

Client Electricity Supply Board
Project ESB Great Island
Location ESB Great Island
Job Number 49341640
Table 7: Asbestos Identification Results - Soil

Sample Location	Depth Sampled (m)	Material Sampled	Asbestos Detected / Type
TP101		Soil	No asbestos detected
TP102		Soil	No asbestos detected
TP103		Soil	No asbestos detected
TP104		Soil	No asbestos detected
TP105		Soil	No asbestos detected
TP106		Soil	No asbestos detected
TP108		Soil	No asbestos detected
TP109		Soil	No asbestos detected
TP110		Soil	No asbestos detected
TP111		Soil	No asbestos detected
TP112		Soil	No asbestos detected
TP113		Soil	No asbestos detected
TP114		Soil	No asbestos detected
TP115		Soil	No asbestos detected
TP116		Soil	No asbestos detected
TP117		Soil	No asbestos detected
BH201		Soil	No asbestos detected
BH204		Soil	No asbestos detected
BH205		Soil	No asbestos detected
BH207		Soil	No asbestos detected
HA01		Soil	No asbestos detected
HA02		Soil	No asbestos detected
HA03		Soil	No asbestos detected
HA04		Soil	No asbestos detected
HA05		Soil	No asbestos detected
HA06		Soil	No asbestos detected
HA08		Soil	No asbestos detected
HA09		Soil	No asbestos detected
HA10		Soil	No asbestos detected
HA11		Soil	No asbestos detected
QA01		Soil	No asbestos detected
QA02		Soil	No asbestos detected

Note: Detection limit <0.01 %

Client ESB
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 Table 8 : Hydrocarbon Laboratory Results - Sediment

							Sed	Sed	Sed	Sed	Sed	Sed
Sample Type							SS01	SS02	SS03	SS04	SS10	SS12
Sample ID							Surface	Surface	Surface	Surface	Surface	Surface
Depth							06-Oct-08	06-Oct-08	06-Oct-08	06-Oct-08	01-Oct-08	01-Oct-08
Date												
Parameters	Units	MDL	Human Health GAC Soil	Controlled Water GAC - Soil	Dutch - Screening (S) Value	Dutch - Intervention (I) Value						
Aromatics												
TPH (>EC6-7) aromatic	mg/kg	0.01	3100	0.341	nv	nv	-	-	-	-	-	-
TPH (>EC7-8) aromatic	mg/kg	0.01	3,200	0.429	nv	nv	-	-	-	-	-	-
TPH (>EC8-10) aromatic	mg/kg	0.01	1,100	0.541	nv	nv	-	-	-	-	-	-
TPH (>EC10-12) aromatic	mg/kg	0.01	45,000	0.855	nv	nv	-	-	-	-	-	-
TPH (>EC12-16) aromatic	mg/kg	0.1	73,000	1.71	nv	nv	1.94	2.10	2.15	1.45	0.19	0.14
TPH (>EC16-21) aromatic	mg/kg	0.1	57,000	5.39	nv	nv	1.03	0.77	0.82	0.71	0.18	0.16
TPH (>EC21-35) aromatic	mg/kg	0.1	57,000	42.8	nv	nv	-	0.11	0.11	-	-	-
Total Aromatics	mg/kg	0.1	nv	nv	nv	nv	2.97	2.98	3.08	2.16	0.37	0.25
Aliphatics												
TPH (>EC5-6) aliphatic	mg/kg	0.01	1,000	0.320	nv	nv	-	-	-	-	-	-
TPH (>EC6-8) aliphatic	mg/kg	0.01	2,800	1.43	nv	nv	-	-	-	-	-	-
TPH (>EC8-10) aliphatic	mg/kg	0.01	230,000	10.9	nv	nv	-	-	-	-	-	-
TPH (>EC10-12) aliphatic	mg/kg	0.01	150,000	85.6	nv	nv	-	-	-	-	-	-
TPH (>EC12-16) aliphatic	mg/kg	0.1	180,000	1,705	nv	nv	-	-	-	-	-	-
TPH (>EC16-21) aliphatic	mg/kg	0.1	IR	214,533	nv	nv	-	-	-	-	-	-
TPH (EC21-35) aliphatic	mg/kg	0.1	nv	2,580,630	nv	nv	205.47	61.19	62.44	-	-	-
Total Aliphatics (MO)	mg/kg	0.1	nv	nv	50	5,000	205.47	61.19	62.44	-	-	-
Total TPH	mg/kg	0.1	nv	nv	nv	nv	208.43	64.17	65.52	2.16	0.37	0.25
BTEX												
Benzene	mg/kg	0.01	7	0.0047	0.01	1	-	-	-	-	-	-
Toluene	mg/kg	0.01	680	0.05	0.01	130	-	-	-	-	-	-
Ethylbenzene	mg/kg	0.01	48,000	0.15	0.03	50	-	-	-	-	-	-
Total Xylene	mg/kg	0.01	1,500	0.15	0.1	25	-	-	-	-	-	-
BTEX	mg/kg	-	nv	nv	nv	nv	-	-	-	-	-	-
MTBE	mg/kg	0.01	3,800	0.01	nv	100	-	-	-	-	-	-

xx	Exceeds Human Health Soil Generic Assessment Criteria
xx	Exceeds Controlled Water Generic Assessment Criteria
xx	Exceeds Dutch Intervention Value
GAC	Generic Assessment Criteria
MDL	Method Detection Limit
-	Less than MDL
na	Not Analysed
nv	No Value
*	Minimum of DWS and EQS (mg/kg)
IR	Insignificant risk to identified potential receptors

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Table 9: PAH Laboratory Results - Sediment

							Sed	Sed	Sed	Sed	Sed	Sed	Sed
Sample Type							SS01	SS02	SS03	SS04	SS10	SS11	SS12
Sample ID							Surface	Surface	Surface	Surface	Surface	Surface	Surface
Depth							06-Oct-08	06-Oct-08	06-Oct-08	06-Oct-08	01-Oct-08	01-Oct-08	01-Oct-08
Date													
Parameters	Units	MDL	Human Health GAC - Soil	Controlled Water GAC - Soil	Dutch - Screening (S) Value	Dutch - Intervention (I) Value							
Naphthalene *	mg/kg	1	1,300	0.04	nv	nv	0.006	0.016	0.015	0.010	0.008	0.005	0.012
Acenaphthylene	mg/kg	1	3,100	1.91	nv	nv	0.008	0.011	0.016	0.012	0.007	0.005	0.006
Acenaphthene	mg/kg	1	34,000	87.9	nv	nv	0.019	0.059	0.062	0.033	0.025	0.021	0.027
Fluorene	mg/kg	1	69,000	114	nv	nv	0.010	0.007	0.013	0.008	0.006	0.006	0.006
Phenanthrene *	mg/kg	1	34,000	7.79	nv	nv	0.020	0.036	0.055	0.052	0.025	0.017	0.019
Anthracene *	mg/kg	1	520,000	0.10	nv	nv	0.006	0.011	0.017	0.013	0.013	0.008	0.007
Fluoranthene *	mg/kg	1	3,400	0.36	nv	nv	0.059	0.087	0.121	0.115	0.062	0.043	0.050
Pyrene	mg/kg	1	35,000	650	nv	nv	0.052	0.075	0.103	0.100	0.053	0.035	0.040
Benzo(a)anthracene *	mg/kg	1	340	0.12	nv	nv	0.053	0.080	0.115	0.111	0.044	0.021	0.036
Chrysene *	mg/kg	1	3,500	1.43	nv	nv	0.035	0.051	0.075	0.066	0.047	0.026	0.038
Benzo(b)+Benzo(k) fluoranthene *	mg/kg	1	350	nv	nv	nv	0.055	0.104	0.122	0.126	0.067	0.055	0.061
Benzo(a)pyrene *	mg/kg	1	35	0.35	nv	nv	0.022	0.015	0.016	0.022	0.016	0.017	0.027
Indeno(123cd)pyrene *	mg/kg	1	350	nv	nv	nv	0.015	26.000	0.038	0.033	0.023	0.011	0.023
Dibenzo(ah)anthracene	mg/kg	1	35	1.19	nv	nv	0.004	0.004	0.006	0.005	0.009	0.005	0.005
Benzo(ghi)perylene *	mg/kg	1	52,000	nv	nv	nv	0.003	0.033	0.046	0.041	0.027	0.025	0.026
Sum of 10 PAH	mg/kg	-	nv	nv	1	40	0.274	26.433	0.620	0.589	0.332	0.228	0.299
Total 16 EPA PAHs (16)	mg/kg	-	nv	nv	nv	nv	0.367	0.615	0.820	0.747	0.432	0.300	0.383

xx	Exceeds Human Health Generic Assessment Criteria
xx	Exceeds Controlled Water Generic Assessment Criteria
xx	Exceeds Dutch Intervention Value
GAC	Generic Assessment Criteria
MDL	Method Detection Limit
-	Less than MDL
na	Not Analysed
nv	No Value

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Table 10: Heavy Metal Laboratory Results - Sediment

Sample Type							Sed	Sed	Sed	Sed	Sed	Sed	Sed
Sample ID							SS01	SS02	SS03	SS04	SS10	SS11	SS12
Depth							Surface	Surface	Surface	Surface	Surface	Surface	Surface
Date							06-Oct-08	06-Oct-08	06-Oct-08	06-Oct-08	01-Oct-08	01-Oct-08	01-Oct-08
Parameter	Units	MDL	Human Health GAC - Soil	Controlled Water GAC - Soil	EPA Background	Dutch MAC - Intervention (I) Value							
Antimony	mg/kg	1.5	15	0.23	1.54	15	2.8	2.9	2.4	2.7	-	-	-
Arsenic	mg/kg	0.5	500	0.29	21.9	55	6	8	9	8	-	-	-
Barium	mg/kg	1	28,000	4.10	454.5	625	45	50	51	40	44	47	40
Cadmium	mg/kg	0.5	1,400	0.55	1.652	12	0.5	0.6	0.7	0.6	-	-	-
Chromium	mg/kg	1	5,000	6.50	86.8	380	42	50	51	41	47	51	44
Copper	mg/kg	1	IR	0.04	45.9	190	18	22	24	18	15	16	13
Lead	mg/kg	1	750	0.40	61.9	530	30	34	35	27	31	31	27
Mercury	mg/kg	0.3	480	0.0018	0.237	10	-	-	-	-	-	-	-
Molybdenum	mg/kg	1	1,310	1.41	3.29	200	-	0.7	-	-	1	1	1
Nickel	mg/kg	1	5,000	0.76	50	210	22	25	27	20	19	16	12
Selenium	mg/kg	0.5	8,000	0.05	2.67	100	-	-	-	-	-	-	-
Vanadium	mg/kg	1	23,400	20	104.8	250	26	29	29	24	49	54	44
Zinc	mg/kg	1	IR	0.29	144.7	720	110	130	140	110	96	100	87

xx	Exceeds Human Health Generic Assessment Criteria
xx	Exceeds Controlled Water Generic Assessment Criteria
xx	Exceeding EPA Background 95 Percentile
xx	Exceeds Dutch Intervention Value
GAC	Generic Assessment Criteria
MDL	Method Detection Limit
-	Less than MDL
na	Not Analysed
nv	No Value
IR	Insignificant risk to identified potential receptors

Note: There may be some minor variations in MDL between the tables and the lab certificates, as some samples were analysed by Alcontrols facility at Chester.

