
APPENDIX D
WATER QUALITY AND BED SEDIMENT MONITORING
RESULTS

19/05/2003

Report No. 116317

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**Analytical Services
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PAUL ANINK - MARINE POLLUTION RESEARCH PTY LTD
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PO BOX 279
CHURCH POINT NSW 2105

*Water Samples
(Dry Weather)*

Comments for Sample 203032951
PC: confirmed

Sample ID	Client ID.	Sampled	Received	Authorised	Comments
203032950	FC1 SB US	29/04/03	29/04/03	16/05/2003	
203032951	FC2 SB DS	29/04/03	29/04/03	16/05/2003	
203032952	FC3 S11	29/04/03	29/04/03	16/05/2003	

Sample ID	203032950	203032951	203032952
Analyte	Method	Unit	SBUS SBDS
QC Analyte	MIQC		DONE DONE DONE
QC Analyte	NUQC		NU03/82 NU03/82 NU03/82
QC Analyte for organics	WTCQC		60601 60601 60601
QC Analyte	WCQC		2805 2805 2805
Faecal Coliform	MI01	CFU/100mL	~190 ~900 ~1100
Ammonia Nitrogen NH3-N	NU40	mg/L	0.02 0.02 0.03
Oxidised Nitrogen NOx-N	NU43	mg/L	0.28 0.20 0.15
Nitrate NO3-N Calculated	NU49	mg/L	0.27 0.19 0.14
Sol.React.Phosphorus	NU54	mg/L	0.006 0.021 0.021
Tot. Kjel. Nitrogen	NU23	mg/L	0.36 0.45 0.34
Total Nitrogen	NU57	mg/L	0.64 0.65 0.69
Total Phosphorus	NU37	mg/L	0.027 0.054 0.067
PK. Total Phosph.	NU60	mg/L	0.009 0.041 0.033
Hardness as CaCO3	WCO2	mgCaCO3/L	49.0 55.0 58.0
Oil & Grease	WC25NS	mg/L	<3 <3 <3
Suspended Solids	WC4NS	mg/L	31 19 15
Total Dissolved Solids	WC8NS	mg/L	213.0 206.0 233.0
Total Phenol	WC7INS	mg/L	0.2 <0.1 <0.1
Digestion Charge	WTMHTHRUPUT	DONE	1 1 1
QC Analyte	WTMQC		1750 1750 1750
Total Mercury	WTM01TU	ug/L	<0.1 <0.1 <0.1
Total Chromium	WTM30TUH	ug/L	<10 <10 <10
Total Copper	WTM56TUH	ug/L	<2 3 3
Total Zinc	WTM30TUH	ug/L	32 33 36
Total Arsenic	WTM30TUH	ug/L	<20 <20 <20
Total Lead	WTM56TUH	ug/L	1 1 3
alpha-BHC	WTC001/HL	ug/L	<0.1 <0.1 <0.1
hexachlorobenzene	WTC001/HL	ug/L	<0.1 <0.1 <0.1
beta-BHC	WTC001/HL	ug/L	<0.1 <0.1 <0.1
Lindane (gamma-BHC)	WTC001/HL	ug/L	<0.1 <0.1 <0.1
delta-BHC	WTC001/HL	ug/L	<0.1 <0.1 <0.1
Heptachlor	WTC001/HL	ug/L	<0.1 <0.1 <0.1
Aldrin	WTC001/HL	ug/L	<0.1 <0.1 <0.1

