

SECTION 8

8 Investigation Result Summary

Soil, sediment, surface water and groundwater results are summarised in **Table 8-1** to **Table 8-4**, below. Detail on the analytical results respective to each area identified in **Section 2.2** is presented in **Appendix N**.

Table 8-1: Summary of Soil Sampling Results

Analyte	Number of samples analysed	Number of human health exceedances	Number of detects above LOR with no relevant human health criteria	Number of ecological exceedances	Number of detects above LOR with no relevant ecological criteria
Heavy Metals					
Arsenic	370	2	-	2	-
Cadmium	366	-	-	-	-
Chromium (total)	366	-	-	-	-
Cobalt	8	-	-	-	-
Copper	366	-	-	1	-
Lead	409	-	-	-	-
Mercury	366	-	-	1	-
Nickel	366	-	-	1	-
Selenium	8	-	-	-	-
Zinc	366	-	-	2	-
Petroleum Hydrocarbons					
TRH C6-C10	337	1	-	-	-
TRH C10-C16	337	7	-	-	-
TRHC16-C34	337	-	-	6	-
TRH C34-C40	337	-	-	-	-
TRH F2	337	7	-	6	-
BTEX	337	-	-	-	-
Fungicides					
Benomyl	90	-	-	-	1
Cyproconazole	91	-	-	-	5
Propiconazole	91	-	-	-	4
Tebuconazole	91	-	-	-	5
Other Fungicides	Up to 91	-	-	-	
Glycols					
Glycols	50 to 52	-	-	-	-
Herbicides					
AMPA	75	-	-	-	15

Table 8-1: Summary of Soil Sampling Results

Analyte	Number of samples analysed	Number of human health exceedances	Number of detects above LOR with no relevant human health criteria	Number of ecological exceedances	Number of detects above LOR with no relevant ecological criteria
Clopyralid	78	-	2	-	2
Fluroxypyr	78	-	-	-	3
Glyphosate	75	-	-	-	5
Hedonal (2,4-D)	78	-	-	-	5
Metolachlor	90	-	-	-	4
Simazine	90	-	-	-	3
Terbutylazine	90	-	-	-	6
Triclopyr	78	-	-	-	2
Other Herbicides	Up to 90	-	-	-	-
OCPs					
4,4-DDE	263	-	-	-	2
DDD	263	-	-	-	2
DDT	263	-	-	-	1
Dieldrin	263	-	-	-	3
Other OCPs	Up to 263	-	-	-	-
OPPs					
Chlorpyrifos	127	-	-	-	1
Ethoprop	90	-	1	-	1
Other OPPs	Up to 129	-	-	-	-
Pesticides					
Cypermethrins(total)	69	-	-	-	1
Piperonyl butoxide	69	-	1	-	1
Pirimiphos-methyl	90	-	-	-	1
Other Pesticides	Up to 129	-	-	-	-
Synthetic Pyrethroids					
Synthetic Pyrethroids	69	-	-	-	-
PAHs					
PAHs	Up to 153	-	-	-	-

Table 8-2: Summary of Sediment Sampling Results

Analyte	Number of samples analysed	Number of human health exceedances	Number of detects above LOR with no relevant human health criteria	Number of ecological exceedances	Number of detects above LOR with no relevant ecological criteria
Heavy Metals					
Arsenic	36	-	-	-	-
Cadmium	36	-	-	1	-
Chromium (total)	36	-	-	-	-
Cobalt	3	-	-	-	-
Copper	36	-	-	1	-
Lead	38	1	-	-	-
Mercury	36	-	-	2	-
Nickel	36	-	-	-	-
Selenium	3	-	-	-	-
Zinc	36	-	-	10	-
Petroleum Hydrocarbons					
TRH C6-C10	37	-	-	-	-
TRH C10-C16	37	-	-	-	-
TRHC16-C34	37	-	-	4	-
TRH C34-C40	37	-	-	-	-
TRH F1	37	1	-	-	-
TRH F2	37	2	-	2	-
BTEX	37	-	-	-	-
Naphthalene	37	-	-	-	-
Fungicides					
Benomyl	21	-	-	-	2
Propiconazole	21	-	-	-	3
Tebuconazole	21	-	-	-	3
Other Fungicides	21	-	-	-	-
Herbicides					
Simazine	21	-	-	-	3
Terbutylazine	21	-	-	-	1
Other Herbicides	Up to 21	-	-	-	-
OCPs					
Chlordane	33	-	-	1	-
Other OCPs	Up to 36	-	-	-	-

Table 8-2: Summary of Sediment Sampling Results

Analyte	Number of samples analysed	Number of human health exceedances	Number of detects above LOR with no relevant human health criteria	Number of ecological exceedances	Number of detects above LOR with no relevant ecological criteria
OPPs					
OPPs	Up to 36	-	-	-	-
Pesticides					
Pirimiphos-methyl	21	-	-	-	1
Other Pesticides	Up to 36	-	-	-	-
Synthetic Pyrethroids					
Synthetic Pyrethroids	Up to 7	-	-	-	-
PAHs					
PAHs	3	-	-	-	-