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Table 11 : Various Laboratory Results - Sediment

Sample Type						Sed	Sed	Sed	Sed	Sed	Sed	Sed
Sample ID						SS01	SS02	SS03	SS04	SS10	SS11	SS12
Depth						Surface	Surface	Surface	Surface	Surface	Surface	Surface
Date						06-Oct-08	06-Oct-08	06-Oct-08	06-Oct-08	01-Oct-08	01-Oct-08	01-Oct-08
Parameters	Units	MDL	Human Health GAC - Soil	Controlled Water GAC - Soil	Dutch MAC - Intervention (!) Value							
TOC												
Total Organic Carbon	%	0.2	nv	nv	nv	na	na	na	na	3.5	3.1	3.7
Miscellaneous												
Total Phenols	mg/kg	0.01	nv	nv	40	0.27	0.06	0.06	0.05	0.03	2.2	0.15
Total Cyanide	mg/kg	2.50	50	nv	20	-	-	-	-	-	-	-
Chloride	mg/kg	5.00	nv	nv	nv	24,202	29,330	37,326	15,663	15,753	22,810	16,611
Fluoride	mg/kg	0.50	369,000	0.05	nv	2.7	2.5	1.8	2.6	3.5	2.3	2.7
Sulphate	g/l	0.003	nv	nv	nv	1.045	1.222	1.11	0.919	0.568	0.763	0.238
PCB Total of 7 Congeners	mg/kg	0.001	16.8	0.014	nv	-	-	na	-	-	na	na
VOCs	ug/kg	1	nv	nv	nv	na	na	na	-	na	na	na

xx	Exceeds Human Health Generic Assessment Criteria
xx	Exceeds Controlled Water Generic Assessment Criteria
xx	Exceeds Dutch Intervention Value
GAC	Generic Assessment Criteria
MDL	Method Detection Limit
-	Less than MDL
na	Not Analysed
nv	No Value

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Location: ESB Great Island
Job No: 49341640
Table 12: Hydrocarbons and PAH Laboratory Results - Groundwater

Sample Type				Disposal Area							
				Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water
				MW200	MW104	MW108	MW202	MW101	MW102	MW107	MW201
Sample ID				07-Oct-08	08-Oct-08	08-Oct-08	08-Oct-08	08-Oct-08	08-Oct-08	08-Oct-08	09-Oct-08
Date											
Parameters	UNITS	MDL	IGV								
Hydrocarbons											
Aromatics											
C6-C7	ug/L	10	nv	-	-	-	-	-	-	-	-
C7-C8	ug/L	10	nv	-	-	-	-	-	-	-	-
C8-C10	ug/L	10	nv	-	-	-	-	-	-	-	-
C10-C12	ug/L	10	nv	-	-	-	-	-	-	-	-
C12-C16	ug/L	10	nv	-	-	-	-	-	-	-	-
C16-C21	ug/L	10	nv	-	-	-	-	-	-	-	-
C21-C35	ug/L	10	nv	-	-	-	-	-	-	-	-
Total Aromatics	ug/L	10	nv	-	-	-	-	-	-	-	-
Aliphatics											
C5-C6	ug/L	10	nv	-	-	-	-	-	-	-	-
C6-C8	ug/L	10	nv	-	-	-	-	-	-	-	-
C8-C10	ug/L	10	nv	-	-	-	-	-	-	-	-
C10-C12	ug/L	10	nv	-	-	-	-	-	-	-	-
C12-C16	ug/L	10	nv	-	-	-	-	-	-	-	-
C16-C21	ug/L	10	nv	-	-	-	-	-	-	-	-
C21-C35	ug/L	10	nv	-	-	-	-	-	-	-	-
Total Aliphatics (MO)	ug/L	10	nv	-	-	-	-	-	-	-	-
Total TPH	ug/L	10	10	-	-	-	-	-	-	-	-
Diesel Range Organics (DRO)											
BTEX											
Benzene	ug/L	10	1	-	-	-	-	-	-	-	-
Toluene	ug/L	10	10	-	-	-	-	-	-	-	-
Ethylbenzene	ug/L	10	10	-	-	-	-	-	-	-	-
Total Xylene	ug/L	10	10	-	-	-	-	-	-	-	-
MTBE	ug/L	10	30	-	-	-	-	-	-	-	-
BTEX	ug/L	10	nv	-	-	-	-	-	-	-	-
PAHs											
Naphthalene	ug/L	0.01	1	-	-	-	-	-	-	-	-
Acenaphthylene	ug/L	0.01	nv	-	-	-	-	-	-	-	-
Acenaphthene	ug/L	0.01	nv	-	-	-	-	-	-	-	-
Fluorene	ug/L	0.01	nv	-	-	-	-	-	-	-	-
Phenanthrene	ug/L	0.01	nv	-	-	-	-	-	-	-	-
Anthracene	ug/L	0.01	10000	-	-	-	-	-	-	-	-
Fluoranthene**	ug/L	0.01	1	-	-	-	-	-	-	-	-
Pyrene	ug/L	0.01	nv	-	-	-	-	-	-	-	-
Benzo(a)anthracene	ug/L	0.01	nv	-	-	-	-	-	-	-	-
Chrysene	ug/L	0.01	nv	-	-	-	-	-	-	-	-
Benzo(b)+Benzo(k)fluoranthene**	ug/L	0.01	0.05*	-	-	-	-	-	-	-	-
Benzo(a)pyrene**	ug/L	0.01	0.01	-	-	-	-	-	-	-	-
Indeno(123cd)pyrene**	ug/L	0.01	0.05	-	-	-	-	-	-	-	-
Dibenzo(ah)anthracene	ug/L	0.01	nv	-	-	-	-	-	-	-	-
Benzo(ghi)perylene**	ug/L	0.01	0.05	-	-	-	-	-	-	-	-
Sum 6 PAHs	ug/L	-	0.1	-	-	-	-	-	-	-	-
Total 16 EPA PAHs	ug/L	0.01	nv	-	-	-	-	-	-	-	-

IGV Interim Guideline Value for Groundwater
xx Exceeds IGV for Ground Water
MDL Method Detection Limit
- Less than the MDL
na Not Analysed
nv No Value
MO Mineral Oil
* Laboratory results are presented as a sum of the 2 compounds.

Sample Type	Sample ID	Date
Ground Water	BH2	31-Oct-08
Ground Water	BH3	08-Oct-08
Ground Water	BH201	09-Oct-08
Ground Water	BH202	09-Oct-08
Ground Water	BH203	09-Oct-08
Ground Water	BH205	09-Oct-08
Ground Water	BH206	09-Oct-08

Parameters	UNITS	MDL	ISV
Hydrocarbons			
Aromatics	ug/L	10	nv
C6-C7	ug/L	10	nv
C7-C8	ug/L	10	nv
C8-C10	ug/L	10	nv
C10-C12	ug/L	10	nv
C12-C16	ug/L	10	nv
C16-C21	ug/L	10	nv
C21-C35	ug/L	10	nv
Total Aromatics	ug/L	10	nv
Aliphatics	ug/L	10	nv
C5-C6	ug/L	10	nv
C6-C8	ug/L	10	nv
C8-C10	ug/L	10	nv
C10-C12	ug/L	10	nv
C12-C16	ug/L	10	nv
C16-C21	ug/L	10	nv
C21-C35	ug/L	10	nv
Total Aliphatics (MO)	ug/L	10	nv
Total TPH	ug/L	10	nv
Diesel Range Organics (DRO)			
BTEX	ug/L	10	nv
Benzene	ug/L	10	1
Toluene	ug/L	10	10
Ethylbenzene	ug/L	10	10
Total Xylene	ug/L	10	30
MTBE	ug/L	10	30
BTEX	ug/L	10	nv
PAHs			
Naphthalene	ug/L	0.01	1
Acenaphthylene	ug/L	0.01	nv
Acenaphthene	ug/L	0.01	nv
Fluorene	ug/L	0.01	nv
Phenanthrene	ug/L	0.01	nv
Anthracene	ug/L	0.01	1
Fluoranthene	ug/L	0.01	10000
Pyrene	ug/L	0.01	nv
Benz(a)anthracene	ug/L	0.01	nv
Chrysene	ug/L	0.01	nv
Benz(b) + Benz(c)(k)	ug/L	0.01	0.05*
Fluoranthene**	ug/L	0.01	0.038
Benz(a)pyrene**	ug/L	0.01	0.026
Indeno(1,2,3-cd)pyrene**	ug/L	0.01	0.027
Benz(g,h,i)perylene**	ug/L	0.01	0.273
Sum 6 PAHs	ug/L	0.1	0.724
Total 16 EPA PAHs			

Interim Guideline Value for Groundwater
Exceeds IGV for Ground Water
Method Detection Limit
Less than the MDL
Not Analysed
No Value
Mineral Oil
Laboratory results are presented as a s

Client: ESB
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Table 13: Heavy Metal Laboratory Results - Groundwater

				Former Landfill Cell No. 2 (West)			Former Landfill Cell No.1 (East)			
Sample ID				MW101	MW102	MW107	MW200	MW104	MW106	MW202
Date				08-Oct-08	08-Oct-08	08-Oct-08	07-Oct-08	08-Oct-08	08-Oct-08	08-Oct-08
Parameter	Units	MDL	IGV							
Metals										
Antimony	mg/L	0.001	nv	na	na	na	na	na	na	na
Arsenic	mg/L	0.001	0.01	0.025	0.037	0.004	-	0.027	0.003	0.022
Barium	mg/L	0.001	0.1	0.031	0.05	0.094	0.025	0.012	0.013	0.022
Cadmium	mg/L	0.0004	0.005	-	-	0.0006	-	-	-	-
Chromium	mg/L	0.001	0.03	0.006	0.018	0.013	0.002	0.004	0.003	0.006
Copper	mg/L	0.001	0.03	0.002	0.007	0.005	0.003	0.002	0.005	0.01
Cobalt	mg/L	0.001	nv	0.002	0.004	0.003	-	-	-	-
Lead	mg/L	0.001	0.01	0.003	0.002	0.003	-	-	-	0.001
Mercury Low	mg/L	0.00005	0.001	-	-	-	-	-	-	-
Molybdenum	mg/L	0.001	nv	-	-	-	-	0.005	-	-
Nickel	mg/L	0.001	0.02	0.003	0.005	0.005	0.003	0.002	0.002	0.002
Selenium	mg/L	0.001	nv	0.02	0.036	-	-	-	-	0.003
Vanadium	mg/L	0.001	nv	0.028	0.048	0.005	0.002	0.009	0.003	0.021
Zinc	mg/L	0.001	0.1	0.031	0.007	0.014	0.041	0.004	0.005	0.006

IGV	Interim Guideline Value for Groundwater
xx	Exceeds IGV for Ground Water
MDL	Method Detection Limit
-	Less than the MDL
na	Not Analysed
nv	no value

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Client: ESB
Project: ESB Great Island
Location: ESB Great Island
Job No: 49341640
Table 13: Heavy Metal Laboratory Results - Gro

				Station Grounds							
Sample ID				MW201	BH2	BH3	BH201	BH202	BH203	BH205	BH206
Date				09-Oct-08	31-Oct-08	09-Oct-08	09-Oct-08	09-Oct-08	09-Oct-08	09-Oct-08	09-Oct-08
Parameter	Units	MDL	IGV								
Metals											
Antimony	mg/L	0.001	nv	na	0.003	na	na	na	na	na	na
Arsenic	mg/L	0.001	0.01	0.008	-	0.009	0.001	0.011	0.004	-	-
Barium	mg/L	0.001	0.1	0.05	0.016	0.022	0.055	0.029	0.009	0.01	0.005
Cadmium	mg/L	0.0004	0.005	-	-	-	-	-	-	-	-
Chromium	mg/L	0.001	0.03	0.004	-	0.003	0.004	0.006	0.004	0.002	0.002
Copper	mg/L	0.001	0.03	0.002	0.005	0.003	0.003	0.001	0.002	-	-
Cobalt	mg/L	0.001	nv	-	-	-	-	-	-	-	-
Lead	mg/L	0.001	0.01	0.005	-	0.002	0.002	-	-	-	-
Mercury Low	mg/L	0.00005	0.001	-	-	-	-	-	-	-	0.00005
Molybdenum	mg/L	0.001	nv	-	0.008	0.004	0.008	0.005	0.007	-	-
Nickel	mg/L	0.001	0.02	0.002	0.001	0.002	0.002	0.003	0.001	-	-
Selenium	mg/L	0.001	nv	0.014	-	0.026	0.005	0.035	0.012	0.003	0.003
Vanadium	mg/L	0.001	nv	0.006	0.006	0.013	0.004	0.018	0.007	0.002	0.002
Zinc	mg/L	0.001	0.1	0.016	0.001	0.009	0.01	0.005	0.008	0.012	0.008

IGV	Interim Guideline Value for Groundwat
xx	Exceeds IGV for Ground Water
MDL	Method Detection Limit
-	Less than the MDL
na	Not Analysed
nv	no value

Client: ESB
Project: ESB Great Island
Location: ESB Great Island
Job No: 49341640
Table 14: Various Laboratory Results - Groundwater

				Former Landfill Cell No. 2 (West)			Former Landfill Cell No. 1 (East)				
Sample ID				MW101	MW102	MW107	MW200	MW104	MW106	MW202	MW201
Date				08-Oct-08	08-Oct-08	08-Oct-08	07-Oct-08	08-Oct-08	08-Oct-08	08-Oct-08	09-Oct-08
Parameter	Units	MDL	IGV								
Anions and Cations											
Aluminium	mg/L	0.002	0.2	0.065	0.171	0.131	0.013	0.154	0.019	0.069	0.002
Boron	mg/L	0.003	1	0.943	2.149	0.317	-	0.229	-	0.628	0.306
Calcium	mg/L	0.12	200	73.21	185.8	90.31	46.43	46.76	69.95	26.69	61.86
Chloride	mg/L	1	30	75	51	344	30	37	59	523	1,561
Iron	mg/L	0.002	0.2	0.264	0.314	2.921	0.013	0.168	0.101	0.483	0.299
Potassium (Total as K)	mg/L	0.2	5	104.5	269	73.5	1.8	14.5	4.4	33.6	44
Manganese	mg/L	0.001	0.05	0.14	0.09	3.196	1.053	0.43	0.07	0.764	0.202
Sodium (Total as Na)	mg/L	0.2	150	2,529	7,597	1,814	20.4	142.4	30.4	496.1	720
Sulphate	mg/L	3	200	2,562	2,688	3,328	2,112	1,986	2,845	3,979	143
Alkalinity as CaCO ₃	mg/L	5	nv	480	1140	100	210	410	260	400	100
Total Hardness as CaCO ₃	mg/L	1	200	844	3,203	1,040	155	262	215	189	615
Total Dissolved Solids (TDS)	mg/L	5	1000	6,110	17,800	4,570	167	488	243	1,300	na
Nutrients											
Ammonia*	mg/L	0.257	0.15	28.421	76.388	0.772	0.386	7.202	-	6.273	-
Nitrate (as NO ₃)	mg/L	0.3	25	-	-	-	2.6	-	-	-	2.9
Nitrite (as NO ₂)	mg/L	0.05	0.1	0.06	0.14	-	0.55	0.08	0.07	0.05	-
Phosphate	mg/L	0.03	0.03	-	0.04	0.03	-	-	-	0.05	0.04
Miscellaneous											
Total Phenols	mg/L	0.01	0.0005	0.02	-	-	-	-	-	-	-
Total Cyanide	mg/L	0.05	0.01	-	-	-	-	-	-	-	-
PCB Total of 7 Congeners	ug/L	0.01	0.01	-	-	-	-	-	-	-	-
VOCs	ug/L	1	nv	na	na	-	na	na	na	na	na
SVOCs	ug/L	100	nv	na	na	na	na	na	na	na	na

