

Project Name Croxley Rail Link, Stage 1

Project No. TB7219

Engineer Arup

Client Taylor Woodrow Construction

**Groundwater  
Readings For  
Installations**

Table No.

03

NOTES: SPIE=Piezometer, SP=Standpipe  
For multiple installations at the same depth, use different Installation IDs. Otherwise, the field is optional.  
Monitoring point depth for piezometers = tip depth, for standpipes = base of response zone

COMMENTS NI = Not Installed


Exploratory Hole ID	Installation Details				Recorded Water Level								
	Type	Depth to base of pipe	Monitoring point depth	ID	Date	Time	Reading	Date	Time	Reading	Date	Time	Reading
		m											
BH102	SP	3.40	3.50	01	25/10/2013	NI	NI	29/10/2013	NI	NI	30/10/2013	12:50	1.83
BH104	SP	4.90	6.00	01	25/10/2013	14:18	1.40	29/10/2013	10:50	1.28	30/10/2013	12:36	1.32
BH121	SP	19.80	20.00	01	25/10/2013	14:43	14.80	29/10/2013	14:27	13.90	30/10/2013	14:35	13.75
BH128	SP	6.20	6.50	02	25/10/2013	14:31	DRY	29/10/2013	14:05	DRY	30/10/2013	14:11	DRY
BH128	SP	24.50	25.00	01	25/10/2013	14:33	8.91	29/10/2013	14:10	7.32	30/10/2013	14:10	7.28
CP105	SP	14.90	15.00	01	25/10/2013	14:54	6.60	29/10/2013	14:50	6.47	30/10/2013	13:21	6.51
CP108	SP	11.90	12.00	01	25/10/2013	14:41	DRY	29/10/2013	14:25	DRY	30/10/2013	14:30	DRY
CP118	SP	14.90	15.00	01	25/10/2013	14:36	8.36	29/10/2013	14:12	5.04	30/10/2013	13:55	5.45
CP120	SP	7.80	8.00	01	25/10/2013	14:39	DRY	29/10/2013	14:15	DRY	30/10/2013	13:45	DRY

Project Name	Croxley Rail Link, Stage 1	<b>Groundwater Readings For Installations</b>	Table No.
Project No.	TB7219		
Engineer	Arup		03
Client	Taylor Woodrow Construction		

**NOTES:** SPIE=Piezometer, SP=Standpipe  
 For multiple installations at the same depth, use different Installation IDs. Otherwise, the field is optional.  
 Monitoring point depth for piezometers = tip depth, for standpipes = base of response zone

**COMMENTS** NR = Not Recorded  
 NL = Not Located  
 Nin = Not Instructed

Exploratory Hole ID	Installation Details				Recorded Water Level								
	Type	Depth to base of pipe	Monitoring point depth	ID	Date	Time	Reading	Date	Time	Reading	Date	Time	Reading
		m			m	dd/mm/yyyy	hh:mm	m	dd/mm/yyyy	hh:mm	m	dd/mm/yyyy	hh:mm
BH102	SP	3.40	3.50	01	31/10/2013	16:10	0.83	01/11/2013	11:57	0.87	04/11/2013	16:55	1.70
BH104	SP	4.90	6.00	01	31/10/2013	16:00	1.34	01/11/2013	12:04	0.36	04/11/2013	16:45	1.28
BH121	SP	19.80	20.00	01	31/10/2013	15:20	13.62	01/11/2013	13:14	13.63	04/11/2013	16:15	13.37
BH128	SP	6.20	6.50	02	31/10/2013	13:02	DRY	01/11/2013	13:45	DRY	04/11/2013	15:20	DRY
BH128	SP	24.50	25.00	01	31/10/2013	13:03	7.30	01/11/2013	13:46	7.32	04/11/2013	15:21	6.83
BHTWA02	SPIE	6.00	6.00	02	31/10/2013	Nin	Nin	01/11/2013	12:11	2.08	04/11/2013	NR	NR
BHTWA02	SP	20.00	20.00	01	31/10/2013	Nin	Nin	01/11/2013	12:09	2.08	04/11/2013	NR	NR
BHTWA03	SP	20.00	20.00	01	31/10/2013	Nin	Nin	01/11/2013	12:16	0.73	04/11/2013	NR	NR
CP105	SP	14.90	15.00	01	31/10/2013	15:44	6.41	01/11/2013	13:05	6.52	04/11/2013	16:25	6.40
CP108	SP	11.90	12.00	01	31/10/2013	13:20	DRY	01/11/2013	13:12	DRY	04/11/2013	16:05	DRY
CP118	SP	14.90	15.00	01	31/10/2013	13:38	5.80	01/11/2013	13:40	6.50	04/11/2013	15:40	4.74
CP120	SP	7.80	8.00	01	31/10/2013	13:07	DRY	01/11/2013	13:21	DRY	04/11/2013	15:50	DRY
Soil Mechanics 4	SP			01	31/10/2013	Nin	Nin	01/11/2013	NL	NL	04/11/2013	NL	NL