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Sample ID	Method	Unit	203032980	203032981	203032982
Analyte			S8DS	S8DS	
Heptachlor epoxide	WTC001/HL	ug/L	<0.1	<0.1	<0.1
Endosulfan (alpha isomer)	WTC001/HL	ug/L	<0.1	<0.1	<0.1
Dieldrin	WTC001/HL	ug/L	<0.1	<0.1	<0.1
4,4-DDE	WTC001/HL	ug/L	<0.1	<0.1	<0.1
Endrin	WTC001/HL	ug/L	<0.1	<0.1	<0.1
beta Endosulfan	WTC001/HL	ug/L	<0.1	<0.1	<0.1
4,4-DDD	WTC001/HL	ug/L	<0.1	<0.1	<0.1
4,4-DDT	WTC001/HL	ug/L	<0.1	<0.1	<0.1
Methoxychlor	WTC001/HL	ug/L	<0.1	<0.1	<0.1
o-Chlordane	WTC001/HL	ug/L	<0.1	<0.1	<0.1
p-Chlordane	WTC001/HL	ug/L	<0.1	<0.1	<0.1
otal Detectable TDPAH	WTC004/HL	ug/L	<1	<1	<1
Naphthalene	WTC004/HL	ug/L	<1	<1	<1
Acenaphthene	WTC004/HL	ug/L	<1	<1	<1
Fluorene	WTC004/HL	ug/L	<1	<1	<1
Phenanthrene	WTC004/HL	ug/L	<1	<1	<1
Anthracene	WTC004/HL	ug/L	<1	<1	<1
Fluoranthene	WTC004/HL	ug/L	<1	<1	<1
Pyrene	WTC004/HL	ug/L	<1	<1	<1
Benzo(a)anthracene	WTC004/HL	ug/L	<1	<1	<1
Chrysene	WTC004/HL	ug/L	<1	<1	<1
Benzo(a)pyrene	WTC004/HL	ug/L	<1	<1	<1
Benzo(b)fluoranthene	WTC004/HL	ug/L	<1	<1	<1
Benzo(k)fluoranthene	WTC004/HL	ug/L	<1	<1	<1
Benzo(a)pyrene	WTC004/HL	ug/L	<1	<1	<1
Dibenz(a,h)anthracene	WTC004/HL	ug/L	<1	<1	<1
Benzo(ghi)perylene	WTC004/HL	ug/L	<1	<1	<1
Indeno-123-CD-pyrene	WTC004/HL	ug/L	<1	<1	<1
Dichlorvos	WTC017/HL	ug/L	<1	<1	<1
Demeton-S-Methyl	WTC017/HL	ug/L	<1	<1	<1
Imidacloprid	WTC017/HL	ug/L	<1	<1	<1
Dimethoate	WTC017/HL	ug/L	<1	<1	<1
Disulfoton	WTC017/HL	ug/L	<1	<1	<1
Ethyl chlorpyrifos	WTC017/HL	ug/L	<1	<1	<1
E.P.N	WTC017/HL	ug/L	<1	<1	<1
Ethopropos	WTC017/HL	ug/L	<1	<1	<1
Fenathrothion	WTC017/HL	ug/L	<1	<1	<1
Fenitrothion	WTC017/HL	ug/L	<1	<1	<1
Fenprophos	WTC017/HL	ug/L	<1	<1	<1
Hexachlorocyclopentadiene	WTC017/HL	ug/L	<1	<1	<1
Methyl chlorpyrifos	WTC017/HL	ug/L	<1	<1	<1
Methidathion	WTC017/HL	ug/L	<1	<1	<1
Methyl azinphos	WTC017/HL	ug/L	<1	<1	<1
Mevinphos	WTC017/HL	ug/L	<1	<1	<1
Parathion	WTC017/HL	ug/L	<1	<1	<1
Phospholan	WTC017/HL	ug/L	<1	<1	<1

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Sample ID			203032860	203032861	203032862
Analyte	Method	Unit	S805	S8DS	
Trithion	WTC017/HL	ug/L	<1	<1	<1

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PAUL ANENK - MARINE POLLUTION RESEARCH PTY LTD
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*Sediment
Samples*

Sample ID	Client ID	Sampled	Received	Authorised	Comments
203033426	FC1 <i>SBUS</i>	28/04/03	01/05/03	16/05/2003	
203033427	FC2 <i>SBDS</i>	28/04/03	01/05/03	16/05/2003	
203033428	FC3 <i>S11</i>	28/04/03	01/05/03	16/05/2003	