IGV	Interim Guideline Value for Groundwater
xx	Exceeds IGV for Ground Water
MDL	Method Detection Limit
-	Less than the MDL
na	Not Analysed
nv	no value
*	Conversion factor of 1.286 used to convert ammoniacial nitrogen (as N) to ammonia (as ammonium as NH4)

Client: ESB
Project: ESB Great Island
Location: ESB Great Island
Job No: 49341940
Table 14: Various Laboratory Results - Groundwater

Sample ID Date	Station Grounds									
	BH2 31-Oct-08	BH3 09-Oct-08	BH201 09-Oct-08	BH202 09-Oct-08	BH203 09-Oct-08	BH205 09-Oct-08	BH206 09-Oct-08			
Parameter	Units	MDL	IGV							
Anions and Cations										
Aluminium	mg/L	0.002	0.2	0.076	0.101	0.14	0.037	0.049	0.028	0.011
Boron	mg/L	0.003	1	0.067	1.042	0.188	1.182	0.578	-	-
Calcium	mg/L	0.12	200	26.43	92.95	34.89	142.3	45.91	13.57	16.37
Chloride	mg/L	1	30	21	4.676	473	6.108	1.931	23	21
Iron	mg/L	0.002	0.2	-	0.137	0.166	0.137	0.118	0.069	0.049
Potassium (Total as K)	mg/L	0.2	5	3.7	83	14	140	48	1.5	2.4
Manganese	mg/L	0.001	0.05	0.027	0.012	0.168	0.014	0.025	0.032	0.094
Sodium (Total as Na)	mg/L	0.2	150	26.2	1,900	310	2,600	670	20	21
Sulphate	mg/L	3	200	30	566	88	824	368	12	12
Alkalinity as CaCO ₃	mg/L	5	nv	80	170	110	210	110	80	90
Total Hardness as CaCO ₃	mg/L	1	200	95	1,064	206	1,922	469	62	79
Total Dissolved Solids (TDS)	mg/L	5	1000	174	na	na	na	na	na	na
Nutrients										
Ammonia*	mg/L	0.257	0.15	na	0.257	-	0.643	-	-	-
Nitrate (as NO ₃)	mg/L	0.3	25	na	0.6	12.7	-	5.9	6.9	17.6
Nitrite (as NO ₂)	mg/L	0.05	0.1	na	-	-	-	-	-	-
Phosphate	mg/L	0.03	0.03	na	0.16	-	-	0.15	0.05	0.04
Miscellaneous										
Total Phenols	mg/L	0.01	0.0005	0.06	-	-	-	-	-	-
Total Cyanide	mg/L	0.05	0.01	0.05	-	-	-	-	-	-
PCB Total of 7 Congeners	ug/L	0.01	0.01	-	-	-	-	-	-	-
VOCs	ug/L	1	nv	-	-	-	na	na	na	-
SVOCs	ug/L	100	nv	-	na	na	-	-	-	na

IGV Interim Guideline Value for Groundwater
Exceeds IGV for Ground Water
MDL Method Detection Limit
- Less than the MDL
na Not Analysed
nv no value
* Conversion factor of 1,286 used to convert ϵ to ammonium (as ammonium as NH₄)

Client: ESB
Project: ESB Great Island
Location: ESB Great Island
Job No: 49341640
Table 15: VOC Laboratory Results - Groundwater

Sample Type				Disposal Area		Main Power Station Site			
	Sample ID	Date		Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water
				MW104	MW107	BH201	BH206	BH3	BH2
				06-Oct-08	06-Oct-08	09-Oct-08	09-Oct-08	09-Oct-08	31-Oct-08
Parameters	Units	MDL	IGV						
1,1,1,2-Tetrachloroethane	ug/l	1.00	nv	-	-	-	-	-	-
1,1,1-Trichloroethane	ug/l	1.00	500	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	ug/l	1.00	nv	-	-	-	-	-	-
1,1,2-Trichloroethane	ug/l	1.00	nv	-	-	-	-	-	-
1,1-Dichloroethane	ug/l	1.00	nv	-	-	-	-	-	-
1,1-Dichloroethene	ug/l	1.00	nv	-	-	-	-	-	-
1,1-Dichloropropene	ug/l	1.00	nv	-	-	-	-	-	-
1,2,3-Trichlorobenzene	ug/l	1.00	nv	-	-	-	-	-	-
1,2,3-Trichloropropene	ug/l	1.00	nv	-	-	-	-	-	-
1,2,4-Trichlorobenzene	ug/l	1.00	40	-	-	-	-	-	-
1,2,4-Trimethylbenzene	ug/l	1.00	nv	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane	ug/l	1.00	nv	-	-	-	-	-	-
1,2-Dibromoethane	ug/l	1.00	nv	-	-	-	-	-	-
1,2-Dichlorobenzene	ug/l	1.00	10	-	-	-	-	-	-
1,2-Dichloroethane	ug/l	1.00	3	-	-	-	-	-	-
1,2-Dichloropropene	ug/l	1.00	nv	-	-	-	-	-	-
1,3,5-Trimethylbenzene	ug/l	1.00	nv	-	-	-	-	-	-
1,3-Dichlorobenzene	ug/l	1.00	nv	-	-	-	-	-	-
1,3-Dichloropropene	ug/l	1.00	nv	-	-	-	-	-	-
1,4-Dichlorobenzene	ug/l	1.00	nv	-	-	-	-	-	-
2,2-Dichloropropene	ug/l	1.00	nv	-	-	-	-	-	-
2-Chlorotoluene	ug/l	1.00	nv	-	-	-	-	-	-
4-Chlorotoluene	ug/l	1.00	nv	-	-	-	-	-	-
4-Isopropyltoluene	ug/l	1.00	nv	-	-	-	-	-	-
Benzene	ug/l	1.00	1	-	-	-	-	-	-
Bromobenzene	ug/l	1.00	nv	-	-	-	-	-	-
Bromochloromethane	ug/l	1.00	nv	-	-	-	-	-	-
Bromodichloromethane	ug/l	1.00	nv	-	-	-	-	-	-
Bromoform	ug/l	1.00	nv	-	-	-	-	-	-
Bromomethane	ug/l	1.00	nv	-	-	-	-	-	-
Carbon disulphide	ug/l	1.00	nv	-	-	-	-	-	-
Carbontetrachloride	ug/l	1.00	nv	-	-	-	-	-	-
Chlorobenzene	ug/l	1.00	1	-	-	-	-	-	-
Chloroethane	ug/l	1.00	nv	-	-	-	-	-	-
Chloroform	ug/l	1.00	12	-	-	-	-	-	-
Chloromethane	ug/l	1.00	nv	-	-	-	-	-	-
cis-1,2-Dichloroethene	ug/l	1.00	nv	-	-	-	-	-	-
cis-1,3-Dichloropropene	ug/l	1.00	nv	-	-	-	-	-	-
Dibromochloromethane	ug/l	1.00	nv	-	-	-	-	-	-
Dibromomethane	ug/l	1.00	nv	-	-	-	-	-	-
Dichlorodifluoromethane	ug/l	1.00	nv	-	-	-	-	-	-
Dichloromethane	ug/l	1.00	10	-	-	-	-	-	-
Ethylbenzene	ug/l	1.00	10	-	-	-	-	-	-
Hexachlorobutadiene	ug/l	1.00	0.1	-	-	-	-	-	-
Isopropylbenzene	ug/l	1.00	nv	-	-	-	-	-	-
Naphthalene	ug/l	1.00	1	-	-	-	-	-	-
n-Butylbenzene	ug/l	1.00	nv	-	-	-	-	-	-
o-Xylene	ug/l	1.00	10	-	-	-	-	-	-
p/m-Xylene	ug/l	1.00	10	-	-	-	-	-	-
Propylbenzene	ug/l	1.00	nv	-	-	-	-	-	-
sec-Butylbenzene	ug/l	1.00	nv	-	-	-	-	-	-
Styrene	ug/l	1.00	nv	-	-	-	-	-	-
tert-butyl methyl ether (MTBE)	ug/l	1.00	30	-	-	-	-	-	-
tert-Butylbenzene	ug/l	1.00	nv	-	-	-	-	-	-
Tetrachloroethene	ug/l	1.00	40	-	-	-	-	-	-
Toluene	ug/l	1.00	10	-	-	-	-	-	-
trans-1,2-Dichloroethene	ug/l	1.00	nv	-	-	-	-	-	-
trans-1,3-Dichloropropene	ug/l	1.00	nv	-	-	-	-	-	-
Trichloroethene	ug/l	1.00	70	-	-	-	-	-	-
Trichlorofluoromethane	ug/l	1.00	nv	-	-	-	-	-	-
Vinyl Chloride	ug/l	1.00	nv	-	-	-	-	-	-
VOC- TIC	ug/l	1.00	nv	-	-	-	-	-	-

IGV Interim Guideline Value for Groundwater
 xx Exceeds IGV for Ground Water
 MDL Method Detection Limit
 - Less than the MDL
 na Not Analysed
 nv no value

Client: ESB
Project: ESB Great Island
Location: ESB Great Island
Job No: 49341640
Table 16: SVOC Laboratory Results - Groundwater

				Main Power Station Site			
Sample Type				Groundwater	Groundwater	Groundwater	Groundwater
Sample ID				BH2	BH202	BH203	BH205
Date				31-Oct-08	09-Oct-08	09-Oct-08	09-Oct-08
Parameters	Units	MDL	IGV				
Phenol	ug/l	1	0.5	-	-	-	-
2-Chlorophenol	ug/l	1	200	-	-	-	-
2-Methylphenol	ug/l	1	nv	-	-	-	-
4-Methylphenol	ug/l	1	nv	-	-	-	-
2-Nitrophenol	ug/l	1	nv	-	-	-	-
4-Nitrophenol	ug/l	1	nv	-	-	-	-
2,4-Dichlorophenol	ug/l	1	nv	-	-	-	-
2,4-Dimethylphenol	ug/l	1	nv	-	-	-	-
4-Chloro-3-methylphenol	ug/l	1	nv	-	-	-	-
2,4,6-Trichlorophenol	ug/l	1	200	-	-	-	-
2,4,5-Trichlorophenol	ug/l	1	nv	-	-	-	-
Pentachlorophenol	ug/l	1	2	-	-	-	-
1,3-Dichlorobenzene	ug/l	1	nv	-	-	-	-
1,4-Dichlorobenzene	ug/l	1	10	-	-	-	-
1,2-Dichlorobenzene	ug/l	1	10	-	-	-	-
1,2,4-Trichlorobenzene	ug/l	1	0.4	-	-	-	-
Nitrobenzene	ug/l	1	10	-	-	-	-
Azobenzene	ug/l	1	nv	-	-	-	-
Hexachlorobenzene	ug/l	1	0.03	-	-	-	-
Naphthalene	ug/l	1	1	-	-	-	-
Acenaphthylene	ug/l	1	nv	-	-	-	-
Acenaphthene	ug/l	1	nv	-	-	-	-
Fluorene	ug/l	1	nv	-	-	-	-
Phenanthrene	ug/l	1	nv	-	-	-	-
Anthracene	ug/l	1	10000	-	-	-	-
Fluoranthrene	ug/l	1	1	-	-	-	-
Pyrene	ug/l	1	nv	-	-	-	-
Benzo(a)anthracene	ug/l	1	nv	-	-	-	-
Chrysene	ug/l	1	nv	-	-	-	-
Benzo(b)fluoranthrene	ug/l	1	0.5	-	-	-	-
Benzo(k)fluoranthrene	ug/l	1	0.05	-	-	-	-
Benzo(a)pyrene	ug/l	1	0.01	-	-	-	-
Indeno(1,2,3-cd)pyrene	ug/l	1	0.05	-	-	-	-
Dibenzo(a,h)anthracene	ug/l	1	nv	-	-	-	-
Benzo(ghi)perylene	ug/l	1	0.05	-	-	-	-
2-Chloronaphthalene	ug/l	1	nv	-	-	-	-
2-Methylnaphthalene	ug/l	1	nv	-	-	-	-
Carbazole	ug/l	1	nv	-	-	-	-
Isophorone	ug/l	1	nv	-	-	-	-
Dibenzofuran	ug/l	1	nv	-	-	-	-
Dimethyl phthalate	ug/l	1	nv	-	-	-	-
Diethyl phthalate	ug/l	1	10	-	-	-	-
Di-n-butylphthalate	ug/l	1	2	-	-	-	-
Di-n-octylphthalate	ug/l	1	0.1	-	-	-	-
Bis(2-ethylhexyl)phthalate	ug/l	1	nv	-	-	-	-
Butylbenzylphthalate	ug/l	1	1	-	-	-	-
4-Chloroaniline	ug/l	1	nv	-	-	-	-
2-Nitroaniline	ug/l	1	10	-	-	-	-
3-Nitroaniline	ug/l	1	10	-	-	-	-
4-Nitroaniline	ug/l	1	nv	-	-	-	-
2,4-Dinitrotoluene	ug/l	1	nv	-	-	-	-
2,6-Dinitrotoluene	ug/l	1	nv	-	-	-	-
Bis(2-chloroethyl)ether	ug/l	1	30	-	-	-	-
4-Bromophenylphenylether	ug/l	1	nv	-	-	-	-
4-Chlorophenylphenylether	ug/l	1	40	-	-	-	-
Hexachloroethane	ug/l	1	10	-	-	-	-
Hexachlorobutadiene	ug/l	1	0.1	-	-	-	-
Hexachlorocyclopentadiene	ug/l	1	nv	-	-	-	-
Bis(2-chloroethoxy)methane	ug/l	1	10	-	-	-	-
N-nitrosodi-n-propylamine	ug/l	1	nv	-	-	-	-
SVOC-TIC							
Heptacosane (CAS), n-Heneicosane	ug/l	1	nv	1.11	nd	nd	nd
14-.BETA.-H-PREGNA,14-.BETA.-PREGNA	ug/l	1	nv	2.1	nd	nd	nd
1-Octadecanethiol (CAS), Octadecanethiol	ug/l	1	nv	3.4	nd	nd	nd
9-Octadecenamide, (Z)- (CAS), OLEOAMIDE	ug/l	1	nv	1.2	nd	nd	nd

