soil quality monitoring. Mass monitoring.		Effluent utilisation area known as Pivot 3B labelled as EPA Point 29 on map titled "Rangers Valley Cattle Station Site Plan" dated 30.07.03.
EPA Monitoring Point 30	Soil quality monitoring. Mass monitoring.		Effluent utilisation area known as Rye East labelled as EPA Point 30 on map titled "Rangers Valley Cattle Station Site Plan" dated 30.07.03.

EPA No.	Type of monitoring point	Type of discharge point	Description of location
EPA Monitoring Point 31	Soil quality monitoring. Mass monitoring.		Effluent utilisation area known as Rye West labelled as EPA Point 31 on map titled "Rangers Valley Cattle Station Site Plan" dated 30.07.03.
EPA Monitoring Point 34	Groundwater quality monitoring.		Groundwater monitoring bore (34 located in corner paddock) labelled as EPA Point 34 on map titled Env MP-Location of piezometer MP dated 1st May 2007. see Fig 3
EPA Monitoring Point 35	Groundwater quality monitoring.		Groundwater monitoring bore (35 located in the laneway north of Rye East paddock) labelled as EPA Point 35 on map titled Env MP-Location of piezometer MP dated 1st May 2007. see Fig 3
EPA Monitoring Point 36	Groundwater quality monitoring.		Groundwater monitoring bore (36 located between ponds W3 and W4) labelled as EPA Point 36 on map titled Env MP-Location of piezometer MP dated 1st May 2007. see Fig 3
EPA Monitoring Point 38	Groundwater quality monitoring.		Groundwater monitoring bore (38 located on eastern point of effluent pond E2) labelled as EPA Point 38 on map titled Env MP-Location of piezometer MP dated 1st May 2007. see Fig 3
EPA Monitoring Point 40	Groundwater quality monitoring.		Groundwater monitoring bore (40 located on adjoining fence line between Pivot 3A/3B) on map titled Env MP-Location of piezometer MP dated 1st May 2007. see Fig 3
EPA Monitoring Point 41	Groundwater quality monitoring.		Groundwater monitoring bore (41 below EPA point 14 in paddock Bottom Swamp) labelled as EPA Point 41 on map titled Env MPLocation of piezometer MP dated 1st May 2007. see Fig 3
EPA Monitoring Point 42	Groundwater quality monitoring.		Groundwater monitoring bore (42 located in laneway between Pivot 1 and effluent pond E2) labelled as EPA Point 42 on map titled Env MP-Location of piezometer MP dated 1st May 2007. see Fig 3

EPA No.	Type of monitoring point	Type of discharge point	Description of location
EPA Monitoring Point 43	Soil quality monitoring. Mass monitoring		Utilisation area identified as the 'solid utilisation areas as identified on drawing No 19045-05 as quoted in the consent conditions' on map titled "Map 1 - Rangers Valley Cattle Station" submitted with a letter to the EPA on 25 October 2006.
EPA Monitoring Point 44	Groundwater quality monitoring.		Groundwater monitoring bore (44 located in the north eastern grassed area of the paddock known as Old 2) labelled as EPA point 44 on map titled Env MP-Location of Peizometer MP dated 1st May 2007. see Fig 3. 250832A1/10.
EPA Monitoring Point 45	Groundwater quality monitoring.		Groundwater monitoring bore (45 located on eastern boundary of the paddock known as "Donnellys Elect" labelled as EPA point 45 on map Titled Env MP location of Piezometer MP dated 1st May 2007. see Fig 3
EPA Monitoring Point 46	Groundwater quality monitoring.		Groundwater monitoring bore (46 located in paddock known as "Oaks Road") labelled as EPA point 46 on map Titled Env MP-location of Piezometer MP dated 1st May 2007. see Fig 3
EPA Monitoring Point 47	Groundwater quality monitoring.		Groundwater monitoring bore (47 located in paddock known as Horse" labelled as EPA point 47 on map Titled Env MP-location of Piezometer MP dated 1st May 2007. see Fig 3
48	Effluent quality and volume monitoring. Wet weather discharge. Discharge quality monitoring. Discharge to utilisation area.	Effluent quality and volume monitoring. Wet weather discharge. Discharge quality monitoring. Discharge to utilisation area.	Terminal Pond One and spillway servicing Pivot 2c located in the paddock known as Spillway including pump labelled as EPA Point 48 on map Titled Environmental Monitoring Points-location of Effluent MP dated 1st May 2007. see Fig 2

EPA No.	Type of monitoring point	Type of discharge point	Description of location
49	Effluent quality and volume monitoring. Wet weather discharge. Discharge quality monitoring. Discharge to utilisation area.	Effluent quality and volume monitoring. Wet weather discharge. Discharge quality monitoring. Discharge to utilisation area.	Terminal Pond Two and spillway servicing Pivot 2B and located in paddock known as Pivot 2B including pump labelled as EPA Point 49 on map Titled Env MP-location of Effluent MP dated 1st May 2007. see Fig 2
50	Effluent quality and volume monitoring. Wet weather discharge. Discharge quality monitoring. Discharge to utilisation area.	Effluent quality and volume monitoring. Wet weather discharge. Discharge quality monitoring. Discharge to utilisation area.	Terminal Pond 3 and spillway servicing Pivot 2B and 2C located in the paddock known as "wally's" including pump labelled as EPA Point 50 on map Titled Env MP-location of Effluent MP dated 1st May 2007. Fig 2
EPA Monitoring Point 51	Soil quality monitoring. Mass monitoring		Effluent utilisation area known as Pivot 2B labelled as EPA Pont 51 on map titled "Rangers Valley Cattle Station" Site Plan date 30.07.03
EPA Monitoring Point 52	Soil quality monitoring. Mass monitoring		Effluent utilisation known as Pivot 2C labelled as EPA Point 52 on map titled "Rangers Valley Cattle Station Site Plan date 30.07.03
EPA Monitoring Point 53	Groundwater quality monitoring.		Groundwater monitoring bore (53 located west of Terminal Pond 1 in the paddock known as spillway) labelled as EPA point 53 on map Titled Env MP-location of Piezometer MP dated 1st May 2007. see Fig 3
EPA Monitoring Point 54	Groundwater quality monitoring.		Groundwater monitoring bore (54 located north of Terminal Pond Two in the paddock known as Pivot 2b) labelled as EPA point 54 on map Titled Env MP location of Piezometer MP dated 1st May 2007. see Fig 3
EPA Monitoring Point 55	Groundwater quality monitoring.		Groundwater monitoring bore (55 located south of Terminal Pond Three in the paddock known as Wallys) labelled as EPA point 55 on map Titled Env MP-location of Piezometer MP dated 1st May 2007. see Fig 3

EPA No.	Type of monitoring point	Type of discharge point	Description of location
EPA Monitoring Point 56	Groundwater quality monitoring.		Groundwater monitoring bore (56 located south of the northern holding pond N1 in the paddock known as Irrigation 1) labelled as EPA point 56 on map titled Env MP dated 1st May 2007. see Fig 3. 250832A1/10
EPA Monitoring Point 57	Effluent Quality and Volume monitoring. Discharge to utilisation area.		Effluent holding pond (known as N1) irrigation pump labelled as EPA point 57 on map titled Env MP-Location of Effluent MP dated 1st May 2007. see Fig 2. 250832A1/10.

EPA MONITORING POINT 2

Surface water monitoring point (S2) at Cam Creek causeway on Deepwater Road at "Nant Park" labelled as EPA Point 2 on map titled Environmental Monitoring Points - Location of Surface Water Monitoring points dated 1st May 2007. See Fig 1 - 250832A1/10.

SURFACE WATER ANALYSIS RESULTS (EPA POINT 2)

Sampled		**15-Sept-15**	**8-Dec-15**		**14-June-16**
Obtained		**12-Oct-15**	**23-Dec-15**		**27-June-16**
Published		**20-Oct-15**	**20-Jan-16**	**5-Apr-16**	**5-July-16**
Pollutant	**Unit of measure**	**Result**	**Result**	**Result**	**Result**
Chloride	mg/L	43	26		190
Nitrate	mg/L	<1.0	<1.0		<1.0
Total Kjeldahl Nitrogen	mg/L	2	2		1.6
pH	-	7.90	7.70		7.6
Conductivity	µS/cm	520	360		700
SAR	-	1	1		2
Phosphorus (Reactive)	mg/L	<0.1	0.1	**DRY**	0.049
Nitrogen (Total)	mg/L	2	2		1.6
Suspended Solids	mg/L	<10	51		38
Calcium	mg/L	33	24		33
Potassium	mg/L	6	4		11
Magnesium	mg/L	21	16		24
Sodium	mg/L	43	32		75
Phosphorus (Total)	mg/L	<1	<1		<1.0
Nitrogen (Ammonia)	mg/L	<0.1	<0.1		0.1

Collected during pond overflow event.