Sample ID	203033426	203033427	203033428
Analyte	Method	Unit	<i>SBUS</i> <i>SBDS</i>
Site sent to external lab	CLTEST		7/5/03 7/5/03 7/5/03
Total Phenolics in Sell	XPhenolics	mg/kg	0.0 2.6 0.8
Digestion Charge	WTMBOMB	DONE	1 1 1
Total Mercury	WTM01MKG	mg/kg	<0.01 0.02 0.02
Total Chromium	WTM50MKG	mg/kg	5.2 4.8 4.7
Total Copper	WTM50MKG	mg/kg	3.7 12.3 7.8
Total Zinc	WTM50MKG	mg/kg	8 79 109
Total Arsenic	WTM50MKG	mg/kg	<1 3 2
Total Lead	WTM50MKG	mg/kg	<5 25 20
alpha BHC	WTC001/SDLL	ug/kg	<5 <5 <5
hexachlorobenzene	WTC001/SDLL	ug/kg	<5 <5 <5
beta BHC	WTC001/SDLL	ug/kg	<5 <5 <5
Lindane (gamma BHC)	WTC001/SDLL	ug/kg	<5 <5 <5
delta BHC	WTC001/SDLL	ug/kg	<5 <5 <5
Heptachlor	WTC001/SDLL	ug/kg	<5 <5 <5
Aldrin	WTC001/SDLL	ug/kg	<5 <5 <5
Heptachlor epoxide	WTC001/SDLL	ug/kg	<5 <5 <5
Endosulfan (alpha isomer)	WTC001/SDLL	ug/kg	<5 <5 <5
Dieldrin	WTC001/SDLL	ug/kg	<5 7 <5
4-DDT	WTC001/SDLL	ug/kg	<5 8 <5
Endrin	WTC001/SDLL	ug/kg	<5 <5 <5
beta Endosulfan	WTC001/SDLL	ug/kg	<5 <5 <5
1,4-DDD	WTC001/SDLL	ug/kg	<5 <5 <5
1,4-DDT	WTC001/SDLL	ug/kg	<5 <5 <5
Methoxychlor	WTC001/SDLL	ug/kg	<5 <5 <5
p-Chloridane	WTC001/SDLL	ug/kg	<5 <5 <5
m-Chloridane	WTC001/SDLL	ug/kg	<5 <5 <5
Total Detectable TDPAN	WTC004/SDHL	ug/kg	<100 <100 245
naphthalene	WTC004/SDHL	ug/kg	<100 <100 <100
1-acenaphthylene	WTC004/SDHL	ug/kg	<100 <100 <100
1-acenaphthene	WTC004/SDHL	ug/kg	<100 <100 <100
fluorene	WTC004/SDHL	ug/kg	<100 <100 <100
fluoranthene	WTC004/SDHL	ug/kg	<100 <100 <100
anthracene	WTC004/SDHL	ug/kg	<100 <100 <100
fluoranthene	WTC004/SDHL	ug/kg	<100 <100 120
pyrene	WTC004/SDHL	ug/kg	<100 <100 125

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Sample ID	Method	Unit	58 US	58 DS	20303428	20303427	20303428
Analyte							
Chrysenes	WTC004/SDHL	ug/kg	<100	<100	<100		
Benzo(b)fluoranthene	WTC004/SDHL	ug/kg	<100	<100	<100		
Benzo(k)fluoranthene	WTC004/SDHL	ug/kg	<100	<100	<100		
Benzo(a)pyrene	WTC004/SDHL	ug/kg	<100	<100	<100		
Benzo(a)pyrene	WTC004/SDHL	ug/kg	<100	<100	<100		
Perylene	WTC004/SDHL	ug/kg	<100	<100	<100		
Benzo(a)anthracene	WTC004/SDHL	ug/kg	<100	<100	<100		
Indeno-123-CD-pyrene	WTC004/SDHL	ug/kg	<100	<100	<100		
Dibenz(a,h)anthracene	WTC004/SDHL	ug/kg	<100	<100	<100		
Benzo(ghi)perylene	WTC004/SDHL	ug/kg	<100	<100	<100		
2-Chlorophenol	WTC005/SDLL	ug/kg	<10	<10	<10		
4-Dichlorophenol	WTC005/SDLL	ug/kg	<10	<10	<10		
2,4,6-Trichloro Phenol	WTC005/SDLL	ug/kg	<10	<10	<10		
4-chloro 3-methyl Phenol	WTC005/SDLL	ug/kg	<10	<10	<10		
Pentachloro Phenol	WTC005/SDLL	ug/kg	<10	<10	<10		
PCPESOL	WTC005/SDLL	ug/kg	<10	<10	<10		
MCPESOL	WTC005/SDLL	ug/kg	<10	<10	<10		
OCRESOL	WTC005/SDLL	ug/kg	<10	<10	<10		
Phenol	WTC005/SDLL	ug/kg	<10	<10	<10		
2,4-Dimethyl phenol	WTC005/SDLL	ug/kg	<10	<10	<10		