IGV Interim Guideline Value for Groundwater
 xx Exceeds IGV for Ground Water
 MDL Method Detection Limit
 - Less than the MDL
 na Not Analysed
 nv no value
 nd not detected

Client: ESB
Project: ESB Great Island
Location: ESB Great Island
Job No: 49341640
Table 17: Biological Laboratory Results - Groundwater

				Former Landfill Cell No. 2 (West)			Former Landfill Cell No. 1 (East)				
Sample ID				MW101	MW102	MW107	MW200	MW104	MW106	MW202	MW201
Date				10/08/2008	10/08/2008	10/08/2008	10/07/2008	10/08/2008	10/08/2008	10/08/2008	10/09/2008
Parameter	Units	MDL	IGV								
Biological											
Biological Oxygen Demand (BOD)	mg/L	2	nv	8	na	3	na	na	na	2	-
Total coliforms	cfu/100ml	1	0	2	-	80,000	na	na	na	1,200	1,400
Faecal coliforms	cfu/100ml	1	0	-	-	100	na	na	na	2	4

IGV Interim Guideline Value for Groundwater
xx Exceeds IGV for Ground Water
MDL Method Detection Limit
- Less than the MDL
na Not Analysed
nv no value

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Client: ESB
Project: ESB Great Island
Location: ESB Great Island
Job No: 49341640
Table 17: Biological Laboratory Results - Grc

				Station Grounds						
Sample ID				BH2	BH3	BH201	BH202	BH203	BH205	BH206
Date				10/31/2008	10/09/2008	10/09/2008	10/09/2008	10/09/2008	10/09/2008	10/09/2008
Parameter				Units	MDL	IGV				
Biological										
Biological Oxygen Demand (BOD)				mg/L	2	nv	na	2	-	-
Total coliforms				cfu/100ml	1	0	na	20,000	1,700	200
Faecal coliforms				cfu/100ml	1	0	na	1,700	-	-

IGV Interim Guideline Value for Ground
xx Exceeds IGV for Ground Water
MDL Method Detection Limit
- Less than the MDL
na Not Analysed
nv no value

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Client: ESB
Project: ESB Great Island
Location: ESB Great Island
Job No: 49341640
Table 18: Hydrocarbons and PAH Laboratory Results - Surface Water

Sample Type				Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
				SW5	SW6	SW10	SW8	SW1
				07-Oct-08	08-Oct-08	08-Oct-08	08-Oct-08	08-Oct-08
Sample ID								
Date								
Parameters	UNITS	MDL	EQS					
Hydrocarbons								
Aromatics								
C6-C7	ug/L	10	nv	-	-	-	-	-
C7-C8	ug/L	10	nv	-	-	-	-	-
C8-C10	ug/L	10	nv	-	-	-	-	-
C10-C12	ug/L	10	nv	-	-	-	-	-
C12-C16	ug/L	10	nv	-	-	-	-	-
C16-C21	ug/L	10	nv	-	-	-	-	-
C21-C35	ug/L	10	nv	-	-	-	-	-
Total Aromatics	ug/L	10	nv	-	-	-	-	-
Aliphatics								
C5-C6	ug/L	10	nv	-	-	-	-	-
C6-C8	ug/L	10	nv	-	-	-	-	-
C8-C10	ug/L	10	nv	-	-	-	-	-
C10-C12	ug/L	10	nv	-	-	-	-	-
C12-C16	ug/L	10	nv	-	-	-	-	-
C16-C21	ug/L	10	nv	-	-	-	-	-
C21-C35	ug/L	10	nv	-	-	-	-	-
Total Aliphatics (MO)	ug/L	10	300	-	-	-	-	-
Total TPH	ug/L	10	nv	-	-	-	-	-
Diesel Range Organics (DRO)	ug/L	nv	nv	-	-	-	-	-
BTEX								
Benzene	ug/L	10	10	-	-	-	-	-
Toluene	ug/L	10	10	-	-	-	-	-
Ethylbenzene	ug/L	10	10	-	-	-	-	-
Total Xylene	ug/L	10	10	-	-	-	-	-
MTBE	ug/L	10	nv	-	-	-	-	-
BTEX	ug/L	10	nv	-	-	-	-	-
PAHs								
Naphthalene	ug/L	0.01	nv	-	-	-	-	-
Acenaphthylene	ug/L	0.01	nv	0.053	0.047	-	0.033	0.051
Acenaphthene	ug/L	0.01	nv	0.04	0.031	-	0.022	0.038
Fluorene	ug/L	0.01	nv	0.085	0.055	-	0.047	0.071
Phenanthrene	ug/L	0.01	nv	0.304	0.218	-	0.177	0.26
Anthracene	ug/L	0.01	nv	0.108	0.072	-	0.072	0.1
Fluoranthene*	ug/L	0.01	nv	0.145	0.205	-	0.1	0.151
Pyrene	ug/L	0.01	nv	0.093	0.17	-	0.071	0.098
Benzo(a)anthracene	ug/L	0.01	nv	0.066	0.162	-	-	0.079
Chrysene	ug/L	0.01	nv	0.015	0.04	-	0.01	0.017
Benzo(b)+Benzo(k)fluoranthene*	ug/L	0.01	nv	0.01	0.026	-	-	0.013
Benzo(a)pyrene*	ug/L	0.01	nv	-	-	-	-	-
Indeno(123cd)pyrene*	ug/L	0.01	nv	-	-	-	-	-
Dibenzo(ah)anthracene	ug/L	0.01	nv	-	-	-	-	-
Benzo(ghi)perylene*	ug/L	0.01	nv	-	-	-	-	-
Sum 6 PAHs	ug/L	nv	0.2	0.155	0.231	-	0.1	0.164
Total 16 EPA PAHs	ug/L	0.01	nv	0.93	1.038	-	0.552	0.888

EQS EPA Proposed Environmental Quality Standards for Surface Water
 xx Exceeds EQS for Surface Waters
 MDL Method Detection Limit
 - Less than the MDL
 na Not Analysed
 nv no value

Client: ESB
Project: ESB Great Island
Location: Great Island
Job No: 49341640
Table 19: Metals Laboratory Results - Surface Water

Sample Type				Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Sample ID				SW5	SW6	SW10	SW8	SW1
Date				07-Oct-08	08-Oct-08	08-Oct-08	08-Oct-08	08-Oct-08
Parameters	UNITS	MDL	EQS					
Metals								
Arsenic	mg/L	0.001	0.05	-	-	-	0.012	-
Cadmium	mg/L	0.0004	0.005	-	-	-	-	-
Chromium	mg/L	0.001	0.1	0.009	0.015	0.011	0.009	0.006
Copper	mg/L	0.001	0.05	0.027	0.007	0.002	0.005	-
Cobalt	mg/L	0.001	nv	-	-	-	-	-
Lead	mg/L	0.001	0.005	0.001	0.001	-	-	-
Mercury	mg/L	0.00005	0.0001	-	-	-	na	na
Molybdenum	mg/L	0.001	0.1	-	0.004	-	0.005	-
Nickel	mg/L	0.001	0.1	0.012	0.009	-	0.003	0.001
Selenium	mg/L	0.001	0.02	0.002	-	0.001	0.066	-
Vanadium	mg/L	0.001	nv	0.01	0.017	0.001	0.034	0.009
Zinc	mg/L	0.001	0.1	0.078	0.05	0.023	0.009	0.007

EQS	EPA Proposed Environmental Quality Standards for Surface Water
xx	Exceeds EQS for Surface Waters
MDL	Method Detection Limit
-	Less than the MDL
na	Not Analysed
nv	no value

Client: ESB
Project: ESB Great Island
Location: ESB Great Island
Job No: 49341640
Table 20: Various Laboratory Results - Surface Water

Sample Type				Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Sample ID				SW5	SW6	SW10	SW8	SW1
Date				07-Oct-08	08-Oct-08	08-Oct-08	08-Oct-08	08-Oct-08
Parameter								
Units								
MDL								
EQS								
Anions and Cations								
Aluminium	mg/L	0.002	0.2	0.082	0.110	0.062	0.060	0.061
Boron	mg/L	0.003	2	-	-	-	2.121	-
Barium	mg/L	0.001	0.1	0.011	0.002	0.005	0.033	0.042
Calcium	mg/L	0.12	nv	0.883	1.719	42.07	245.6	23.17
Chloride	mg/L	2	250	-	2	21	10,239	11
Iron	mg/L	0.002	1	0.121	0.098	0.057	0.091	1.147
Potassium (Total as K)	mg/L	0.2	nv	0.4	0.6	18.7	253.1	na
Manganese	mg/L	0.001	0.3	0.019	0.007	0.003	0.001	0.014
Sodium (Total as Na)	mg/L	0.2	nv	1.6	5.6	484.2	6,161	na
Sulphate	mg/L	5	200	7	10	na	1,404	6
Alkalinity as CaCO ₃	mg/L	1	nv	30	30	130	200	80
Total Hardness as CaCO ₃	mg/L	1	nv	3	7	118	3162	66
Total Dissolved Solids (TDS)	mg/L	5	nv	11	20	154	43	106
Nutrients								
Ammonia*	mg/L	0.257	0.8	0.514	0.386	0.2572	-	0.643
Nitrate (as NO ₃)	mg/L	0.3	50	-	1	na	-	na
Nitrite (as NO ₂)	mg/L	0.05	0.2	-	-	-	0.35	0.96
Phosphate	mg/L	0.03	0.05	-	1.39	0.1	0.13	0.32
Miscellaneous								
Total Phenols	mg/L	0.01	0.0005	0.04	0.04	0.05	0.04	0.04
Total Cyanide	mg/L	0.05	0.01	-	-	-	-	-
PCB Total of 7 Congeners	ug/L	0.001	1.0	-	-	-	-	-
VOCs	ug/L	1.000	nv	-	-	-	-	-

EQS	EPA Proposed Environmental Quality Standards for Surface Water
xx	Exceeds EQS for Surface Waters
MDL	Method Detection Limit
-	Less than the MDL
na	Not Analysed
nv	no value
*	Conversion factor of 1.286 used to convert ammoniacial nitrogen (as N) to ammonia (as ammonium as NH ₄)

Client: ESB
Project: ESB Great Island
Location: ESB Great Island
Job No: 49341640
Table 21: Biological Laboratory Results - Surface Water

Sample Type				Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Sample ID				SW5	SW6	SW10	SW8	SW1
Date				07-Oct-08	08-Oct-08	08-Oct-08	08-Oct-08	08-Oct-08
Parameter	Units	MDL	EQS					
Biological								
Biological Oxygen Demand (BOD)	mg/L	2	4	-	-	-	-	-
Total coliforms	cfu/100ml	1	5000	4	20,000	900	2,300	9
Faecal coliforms	cfu/100ml	1	1000	-	6	10	-	-

EQS	EPA Proposed Environmental Quality Standards for Surface Water
xx	Exceeds EQS for Surface Waters
MDL	Method Detection Limit
-	Less than the MDL
na	Not Analysed
nv	no value