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Project Name Croxley Rail Link, Stage 1 Project No. TB7219 Engineer Arup Client Taylor Woodrow Construction	<b>Groundwater Readings For Installations</b>	Table No.  03
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NOTES: SPIE=Piezometer, SP=Standpipe  
 For multiple installations at the same depth, use different Installation IDs. Otherwise, the field is optional.  
 Monitoring point depth for piezometers = tip depth, for standpipes = base of response zone

COMMENTS NR = Not Recorded

Exploratory Hole ID	Installation Details				Recorded Water Level								
	Type	Depth to base of pipe	Monitoring point depth	ID	Date	Time	Reading	Date	Time	Reading	Date	Time	Reading
		m	m		dd/mm/yyyy	hh:mm	m	dd/mm/yyyy	hh:mm	m	dd/mm/yyyy	hh:mm	m
BH102	SP	3.40	3.50	01	06/11/2013	13:25	1.73	07/11/2013	15:12	1.73	08/11/2013	14:30	1.88
BH104	SP	4.90	6.00	01	06/11/2013	13:30	1.29	07/11/2013	15:07	1.28	08/11/2013	14:10	1.29
BH121	SP	19.80	20.00	01	06/11/2013	12:15	12.83	07/11/2013	15:40	13.03	08/11/2013	13:20	12.64
BH128	SP	6.20	6.50	02	06/11/2013	12:00	5.96	07/11/2013	NR	NR	08/11/2013	13:35	6.72
BH128	SP	24.50	25.00	01	06/11/2013	12:01	6.26	07/11/2013	NR	NR	08/11/2013	13:36	5.98
BHTWA02	SPIE	6.00	6.00	02	06/11/2013	13:20	2.01	07/11/2013	15:00	2.02	08/11/2013	14:05	2.02
BHTWA02	SP	20.00	20.00	01	06/11/2013	13:21	2.00	07/11/2013	15:01	2.02	08/11/2013	14:06	2.01
BHTWA03	SP	20.00	20.00	01	06/11/2013	13:50	0.65	07/11/2013	15:20	0.89	08/11/2013	14:40	0.69
CP105	SP	14.90	15.00	01	06/11/2013	12:35	6.40	07/11/2013	15:32	6.41	08/11/2013	13:04	6.40
CP108	SP	11.90	12.00	01	06/11/2013	12:10	DRY	07/11/2013	15:45	DRY	08/11/2013	13:22	DRY
CP118	SP	14.90	15.00	01	06/11/2013	12:03	4.51	07/11/2013	NR	NR	08/11/2013	13:30	DRY
CP120	SP	7.80	8.00	01	06/11/2013	12:05	DRY	07/11/2013	NR	NR	08/11/2013	NR	NR
RP105E	SP	19.80	20.00	01	06/11/2013	NR	NR	07/11/2013	NR	NR	08/11/2013	14:15	1.41
Soil Mechanics 4	SP			01	06/11/2013	14:10	6.84	07/11/2013	15:30	6.90	08/11/2013	13:00	6.81