EPA MONITORING POINT 3

Surface water monitoring point (S3) at grassed waterway in Old 2 paddock labelled as EPA Point 3 on map titled Environmental Monitoring Points -Location of Surface Water MP dated 1st May 2007. See Fig 1 - 250832A1/10.

SURFACE WATER ANALYSIS RESULTS (EPA POINT 3)

Sampled		**15-Sept-15**	**8-Dec-15**	**15-Mar-16**	**14-June-16**
Obtained		**12-Oct-15**	**23-Dec-15**	**17-Mar-16**	**27-June-16**
Published		**20-Oct-15**	**20-Jan-16**	**5-Apr-16**	**5-July-16**
Pollutant	**Unit of measure**		**Result**	**Result**	**Result**
Chloride	mg/L	31	43	43	140
Nitrate	mg/L	1.3	<1.0	12	1.9
Total Kjeldahl Nitrogen	mg/L	7	12	9	10
pH	-	7.70	7.60	7.2	7.8
Conductivity	µS/cm	350	600	450	930
SAR	-	<1	<1	<1	<1
Phosphorus (Reactive)	mg/L	4.2	2.3	2.2	4.40
Nitrogen (Total)	mg/L	7	12	12	11
Suspended Solids	mg/L	16	220	330	280
Calcium	mg/L	13	26	14	32
Potassium	mg/L	56	100	77	130
Magnesium	mg/L	8	17	9	23
Sodium	mg/L	11	16	10	26
Phosphorus (Total)	mg/L	6	8	4	5.2
Nitrogen (Ammonia)	mg/L	1.9	<0.5	1.7	0.4

[#] Collected during pond overflow event.

EPA MONITORING POINT 4

Surface water monitoring point (S4) at Cam Creek bridge on Rangers Valley Road labelled as EPA Point 4 on map titled Environmental Monitoring Points -Location of Surface Water MP dated 1st May 2007. See Fig 1 - 250832A1/10.

SURFACE WATER ANALYSIS RESULTS (EPA POINT 4)

Sampled		**15-Sept-15**	**8-Dec-15**		**14-June-16**
Obtained		**12-Oct-15**	**23-Dec-15**		**27-June-16**
Published		**20-Oct-15**	**20-Jan-16**	**5-Apr-16**	**5-July-16**
Pollutant	**Unit of measure**	**Result**	**Result**	**Result**	**Result**
Chloride	mg/L	130	130		130
Nitrate	mg/L	<1.0	<1.0		1.7
Total Kjeldahl Nitrogen	mg/L	2	5		8.8
pH	-	8.00	7.90		8.2
Conductivity	µS/cm	1000	1100		930
SAR	-	2	3		2
Phosphorus (Reactive)	mg/L	1.2	1.4	**DRY**	0.480
Nitrogen (Total)	mg/L	2	5		9.2
Suspended Solids	mg/L	<10	54		130
Calcium	mg/L	56	50		45
Potassium	mg/L	18	21		44
Magnesium	mg/L	38	39		31
Sodium	mg/L	94	110		80
Phosphorus (Total)	mg/L	2	2		1.9
Nitrogen (Ammonia)	mg/L	<0.1	0.6		0.4

[#] Collected during pond overflow event.

EPA MONITORING POINT 5

Surface water monitoring point (S5) at Severn River Bridge on the Yarraford Road labelled as EPA Point 5 on map titled Environmental Monitoring Points -Location of Surface Water MP dated 1st May 2007. See Fig 1 - 250832A1/10.

SURFACE WATER ANALYSIS RESULTS (EPA POINT 5)

Sampled		**15-Sept-15**	**8-Dec-15**	**15-Mar-16**	**14-June-16**
Obtained		**12-Oct-15**	**23-Dec-15**	**17-Mar-16**	**27-June-16**
Published		**20-Oct-15**	**20-Jan-16**	**5-Apr-16**	**5-July-16**
Pollutant	**Unit of measure**	**Result**	**Result**	**Result**	**Result**
Chloride	mg/L	18	14	20	35
Nitrate	mg/L	<1.0	<1.0	<1.0	<1.0
Total Kjeldahl Nitrogen	mg/L	1	1	1	<1.0
pH	-	7.70	7.60	8.2	8.4
Conductivity	µS/cm	160	130	240	470
SAR	-	1	1	1	2
Phosphorus (Reactive)	mg/L	<0.1	<0.1	<0.1	<0.025
Nitrogen (Total)	mg/L	1	1	1	<1.0
Suspended Solids	mg/L	<10	<10	<5	<5
Calcium	mg/L	7	5	13	26
Potassium	mg/L	3	3	4	4
Magnesium	mg/L	4	4	9	19
Sodium	mg/L	17	14	27	54
Phosphorus (Total)	mg/L	<1	<1	<1	<1.0
Nitrogen (Ammonia)	mg/L	<0.1	<0.1	<0.1	<0.1

[#] Collected during pond overflow event.

EPA MONITORING POINT 6

Surface water monitoring point (S6) at Severn River Bridge on the Emmaville Road labelled as EPA Point 6 on map titled Environmental Monitoring Points -Location of Surface Water MP dated 1st May 2007. See Fig 1 - 250832A1/10.

SURFACE WATER ANALYSIS RESULTS (EPA POINT 6)

Sampled		**15-Sept-15**	**8-Dec-15**	**15-Mar-16**	**14-June-16**
Obtained		**12-Oct-15**	**23-Dec-15**	**17-Mar-16**	**27-June-16**
Published		**20-Oct-15**	**20-Jan-16**	**5-Apr-16**	**5-July-16**
Pollutant	**Unit of measure**	**Result**	**Result**	**Result**	**Result**
Chloride	mg/L	13	10	20	29
Nitrate	mg/L	<1.0	<1.0	<1.0	<1.0
Total Kjeldahl Nitrogen	mg/L	1	1	<1	<1.0
pH	-	8.00	8.20	8.1	8.2
Conductivity	µS/cm	230	210	290	380
SAR	-	<1	<1	<1	<1
Phosphorus (Reactive)	mg/L	<0.1	<0.1	0.1	<0.025
Nitrogen (Total)	mg/L	1	1	<1	<1.0
Suspended Solids	mg/L	<10	<10	<5	<5
Calcium	mg/L	16	15	19	27
Potassium	mg/L	4	3	5	6
Magnesium	mg/L	12	11	15	20
Sodium	mg/L	13	12	19	27
Phosphorus (Total)	mg/L	<1	<1	<1	<1.0
Nitrogen (Ammonia)	mg/L	<0.1	<0.1	0.1	<0.1

[#] Collected during pond overflow event.

EPA MONITORING POINT 7

Surface water monitoring point (S7) at Beardy Waters causeway on the Haul Rd (2nd causeway) - upstream of confluence with Severn River, labelled as EPA Point 7 on map titled Env MP -Location of Surface Water MP dated 1st May 2007. See Fig 1.

SURFACE WATER ANALYSIS RESULTS (EPA POINT 7)

Sampled		**15-Sept-15**	**8-Dec-15**	**15-Mar-16**	**14-June-16**
Obtained		**12-Oct-15**	**23-Dec-15**	**17-Mar-16**	**27-June-16**
Published		**20-Oct-15**	**20-Jan-16**	**5-Apr-16**	**5-July-16**
Pollutant	**Unit of measure**	**Result**	**Result**	**Result**	**Result**
Chloride	mg/L	10	8.0	12	26
Nitrate	mg/L	<1.0	<1.0	<1.0	<1.0
Total Kjeldahl Nitrogen	mg/L	1	<1	<1	<1.0
pH	-	8.20	8.50	8.1	8.5
Conductivity	µS/cm	240	260	290	430
SAR	-	<1	<1	<1	<1
Phosphorus (Reactive)	mg/L	<0.1	<0.1	<0.1	<0.025
Nitrogen (Total)	mg/L	1	<1	<1	<1.0
Suspended Solids	mg/L	<10	<10	<5	<5
Calcium	mg/L	19	21	22	27
Potassium	mg/L	3	3	4	4
Magnesium	mg/L	15	17	18	30
Sodium	mg/L	11	9	14	21
Phosphorus (Total)	mg/L	<1	<1	<1	<1.0
Nitrogen (Ammonia)	mg/L	<0.1	<0.1	<0.1	<0.1

[#] Collected during pond overflow event.

EPA MONITORING POINT 8

Surface water monitoring point (S8) at Severn River causeway on the Haul Road (first causeway) labelled as EPA Point 8 on map titled Environmental Monitoring Points - Location of Surface Water MP dated 1st May 2007. See Fig 1 - 250832A1/10.