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FERN CK WET WEATHER

24/05/2003

Report No. 116500

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PAUL ANINK - MARINE POLLUTION RESEARCH PTY LTD
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CHURCH POINT NSW 2105

Water Samples
(Wet weather)

Comments for Sample 203037203
FC: confirmed

Comments for Sample 203037843
FC: confirmed

Comments for Sample 203037844
FC: confirmed

Sample ID	Client ID	Sampled	Received	Authorized	Comments
203037198	FC1/R SBUS	13/05/03	15/05/03	23/05/2003	rising limb
203037199	FC2/R SBDS	13/05/03	15/05/03	23/05/2003	rising limb
203037200	FC3/R	13/05/03	15/05/03	23/05/2003	
203037201	FC1/F	15/05/03	15/05/03	23/05/2003	
203037202	SB/F SBIS	15/05/03	15/05/03	23/05/2003	rising limb
203037203	FC2/F SBDS	15/05/03	15/05/03	23/05/2003	falling limb
203037204	FC3/F	15/05/03	15/05/03	23/05/2003	
203037842	FC1/F SBUS	16/05/03	16/05/03	23/05/2003	falling limb
203037843	SB/F SBIS	16/05/03	16/05/03	23/05/2003	falling limb
203037844	FC2/F	16/05/03	16/05/03	23/05/2003	
203037845	FC3/F	16/05/03	16/05/03	23/05/2003	

Sample ID	203037198		203037199		203037200		203037201	
Analyte	Method	Unit	FC1 SBUS RISE	FC2 SBDS RISE	FC3	FC1		
Tot. Kjeld. Nitrogen	NU23	mg/L	0.52	0.56	0.83		0.85	
QC Analyte	NUQC		NU03/101	NU03/101	NU03/101		NU03/101	
C Analyte	WCQC		2822	2822	2822		2822	
QC Analyte	MIQC		-	-	-		done	
Faecal Coliform	MI01	CFU/100mL	-	-	-		490	
Ammonia Nitrogen NH3-N	NU40	mg/L	0.03	0.03	0.03		0.06	
Oxidised Nitrogen NOx-N	NU43	mg/L	0.13	0.08	0.06		0.13	
Nitrate NO3-N Calculated	NU49	mg/L	0.12	0.08	0.06		0.12	
Soluble Reactive Phosphorus	NU54	mg/L	0.009	0.013	0.012		0.016	
Total Nitrogen	NU57	mg/L	0.65	0.64	0.89		0.98	
Total Phosphorus	NU57	mg/L	0.100	0.160	0.240		0.160	
FIL Total Phosph.	NU60	mg/L	0.013	0.016	0.016		0.024	
Suspended Solids	WC44NS	mg/L	164	150	209		239	
Total Dissolved Solids	WC62NS	mg/L	226.0	165.0	329.0		182.0	

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FERN CREEK NET WEATHER

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Sample ID			203037202	FALL 203037203	203037204	FALL 203037205
Analyte	Method	Unit	LISE S8IS	FC2/F S8DS	FC3/F	FC1/F S8US
Tot. Kjehl. Nitrogen	NU23	mg/L	2.40	0.91	0.94	0.70
DO Analyte	MIQC		done	done	done	DONE
DO Analyte	NUQC		NU03/101	NU03/101	NU03/101	NU03/100
DO Analyte	WCQC		2822	2822	2822	2823
Faecal Coliform	MD01	CFU/100mL	~1500	~1000	~940	2300
Ammonia Nitrogen NH3-N	NU40	mg/L	0.07	0.04	0.05	0.18
Oxidised Nitrogen NOx-N	NU43	mg/L	5.40	0.30	0.31	0.14
Nitrate NO3-N Calculated	NU49	mg/L	5.33	0.29	0.30	0.13
tot. React. Phosphorus	NU54	mg/L	2.74	0.055	0.064	0.015
Total Nitrogen	NU57	mg/L	7.80	1.21	1.25	0.84
Total Phosphorus	NU57	mg/L	2.90	0.160	0.160	0.121
lit. Total Phosph.	NU60	mg/L	2.86	0.075	0.086	0.021
Suspended Solids	WC44NS	mg/L	3	64	56	160
Total Dissolved Solids	WC62NS	mg/L	204.0	144.0	143.0	158.0