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Project No.	TB7219		
Engineer	Arup		
Client	Taylor Woodrow Construction		

NOTES: SPIE=Piezometer, SP=Standpipe  
For multiple installations at the same depth, use different Installation IDs. Otherwise, the field is optional.  
Monitoring point depth for piezometers = tip depth, for standpipes = base of response zone

COMMENTS NR = Not Recorded  
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Exploratory Hole ID	Installation Details				Recorded Water Level								
	Type	Depth to base of pipe	Monitoring point depth	ID	Date	Time	Reading	Date	Time	Reading	Date	Time	Reading
		m			dd/mm/yyyy	hh:mm	m	dd/mm/yyyy	hh:mm	m	dd/mm/yyyy	hh:mm	m
BH102	SP	3.40	3.50	01	12/11/2013	13:35	1.78	13/11/2013	13:05	1.88	14/11/2013	10:45	1.87
BH104	SP	4.90	6.00	01	12/11/2013	13:27	1.28	13/11/2013	12:50	1.29	14/11/2013	10:35	1.30
BH106	SP	5.10	5.20	01	12/11/2013	NR	NR	13/11/2013	13:00	1.70	14/11/2013	11:02	1.70
BH108	SP	7.50	7.70	01	12/11/2013	13:36	1.78	13/11/2013	13:15	1.76	14/11/2013	10:48	1.73
BH110	SP	20.00	20.20	01	12/11/2013	NI	NI	13/11/2013	13:25	0.83	14/11/2013	10:55	0.84
BH121	SP	19.80	20.00	01	12/11/2013	12:25	12.58	13/11/2013	11:30	12.17	14/11/2013	14:40	12.25
BH128	SP	6.20	6.50	02	12/11/2013	12:40	6.01	13/11/2013	11:50	5.12	14/11/2013	14:55	5.25
BH128	SP	24.50	25.00	01	12/11/2013	12:41	6.22	13/11/2013	11:51	5.37	14/11/2013	14:56	5.45
BHTWA02	SPIE	6.00	6.00	02	12/11/2013	13:20	2.02	13/11/2013	NR	NR	14/11/2013	NR	NR
BHTWA02	SP	20.00	20.00	01	12/11/2013	13:21	2.02	13/11/2013	NR	NR	14/11/2013	NR	NR
BHTWA03	SP	20.00	20.00	01	12/11/2013	13:40	0.69	13/11/2013	13:25	0.73	14/11/2013	11:00	0.71
CP105	SP	14.90	15.00	01	12/11/2013	12:00	6.40	13/11/2013	11:10	6.42	14/11/2013	14:05	6.39
CP108	SP	11.90	12.00	01	12/11/2013	12:30	DRY	13/11/2013	11:35	11.80	14/11/2013	14:38	11.90
CP118	SP	14.90	15.00	01	12/11/2013	12:38	4.72	13/11/2013	12:00	4.40	14/11/2013	15:00	4.43
CP120	SP	7.80	8.00	01	12/11/2013	NR	NR	13/11/2013	11:45	DRY	14/11/2013	14:50	DRY
RP105E	SP	19.80	20.00	01	12/11/2013	13:25	1.41	13/11/2013	12:45	1.40	14/11/2013	10:37	1.41
RP110	SP	18.10	18.30	01	12/11/2013	NR	NR	13/11/2013	13:20	0.84	14/11/2013	10:52	0.84
Soil Mechanics 4	SP			01	12/11/2013	12:08	6.82	13/11/2013	11:13	6.88	14/11/2013	14:10	6.83

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COMMENTS NR = Not Recorded  
 NA = No Access. BH106, Unable to remove gas cap from pipe.