SURFACE WATER ANALYSIS RESULTS (EPA POINT 8)

Sampled		**15-Sept-15**	**8-Dec-15**	**15-Mar-16**	**14-June-16**
Obtained		**12-Oct-15**	**23-Dec-15**	**17-Mar-16**	**27-June-16**
Published		**20-Oct-15**	**20-Jan-16**	**5-Apr-16**	**5-July-16**
Pollutant	**Unit of measure**	**Result**	**Result**	**Result**	**Result**
Chloride	mg/L	12	9	24	23
Nitrate	mg/L	<1.0	<1.0	2.0	<1.0
Total Kjeldahl Nitrogen	mg/L	1	<1	1	<1.0
pH	-	8.20	8.20	8.1	8.6
Conductivity	µS/cm	230	220	320	380
SAR	-	<1	<1	<1	<1
Phosphorus (Reactive)	mg/L	<0.1	<0.1	<0.1	<0.025
Nitrogen (Total)	mg/L	1	<1	2	<1.0
Suspended Solids	mg/L	10	<10	<5	<5
Calcium	mg/L	17	17	21	25
Potassium	mg/L	3	3	5	4
Magnesium	mg/L	13	13	15	25
Sodium	mg/L	12	10	21	20
Phosphorus (Total)	mg/L	<1	<1	<1	<1.0
Nitrogen (Ammonia)	mg/L	<0.1	<0.1	<0.1	<0.1

[#] Collected during pond overflow event.

EPA MONITORING POINT 11

Final effluent holding pond (on eastern side of the feedlot, known as E2) including spillway and irrigation pumps labelled as EPA Point 11 on map titled Env MPs-Location of Effluent MP dated 1st May 2007. See Fig 2 - 250832A1/10.

EFFLUENT ANALYSIS RESULTS (EPA POINT 11)

Sampled		**15-Sept-15**	**8-Dec-15**	**15-Mar-16**	**14-June-16**
Obtained		**12-Oct-15**	**23-Dec-15**	**17-Mar-16**	**27-June-16**
Published		**20-Oct-15**	**20-Jan-16**	**5-Apr-16**	**5-July-16**
Pollutant	**Unit of measure**	**Result**	**Result**	**Result**	**Result**
Nitrogen (Ammonia)	mg/L	70	41	26	21
Chloride	mg/L	160	180	720	390
Nitrate	mg/L	<1.0	<1.0	<1.0	<1.0
Phosphorus (Reactive)	mg/L	32	21	47	34.0
pH	-	6.70	7.90	8.1	7.6
Conductivity	µS/cm	2100	2200	4600	3400
SAR	-	1	1	4	3
Phosphorus (Total)	mg/L	35	27	86	43
Nitrogen (Total)	mg/L	95	89	100	73
TKN	mg/L	95	89	100	73
Suspended Solids	mg/L	150	240	880	440
Calcium	mg/L	73	63	45	51
Potassium	mg/L	210	280	790	540
Magnesium	mg/L	46	49	84	67
Sodium	mg/L	62	63	180	140

[#] Collected during pond overflow event.

EPA MONITORING POINT 20

Effluent holding pond (on western side of feedlot, known as W4) including spillway and irrigation pump labelled as EPA Point 20 on map titled Env MPs-Location of Effluent MP dated 1st May 2007. See Fig 2 - 250832A1/10.

EFFLUENT ANALYSIS RESULTS (EPA POINT 20)

Sampled		**15-Sept-15**	**8-Dec-15**	**15-Mar-16**	**14-June-16**
Obtained		**12-Oct-15**	**23-Dec-15**	**17-Mar-16**	**27-June-16**
Published		**20-Oct-15**	**20-Jan-16**	**5-Apr-16**	**5-July-16**
Pollutant	**Unit of measure**	**Result**	**Result**	**Result**	**Result**
Nitrogen (Ammonia)	mg/L	<0.1	<0.1	1.6	<0.1
Chloride	mg/L	100	71	220	220
Nitrate	mg/L	<1.0	<1.0	<1.0	<1.0
Phosphorus (Reactive)	mg/L	6.1	12	13	6.10
pH	-	8.70	8.00	8.1	9.3
Conductivity	µS/cm	710	640	1400	1400
SAR	-	2	<1	3	3
Phosphorus (Total)	mg/L	10	14	14	11
Nitrogen (Total)	mg/L	7	7	16	14
TKN	mg/L	7	7	16	14
Suspended Solids	mg/L	68	49	80	130
Calcium	mg/L	12	25	28	18
Potassium	mg/L	110	110	230	210
Magnesium	mg/L	14	14	25	21
Sodium	mg/L	37	23	82	78

[#] Collected during pond overflow event.

EPA MONITORING POINT 24

Manure stockpile and composting area containing screened and unscreened manure and labelled as EPA Point 24 on map titled Env MPs-Location of Effluent MP dated 1st May 2007. See Fig 2 250832A1/10.

MANURE ANALYSIS RESULTS (EPA POINT 24)

Sampled		**15-Sept-15**	**15-Sept-15**	**15-Mar-16**	**15-Mar-16**
Obtained		**12-Oct-15**	**12-Oct-15**	**12-Apr-16**	**12-Apr-16**
Published		**20-Oct-15**	**20-Oct-15**	**12-Apr-16**	**12-Apr-16**
Pollutant	**Unit of measure**	**Unscreened Result**	**Screened Result**	**Unscreened Result**	**Screened Result**
Moisture	%	28.6	29.5	24.4	50.2
Nitrate	mg/kg	<200	<200	<200	<200
Nitrogen (Total)	mg/kg	18600	17800	<1000	<1000
pH	-	6.84	8.04	8.59	8.45
Calcium	mg/kg	20000	20000	21000	29000
Phosphorus (Total)	mg/kg	6400	8600	8200	11000
Organic Carbon	%	32.4	24.3	25.1	32.0
Potassium	mg/kg	19000	20000	18000	22000
Magnesium	mg/kg	7700	7000	7800	9500
Sodium	mg/kg	2800	3300	3100	3900
Conductivity	µS/cm	6330	4090	4710	4790
SAR	-	4	5	5	5
Sulphur	mg/kg	4600	4400	4800	5800
Chloride	mg/kg	8660	8670	15000	19000
Zinc	mg/kg	200	240	230	310

EPA MONITORING POINT 26

Dam located in the bottom corner of "Washpool Road" (13) paddock labelled as EPA Point 26 on map titled Env MPs-Location of Effluent MP dated 1st May 2007. See Fig 2 - 250832A1/10.

EFFLUENT ANALYSIS RESULTS (EPA POINT 26)

Sampled		**16-Sept-14**	**2-Mar-15**	**15-Sept-15**	**15-Mar-16**
Obtained		**24-Oct-14**	**12-Apr-15**	**12-Oct-15**	**17-Mar-16**
Published		**27-Oct-14**	**12-Apr-15**	**20-Oct-15**	**5-Apr-16**
Pollutant	**Unit of measure**	**Result**	**Result**	**Result**	**Result**
Nitrogen (Ammonia)	mg/L	<1	0.8	0.6	<0.1
Chloride	mg/L	110	43	340	53
Nitrate	mg/L	<1.0	<1.0	<1.0	<1.0
Phosphorus (Reactive)	mg/L	5.9	4.9	1.3	4.0
pH	-	8.10	7.50	8.35	7.6
Conductivity	µS/cm	740	360	1580	440
SAR	-	2	1	3	1
Phosphorus (Total)	mg/L	9	7	2	8
Nitrogen (Total)	mg/L	11	6	35	14
TKN	mg/L	11	6	35	14
Suspended Solids	mg/L	170	36	52	290
Calcium	mg/L	22	10	30	11
Potassium	mg/L	130	54	237	78
Magnesium	mg/L	17	8	31	9
Sodium	mg/L	40	18	110	22

[#] Collected during pond overflow event.

EPA Monitoring Point 27

Effluent utilisation area known as Pivot 1 labelled as EPA Point 27 on map titled "Rangers Valley Cattle Station Site Plan" dated 30.07.03.

Soil Analysis Results (EPA Point 27 - Pivot 1)

Parameter	Unit	Rayment & Higginson Reference	Annual Return 2015 - 2016	
			0-30cm	60-90cm
pH	-	4A1	7.29	7.74
Nitrogen (Total)	mg/kg	Dumas (Leco)	1060	-
Nitrogen (Nitrate)	mg/kg	7B1	15	12
Phosphorous (Colwell)	mg/kg	9B1	230	8
Organic Carbon	%	6A1	1.9	0.2
Conductivity	µS/cm	3A1	0.11	0.12
Chloride	mg/kg	5A1	40	77
Cation Exchange Capacity	cmol(+)/kg	15D3	9.08	8.96
Exchangeable Sodium	cmol(+)/kg	15D3	0.25	1.41
Exchangeable Potassium	cmol(+)/kg	15D3	0.86	0.59
Exchangeable Calcium	cmol(+)/kg	15D3	5.87	4.00
Exchangeable Magnesium	cmol(+)/kg	15D3	2.12	2.95
Exchangeable Sodium Percentage	%	15D3	2.7	15.8
Phosphorus Sorption Capacity	mg/kg	9I1 and 9J1	<1	26
Aggregate Stability (Emerson)	EAT	-	3(4)	2(3)

EPA Monitoring Point 28

Effluent utilisation area known as Pivot 3A labelled as EPA Point 28 on map titled "Rangers Valley Cattle Station Site Plan" dated 30.07.03.