Sample ID			203037243	FALL 203037244	203037245
Analyte	Method	Unit	S8IS	FC2/F	FC3/F
Tot. Kjehl. Nitrogen	NU23	mg/L	2.60	0.79	0.81
DO Analyte	MIQC		DONE	DONE	DONE
DO Analyte	NUQC		NU03/100	NU03/100	NU03/100
DO Analyte	WCQC		2823	2823	2823
Faecal Coliform	MD01	CFU/100mL	~810	2000	320
Ammonia Nitrogen NH3-N	NU40	mg/L	0.18	0.07	0.03
Oxidised Nitrogen NOx-N	NU43	mg/L	4.40	0.36	0.38
Nitrate NO3-N Calculated	NU49	mg/L	4.37	0.35	0.37
tot. React. Phosphorus	NU54	mg/L	2.35	0.064	0.070
Total Nitrogen	NU57	mg/L	7.00	1.15	1.19
Total Phosphorus	NU57	mg/L	2.82	0.153	0.174
lit. Total Phosph.	NU60	mg/L	2.70	0.088	0.094
Suspended Solids	WC44NS	mg/L	<2	53	48
Total Dissolved Solids	WC62NS	mg/L	201.0	150.0	151.0

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of 26/5/03

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*Water Sampling
(Dry)*

Comments for Sample 203052405
PC: confirmed

Comments for Sample 203052406
PC: confirmed

Comments for Sample 203052408
Sample returned 02/07/2003

Comments for Sample 203052411
PC: confirmed

Sample ID	Client ID	Sampled	Received	Authorised	Comments
203052405	PC1 S8 US	01/07/03	01/07/03	17/07/2003	
203052406	PC2 S8 DS	01/07/03	01/07/03	17/07/2003	
203052407	PC3	01/07/03	01/07/03	17/07/2003	
203052408	NC1	01/07/03	01/07/03	17/07/2003	
203052409	S1	01/07/03	01/07/03	17/07/2003	
203052410	NC3	01/07/03	01/07/03	17/07/2003	
203052411	S2	01/07/03	01/07/03	17/07/2003	
203052412	NC3	01/07/03	01/07/03	17/07/2003	

Sample ID	Method	Unit	203052405	203052406	203052407	203052408
Analyte			<i>S8US</i>	<i>S8DS</i>		
Total Nitrogen	NU76	mg/L	2.31	0.96	1.00	1.00
NO Analyte	MIQC		done	done	done	done
NO Analyte	NUQC		NU03/165	NU03/165	NU03/165	NU03/165
QC Analyte	WCQC		2868	2868	2868	2868
Faecal Coliform	M81	CFU/100mL	3400	2500	540	2500
Ammonia Nitrogen NH3-N	NU40	mg/L	0.06	0.15	0.15	0.04
Nitrate NO3-N Calculated	NU49	mg/L	0.47	0.25	0.26	0.51
Sol. React. Phosphorus	NU54	mg/L	0.007	0.004	0.010	0.026
Tot. Kjeld. Nitrogen	NU62	mg/L	1.81	0.69	0.72	0.48
Total Phosphorus	NU57	mg/L	0.334	0.071	0.078	0.128
Filt. Total Phosph.	NU80	mg/L	0.019	0.011	0.025	0.042
Suspended Solids	WC4NS	mg/L	418	60	9	30
Total Dissolved Solids	WC62NS	mg/L	273.0	231.0	202.0	129.0

Sample ID	Method	Unit	203052409	203052410	203052411	203052412
Analyte						
Total Nitrogen	NU76	mg/L	2.36	1.83	0.82	1.38
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Caitriona Forde
Customer Liaison Officer