Exploratory Hole ID	Installation Details				Recorded Water Level								
	Type	Depth to base of pipe	Monitoring point depth	ID	Date	Time	Reading	Date	Time	Reading	Date	Time	Reading
		m	m		dd/mm/yyyy	hh:mm	m	dd/mm/yyyy	hh:mm	m	dd/mm/yyyy	hh:mm	m
BH102	SP	3.40	3.50	01	15/11/2013	08:45	1.92	18/11/2013	12:04	2.02	19/11/2013	14:03	2.06
BH104	SP	4.90	6.00	01	15/11/2013	08:40	1.29	18/11/2013	11:58	1.37	19/11/2013	13:54	1.36
BH106	SP	5.10	5.20	01	15/11/2013	09:15	1.75	18/11/2013	NA	NA	19/11/2013	NA	NA
BH108	SP	7.50	7.70	01	15/11/2013	08:50	1.80	18/11/2013	12:12	1.80	19/11/2013	NR	NR
BH110	SP	20.00	20.20	01	15/11/2013	09:10	0.85	18/11/2013	12:23	0.86	19/11/2013	NR	NR
BH121	SP	19.80	20.00	01	15/11/2013	11:30	12.28	18/11/2013	15:30	12.32	19/11/2013	12:18	12.14
BH128	SP	6.20	6.50	02	15/11/2013	11:55	5.47	18/11/2013	15:50	5.48	19/11/2013	11:55	5.63
BH128	SP	24.50	25.00	01	15/11/2013	11:56	5.46	18/11/2013	15:52	5.49	19/11/2013	11:58	5.66
BHTWA02	SPIE	6.00	6.00	02	15/11/2013	08:35	2.05	18/11/2013	12:11	2.04	19/11/2013	NR	NR
BHTWA02	SP	20.00	20.00	01	15/11/2013	08:36	2.05	18/11/2013	12:10	2.06	19/11/2013	NR	NR
BHTWA03	SP	20.00	20.00	01	15/11/2013	09:20	0.73	18/11/2013	12:22	0.97	19/11/2013	13:34	0.86
CP105	SP	14.90	15.00	01	15/11/2013	11:00	6.41	18/11/2013	13:17	6.95	19/11/2013	13:10	6.44
CP108	SP	11.90	12.00	01	15/11/2013	11:32	DRY	18/11/2013	15:35	DRY	19/11/2013	12:15	11.86
CP118	SP	14.90	15.00	01	15/11/2013	11:46	4.45	18/11/2013	15:45	4.75	19/11/2013	12:00	5.27
CP120	SP	7.80	8.00	01	15/11/2013	11:50	DRY	18/11/2013	15:48	DRY	19/11/2013	12:10	DRY
RP105E	SP	19.80	20.00	01	15/11/2013	08:42	1.42	18/11/2013	11:55	1.46	19/11/2013	NR	NR
RP110	SP	18.10	18.30	01	15/11/2013	09:05	0.84	18/11/2013	12:20	0.86	19/11/2013	NR	NR
Soil Mechanics 4	SP			01	15/11/2013	10:55	6.83	18/11/2013	13:10	6.82	19/11/2013	13:08	6.84


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Project No.	TB7219		
Engineer	Arup		
Client	Taylor Woodrow Construction		

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**COMMENTS** NR = Not Recorded  
NA = No Access. BH106, Unable to remove gas cap from pipe.  
NI = Not Installed