Soil Analysis Results (EPA Point 28 - Pivot 3A)

Parameter	Unit	Rayment & Higginson Reference	Annual Return 2015 - 2016	
			0-30cm	60-90cm
pH	-	4A1	5.64	6.95
Nitrogen (Total)	mg/kg	Dumas (Leco)	1020	-
Nitrogen (Nitrate)	mg/kg	7B1	57	21
Phosphorous (Colwell)	mg/kg	9B1	126	1
Organic Carbon	%	6A1	3.0	0.3
Conductivity	µS/cm	3A1	0.14	0.13
Chloride	mg/kg	5A1	24	18
Cation Exchange Capacity	cmol(+)/kg	15D3	7.10	19.7
Exchangeable Sodium	cmol(+)/kg	15D3	0.22	1.18
Exchangeable Potassium	cmol(+)/kg	15D3	0.68	0.30
Exchangeable Calcium	cmol(+)/kg	15D3	4.56	11.8
Exchangeable Magnesium	cmol(+)/kg	15D3	1.64	6.46
Exchangeable Sodium Percentage	%	15D3	3.1	6.0
Phosphorus Sorption Capacity	mg/kg	9I1 and 9J1	8	57
Aggregate Stability (Emerson)	EAT	-	3(1)	3(4)

EPA MONITORING POINT 29

Effluent utilisation area known as Pivot 3B labelled as EPA Point 29 on map titled "Rangers Valley Cattle Station Site Plan" dated 30.07.03.

SOIL ANALYSIS RESULTS (EPA POINT 29 - PIVOT 3B)

Parameter	Unit	Rayment & Higginson Reference	Annual Return 2015 - 2016	
			0-30cm	60-90cm
pH	-	4A1	6.68	6.79
Nitrogen (Total)	mg/kg	Dumas (Leco)	1230	-
Nitrogen (Nitrate)	mg/kg	7B1	23	2
Phosphorous (Colwell)	mg/kg	9B1	118	1
Organic Carbon	%	6A1	2.4	0.5
Conductivity	µS/cm	3A1	0.09	0.14
Chloride	mg/kg	5A1	21	137
Cation Exchange Capacity	cmol(+)/kg	15D3	6.10	17.7
Exchangeable Sodium	cmol(+)/kg	15D3	0.14	1.12
Exchangeable Potassium	cmol(+)/kg	15D3	1.11	0.62
Exchangeable Calcium	cmol(+)/kg	15D3	3.35	10.2
Exchangeable Magnesium	cmol(+)/kg	15D3	1.50	5.80
Exchangeable Sodium Percentage	%	15D3	2.4	6.3
Phosphorus Sorption Capacity	mg/kg	9I1 and 9J1	5	72
Aggregate Stability (Emerson)	EAT	-	5	3(4)

EPA MONITORING POINT 30

Effluent utilisation area known as Rye East labelled as EPA Point 30 on map titled "Rangers Valley Cattle Station Site Plan" dated 30.07.03.

SOIL ANALYSIS RESULTS (EPA POINT 30 - RYE EAST)

Parameter	Unit	Rayment & Higginson Reference	Annual Return 2015 - 2016	
			0-30cm	60-90cm
pH	-	4A1	6.99	7.28
Nitrogen (Total)	mg/kg	Dumas (Leco)	868	-
Nitrogen (Nitrate)	mg/kg	7B1	4	<1
Phosphorous (Colwell)	mg/kg	9B1	137	3
Organic Carbon	%	6A1	1.6	0.3
Conductivity	µS/cm	3A1	0.07	0.15
Chloride	mg/kg	5A1	24	123
Cation Exchange Capacity	cmol(+)/kg	15D3	7.84	19.1
Exchangeable Sodium	cmol(+)/kg	15D3	0.15	1.08
Exchangeable Potassium	cmol(+)/kg	15D3	1.37	0.36
Exchangeable Calcium	cmol(+)/kg	15D3	4.54	11.4
Exchangeable Magnesium	cmol(+)/kg	15D3	1.79	6.17
Exchangeable Sodium Percentage	%	15D3	2.0	5.7
Phosphorus Sorption Capacity	mg/kg	9I1 and 9J1	4	54
Aggregate Stability (Emerson)	EAT	-	4	2(1)

EPA MONITORING POINT 31

Effluent utilisation area known as Rye West labelled as EPA Point 31 on map titled "Rangers Valley Cattle Station Site Plan" dated 30.07.03.

SOIL ANALYSIS RESULTS (EPA POINT 31 - RYE WEST)

Parameter	Unit	Rayment & Higginson Reference	Annual Return 2015 - 2016	
			0-30cm	60-90cm
pH	-	4A1	6.46	6.63
Nitrogen (Total)	mg/kg	Dumas (Leco)	760	-
Nitrogen (Nitrate)	mg/kg	7B1	1	<1
Phosphorous (Colwell)	mg/kg	9B1	72	4
Organic Carbon	%	6A1	1.1	0.7
Conductivity	µS/cm	3A1	0.06	0.11
Chloride	mg/kg	5A1	21	146
Cation Exchange Capacity	cmol(+)/kg	15D3	5.88	17.9
Exchangeable Sodium	cmol(+)/kg	15D3	0.17	0.55
Exchangeable Potassium	cmol(+)/kg	15D3	1.11	0.30
Exchangeable Calcium	cmol(+)/kg	15D3	3.30	13.1
Exchangeable Magnesium	cmol(+)/kg	15D3	1.30	3.99
Exchangeable Sodium Percentage	%	15D3	3.0	3.1
Phosphorus Sorption Capacity	mg/kg	9I1 and 9J1	13	71
Aggregate Stability (Emerson)	EAT	-	4	2(2)

EPA MONITORING POINT 51

SOIL ANALYSIS RESULTS (EPA POINT 51 - PIVOT 2B)

Parameter	Unit	Rayment & Higginson Reference	Annual Return 2015 - 2016	
			0-30cm	60-90cm
pH	-	4A1	7.17	6.82
Nitrogen (Total)	mg/kg	Dumas (Leco)	987	-
Nitrogen (Nitrate)	mg/kg	7B1	22	5
Phosphorous (Colwell)	mg/kg	9B1	87	2
Organic Carbon	%	6A1	1.0	0.7
Conductivity	µS/cm	3A1	0.14	0.11
Chloride	mg/kg	5A1	82	110
Cation Exchange Capacity	cmol(+)/kg	15D3	7.62	17.0
Exchangeable Sodium	cmol(+)/kg	15D3	0.30	0.78
Exchangeable Potassium	cmol(+)/kg	15D3	1.64	0.28
Exchangeable Calcium	cmol(+)/kg	15D3	3.76	11.5
Exchangeable Magnesium	cmol(+)/kg	15D3	1.92	4.39
Exchangeable Sodium Percentage	%	15D3	4.0	1.6
Phosphorus Sorption Capacity	mg/kg	9I1 and 9J1	7	59
Aggregate Stability (Emerson)	EAT	-	3(4)	2(1)

EPA MONITORING POINT 52

SOIL ANALYSIS RESULTS (EPA POINT 52 - PIVOT 2C)

Parameter	Unit	Rayment & Higginson Reference	Annual Return 2015 - 2016	
			0-30cm	60-90cm
pH	-	4A1	6.67	7.23
Nitrogen (Total)	mg/kg	Dumas (Leco)	1110	-
Nitrogen (Nitrate)	mg/kg	7B1	17	3
Phosphorous (Colwell)	mg/kg	9B1	315	10
Organic Carbon	%	6A1	2.3	0.2
Conductivity	µS/cm	3A1	0.12	0.05
Chloride	mg/kg	5A1	63	18
Cation Exchange Capacity	cmol(+)/kg	15D3	10.6	10.7
Exchangeable Sodium	cmol(+)/kg	15D3	0.24	0.34
Exchangeable Potassium	cmol(+)/kg	15D3	1.56	0.48
Exchangeable Calcium	cmol(+)/kg	15D3	6.31	6.33
Exchangeable Magnesium	cmol(+)/kg	15D3	2.50	3.57
Exchangeable Sodium Percentage	%	15D3	2.2	3.1
Phosphorus Sorption Capacity	mg/kg	9I1 and 9J1	<1	27
Aggregate Stability (Emerson)	EAT	-	2(1)	2(2)

EPA MONITORING POINT 34

Groundwater monitoring bore (34 located in corner paddock) labelled as EPA Point 34 on map titled Env MP-Location of piezometer MP dated 1st May 2007. See Fig 3.