Appendix A - Photographs

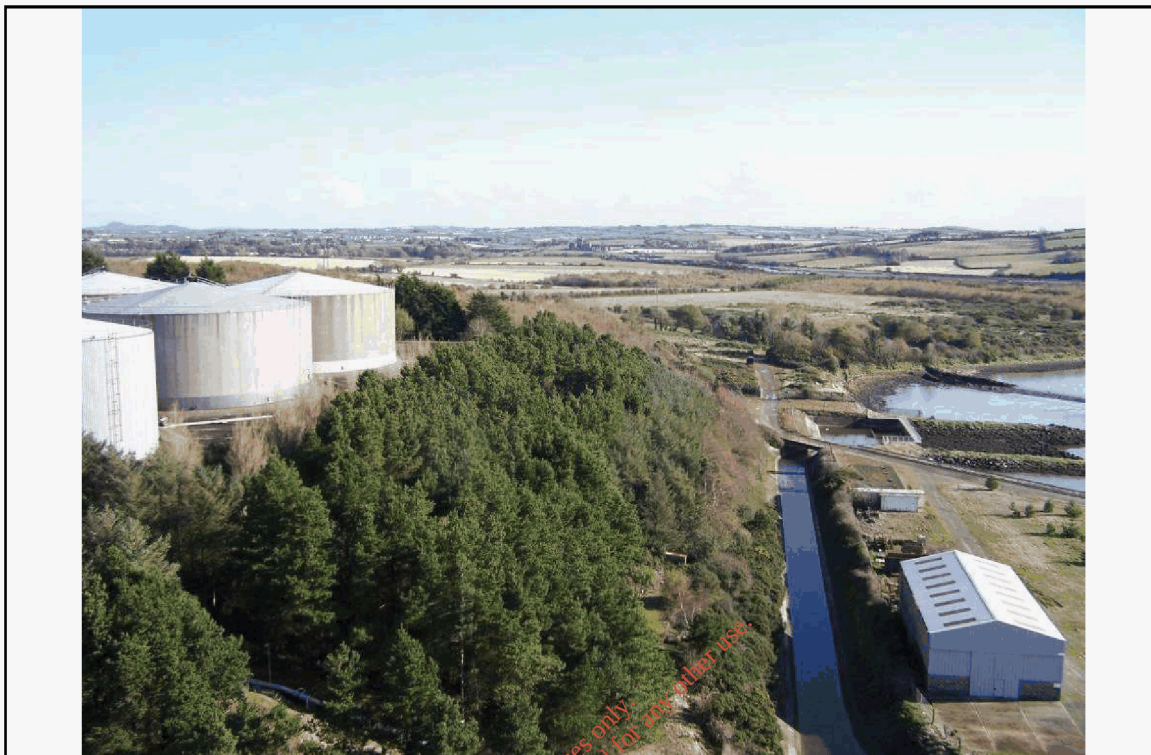
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Location No: 1 View north from Power Gen building rooftop.



Location No: 1 View northeast from Power Generating building rooftop.



Location No: 1 View east from Power Gen building rooftop.



Location No: 1 View southeast from Power Gen building rooftop.



Location No: 1 View northwest from Power Gen building rooftop.



Location No: 2 View north from Jetty towards generating building.



Location No: 2 View northeast from Jetty.



Location No: 3 View northeast from Jetty



Photographs

Location No: 3

View east from Jetty.



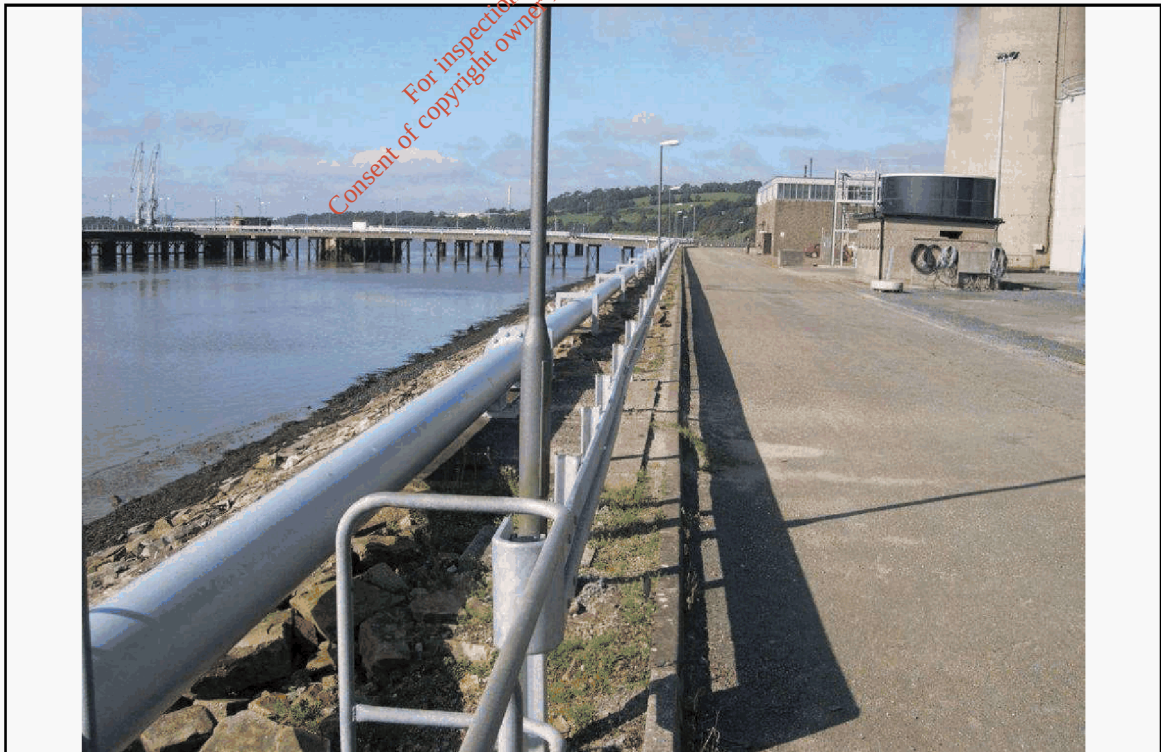
Location No: 3

View west from Jetty.





Location No: 4 Stripping Tank.



Location No: 4 View west along foreshore.



Location No: 5 View north west towards Power Gen building.



Location No: 6 View west towards chimneys.



Photographs



Location No: 7

View west towards chimneys.



Location No: 8

View west along water channel.



Location No: 8 View south at water channel out flow.



Location No: 9 View southeast.



Photographs



Location No: 10 View north 220 kV switching yard.



Location No: 11 View northeast 220 kV switching yard.



Location No: 12 View south of the woods.



Location No: 13 View southwest 110 kV switching yard.



Photographs



Location No: 14 View of the water treatment plant.



Location No: 15 View east along laneway to landfill cells.



Location No: 16 View southeast along drain between two cells.



Location No: 17 View north of former disposal cells.



Location No: 18 View south of drain between two cells.



Location No: 19 View south of cells.



Location No: 19 View south west of cells.



Location No: 20 View east along tank farm.



Photographs

Location No: 21

View west along tank farm.

A photograph showing a large, cylindrical, light-colored storage tank. A concrete walkway runs alongside the tank, and a grassy area is visible in the foreground. A person is standing on the grass, looking towards the tank. A red diagonal watermark is present across the image.

Location No: 21

View north along tank farm.

A photograph showing a large, cylindrical, light-colored storage tank. A concrete walkway runs alongside the tank, and a grassy area is visible in the foreground. A person is standing on the grass, looking towards the tank. A red diagonal watermark is present across the image.



Location No: 22 View northwest 220kV switching yard.



Location No: 22 View north 220kV switching yard.



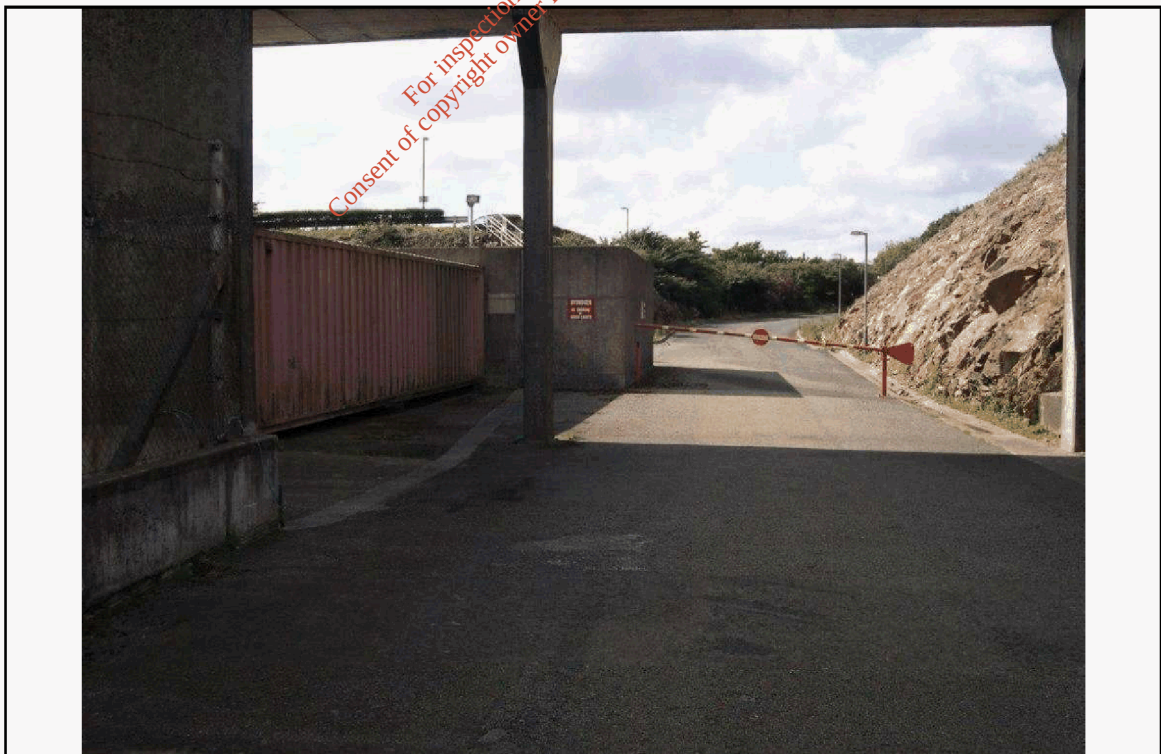
Location No: 23 View southwest 110 kV switching yard.



Location No: 24 View northwest 110 kV switching yard.



Location No: 25 View east at rear of main building.



Location No: 26 View west at rear of main building.



Location No: 27 View west at rear of main building.



Location No: 28 Looking south from rear of main building.



Location No: 29 View south east along the foreshore.



Location No: 30 View south east of woods.



Location No: 31 View east towards main building.

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Panoramic Elevated Photographs



Photograph No: 1 Eastward View showing HFO Tank Farm to right and 220 kV Switching Yard to the left



Photograph No: 2 Eastward View showing temporary roadway along the northern site boundary in the foreground and Estuary in the background – Main plant to the left.