Table 1 Sectors 8 ~~Wet~~ Wet Weather Sampling (Fern Creek); 15 & 16 May 2003

Site	Date	Time	Temp C	Cond us/cm	DO %sat	DO mg/l	PH pH	Turb ntu	Flow Monitoring			
									Depth cm	Rev's /min	Velocity m/sec	
Rising Limb***												
FC1	13/05/03	14:12	16.51	282	81.2	7.9	6.89	216.4	10	96.8	0.43	
FC2	13/05/03	14:36	16.31	309	82.8	8.1	7.25	397.2	15	*	*	
FC3	13/05/03	14:51	16.31	292	76.7	7.5	7.3	600	10	171.9	0.72	
Rising Limb												
FC1	15/05/03	14:12	16.84	137	86.8	8.4	6.33	71.1	25	142.9	0.6	
S8	15/05/03	14:26	18.22	234	62.4	5.9	7.16	5.3	5	*	*	
FC2	15/05/03	14:42	17.02	153	89.5	8.7	6.68	128	25	129.8	0.55	
FC3	15/05/03	15:11	17.04	159	88	8.5	6.67	123.9	10	199	0.82	
Falling Limb												
FC1	16/05/03	11:42	16.8	143	87.5	8.5	6.85	136.2	20	149.8	0.63	
S8	16/05/03	11:36	17.55	224	66.8	6.4	7.23	2.5	5	*	*	
FC2	16/05/03	12:05	16.86	160	88	8.5	6.81	130.5	22	320.8	1.29	
FC3	16/05/03	12:25	16.9	160	87.7	8.5	6.78	125.8	10	220.9	0.91	

Analyte Unit	FC µFU/100mL	TN mg/L	TKN mg/L	NH3 mg/L	NOx mg/L	NO2 mg/L	NO3 mg/L	SRP mg/L	TP mg/L	FTP mg/L	SS mg/L	TDS mg/L	
Rising Limb***													
FC1/R	13/05/2003	-	0.65	0.52	0.03	0.13	0.01	0.12	0.009	0.100	0.013	164	226.0
FC2/R	13/05/2003	-	0.64	0.56	0.03	0.08	0.00	0.08	0.013	0.160	0.016	150	165.0
FC3/R	13/05/2003		0.89	0.83	0.03	0.06	0.00	0.06	0.012	0.240	0.016	209	329.0
Rising Limb													
FC1/F	15/05/2003	490	0.98	0.85	0.06	0.13	0.01	0.12	0.016	0.160	0.024	239	182.0
S8/F	15/05/2003	~1500	7.80	2.40	0.07	5.40	0.05	5.35	2.74	2.90	2.86	3	204.0
FC2/F	15/05/2003	~1000	1.21	0.91	0.04	0.30	0.01	0.29	0.055	0.160	0.075	64	144.0
FC3/F	15/05/2003	940	1.25	0.94	0.05	0.31	0.01	0.30	0.064	0.160	0.086	56	143.0
Falling Limb													
FC1/F	16/05/2003	2300	0.84	0.70	0.18	0.14	0.01	0.13	0.015	0.121	0.021	160	158.0
S8/F	16/05/2003	~810	7.00	2.60	0.18	4.40	0.03	4.37	2.35	2.82	2.70	<2	201.0
FC2/F	16/05/2003	2000	1.15	0.79	0.07	0.36	0.01	0.35	0.064	0.153	0.088	53	150.0
FC3/F	16/05/2003	320	1.19	0.81	0.03	0.38	0.01	0.37	0.070	0.174	0.094	48	151.0

Note: *insufficient flow occurred during sample times

*** indicates the initial rising limb sample which was later abandoned due to F.Coli samples delivery status

Table 15 Sectors 8 ~~2001~~ Dry Weather Sampling (Fern Creek); 29 April 2003

Site	Time	Temp °c	Cond us/cm	DO %sat	DO mg/l	PH pH	Turb ntu	Depth cm	Flow Monitoring		SS mg/L	TDS mg/L
									Rev's Velocity /min	m/sec		
FC1	13:20	18.06	318	81.1	7.7	6.39	73.6	10	84	0.37		
FC2	13:59	17.82	316	81.9	7.8	6.9	71.7	12	*	*		
FC3	14:31	18.03	324	70.6	6.7	6.76	63.5	10	*	*		
Analytes	FC	TN	TKN	NH3	NOx-N	NO2	NO3	SRP	TP	FTP	SS	TDS
Units	U/100mL	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
FC1	~190	0.64	0.36	0.02	0.28	0.01	0.27	0.006	0.027	0.009	31	213.0
FC2	~900	0.65	0.45	0.02	0.20	0.01	0.19	0.021	0.054	0.041	19	206.0
FC3	~1400	0.69	0.54	0.03	0.15	0.01	0.14	0.021	0.067	0.033	15	233.0