GROUNDWATER ANALYSIS RESULTS (EPA POINT 34)

Sampled		**29-Oct-14**	**30-Apr-15**	**27-Oct-15**	**13-Apr-16**
Obtained		**20-Jan-15**	**1-May-15**	**29-Oct-15**	**11-May-16**
Published		**21-Jan-15**	**14-May-15**	**11-Nov-15**	**6-Jun-16**
Pollutant	**Unit of measure**	**Result**	**Result**	**Result**	**Result**
Nitrogen (ammonia)	mg/L	<0.1	<0.05	0.16	<0.05
Nitrogen (nitrate)	mg/L	90	35.0	41.3	23.7
Phosphorus (Reactive)	mg/L	<0.1	0.37	0.13	0.13
pH	-	7.64	7.8	7.8	7.9
Conductivity	µS/cm	1130	1370	1410	1420
Phosphorus (total)	mg/L	<1	0.15	0.43	0.18
Nitrogen (total)	mg/L	17	35	41.3	23.7
Suspended Solids	mg/L	21	16	328	38

EPA MONITORING POINT 35

Groundwater monitoring bore (35 located in the laneway north of Rye East paddock) labelled as EPA Point 35 on map titled Env MP-Location of piezometer MP dated 1st May 2007. See Fig 3.

GROUNDWATER ANALYSIS RESULTS (EPA POINT 35)

Sampled		29-Oct-14	30-Apr-15	27-Oct-15	13-Apr-16
Obtained					
Published					
Pollutant	**Unit of measure**	**Result**	**Result**	**Result**	**Result**
Nitrogen (ammonia)	mg/L				
Nitrogen (nitrate)	mg/L				
Phosphorus (Reactive)	mg/L				
pH	-	**DRY**	**DRY**	**DRY**	**DRY**
Conductivity	µS/cm				
Phosphorus (total)	mg/L				
Nitrogen (total)	mg/L				
Suspended Solids	mg/L				

EPA MONITORING POINT 36

Groundwater monitoring bore (36 located between ponds W3 and W4) labelled as EPA Point 36 on map titled Env MP-Location of piezometer MP dated 1st May 2007. See Fig 3.

GROUNDWATER ANALYSIS RESULTS (EPA POINT 36)

Sampled		**29-Oct-14**	**30-Apr-15**	**27-Oct-15**	**13-Apr-16**
Obtained		**20-Jan-15**	**1-May-15**	**29-Oct-15**	**11-May-16**
Published		**21-Jan-15**	**14-May-15**	**11-Nov-15**	**6-Jun-16**
Pollutant	**Unit of measure**	**Result**	**Result**	**Result**	**Result**
Nitrogen (ammonia)	mg/L	<0.1	<0.05	0.09	<0.05
Nitrogen (nitrate)	mg/L	36	5.2	6.48	4.20
Phosphorus (Reactive)	mg/L	<0.1	0.53	0.20	0.18
pH	-	8.13	8.2	8.1	8.1
Conductivity	µS/cm	3810	4600	4750	4670
Phosphorus (total)	mg/L	<1	0.24	0.26	0.56
Nitrogen (total)	mg/L	9	5.7	7.0	4.9
Suspended Solids	mg/L	279	47	102	420

EPA MONITORING POINT 38

Groundwater monitoring bore (located on eastern point of effluent pond E2) labelled as EPA Point 38 on map titled Env MP-Location of piezometer MP dated 1st May 2007. See Fig 3.

GROUNDWATER ANALYSIS RESULTS (EPA POINT 38)

Sampled		**29-Oct-14**	**30-Apr-15**	**27-Oct-15**	**13-Apr-16**
Obtained		**20-Jan-15**	**1-May-15**	**29-Oct-15**	**11-May-16**
Published		**21-Jan-15**	**14-May-15**	**11-Nov-15**	**6-Jun-16**
Pollutant	**Unit of measure**	**Result**	**Result**	**Result**	**Result**
Nitrogen (ammonia)	mg/L	<0.1	<0.05	0.09	<0.05
Nitrogen (nitrate)	mg/L	160	30.3	22.3	11.8
Phosphorus (Reactive)	mg/L	<0.1	0.26	0.13	0.10
pH	-	7.02	6.7	6.8	6.7
Conductivity	µS/cm	2060	1190	1660	1450
Phosphorus (total)	mg/L	<1	0.14	0.15	0.18
Nitrogen (total)	mg/L	32	30.3	22.4	12.6
Suspended Solids	mg/L	<10	15	38	52

EPA MONITORING POINT 40

Groundwater monitoring bore (40 located on adjoining fence line between Pivot 3A/3B) on map titled Env MP-Location of piezometer MP dated 1st May 2007. See Fig 3.

GROUNDWATER ANALYSIS RESULTS (EPA POINT 40)

Sampled		**29-Oct-14**	**30-Apr-15**	**27-Oct-15**	**13-Apr-16**
Obtained		**20-Jan-15**	**1-May-15**	**29-Oct-15**	**11-May-16**
Published		**21-Jan-15**	**14-May-15**	**11-Nov-15**	**6-Jun-16**
Pollutant	**Unit of measure**	**Result**	**Result**	**Result**	**Result**
Nitrogen (ammonia)	mg/L	<0.1	<0.05	<0.05	<0.05
Nitrogen (nitrate)	mg/L	68	13.8	14.5	11.9
Phosphorus (Reactive)	mg/L	<0.1	0.19	0.07	0.06
pH	-	7.41	7.4	7.3	7.4
Conductivity	µS/cm	1560	1650	1670	1660
Phosphorus (total)	mg/L	<1	0.08	0.07	0.68
Nitrogen (total)	mg/L	12	13.8	14.5	11.9
Suspended Solids	mg/L	<10	8	22	35

EPA MONITORING POINT 41

Groundwater monitoring bore (41 below EPA point 14 in paddock Bottom Swamp) labelled as EPA Point 41 on map titled Env MP Location of piezometer MP dated 1st May 2007. See Fig 3.

GROUNDWATER ANALYSIS RESULTS (EPA POINT 41)

Sampled		**29-Oct-14**	**30-Apr-15**	**27-Oct-15**	**13-Apr-16**
Obtained		**20-Jan-15**	**1-May-15**	**29-Oct-15**	**11-May-16**
Published		**21-Jan-15**	**14-May-15**	**11-Nov-15**	**6-Jun-16**
Pollutant	**Unit of measure**	**Result**	**Result**	**Result**	**Result**
Nitrogen (ammonia)	mg/L	<0.1	<0.05	<0.05	0.05
Nitrogen (nitrate)	mg/L	39	7.2	9.35	5.53
Phosphorus (Reactive)	mg/L	<0.1	0.08	0.04	0.03
pH	-	7.17	7.1	7.1	7.1
Conductivity	µS/cm	3210	3360	3530	3420
Phosphorus (total)	mg/L	<1	0.06	0.06	0.09
Nitrogen (total)	mg/L	17	7.7	9.3	6.3
Suspended Solids	mg/L	897	29	97	752

EPA MONITORING POINT 42

Groundwater monitoring bore (42 located in laneway between Pivot 1 and effluent pond E2) labelled as EPA Point 42 on map titled Env MP-Location of piezometer MP dated 1st May 2007. See Fig 3.

GROUNDWATER ANALYSIS RESULTS (EPA POINT 42)

Sampled		**29-Oct-14**	**30-Apr-15**	**27-Oct-15**	**13-Apr-16**
Obtained		**20-Jan-15**	**1-May-15**	**29-Oct-15**	**11-May-16**
Published		**21-Jan-15**	**14-May-15**	**11-Nov-15**	**6-Jun-16**
Pollutant	**29-Oct-14**	**Result**	**Result**	**Result**	**Result**
Nitrogen (ammonia)	**20-Jan-15**	<0.1	<0.05	<0.05	<0.05
Nitrogen (nitrate)	**21-Jan-15**	6.5	0.7	0.38	0.50
Phosphorus (Reactive)	**29-Oct-14**	<0.1	0.07	0.04	0.03
pH	**20-Jan-15**	6.92	6.9	6.8	6.8
Conductivity	**21-Jan-15**	2570	2870	2830	2870
Phosphorus (total)	**29-Oct-14**	<1	0.06	0.30	1.25
Nitrogen (total)	**20-Jan-15**	2	1.9	2.0	2.7
Suspended Solids	**21-Jan-15**	1220	93	837	965

EPA MONITORING POINT 43

The following tables are a summary of the analysis results of the soil quality in the utilisation areas identified as the 'solid utilisation areas as identified on drawing No 19045-05 as quoted in the consent conditions' on map titled "Map 1 - Rangers Valley Cattle Station" submitted with a letter to the EPA on 25 October 2006 (EPA Point 43).