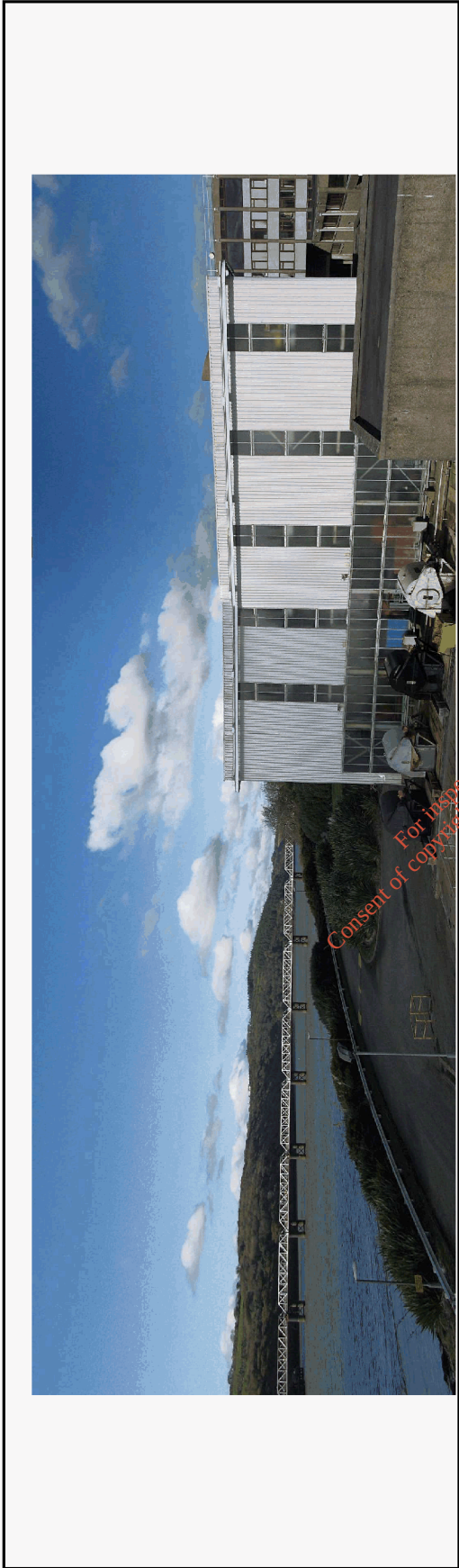
Panoramic Elevated Photographs



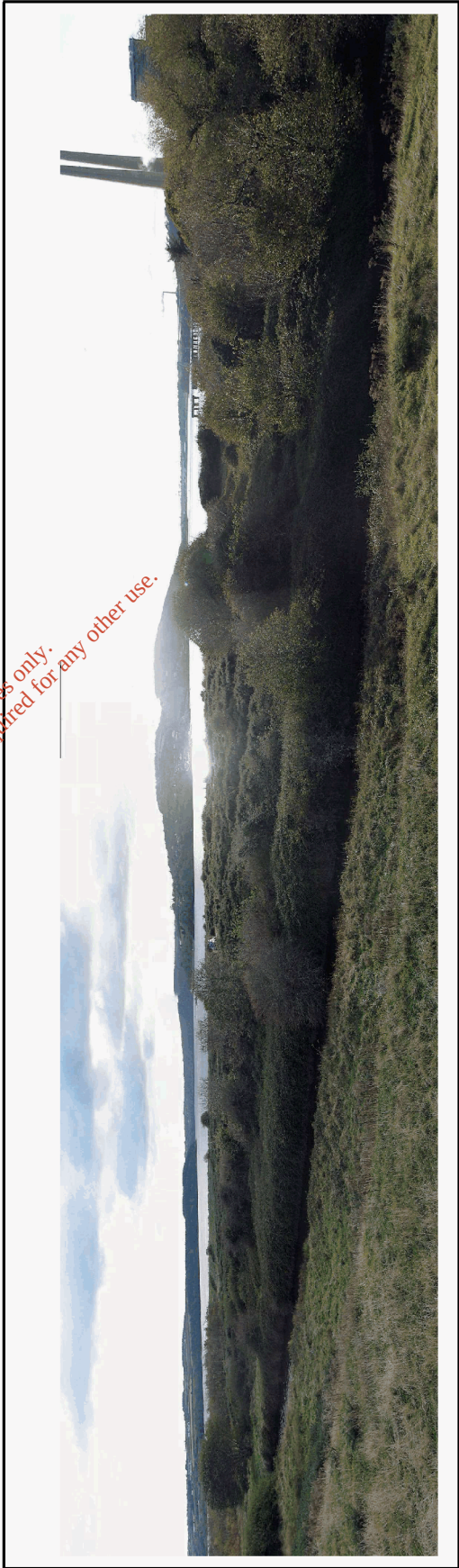
Photograph No: 3 Southward View showing water reservoir in the foreground and main power station area beyond



Photograph No: 4 Westward View showing Oil Stripping Tank in the middle foreground, main Power Gen Building in the centre and the southern site boundary (with the Estuary) to the left



Photograph No: 5 North-westward View showing cooling water treatment building in foreground, the Estuary to the left and railway bridge in the background.



Photograph No: 6 West Westward view of the Former Site Disposal Area

Panoramic Elevated Photographs



Photograph No: 6 East Eastward View from the Former Site Disposal Area



Photograph No: 7 Southward View showing Main Power Generation Building, Car park and Jetty in the right mid-ground

Appendix B - Investigation Logs

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Fax: 01 4155101

EXPLORATORY HOLE LOG

Project Name and Site Location Great Island Power Station, Phase 2 Environmental Investigation			Client Electricity Supply Board		BOREHOLE No BH201
Job No 49341640	Date Start Date 29-09-08 End Date 29-09-08	Ground Level (m) 4.09	Co-Ordinates () E 268,824.00 N 114,563.00		
Contractor Glover		Method / Plant Used Air Rotary			Sheet 1 of 4

Depth BGL	Sample / Test Details	PID (ppm)	Water	STRATA			
				Legend	Depth (Thickness)	DESCRIPTION	COMMENTS
0.5	BH201 1m	0			(0.40)	MADEGROUND Loose, grey gravel.	NEC
					0.40	CLAY Stiff, brown-grey, silty, sandy clay with boulders.	NEC
1.0							
1.5							
2.0	BH201 2m	0			(3.20)		
2.5							
3.0							

WELL INSTALLATION DETAILS

-  Top Cap: 1 pipe group, 1st pipe
-  Bentonite seal riser
-  Filter pack screen
-  Cement seal riser
-  Filter pack riser

SAMPLE TYPE DETAILS

LEGEND

-  Gravel
-  Gravelly SILT/CLAY
-  Sandy SILT/CLAY with gravel
-  Bedrock

-  Groundwater Table
 -  Water Strike
- bgl = Below Ground Level

GENERAL REMARKS

NEC = No evidence of contamination.

Logged By

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Approved By

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EXPLORATORY HOLE LOG 21/09/07 LOGS.GPJ AGS3 ALL.GDT 10/12/08



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6-8 Harcourt Road,
Dublin 2, Ireland.
Telephone: 01 4155100
Fax: 01 4155101

EXPLORATORY HOLE LOG

Project Name and Site Location Great Island Power Station, Phase 2 Environmental Investigation			Client Electricity Supply Board		BOREHOLE No BH201
Job No 49341640	Date Start Date 29-09-08 End Date 29-09-08	Ground Level (m) 4.09	Co-Ordinates () E 268,824.00 N 114,563.00		
Contractor Glover		Method / Plant Used Air Rotary			Sheet 2 of 4

Depth BGL	Sample / Test Details	PID (ppm)	Water	STRATA			
				Legend	Depth (Thickness)	DESCRIPTION	COMMENTS
3.5	BH201 3m	0			3.60	CLAY Stiff, brown-grey, silty, sandy clay with boulders. (continued)	NEC (continued)
4.0	BH201 4m	0			(1.50)	CLAY Stiff, brown-grey, sandy, gravelly clay with boulders.	NEC
4.5							
5.0					5.10	BEDROCK Hard pink-yellow bedrock	NEC
5.5							
6.0							

WELL INSTALLATION DETAILS

- Top Cap: 1 pipe group, 1st pipe
- Bentonite seal riser
- Filter pack screen
- Cement seal riser
- Filter pack riser

SAMPLE TYPE DETAILS

LEGEND

- Gravel
- Gravelly SILT/CLAY
- Sandy SILT/CLAY with gravel
- Bedrock

- Groundwater Table
bgl = Below Ground Level
- Water Strike

GENERAL REMARKS

NEC = No evidence of contamination.

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EXPLORATORY HOLE LOG 21/09/07 LOGS.GPJ AGS3 ALL.GDT 10/12/08



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6-8 Harcourt Road,
Dublin 2, Ireland.
Telephone: 01 4155100
Fax: 01 4155101

EXPLORATORY HOLE LOG

Project Name and Site Location Great Island Power Station, Phase 2 Environmental Investigation			Client Electricity Supply Board		BOREHOLE No BH201
Job No 49341640	Date Start Date 29-09-08 End Date 29-09-08	Ground Level (m) 4.09	Co-Ordinates () E 268,824.00 N 114,563.00		
Contractor Glover		Method / Plant Used Air Rotary			Sheet 3 of 4

Depth BGL	Sample / Test Details	PID (ppm)	Water	STRATA			COMMENTS	Installation / Backfill
				Legend	Depth (Thickness)	DESCRIPTION		
6.5						BEDROCK Hard pink-yellow bedrock (<i>continued</i>)	NEC (<i>continued</i>)	
7.0								
7.5					(4.90)			
8.0								
8.5								
9.0								
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WELL INSTALLATION DETAILS

- | | |
|---------------------------------|-------------------|
| Top Cap: 1 pipe group, 1st pipe | Cement seal riser |
| Bentonite seal riser | Filter pack riser |
| Filter pack screen | |

SAMPLE TYPE DETAILS

LEGEND

- | | |
|--------------------|-----------------------------|
| Gravel | Sandy SILT/CLAY with gravel |
| Gravelly SILT/CLAY | Bedrock |

- | | |
|--------------------------|--------------|
| Groundwater Table | Water Strike |
| bgl = Below Ground Level | |

GENERAL REMARKS

NEC = No evidence of contamination.

Logged By

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GB

EXPLORATORY HOLE LOG 21/09/07 LOGS.GPJ AGS3 ALL.GDT 10/12/08



EXPLORATORY HOLE LOG

Project Name and Site Location Great Island Power Station, Phase 2 Environmental Investigation			Client Electricity Supply Board		BOREHOLE No BH201
Job No 49341640	Date Start Date 29-09-08 End Date 29-09-08	Ground Level (m) 4.09	Co-Ordinates () E 268,824.00 N 114,563.00		
Contractor Glover		Method / Plant Used Air Rotary			Sheet 4 of 4

[illegible]

WELL INSTALLATION DETAILS		LEGEND		GENERAL REMARKS	
 Top Cap: 1 pipe group, 1st pipe  Bentonite seal riser  Filter pack screen		 Cement seal riser  Filter pack riser		 Gravel  Gravelly SILT/CLAY  Sandy SILT/CLAY with gravel  Bedrock	
SAMPLE TYPE DETAILS		 Groundwater Table  Water Strike bgl = Below Ground Level		NEC = No evidence of contamination.	
		Logged By	RR	Approved By	GB

EXPLORATORY HOLE LOG 21/09/07 LOGS.GPJ AGS3 ALL.GDT 10/12/08

10.00

End of hole at 10m.

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EXPLORATORY HOLE LOG

Project Name and Site Location Great Island Power Station, Phase 2 Environmental Investigation			Client Electricity Supply Board		BOREHOLE No BH202
Job No 49341640	Date Start Date 30-09-08 End Date 30-09-08	Ground Level (m) 3.64	Co-Ordinates () E 268,845.00 N 114,531.00		
Contractor Glover		Method / Plant Used Air Rotary			Sheet 1 of 3

Depth BGL	Sample / Test Details	PID (ppm)	Water	STRATA			
				Legend	Depth (Thickness)	DESCRIPTION	COMMENTS
				↓	0.10	TARMAC	NEC
					(0.20)	MADEGROUND Dense gravel, hardcore.	NEC
0.5					0.30	BOULDERS No bedrock interface found. Boulders.	NEC
1.0							
1.5							
2.0					(3.30)		
2.5							
3.0							

WELL INSTALLATION DETAILS

- Top Cap: 1 pipe group, 1st pipe
- Bentonite seal riser
- Filter pack screen
- Cement seal riser
- Filter pack riser

SAMPLE TYPE DETAILS

LEGEND

- Road Pavement
- Made Ground (Fill)
- Bedrock
- Boulders and cobbles

- Groundwater Table
 - Water Strike
- bgl = Below Ground Level

GENERAL REMARKS

NEC = No evidence of contamination.

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EXPLORATORY HOLE LOG 21/09/07 LOGS.GPJ AGS3 ALL.GDT 10/12/08



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Dublin 2, Ireland.
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Fax: 01 4155101

EXPLORATORY HOLE LOG

Project Name and Site Location Great Island Power Station, Phase 2 Environmental Investigation			Client Electricity Supply Board		BOREHOLE No BH202
Job No 49341640	Date Start Date 30-09-08 End Date 30-09-08	Ground Level (m) 3.64	Co-Ordinates () E 268,845.00 N 114,531.00		
Contractor Glover		Method / Plant Used Air Rotary			Sheet 2 of 3

Depth BGL	Sample / Test Details	PID (ppm)	Water	STRATA			COMMENTS	Installation / Backfill
				Legend	Depth (Thickness)	DESCRIPTION		
3.5					3.60	BOULDERS No bedrock interface found. Boulders. (continued)	NEC (continued)	
4.0						Some clay with boulders.	NEC	
4.5								
5.0					(2.80)			
5.5								
6.0								

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WELL INSTALLATION DETAILS

- | | |
|---------------------------------|-------------------|
| Top Cap: 1 pipe group, 1st pipe | Cement seal riser |
| Bentonite seal riser | Filter pack riser |
| Filter pack screen | |

SAMPLE TYPE DETAILS

LEGEND

- | | |
|---|----------------------|
| Road Pavement | Boulders and cobbles |
| Made Ground (Fill) | |
| Bedrock | |
| Groundwater Table
bgl = Below Ground Level | Water Strike |

GENERAL REMARKS

NEC = No evidence of contamination.

Logged By

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EXPLORATORY HOLE LOG 21/09/07 LOGS.GPJ AGS3 ALL.GDT 10/12/08



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6-8 Harcourt Road,
Dublin 2, Ireland.
Telephone: 01 4155100
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EXPLORATORY HOLE LOG

Project Name and Site Location Great Island Power Station, Phase 2 Environmental Investigation			Client Electricity Supply Board		BOREHOLE No BH202
Job No 49341640	Date Start Date 30-09-08 End Date 30-09-08	Ground Level (m) 3.64	Co-Ordinates () E 268,845.00 N 114,531.00		
Contractor Glover		Method / Plant Used Air Rotary		Sheet 3 of 3	

Depth BGL	Sample / Test Details	PID (ppm)	Water	STRATA			
				Legend	Depth (Thickness)	DESCRIPTION	COMMENTS
6.5					6.40	Some clay with boulders. (continued)	NEC (continued)
					(0.60)	BEDROCK	
					7.00		
7.0						End of hole at 7m.	