Note: “-” indicates zero

Table 8-3: Summary of Surface Water Sampling

	Number of samples analysed	Number of human health exceedances	Number of detects above LOR with no relevant human health criteria	Number of ecological exceedances	Number of detects above LOR with no relevant ecological criteria
Heavy Metals					
Arsenic	36	-	-	-	-
Cadmium	36	-	-	-	-
Chromium (total)	36	-	-	10	-
Cobalt	10	-	-	0	-
Copper	36	-	-	29	-
Lead	36	-	-	2	-
Mercury	36	-	-	-	-
Nickel	36	-	-	-	-
Selenium	10	-	-	-	-
Zinc	36	-	-	26	-
Petroleum Hydrocarbons					
TRH C6-C10	37	1	-	3	-
TRH C10-C16	37	2	-	2	-
TRHC16-C34	37	2	-	2	-
TRH C34-C40	37	1	-	1	-

Table 8-3: Summary of Surface Water Sampling

	Number of samples analysed	Number of human health exceedances	Number of detects above LOR with no relevant human health criteria	Number of ecological exceedances	Number of detects above LOR with no relevant ecological criteria
TRH F1	37	1	-	-	-
TRH F2	37	2	-	-	-
Benzene	37	-	-	-	-
Toluene	37	-	-	1	-
Ethylbenzene	37	-	-	1	-
Xylene (total)	35	-	-	1	-
Naphthalene	37	2	-	2	-
Fungicides					
Benomyl	30	-	-	-	1
Cyproconazole	30	1	-	-	1
Difenoconazole	30	-	-	-	1
Propiconazole	30	1	-	-	1
Tebuconazole	30	1	-	-	1
Other Fungicides	30	-	-	-	-
Herbicides					
Ametryn	30	-	-	-	1
Atrazine	30	1	-	1	-
Diuron	30	1	-	1	-
Fluometuron	30	1	-	-	1
Metolachlor	27	-	-	1	-
Metribuzin	27	-	-	1	-
Simazine	30	1	-	1	-
Terbutryn	30	-	-	-	1
Terbutylazine	30	1	-	-	3
Other Herbicides	Up to 30	-	-	-	-
OCPs					
4,4-DDE	36	-	-	1	-
DDD	36	-	-	1	-
Endosulfan	30	1	-	1	-
Endosulfan sulphate	36	-	-	1	-
Other OCPs	Up to 33	-	-	-	-
OPPs					

Table 8-3: Summary of Surface Water Sampling

	Number of samples analysed	Number of human health exceedances	Number of detects above LOR with no relevant human health criteria	Number of ecological exceedances	Number of detects above LOR with no relevant ecological criteria
Chlorpyrifos	36	1	-	1	-
Other OPPs	Up to 36	-	-	1	-
Pesticides					
Cyromazine	30	-	-	-	2
Formothion	4	1	-	-	1
Other Pesticides	Up to 34	-	-	-	-
Synthetic Pyrethroids					
Synthetic Pyrethroids	6	-	-	-	-
PAHs					
PAHs	2	-	-	-	-
Nutrients					
Nitrogen (total oxidised)	18	13	-	13	-
Nitrogen (total)	19	-	19	19	-
Phosphorus (as P)	19	-	18	18	-

Table 8-4: Summary of Groundwater Sampling

Analyte	Number of samples analysed	Number of human health exceedances	Number of detects above LOR with no relevant human health criteria	Number of ecological exceedances	Number of detects above LOR with no relevant ecological criteria
Heavy Metals					
Arsenic	25	-	-	-	-
Cadmium	25	-	-	1	-
Chromium (total)	30	-	-	18	-
Cobalt	3	-	-	-	-
Copper	30	1	-	23	-
Lead	38	-	-	2	-
Mercury	25	-	-	1	-
Nickel	30	8	-	15	-
Selenium	3	-	-	-	-
Zinc	31	-	-	25	-

Table 8-4: Summary of Groundwater Sampling

Analyte	Number of samples analysed	Number of human health exceedances	Number of detects above LOR with no relevant human health criteria	Number of ecological exceedances	Number of detects above LOR with no relevant ecological criteria
Petroleum Hydrocarbons					
TRH C6-C10	33	-	-	-	-
TRH C10-C16	33	-	-	-	-
TRHC16-C34	33	-	-	-	-
TRH C34-C40	33	-	-	-	-
TRH F2	32	-	-	-	-
BTEX	33	-	-	-	-
Naphthalene	33	-	-	-	-
Fungicides					
Fungicides	16	-	-	-	-
Herbicides					
2,6-D	3	1	-	-	-
Other Herbicides	Up to 16	-	-	-	-
OCPs					
OCPs	Up to 25	-	-	-	-
OPPs					
OPPs	Up to 24	-	-	-	-
Pesticides					
Pesticides	Up to 23	-	-	-	-
Synthetic Pyrethroids					
Synthetic Pyrethroids	5	-	-	-	-
PAHs					
PAHs/Phenols	Up to 11	-	-	-	-
Nutrients					
Nitrogen (total oxidised)	15	14	-	14	-
Nitrogen (total)	16	15	-	15	-
Phosphorus (as P)	21	16	-	16	-