Monitoring has been undertaken at Special Frequency 7, in accordance with the frequency required in accordance with Section M2 of Environmental Protection Licence No. 3864.

SOIL ANALYSIS RESULTS (BOTTOM SWAMP)

Parameter	Unit	Annual Return 2015 - 2016	
		0-30 cm	60-90 cm
pH	-	6.23	7.11
Nitrogen (Total)	mg/kg	1430	-
Nitrogen (Nitrate)	mg/kg	3	<1
Phosphorous (Colwell)	mg/kg	85	6
Organic Carbon	%	1.4	0.5
Conductivity	µS/cm	0.04	0.03
Chloride	mg/kg	5	7
Cation Exchange Capacity	cmol(+)/kg	8.39	11.2
Exchangeable Sodium	cmol(+)/kg	0.10	0.61
Exchangeable Potassium	cmol(+)/kg	0.40	0.15
Exchangeable Calcium	cmol(+)/kg	5.57	7.10
Exchangeable Magnesium	cmol(+)/kg	2.32	3.31
Exchangeable Sodium Percent	%	1.2	5.5
Phosphorus Sorption Capacity	PSC mg/kg	16	44
Aggregate Stability (Emerson)	-	3(4)	2(1)

SOIL ANALYSIS RESULTS (BOTTOM TIP)

Parameter	Unit	Annual Return 2015 - 2016	
		0-30 cm	60-90 cm
pH	-	5.70	6.84
Nitrogen (Total)	mg/kg	734	-
Nitrogen (Nitrate)	mg/kg	2	<1
Phosphorous (Colwell)	mg/kg	41	1
Organic Carbon	%	1.1	0.4
Conductivity	µS/cm	0.02	0.04
Chloride	mg/kg	7	3
Cation Exchange Capacity	cmol(+)/kg	3.75	16.0
Exchangeable Sodium	cmol(+)/kg	0.05	0.74
Exchangeable Potassium	cmol(+)/kg	0.11	0.21
Exchangeable Calcium	cmol(+)/kg	2.95	9.20
Exchangeable Magnesium	cmol(+)/kg	0.64	5.82
Exchangeable Sodium Percent	%	1.4	4.6
Phosphorus Sorption Capacity	PSC mg/kg	11	62
Aggregate Stability (Emerson)	-	2(1)	3(2)

SOIL ANALYSIS RESULTS (CREEK)

Parameter	Unit	Annual Return 2015 - 2016	
		0-30 cm	60-90 cm
pH	-	6.14	6.55
Nitrogen (Total)	mg/kg	946	-
Nitrogen (Nitrate)	mg/kg	11	14
Phosphorous (Colwell)	mg/kg	112	1
Organic Carbon	%	1.9	0.6
Conductivity	µS/cm	0.05	0.05
Chloride	mg/kg	2	18
Cation Exchange Capacity	cmol(+)/kg	7.83	8.55
Exchangeable Sodium	cmol(+)/kg	0.08	0.16
Exchangeable Potassium	cmol(+)/kg	0.34	0.12
Exchangeable Calcium	cmol(+)/kg	5.62	5.77
Exchangeable Magnesium	cmol(+)/kg	1.79	2.50
Exchangeable Sodium Percent	%	1.0	1.9
Phosphorus Sorption Capacity	PSC mg/kg	5	26
Aggregate Stability (Emerson)	-	3(2)	2(1)

SOIL ANALYSIS RESULTS (CROUCHES)

Parameter	Unit	Annual Return 2015 - 2016	
		0-30 cm	60-90 cm
pH	-	6.38	6.70
Nitrogen (Total)	mg/kg	712	-
Nitrogen (Nitrate)	mg/kg	16	22
Phosphorous (Colwell)	mg/kg	248	3
Organic Carbon	%	0.8	0.5
Conductivity	µS/cm	0.08	0.10
Chloride	mg/kg	2	10
Cation Exchange Capacity	cmol(+)/kg	8.34	17.5
Exchangeable Sodium	cmol(+)/kg	0.06	0.42
Exchangeable Potassium	cmol(+)/kg	0.49	0.26
Exchangeable Calcium	cmol(+)/kg	5.95	11.4
Exchangeable Magnesium	cmol(+)/kg	1.84	5.47
Exchangeable Sodium Percent	%	0.7	2.4
Phosphorus Sorption Capacity	PSC mg/kg	<1	69
Aggregate Stability (Emerson)	-	2(1)	3(2)

SOIL ANALYSIS RESULTS (DONNELLYS NTH)

Parameter	Unit	Annual Return 2015 - 2016	
		0-30 cm	60-90 cm
pH	-	5.53	6.70
Nitrogen (Total)	mg/kg	1380	-
Nitrogen (Nitrate)	mg/kg	19	2
Phosphorous (Colwell)	mg/kg	77	6
Organic Carbon	%	2.0	0.5
Conductivity	µS/cm	0.05	0.03
Chloride	mg/kg	5	5
Cation Exchange Capacity	cmol(+)/kg	5.08	7.47
Exchangeable Sodium	cmol(+)/kg	0.04	0.12
Exchangeable Potassium	cmol(+)/kg	0.47	0.15
Exchangeable Calcium	cmol(+)/kg	3.53	5.35
Exchangeable Magnesium	cmol(+)/kg	1.04	1.85
Exchangeable Sodium Percent	%	0.8	1.6
Phosphorus Sorption Capacity	PSC mg/kg	10	36
Aggregate Stability (Emerson)	-	3(1)	2(1)

SOIL ANALYSIS RESULTS (DONNELLYS STH)

Parameter	Unit	Annual Return 2015 - 2016	
		0-30 cm	60-90 cm
pH	-	6.13	6.51
Nitrogen (Total)	mg/kg	1290	-
Nitrogen (Nitrate)	mg/kg	11	<1
Phosphorous (Colwell)	mg/kg	74	3
Organic Carbon	%	1.6	0.5
Conductivity	µS/cm	0.06	0.02
Chloride	mg/kg	5	3
Cation Exchange Capacity	cmol(+)/kg	6.34	6.15
Exchangeable Sodium	cmol(+)/kg	0.04	0.10
Exchangeable Potassium	cmol(+)/kg	0.69	0.11
Exchangeable Calcium	cmol(+)/kg	4.07	4.36
Exchangeable Magnesium	cmol(+)/kg	1.54	1.58
Exchangeable Sodium Percent	%	0.6	1.6
Phosphorus Sorption Capacity	PSC mg/kg	<1	30
Aggregate Stability (Emerson)	-	3(3)	2(1)

SOIL ANALYSIS RESULTS (MORRIES)

Parameter	Unit	Annual Return 2015 - 2016	
		0-30 cm	60-90 cm
pH	-	6.38	6.81
Nitrogen (Total)	mg/kg	828	-
Nitrogen (Nitrate)	mg/kg	6	<1
Phosphorous (Colwell)	mg/kg	105	28
Organic Carbon	%	2.5	0.3
Conductivity	µS/cm	0.05	0.04
Chloride	mg/kg	8	33
Cation Exchange Capacity	cmol(+)/kg	7.66	19.2
Exchangeable Sodium	cmol(+)/kg	0.13	0.35
Exchangeable Potassium	cmol(+)/kg	0.54	0.33
Exchangeable Calcium	cmol(+)/kg	5.19	13.4
Exchangeable Magnesium	cmol(+)/kg	1.79	5.16
Exchangeable Sodium Percent	%	1.7	1.8
Phosphorus Sorption Capacity	PSC mg/kg	2	32
Aggregate Stability (Emerson)	-	3(2)	3(3)

SOIL ANALYSIS RESULTS (NO 36)

Parameter	Unit	Annual Return 2015 - 2016	
		0-30 cm	60-90 cm
pH	-	5.84	7.03
Nitrogen (Total)	mg/kg	573	-
Nitrogen (Nitrate)	mg/kg	29	1
Phosphorous (Colwell)	mg/kg	82	1
Organic Carbon	%	1.6	0.5
Conductivity	µS/cm	0.11	0.05
Chloride	mg/kg	43	7
Cation Exchange Capacity	cmol(+)/kg	5.52	18.5
Exchangeable Sodium	cmol(+)/kg	0.15	2.7
Exchangeable Potassium	cmol(+)/kg	0.48	0.26
Exchangeable Calcium	cmol(+)/kg	3.61	11.7
Exchangeable Magnesium	cmol(+)/kg	1.28	6.05
Exchangeable Sodium Percent	%	2.7	2.7
Phosphorus Sorption Capacity	PSC mg/kg	1	66
Aggregate Stability (Emerson)	-	5	3(4)

SOIL ANALYSIS RESULTS (OATS)