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WELL INSTALLATION DETAILS

- Top Cap: 1 pipe group, 1st pipe
- Bentonite seal riser
- Filter pack screen
- Cement seal riser
- Filter pack riser

SAMPLE TYPE DETAILS

LEGEND

- Road Pavement
- Made Ground (Fill)
- Bedrock
- Boulders and cobbles

- Groundwater Table
 - Water Strike
- bgl = Below Ground Level

GENERAL REMARKS

NEC = No evidence of contamination.

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EXPLORATORY HOLE LOG 21/09/07 LOGS.GPJ AGS3 ALL.GDT 10/12/08



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Dublin 2, Ireland.
Telephone: 01 4155100
Fax: 01 4155101

EXPLORATORY HOLE LOG

Project Name and Site Location Great Island Power Station, Phase 2 Environmental Investigation		Client Electricity Supply Board		BOREHOLE No BH203
Job No 49341640	Date Start Date 30-09-08 End Date 30-09-08	Ground Level (m) 3.73	Co-Ordinates () E 268,732.00 N 114,531.00	
Contractor Glover		Method / Plant Used Air Rotary		Sheet 1 of 4

Depth BGL	Sample / Test Details	PID (ppm)	Water	STRATA			
				Legend	Depth (Thickness)	DESCRIPTION	COMMENTS
				↓ ↓	(0.20)	TARMAC	NEC
				0.20			
				⊗	(0.30)	MADEGROUND Hardcore with ash.	NEC
0.5				0.50			
				○		BOULDERS Large boulders.	NEC
1.0							
					(2.00)		
1.5							
2.0							
					2.50		
2.5				○		Very soft gravelly clay.	NEC
3.0							

WELL INSTALLATION DETAILS

- | | |
|---------------------------------|-------------------|
| Top Cap: 1 pipe group, 1st pipe | Cement seal riser |
| Bentonite seal riser | Filter pack riser |
| Filter pack screen | |

SAMPLE TYPE DETAILS

LEGEND

- | | |
|----------------------|--------------------|
| Road Pavement | Made Ground (Fill) |
| Boulders and cobbles | Gravelly Clay |
| Bedrock | |

- Groundwater Table
bgl = Below Ground Level
- Water Strike

GENERAL REMARKS

NEC = No evidence of contamination.

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EXPLORATORY HOLE LOG

Project Name and Site Location Great Island Power Station, Phase 2 Environmental Investigation			Client Electricity Supply Board		BOREHOLE No BH203
Job No 49341640	Date Start Date 30-09-08 End Date 30-09-08	Ground Level (m) 3.73	Co-Ordinates () E 268,732.00 N 114,531.00		
Contractor Glover		Method / Plant Used Air Rotary			Sheet 2 of 4

Depth BGL	Sample / Test Details	PID (ppm)	Water	STRATA			
				Legend	Depth (Thickness)	DESCRIPTION	COMMENTS
	BH203 3m	0			(1.10)	Very soft gravelly clay. (continued)	NEC (continued)
3.5							
					3.60	BEDROCK	
4.0							
4.5							
5.0							
5.5							
6.0							

WELL INSTALLATION DETAILS

- | | |
|---------------------------------|-------------------|
| Top Cap: 1 pipe group, 1st pipe | Cement seal riser |
| Bentonite seal riser | Filter pack riser |
| Filter pack screen | |

SAMPLE TYPE DETAILS

LEGEND

- | | |
|----------------------|--------------------|
| Road Pavement | Made Ground (Fill) |
| Boulders and cobbles | Gravelly Clay |
| Bedrock | |

- Groundwater Table
bgl = Below Ground Level
- Water Strike

GENERAL REMARKS

NEC = No evidence of contamination.

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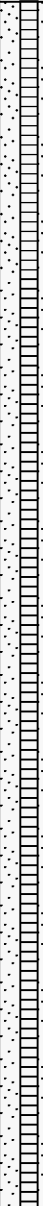
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Dublin 2, Ireland.
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Fax: 01 4155101

EXPLORATORY HOLE LOG

Project Name and Site Location Great Island Power Station, Phase 2 Environmental Investigation		Client Electricity Supply Board		BOREHOLE No BH203
Job No 49341640	Date Start Date 30-09-08 End Date 30-09-08	Ground Level (m) 3.73	Co-Ordinates () E 268,732.00 N 114,531.00	
Contractor Glover		Method / Plant Used Air Rotary		Sheet 3 of 4

Depth BGL	Sample / Test Details		PID (ppm)	Water	STRATA				COMMENTS	Installation / Backfill
					Legend	Depth (Thickness)	DESCRIPTION			
							BEDROCK <i>(continued)</i>			
6.5						(5.40)	For inspection purposes only. Consent of copyright owner required for any other use.			
7.0										
7.5										
8.0										
8.5										
9.0										

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WELL INSTALLATION DETAILS

- | | |
|---------------------------------|-------------------|
| Top Cap: 1 pipe group, 1st pipe | Cement seal riser |
| Bentonite seal riser | Filter pack riser |
| Filter pack screen | |

SAMPLE TYPE DETAILS

LEGEND

- | | |
|----------------------|--------------------|
| Road Pavement | Made Ground (Fill) |
| Boulders and cobbles | Gravelly Clay |
| Bedrock | |

- Groundwater Table
bgl = Below Ground Level
- Water Strike

GENERAL REMARKS

NEC = No evidence of contamination.

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EXPLORATORY HOLE LOG

Project Name and Site Location Great Island Power Station, Phase 2 Environmental Investigation			Client Electricity Supply Board		BOREHOLE No BH203
Job No 49341640	Date Start Date 30-09-08 End Date 30-09-08	Ground Level (m) 3.73	Co-Ordinates () E 268,732.00 N 114,531.00		
Contractor Glover		Method / Plant Used Air Rotary		Sheet 4 of 4	

STRATA									
Depth BGL	Sample / Test Details		PID (ppm)	Water	Legend	Depth (Thickness)	DESCRIPTION	COMMENTS	Installation /Backfill
							End of hole at 9.0m.		

WELL INSTALLATION DETAILS		LEGEND		GENERAL REMARKS	
 Top Cap: 1 pipe group, 1st pipe  Bentonite seal riser  Filter pack screen		 Cement seal riser  Filter pack riser  Road Pavement  Boulders and cobbles  Bedrock  Made Ground (Fill)  Gravelly Clay		NEC = No evidence of contamination.	
SAMPLE TYPE DETAILS		 Groundwater Table  Water Strike bgl = Below Ground Level			
		Logged By	RR	Approved By	GB

EXPLORATORY HOLE LOG 21/09/07 LOGS.GPJ AGS3 ALL.GDT 10/12/08



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EXPLORATORY HOLE LOG

Project Name and Site Location Great Island Power Station, Phase 2 Environmental Investigation		Client Electricity Supply Board		BOREHOLE No TP101
Job No 49341640	Date Start Date 29-09-08 End Date 29-09-08	Ground Level (m)	Co-Ordinates ()	
Contractor Robinson & Birdsell		Method / Plant Used 4 Ton mini digger		Sheet 1 of 1

Depth BGL	Sample / Test Details		PID (ppm)	Water	STRATA					
					Legend	Depth (Thickness)	DESCRIPTION		COMMENTS	Installation /Backfill
0.5		TP101 0.5	0.0			(0.40)	SAND Loose, brown, silty sand.		NEC	
						0.40	BEDROCK		NEC	
						0.50	Refusal at 0.5m.			
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WELL INSTALLATION DETAILS		LEGEND		GENERAL REMARKS NEC = No evidence of contamination.	
SAMPLE TYPE DETAILS ☐ Jar		 Silty Sand  Bedrock  Groundwater Table  Water Strike bgl = Below Ground Level			
		Logged By	MR	Approved By	GB

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EXPLORATORY HOLE LOG

Project Name and Site Location Great Island Power Station, Phase 2 Environmental Investigation			Client Electricity Supply Board		BOREHOLE No TP102
Job No 49341640	Date Start Date 29-09-08 End Date 29-09-08	Ground Level (m)	Co-Ordinates ()		
Contractor Robinson & Birdsell		Method / Plant Used 4 Ton mini digger			Sheet 1 of 1

Depth BGL	Sample / Test Details	PID (ppm)	Water	STRATA			COMMENTS	Installation / Backfill
				Legend	Depth (Thickness)	DESCRIPTION		
0.5	TP102 0.5	0.2			(0.40)	SAND Loose, brown, silty-sand.	NEC	
					0.40 0.50	BEDROCK (layered and fractured). Refusal at 0.5m.	NEC	

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WELL INSTALLATION DETAILS		LEGEND		GENERAL REMARKS NEC = No evidence of contamination.	
SAMPLE TYPE DETAILS ☐ Jar		 Silty Sand  Bedrock  Groundwater Table  Water Strike bgl = Below Ground Level			
		Logged By	MR	Approved By	GB

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EXPLORATORY HOLE LOG

Project Name and Site Location Great Island Power Station, Phase 2 Environmental Investigation			Client Electricity Supply Board		BOREHOLE No TP103
Job No 49341640	Date Start Date 29-09-08 End Date 29-09-08	Ground Level (m)	Co-Ordinates ()		
Contractor Robinson & Birdsell		Method / Plant Used 4 Ton mini digger			Sheet 1 of 1

Depth BGL	Sample / Test Details	PID (ppm)	Water	STRATA			
				Legend	Depth (Thickness)	DESCRIPTION	COMMENTS
0.5	TP103 0.5	0.0			(0.50)	SAND Loose, brown, silty-sand.	NEC
					0.50 (0.20)	BEDROCK (fractured and layered).	NEC
					0.70	Refused at 0.7m.	

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WELL INSTALLATION DETAILS		LEGEND		GENERAL REMARKS NEC = No evidence of contamination.
SAMPLE TYPE DETAILS ☐ Jar		Silty Sand Bedrock Groundwater Table Water Strike bgl = Below Ground Level		
		Logged By	MR	Approved By GB

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EXPLORATORY HOLE LOG

Project Name and Site Location Great Island Power Station, Phase 2 Environmental Investigation		Client Electricity Supply Board		BOREHOLE No TP104
Job No 49341640	Date Start Date 30-09-08 End Date 30-09-08	Ground Level (m)	Co-Ordinates ()	
Contractor Robinson & Birdsell		Method / Plant Used 4 Ton mini digger		Sheet 1 of 1

Depth BGL	Sample / Test Details	PID (ppm)	Water	STRATA			COMMENTS	Installation / Backfill
				Legend	Depth (Thickness)	DESCRIPTION		
0.5	TP104 0.5	0.0			(0.15) 0.15	MADEGROUND Slightly loose, grey, clay-silt.	NEC	
					(0.15) 0.30	SAND Loose, yellow, silty-sand.	NEC	
					(1.40)	SAND Loose, brown, silty-sand with some pebbles up to 15cm in length.	NEC	
1.0	TP104 1.0	0.0			(1.40)			
1.5	TP104 1.5	0.0			1.70			
					(0.20) 1.90	BEDROCK (layered and fractured).	NEC	
						Refused at 1.9 m.		

EXPLORATORY HOLE LOG 21/09/07 LOGS.GPJ AGSS ALL.GDT 10/12/08

WELL INSTALLATION DETAILS		LEGEND		GENERAL REMARKS NEC = No evidence of contamination.	
SAMPLE TYPE DETAILS ☐ Jar		Made Ground (Fill)	Silty Sand		
		Bedrock	Groundwater Table bgl = Below Ground Level		Water Strike
		Logged By	MR	Approved By	GB



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EXPLORATORY HOLE LOG

Project Name and Site Location Great Island Power Station, Phase 2 Environmental Investigation		Client Electricity Supply Board		BOREHOLE No TP105
Job No 49341640	Date Start Date 30-09-08 End Date 30-09-08	Ground Level (m)	Co-Ordinates ()	
Contractor Robinson & Birdsell		Method / Plant Used 4 Ton mini digger		Sheet 1 of 1

Depth BGL	Sample / Test Details	PID (ppm)	Water	STRATA			COMMENTS	Installation / Backfill
				Legend	Depth (Thickness)	DESCRIPTION		
0.5	TP105 0.5	0.4		x	(1.00)	SAND Loose, brown, silty-sand.	NEC	
1.0	TP105 1.0	0.2		x	1.00			
1.5	TP105 1.5	0.3		x	(0.80)	SAND Slightly compact, brown, silty-sand containing some pebbles up to 10cm in length.	NEC	
2.0	TP105 2.0	0.4			1.80			
					(0.30)	BEDROCK (layered and fractured).	NEC	
					2.10	Refused at 2.1.		

WELL INSTALLATION DETAILS

LEGEND

GENERAL REMARKS

SAMPLE TYPE DETAILS

☐ Jar



Silty Sand



Bedrock



Groundwater Table



Water Strike

bgl = Below Ground Level

NEC = No evidence of contamination.