Table 16 Sectors 8 ~~2001~~ Dry Weather Sampling (Fern Creek); 1 July 2003

Site	Time	Temp °c	Cond us/cm	DO %sat	DO mg/l	PH pH	Turb ntu	Depth cm	Flow Monitoring		SS mg/L	TDS mg/L
									Rev's Velocity /min	m/sec		
FC1	11:08	11.9	208	88.5	9.6	7.08	600	5	*	*		
FC2	11:24	13.02	330	72.2	7.6	6.83	164.8	15	*	*		
FC3	11:42	12.81	319	52.6	5.6	6.85	29.6	10	*	*		
Analytes	FC	TN	TKN	NH3	NOx-N	NO2	NO3	SRP	TP	FTP	SS	TDS
Units	U/100mL	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
FC1	3400	2.31	1.81	0.06	0.50	0.03	0.47	0.007	0.334	0.019	418	273.0
FC2	2500	0.96	0.69	0.15	0.27	0.02	0.25	0.004	0.071	0.011	60	231.0
FC3	540	1.00	0.72	0.15	0.28	0.02	0.26	0.010	0.078	0.025	9	208.0

Note *Insufficient water flow occurred during sample times



Sector 8 Sediment Sampling (Fern Creek) - 15 February 2002

Site Analytes	Units	Upstream Site	Garden Street Site
Tot Phl	mg/kg		
PAH	ug/kg	1090	493
Hg	mg/kg	0.02	0.02
As	mg/kg	3	2
Cr	mg/kg	11.4	8.7
Cu	mg/kg	3.6	4.2
Pb	mg/kg	9	22
Zn	mg/kg	30	140
4,4-DDD	ug/kg	<5	<5
4,4-DDE	ug/kg	<5	<5
4,4-DDT	ug/kg	<5	<5
aBHC	ug/kg	<5	<5
Achlord	ug/kg	<5	<5
Aendosf	ug/kg	<5	<5
Aldrin	ug/kg	<5	<5
BBHC	ug/kg	<5	<5
Bendosf	ug/kg	<5	<5
DBHC	ug/kg	<5	<5
Dieldri	ug/kg	<5	<5
Endrin	ug/kg	<5	<5
Gchlord	ug/kg	<5	<5
HCB	ug/kg	<5	<5
Heptchl	ug/kg	<5	<5
HeptEpo	ug/kg	<5	<5
Lindane	ug/kg	<5	<5
Methchl	ug/kg	<5	<5



Sector 8 Dry Weather metal & Organics Results; 15 February 2002 (Cont'd)

Site Analytes	Units	Upstream Site	Garden Street Site
PEN	ug/L	<1	<1
Ehtopro	ug/L	<1	<1
Fenitro	ug/L	<1	<1
Fensulf	ug/L	<1	<1
Fenthio	ug/L	<1	<1
Fonos	ug/L	<1	<1
Isazoph	ug/L	<1	<1
Malathi	ug/L	<1	<1
Mazphos	ug/L	<1	<1
Mclpfos	ug/L	<1	<1
Mevphos	ug/L	<1	<1
Parathi	ug/L	<1	<1
Phospho	ug/L	<1	<1
Trthion	ug/L	<1	<1



Sector 8 Dry Weather metal & Organics Results; 15 February 2002 (Cont'd)

Site Analytes	Units	Upstream Site	Garden Street Site
GChlord	ug/L	<0.1	<0.1
HCb	ug/L	<0.1	<0.1
Heptchl	ug/L	<0.1	<0.1
HeptEpo	ug/L	<0.1	<0.1
Lindane	ug/L	<0.1	<0.1
Methchl	ug/L	<0.1	<0.1
Acenten	ug/L	<1	<1
Anthrac	ug/L	<1	<1
B(A)ant	ug/L	<1	<1
B(A)Pyr	ug/L	<1	<1
B(B)Flu	ug/L	<1	<1
B(E)Pyr	ug/L	<1	<1
B(GHI)P	ug/L	<1	<1
B(K)Flu	ug/L	<1	<1
Chrysen	ug/L	<1	<1
D(AH)an	ug/L	<1	<1
Fluoren	ug/L	<1	<1
1-123CD	ug/L	<1	<1
Naphtha	ug/L	<1	<1
Phenant	ug/L	<1	<1
Pyrene	ug/L	<1	<1
Dclvos	ug/L	<1	<1
Dm-S-Me	ug/L	<1	<1
Diazino	ug/L	<1	<1
Dimeth	ug/L	<1	<1
Disulfo	ug/L	<1	<1
ECIpfos	ug/L	<1	<1