Parameter	Unit	Annual Return 2015 - 2016	
		0-30 cm	60-90 cm
pH	-	5.31	6.53
Nitrogen (Total)	mg/kg	893	-
Nitrogen (Nitrate)	mg/kg	3	<1
Phosphorous (Colwell)	mg/kg	125	5
Organic Carbon	%	1.9	0.3
Conductivity	µS/cm	0.03	0.02
Chloride	mg/kg	4	2
Cation Exchange Capacity	cmol(+)/kg	3.97	12.2
Exchangeable Sodium	cmol(+)/kg	0.04	0.10
Exchangeable Potassium	cmol(+)/kg	0.52	0.36
Exchangeable Calcium	cmol(+)/kg	2.69	8.59
Exchangeable Magnesium	cmol(+)/kg	0.72	3.12
Exchangeable Sodium Percent	%	0.9	0.8
Phosphorus Sorption Capacity	PSC mg/kg	28	54
Aggregate Stability (Emerson)	-	4	3(4)

SOIL ANALYSIS RESULTS (REILLYS)

Parameter	Unit	Annual Return 2015 - 2016	
		0-30 cm	60-90 cm
pH	-	5.76	7.81
Nitrogen (Total)	mg/kg	1110	-
Nitrogen (Nitrate)	mg/kg	2	<1
Phosphorous (Colwell)	mg/kg	53	2
Organic Carbon	%	1.6	0.4
Conductivity	µS/cm	0.03	0.05
Chloride	mg/kg	5	2
Cation Exchange Capacity	cmol(+)/kg	7.68	21.2
Exchangeable Sodium	cmol(+)/kg	0.17	1.22
Exchangeable Potassium	cmol(+)/kg	0.35	0.28
Exchangeable Calcium	cmol(+)/kg	4.75	10.7
Exchangeable Magnesium	cmol(+)/kg	2.41	8.99
Exchangeable Sodium Percent	%	2.3	5.8
Phosphorus Sorption Capacity	PSC mg/kg	12	38
Aggregate Stability (Emerson)	-	2(1)	2(1)

SOIL ANALYSIS RESULTS (TOP GRANTS)

Parameter	Unit	Annual Return 2015 - 2016	
		0-30 cm	60-90 cm
pH	-	6.23	6.48
Nitrogen (Total)	mg/kg	1230	-
Nitrogen (Nitrate)	mg/kg	28	23
Phosphorous (Colwell)	mg/kg	52	<1
Organic Carbon	%	1.9	0.6
Conductivity	µS/cm	0.07	0.07
Chloride	mg/kg	9	15
Cation Exchange Capacity	cmol(+)/kg	2.54	17.3
Exchangeable Sodium	cmol(+)/kg	0.13	2.2
Exchangeable Potassium	cmol(+)/kg	0.24	0.18
Exchangeable Calcium	cmol(+)/kg	5.27	10.7
Exchangeable Magnesium	cmol(+)/kg	2.08	6.00
Exchangeable Sodium Percent	%	1.7	2.2
Phosphorus Sorption Capacity	PSC mg/kg	13	57
Aggregate Stability (Emerson)	-	4	3(4)

SOIL ANALYSIS RESULTS (TOP TIP)

Parameter	Unit	Annual Return 2015 - 2016	
		0-30 cm	60-90 cm
pH	-	6.02	6.45
Nitrogen (Total)	mg/kg	1150	-
Nitrogen (Nitrate)	mg/kg	2	<1
Phosphorous (Colwell)	mg/kg	87	5
Organic Carbon	%	2.8	0.6
Conductivity	µS/cm	0.05	0.07
Chloride	mg/kg	16	7
Cation Exchange Capacity	cmol(+)/kg	5.67	11.3
Exchangeable Sodium	cmol(+)/kg	0.05	0.22
Exchangeable Potassium	cmol(+)/kg	0.95	1.37
Exchangeable Calcium	cmol(+)/kg	3.66	6.95
Exchangeable Magnesium	cmol(+)/kg	1.01	2.72
Exchangeable Sodium Percent	%	0.8	2.0
Phosphorus Sorption Capacity	PSC mg/kg	2	44
Aggregate Stability (Emerson)	-	3(3)	3(3)

SOIL ANALYSIS RESULTS (PERKINS 2)

Parameter	Unit	Annual Return 2015 - 2016	
		0-30 cm	60-90 cm
pH	-	6.18	6.48
Nitrogen (Total)	mg/kg	1170	-
Nitrogen (Nitrate)	mg/kg	12	<1
Phosphorous (Colwell)	mg/kg	149	11
Organic Carbon	%	2.5	0.3
Conductivity	µS/cm	0.08	0.05
Chloride	mg/kg	13	17
Cation Exchange Capacity	cmol(+)/kg	6.26	11.0
Exchangeable Sodium	cmol(+)/kg	0.07	0.24
Exchangeable Potassium	cmol(+)/kg	0.76	0.23
Exchangeable Calcium	cmol(+)/kg	3.93	7.50
Exchangeable Magnesium	cmol(+)/kg	1.49	3.05
Exchangeable Sodium Percent	%	1.2	2.2
Phosphorus Sorption Capacity	PSC mg/kg	<1	30
Aggregate Stability (Emerson)	-	3(3)	2(2)

EPA MONITORING POINT 44

Groundwater monitoring bore (44 located in the north eastern grassed area of the paddock known as Old 2) labelled as EPA point 44 on map titled Env MP-Location of Peizometer MP dated 1st May 2007. See Fig 3 - 250832A1/10.

GROUNDWATER ANALYSIS RESULTS (EPA POINT 44)

Sampled		**8-Apr-14**	**29-Oct-14**	**30-Apr-15**	**27-Oct-15**	**13-Apr-16**
Obtained		**11-Apr-14**	**20-Jan-15**	**1-May-15**	**29-Oct-15**	**11-May-16**
Published		**19-May-14**	**21-Jan-15**	**14-May-15**	**11-Nov-15**	**6-Jun-16**
Pollutant	**Unit of measure**	**Result**	**Result**	**Result**	**Result**	**Result**
Nitrogen (ammonia)	mg/L	0.2	<0.1	<0.05	0.09	<0.05
Nitrogen (nitrate)	mg/L	23	4.4	0.7	0.90	0.63
Phosphorus (Reactive)	mg/L	<0.1	<0.1	0.21	0.12	0.10
pH	-	8.44	7.30	7.3	7.2	7.2
Conductivity	µS/cm	136	531	614	616	625
Phosphorus (total)	mg/L	<1	<1	0.12	0.19	0.14
Nitrogen (total)	mg/L	2	2	0.7	2.2	1.2
Suspended Solids	mg/L	15	52	18	43	53

EPA MONITORING POINT 45

Groundwater monitoring bore (45 located on eastern boundary of the paddock known as "Donnellys Elect" labelled as EPA point 45 on map titled Env MP location of Piezometer MP dated 1st May 2007. See Fig 3.

GROUNDWATER ANALYSIS RESULTS (EPA POINT 45)

Sampled		**8-Apr-14**	**29-Oct-14**	**30-Apr-15**	**27-Oct-15**	**13-Apr-16**
Obtained		**11-Apr-14**	**20-Jan-15**	**1-May-15**	**29-Oct-15**	**11-May-16**
Published		**19-May-14**	**21-Jan-15**	**14-May-15**	**11-Nov-15**	**6-Jun-16**
Pollutant	**Unit of measure**	**Result**	**Result**	**Result**	**Result**	**Result**
Nitrogen (ammonia)	mg/L	<0.1	<0.1	<0.05	<0.05	<0.05
Nitrogen (nitrate)	mg/L	2.7	15	2.8	3.32	3.59
Phosphorus (Reactive)	mg/L	<0.1	<0.1	0.06	0.03	0.04
pH	-	8.23	7.23	7.2	7.3	7.3
Conductivity	µS/cm	347	322	379	376	392
Phosphorus (total)	mg/L	<1	<1	0.04	0.04	0.08
Nitrogen (total)	mg/L	3	4	2.8	3.3	4.1
Suspended Solids	mg/L	<10	23	<2	25	32

EPA MONITORING POINT 46

Groundwater monitoring bore (46 located in paddock known as "Oaks Road") labelled as EPA point 46 on map Titled Env MP-location of Piezometer MP dated 1st May 2007. See Fig 3.