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EXPLORATORY HOLE LOG

Project Name and Site Location Great Island Power Station, Phase 2 Environmental Investigation			Client Electricity Supply Board		BOREHOLE No TP106
Job No 49341640	Date Start Date 30-09-08 End Date 30-09-08	Ground Level (m)	Co-Ordinates ()		
Contractor Robinson & Birdsell		Method / Plant Used 4 Ton mini digger			Sheet 1 of 1

Depth BGL	Sample / Test Details	PID (ppm)	Water	STRATA			
				Legend	Depth (Thickness)	DESCRIPTION	COMMENTS
0.5	TP106 0.5	0.6			(1.40)	SAND Loose, brown, silty-sand.	NEC
1.5	TP106 1.5	1.0			(0.30)	BEDROCK (layered and fractured).	NEC
					1.70	Refused 1.7m.	

WELL INSTALLATION DETAILS

LEGEND

GENERAL REMARKS

SAMPLE TYPE DETAILS

☐ Jar



Silty Sand



Bedrock



Groundwater Table



Water Strike

bgl = Below Ground Level

NEC = No evidence of contamination.

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EXPLORATORY HOLE LOG

Project Name and Site Location Great Island Power Station, Phase 2 Environmental Investigation			Client Electricity Supply Board		BOREHOLE No TP107
Job No 49341640	Date Start Date 30-09-08 End Date 30-09-08	Ground Level (m)	Co-Ordinates ()		
Contractor Robinson & Birdsell			Method / Plant Used 4 Ton mini digger		Sheet 1 of 1

Depth BGL	Sample / Test Details	PID (ppm)	Water	STRATA			COMMENTS	Installation / Backfill
				Legend	Depth (Thickness)	DESCRIPTION		
					0.10	SAND Loose, brown, silty-sand.	NEC	
					0.20	BEDROCK (layered and fractured). Refused at 0.2m.	NEC	

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WELL INSTALLATION DETAILS		LEGEND		GENERAL REMARKS NEC = No evidence of contamination.	
SAMPLE TYPE DETAILS		 Silty Sand  Bedrock  Groundwater Table  Water Strike bgl = Below Ground Level			
		Logged By	MR	Approved By	GB

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EXPLORATORY HOLE LOG

Project Name and Site Location Great Island Power Station, Phase 2 Environmental Investigation			Client Electricity Supply Board		BOREHOLE No TP108
Job No 49341640	Date Start Date 30-09-08 End Date 30-09-08	Ground Level (m)	Co-Ordinates ()		
Contractor Robinson & Birdsell		Method / Plant Used 4 Ton mini digger			Sheet 1 of 1

STRATA									
Depth BGL	Sample / Test Details		PID (ppm)	Water	Legend	Depth (Thickness)	DESCRIPTION	COMMENTS	Installation /Backfill
0.5		TP108 0.5	0.0			(0.40) 0.40	SAND Pebbles up to 10cm in length and loose, brown silty-sand.	NEC	
						0.50	BEDROCK (layered and fractured). Refused at 0.5m.	NEC	
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WELL INSTALLATION DETAILS		LEGEND		GENERAL REMARKS NEC = No evidence of contamination.	
SAMPLE TYPE DETAILS ☐ Jar		 Silty Sand  Bedrock  Groundwater Table  Water Strike bgl = Below Ground Level			
		Logged By	MR	Approved By	GB

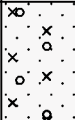
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EXPLORATORY HOLE LOG

Project Name and Site Location Great Island Power Station, Phase 2 Environmental Investigation			Client Electricity Supply Board		BOREHOLE No TP109
Job No 49341640	Date Start Date 30-09-08 End Date 30-09-08	Ground Level (m)	Co-Ordinates ()		
Contractor Robinson & Birdsell		Method / Plant Used 4 Ton mini digger			Sheet 1 of 1

Depth BGL	Sample / Test Details	PID (ppm)	Water	STRATA				
				Legend	Depth (Thickness)	DESCRIPTION	COMMENTS	Installation /Backfill
		TP109 0.5	0.1		(0.30)	SAND Loose, brown, silty-sand containing cobbles/pebbles up to 20cm in length.	NEC	
				0.30				
					0.40	BEDROCK (layered and fractured).	NEC	
End of hole at 0.4m.								
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WELL INSTALLATION DETAILS

LEGEND

GENERAL REMARKS

SAMPLE TYPE DETAILS

☐ Jar



Gravelly Silty Sand



Bedrock



Groundwater Table



Water Strike

bgl = Below Ground Level

NEC = No evidence of contamination.

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EXPLORATORY HOLE LOG

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EXPLORATORY HOLE LOG

Project Name and Site Location Great Island Power Station, Phase 2 Environmental Investigation			Client Electricity Supply Board		BOREHOLE No TP111
Job No 49341640	Date Start Date 30-09-08 End Date 30-09-08	Ground Level (m)	Co-Ordinates ()		
Contractor Robinson & Birdsell			Method / Plant Used 4 Ton mini digger		Sheet 1 of 1

Depth BGL	Sample / Test Details	PID (ppm)	Water	STRATA			
				Legend	Depth (Thickness)	DESCRIPTION	COMMENTS
	TP111 0.5m	0.0			0.05	TOPSOIL	NEC
					(0.15)	Thin layer of dark organic silt.	NEC
					0.20	PEBBLES	
						Pebbles with loose grey clay-silt.	
					(0.20)	BEDROCK	
					0.40	(layered and fractured).	
						Refused at 0.4m.	

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WELL INSTALLATION DETAILS		LEGEND		GENERAL REMARKS NEC = No evidence of contamination.	
SAMPLE TYPE DETAILS ☐ Jar		 Topsoil  Bedrock  SAND & GRAVEL with silt  Groundwater Table  Water Strike bgl = Below Ground Level			
		Logged By	MR	Approved By	GB

EXPLORATORY HOLE LOG 21/09/07 LOGS.GPJ AGS3 ALL.GDT 10/12/08



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EXPLORATORY HOLE LOG

Project Name and Site Location Great Island Power Station, Phase 2 Environmental Investigation			Client Electricity Supply Board		BOREHOLE No TP112
Job No 49341640	Date Start Date 01-10-08 End Date 01-10-08	Ground Level (m)	Co-Ordinates ()		
Contractor Robinson & Birdsell			Method / Plant Used 4 Ton mini digger		Sheet 1 of 1

Depth BGL	Sample / Test Details	PID (ppm)	Water	STRATA			
				Legend	Depth (Thickness)	DESCRIPTION	COMMENTS
0.5	TP112 0.5m	0.1				SAND Loose, brown silty-sand.	NEC
1.0					(2.00)		
1.5	TP112 1.5m	0.0					
2.0					2.00 (0.20) 2.20	BEDROCK (Layered and fractured).	NEC
						Refusal at 2.2 m bgl.	

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WELL INSTALLATION DETAILS

LEGEND

GENERAL REMARKS

SAMPLE TYPE DETAILS

☐ Jar



Silty/Clayey SAND



Bedrock



Groundwater Table



Water Strike

bgl = Below Ground Level

NEC = No evidence of contamination.

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EXPLORATORY HOLE LOG

Project Name and Site Location Great Island Power Station, Phase 2 Environmental Investigation			Client Electricity Supply Board		BOREHOLE No TP113
Job No 49341640	Date Start Date 01-10-08 End Date 01-10-08	Ground Level (m)	Co-Ordinates ()		
Contractor Robinson & Birdsell			Method / Plant Used 4 Ton mini digger		Sheet 1 of 1

Depth BGL	Sample / Test Details	PID (ppm)	Water	STRATA			COMMENTS	Installation / Backfill
				Legend	Depth (Thickness)	DESCRIPTION		
0.5	TP113 0.5m	0.2			(0.40)	SAND Loose, brown silty-sand.	NEC	
					0.40	BEDROCK (Layered and fractured).		
					0.50	Refused at 0.5m.		

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WELL INSTALLATION DETAILS		LEGEND		GENERAL REMARKS NEC = No evidence of contamination.	
SAMPLE TYPE DETAILS ☐ Jar		 Silty Sand  Bedrock  Groundwater Table  Water Strike bgl = Below Ground Level			
		Logged By	MR	Approved By	GB

EXPLORATORY HOLE LOG 21/09/07 LOGS.GPJ AGS3 ALL.GDT 10/12/08



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EXPLORATORY HOLE LOG

Project Name and Site Location Great Island Power Station, Phase 2 Environmental Investigation			Client Electricity Supply Board		BOREHOLE No TP114
Job No 49341640	Date Start Date 01-10-08 End Date 01-10-08	Ground Level (m)	Co-Ordinates ()		
Contractor Robinson & Birdsell			Method / Plant Used 4 Ton mini digger		Sheet 1 of 1

Depth BGL	Sample / Test Details	PID (ppm)	Water	STRATA			
				Legend	Depth (Thickness)	DESCRIPTION	COMMENTS
0.5	TP114 0.5m	0.2			(0.50)	SAND Loose, brown silty-sand.	NEC
					(0.20)	BEDROCK (Layered and fractured).	NEC
					0.70	Refused at 0.7m.	

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WELL INSTALLATION DETAILS		LEGEND		GENERAL REMARKS NEC = No evidence of contamination.
SAMPLE TYPE DETAILS ☐ Jar		 Silty Sand  Bedrock  Groundwater Table  Water Strike bgl = Below Ground Level		
		Logged By	MR	Approved By GB

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EXPLORATORY HOLE LOG

Project Name and Site Location Great Island Power Station, Phase 2 Environmental Investigation			Client Electricity Supply Board		BOREHOLE No TP115
Job No 49341640	Date Start Date 01-10-08 End Date 01-10-08	Ground Level (m)	Co-Ordinates ()		
Contractor Robinson & Birdsell		Method / Plant Used 4 Ton mini digger			Sheet 1 of 1

Depth BGL	Sample / Test Details	PID (ppm)	Water	STRATA			COMMENTS	Installation / Backfill
				Legend	Depth (Thickness)	DESCRIPTION		
0.5	TP115 0.5m	0.0			(0.50)	SAND Loose, brown silty-sand.	NEC	
					0.50 0.60	BEDROCK (Layered and fractured). Refused at 0.6m.		

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WELL INSTALLATION DETAILS		LEGEND		GENERAL REMARKS NEC = No evidence of contamination.
SAMPLE TYPE DETAILS ☐ Jar		 Silty Sand  Bedrock  Groundwater Table  Water Strike bgl = Below Ground Level		
		Logged By	MR	Approved By GB

EXPLORATORY HOLE LOG 21/09/07 LOGS.GPJ AGS3 ALL.GDT 10/12/08



URS Ireland LTD.
Iveagh Court, 4th Floor,
6-8 Harcourt Road,
Dublin 2, Ireland.
Telephone: 01 4155100
Fax: 01 4155101

EXPLORATORY HOLE LOG

Project Name and Site Location Great Island Power Station, Phase 2 Environmental Investigation			Client Electricity Supply Board		BOREHOLE No TP116
Job No 49341640	Date Start Date 01-10-08 End Date 01-10-08	Ground Level (m)	Co-Ordinates ()		
Contractor Robinson & Birdsell			Method / Plant Used 4 Ton mini digger		Sheet 1 of 1

Depth BGL	Sample / Test Details	PID (ppm)	Water	STRATA				Installation / Backfill
				Legend	Depth (Thickness)	DESCRIPTION	COMMENTS	
0.5	TP116 0.5m	0.2			(0.50)	SAND Loose, brown silty-sand.	NEC	
					0.50 (0.20)	BEDROCK (Layered and fractured).		
					0.70	Refusal at 0.7m.		

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WELL INSTALLATION DETAILS		LEGEND		GENERAL REMARKS NEC = No evidence of contamination.	
SAMPLE TYPE DETAILS ☐ Jar		 SAND  Bedrock  Groundwater Table  Water Strike bgl = Below Ground Level			
		Logged By	MR	Approved By	GB

EXPLORATORY HOLE LOG 21/09/07 LOGS.GPJ AGS3 ALL.GDT 10/12/08



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EXPLORATORY HOLE LOG

Project Name and Site Location Great Island Power Station, Phase 2 Environmental Investigation			Client Electricity Supply Board		BOREHOLE No TP117
Job No 49341640	Date Start Date 01-10-08 End Date 01-10-08	Ground Level (m)	Co-Ordinates ()		
Contractor Robinson & Birdsell		Method / Plant Used 4 Ton mini digger			Sheet 1 of 1

Depth BGL	Sample / Test Details	PID (ppm)	Water	STRATA			
				Legend	Depth (Thickness)	DESCRIPTION	COMMENTS
0.5	TP117 0.5m	0.5			(1.30)	MADEGROUND loose, brown silty-sand containing cobbles and pebbles that were made up from concrete, tarmac and house bricks.	NEC
1.0					1.30		
1.5	TP117 1.5m	0.3			(0.80)	MADEGROUND Loose, brown silty-sand containing cobbles and pebbles comprising bedrock materials.	NEC
2.0					2.10		
					(0.20)	BEDROCK (Layered and fractured).	
					2.30	Refusal at 2.3m.	

WELL INSTALLATION DETAILS

LEGEND

GENERAL REMARKS

SAMPLE TYPE DETAILS

☐ Jar



Made Ground (Fill)



Bedrock



Groundwater Table



Water Strike

bgl = Below Ground Level

NEC = No evidence of contamination.

Logged By

MR

Approved By

GB

EXPLORATORY HOLE LOG 21/09/07 LOGS.GPJ AGS3 ALL GDT 10/12/08

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