Sector 8 – Dry Weather Sampling Results for 18 February 2002

Parameter	Units	Upstream Site	Garden Street Site
Time	Hours	13:50	13:56
Temperature	°C	20.4	20.6
Conductivity	µs/cm	303	302
Dissolved Oxygen	% Saturation	62.7	53
	mg/L	5.6	4.8
PH	pH	6.78	6.51
Turbidity	Ntu	3.9	5.6
Flow Depth	cm	20	12
Faecal coliform	cfu/100mL	160	360
Total Nitrogen	mg/L	0.83	1.07
Total Kjeldahl Nitrogen	mg/L	0.67	0.54
NH ₃ -N	mg/L	0.03	0.05
No _x -N	mg/L	0.16	0.53
NO ₂	mg/L	0.16	0.52
NO ₃	mg/L	0.03	0.05
SRP	mg/L	0.003	0.008
Total Phosphorus	mg/L	0.024	0.047
FTP	mg/L	0.010	0.026
Suspended Solids	mg/L	5	3
Total Dissolved Solids	mg/L	244	239



Sector 8 Dry Weather metal & Organics Results; 15 February 2002

Site Analytes	Units	Upstream Site	Garden Street Site
Hardness	mgCaCO	49.5	74.0
Oil/Grease	mg/L	<3	<3
Tot Phen	mg/L	<0.1	<0.1
PAH	ug/L	<1	<1
Hg	ug/L	<0.1	<0.1
As	ug/L	<20	<20
Cr	ug/L	<10	<10
Cu	ug/L	10	13
Pb	ug/L	<20	<20
Zn	ug/L	25	116
4,4-DDD	ug/L	<0.1	<0.1
4,4-DDE	ug/L	<0.1	<0.1
4,4-DDT	ug/L	<0.1	<0.1
aBHC	ug/L	<0.1	<0.1
AChlord	ug/L	<0.1	<0.1
AEndosf	ug/L	<0.1	<0.1
Aldrin	ug/L	<0.1	<0.1
BBHC	ug/L	<0.1	<0.1
BEndosf	ug/L	<0.1	<0.1
DBHC	ug/L	<0.1	<0.1
Dieldri	ug/L	<0.1	<0.1
Endrin	ug/L	<0.1	<0.1



Sector 8 Wet Weather Sample (Fern Creek) – 1 February 2002

Parameter	Units	Upstream Site	Garden Street Site
Time		11.59	12.15
Temp	°C	22.33	22.29
Cond	us/cm	67	76
DO	%sat	73.7	60
	mg/l	6.4	5.2
pH	pH units	7.00	6.73
Turb	ntu	35.1	60.9
Depth	cm	10	10
F.C	cfu/100ml	140,000	37,000
TN	mg/L	0.96	2.27
TKN	mg/L	0.72	1.56
NH3-N	mg/L	0.01	0.29
NO _x -N	mg/L	0.24	0.71
NO2	mg/L	0.006	0.029
NO3	mg/L	0.23	0.68
SRP	mg/L	0.102	0.187
TP	mg/L	0.147	0.299
FTP	mg/L	0.121	0.208
SS		18	12
TDS		85.0	59.0



Sector 8 - Dry Weather Sampling Results for 25 September 2001

Parameter	Units	Upstream Site	Garden Street Site
Time	Hours	17:24	17:48
Temperature	°C	17.2	17.5
Conductivity	µs/cm	497	300
Dissolved Oxygen	% Saturation	5.2	19.7
	mg/L	0.5	1.9
PH	pH	5.04	6.41
Turbidity	Ntu	8.3	14.8
Flow Depth	cm	15	12
Faecal coliform	cfu/100mL	22	120
Total Nitrogen	mg/L	0.20	0.82
Total Kjeldahl Nitrogen	mg/L	0.20	0.76
NH ₃ -N	mg/L	0.16	0.25
No _x -N	mg/L	<0.01	0.06
NO ₂	mg/L	<0.001	0.008
NO ₃	mg/L	<0.01	0.05
SRP	mg/L	0.002	0.011
Total Phosphorus	mg/L	0.021	0.299
Suspended Solids	mg/L	15	34
Total Dissolved Solids	mg/L	354	201