GROUNDWATER ANALYSIS RESULTS (EPA POINT 46)

Sampled		**8-Apr-14**	**29-Oct-14**	**30-Apr-15**	**27-Oct-15**	**13-Apr-16**
Obtained		**11-Apr-14**	**20-Jan-15**	**1-May-15**	**29-Oct-15**	**11-May-16**
Published		**19-May-14**	**21-Jan-15**	**14-May-15**	**11-Nov-15**	**6-Jun-16**
Pollutant	**Unit of measure**	**Result**	**Result**	**Result**	**Result**	**Result**
Nitrogen (ammonia)	mg/L	<0.1	<0.1	<0.05	<0.05	<0.05
Nitrogen (nitrate)	mg/L	6.7	28	6.1	7.23	5.10
Phosphorus (Reactive)	mg/L	<0.1	<0.1	0.08	0.03	0.03
pH	-	8.36	7.64	7.6	7.6	7.6
Conductivity	µS/cm	1010	1240	1400	1430	1480
Phosphorus (total)	mg/L	<1	<1	0.07	0.05	0.06
Nitrogen (total)	mg/L	4	7	6.5	7.2	5.6
Suspended Solids	mg/L	38	20	38	34	20

EPA MONITORING POINT 47

Groundwater monitoring bore 47 located in paddock known as “Horse" labelled as EPA point 47 on map Titled Env MP-location of Piezometer MP dated 1st May 2007. See Fig 3.

GROUNDWATER ANALYSIS RESULTS (EPA POINT 47)

Sampled		8-Apr-14	29-Oct-14	30-Apr-15	11-Nov-15	13-Apr-16
Obtained		DRY	DRY	DRY	DRY	DRY
Published						
Pollutant	**Unit of measure**	**Result**	**Result**	**Result**	**Result**	**Result**
Nitrogen (ammonia)	mg/L					
Nitrogen (nitrate)	mg/L					
Phosphorus (Reactive)	mg/L					
pH	-	DRY	DRY	DRY	DRY	DRY
Conductivity	µS/cm					
Phosphorus (total)	mg/L					
Nitrogen (total)	mg/L					
Suspended Solids	mg/L					

EPA MONITORING POINT 53

Groundwater monitoring bore 53 located west of Terminal Pond 1 in the paddock known as spillway labelled as EPA point 53 on map Titled Env MP-location of Piezometer MP dated 1st May 2007. See Fig 3. 250832A1/10.

GROUNDWATER ANALYSIS RESULTS (EPA POINT 53)

Sampled		8-Apr-14	29-Oct-14	30-Apr-15	27-Oct-15	13-Apr-16
Obtained		11-Apr-14	20-Jan-15	1-May-15	29-Oct-15	11-May-16
Published		19-May-14	21-Jan-15	14-May-15	11-Nov-15	6-Jun-16
Pollutant	**Unit of measure**	**Result**	**Result**	**Result**	**Result**	**Result**
Nitrogen (ammonia)	mg/L	<0.1	<0.1	<0.05	0.09	<0.05
Nitrogen (nitrate)	mg/L	4.9	3.0	0.5	0.11	0.18
Phosphorus (Reactive)	mg/L	<0.1	<0.1	0.05	0.04	0.03
pH	-	8.40	7.48	7.5	7.4	7.5
Conductivity	µS/cm	539	501	583	604	517
Phosphorus (total)	mg/L	<1	<1	0.05	0.07	0.05
Nitrogen (total)	mg/L	<1	2	0.5	0.6	0.5
Suspended Solids	mg/L	<10	<10	8	42	23

EPA MONITORING POINT 54

Groundwater monitoring bore 54 located north of Terminal Pond Two in the paddock known as Pivot 2b labelled as EPA point 54 on map titled Env MP location of Piezometer MP dated 1st May 2007. See Fig 3. 250832A1/10.

GROUNDWATER ANALYSIS RESULTS (EPA POINT 54)

Sampled		**8-Apr-14**	**29-Oct-14**	**30-Apr-15**	**27-Oct-15**	**13-Apr-16**
Obtained		**11-Apr-14**	**20-Jan-15**	**1-May-15**	**29-Oct-15**	**11-May-16**
Published		**19-May-14**	**21-Jan-15**	**14-May-15**	**11-Nov-15**	**6-Jun-16**
Pollutant	**Unit of measure**	**Result**	**Result**	**Result**	**Result**	**Result**
Nitrogen (ammonia)	mg/L	<0.1	<0.1	<0.05	0.06	<0.05
Nitrogen (nitrate)	mg/L	4.3	27	4.6	5.53	3.27
Phosphorus (Reactive)	mg/L	<0.1	<0.1	0.22	0.06	0.07
pH	-	8.11	6.89	6.9	6.9	6.9
Conductivity	µS/cm	459	505	572	577	613
Phosphorus (total)	mg/L	<1	<1	0.14	0.09	0.12
Nitrogen (total)	mg/L	5	10	5.2	7.2	3.9
Suspended Solids	mg/L	<10	24	43	54	55

EPA MONITORING POINT 55

Groundwater monitoring bore 55 located south of Terminal Pond Three in the paddock known as “Wallys” labelled as EPA point 55 on map titled Env MP-location of Piezometer MP dated 1st May 2007. See Fig 3. 250832A1/10.

GROUNDWATER ANALYSIS RESULTS (EPA POINT 55)

Sampled		**8-Apr-14**	**29-Oct-14**	**30-Apr-15**	**27-Oct-15**	**13-Apr-16**
Obtained		**11-Apr-14**	**20-Jan-15**	**1-May-15**	**29-Oct-15**	**11-May-16**
Published		**19-May-14**	**21-Jan-15**	**14-May-15**	**11-Nov-15**	**6-Jun-16**
Pollutant	**Unit of measure**	**Result**	**Result**	**Result**	**Result**	**Result**
Nitrogen (ammonia)	mg/L	<0.1	<0.1	<0.05	0.09	<0.05
Nitrogen (nitrate)	mg/L	6.6	2.3	0.1	0.05	0.14
Phosphorus (Reactive)	mg/L	<0.1	<0.1	0.17	0.07	0.07
pH	-	8.33	7.42	7.5	7.5	7.4
Conductivity	µS/cm	428	439	483	483	485
Phosphorus (total)	mg/L	<1	<1	0.1	0.27	0.17
Nitrogen (total)	mg/L	<1	<1	<0.3	0.7	<0.3
Suspended Solids	mg/L	93	418	19	1100	168

EPA MONITORING POINT 56

Groundwater monitoring bore (56 located south of the northern holding pond N1 in the paddock known as Irrigation 1) labelled as EPA point 56 on map titled Env MP dated 1st May 2007. See Fig 3. 250832A1/10.

GROUNDWATER ANALYSIS RESULTS (EPA POINT 56)

Sampled		8-Apr-14	29-Oct-14	30-Apr-15	27-Oct-15	13-Apr-16
Obtained		11-Apr-14	20-Jan-15	1-May-15	29-Oct-15	11-May-16
Published		19-May-14	21-Jan-15	14-May-15	11-Nov-15	6-Jun-16
Pollutant	**Unit of measure**	**Result**	**Result**	**Result**	**Result**	**Result**
Nitrogen (ammonia)	mg/L	0.1	<0.1	<0.05	<0.05	<0.05
Nitrogen (nitrate)	mg/L	3.0	44	7.7	6.30	4.76
Phosphorus (Reactive)	mg/L	<1.0	<0.1	0.04	0.03	0.03
pH	-	8.32	7.23	7.1	7.2	7.2
Conductivity	µS/cm	1110	1130	1340	1350	1470
Phosphorus (total)	mg/L	<1	<1	0.04	0.04	0.07
Nitrogen (total)	mg/L	9	12	8.1	6.8	5.3
Suspended Solids	mg/L	25	142	13	28	72

EPA MONITORING POINT 57

Effluent holding pond (known as N1) irrigation pump labelled as EPA point 57 on map titled Env MP- Location of Effluent MP dated 1st May 2007. See Fig 2 - 250832A1/10.

EFFLUENT ANALYSIS RESULTS (EPA POINT 57)

Sampled		**15-Sept-15**	**8-Dec-15**	**15-Mar-16**	**14-June-16**
Obtained		**12-Oct-15**	**23-Dec-15**	**17-Mar-16**	**27-June-16**
Published		**20-Oct-15**	**20-Jan-16**	**5-Apr-16**	**5-July-16**
Pollutant	**Unit of measure**	**Result**	**Result**	**Result**	**Result**
Nitrogen (Ammonia)	mg/L	<0.1	35	2.7	<0.1
Chloride	mg/L	300	270	290	280
Nitrate	mg/L	7.1	<1.0	<1.0	25
Phosphorus (Reactive)	mg/L	23	33	23	29.0
pH	-	8.10	8.00	8.0	8.0
Conductivity	µS/cm	2100	2300	8.0	2200
SAR	-	3	2	3	3
Phosphorus (Total)	mg/L	29	44	30	27
Nitrogen (Total)	mg/L	15	66	18	18
TKN	mg/L	13	65	18	13
Suspended Solids	mg/L	100	190	69	54
Calcium	mg/L	36	60	39	38
Potassium	mg/L	340	340	360	320
Magnesium	mg/L	52	54	57	54
Sodium	mg/L	110	110	120	120

[#] Collected during pond overflow event.