Exploratory Hole ID	Installation Details				Recorded Water Level								
	Type	Depth to base of pipe	Monitoring point depth	ID	Date	Time	Reading	Date	Time	Reading	Date	Time	Reading
		m			m	dd/mm/yyyy	hh:mm	m	dd/mm/yyyy	hh:mm	m	dd/mm/yyyy	hh:mm
BH102	SP	3.40	3.50	01	20/11/2013	12:42	2.03	06/12/2013	09:50	2.16	11/12/2013	14:20	2.17
BH104	SP	4.90	6.00	01	20/11/2013	12:37	1.36	06/12/2013	NR	NR	11/12/2013	NR	NR
BH106	SP	5.10	5.20	01	20/11/2013	NA	NA	06/12/2013	NA	NA	11/12/2013	NA	NA
BH108	SP	7.50	7.70	01	20/11/2013	12:54	0.90	06/12/2013	10:23	1.00	11/12/2013	14:35	1.01
BH110	SP	20.00	20.20	01	20/11/2013	13:08	1.14	06/12/2013	10:41	1.16	11/12/2013	14:52	1.17
BH121	SP	19.80	20.00	01	20/11/2013	NR	NR	06/12/2013	12:35	12.51	11/12/2013	NR	NR
BH128	SP	6.20	6.50	02	20/11/2013	NR	NR	06/12/2013	12:04	5.23	11/12/2013	NR	NR
BH128	SP	24.50	25.00	01	20/11/2013	NR	NR	06/12/2013	12:05	5.31	11/12/2013	NR	NR
BHTWA02	SPIE	6.00	6.00	02	20/11/2013	12:26	2.04	06/12/2013	10:13	2.10	11/12/2013	14:30	2.10
BHTWA02	SP	20.00	20.00	01	20/11/2013	12:28	2.03	06/12/2013	NR	NR	11/12/2013	NR	NR
BHTWA03	SP	20.00	20.00	01	20/11/2013	13:02	0.73	06/12/2013	10:25	1.06	11/12/2013	14:40	1.07
CP105	SP	14.90	15.00	01	20/11/2013	NR	NR	06/12/2013	12:58	6.55	11/12/2013	NR	NR
CP108	SP	11.90	12.00	01	20/11/2013	NR	NR	06/12/2013	12:29	11.96	11/12/2013	NR	NR
CP118	SP	14.90	15.00	01	20/11/2013	NR	NR	06/12/2013	12:15	5.13	11/12/2013	NR	NR
CP120	SP	7.80	8.00	01	20/11/2013	NR	NR	06/12/2013	NR	NR	11/12/2013	NR	NR
RP105E	SP	19.80	20.00	01	20/11/2013	12:46	1.80	06/12/2013	10:02	0.86	11/12/2013	14:24	1.88
RP110	SP	18.10	18.30	01	20/11/2013	12:50	0.87	06/12/2013	10:17	0.93	11/12/2013	14:33	0.93
Soil Mechanics 4	SP			01	20/11/2013	NR	NR	06/12/2013	13:03	6.83	11/12/2013	NR	NR
TR101	SP	13.40	13.40	01	20/11/2013	NI	NI	06/12/2013	09:40	11.75	11/12/2013	14:10	11.77
TR102	SP	9.40	9.50	01	20/11/2013	NI	NI	06/12/2013	09:45	DRY	11/12/2013	14:13	DRY
BH113	SP	4.00	4.00	01	20/11/2013	NI	NI	06/12/2013	10:49	0.40	11/12/2013	14:59	1.41
BH115	SP	19.90	20.00	01	20/11/2013	NI	NI	06/12/2013	10:53	0.87	11/12/2013	15:08	0.88


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**NOTES:** SPIE=Piezometer, SP=Standpipe  
 For multiple installations at the same depth, use different Installation IDs. Otherwise, the field is optional.  
 Monitoring point depth for piezometers = tip depth, for standpipes = base of response zone

**COMMENTS** NR = Not Recorded  
 NA = No Access. BH106, Unable to remove gas cap from pipe. BH102, Car parked over location  
 NI = Not Installed

Exploratory Hole ID	Installation Details				Recorded Water Level								
	Type	Depth to base of pipe	Monitoring point depth	ID	Date	Time	Reading	Date	Time	Reading	Date	Time	Reading
		m			m	dd/mm/yyyy	hh:mm	m	dd/mm/yyyy	hh:mm	m	dd/mm/yyyy	hh:mm
BH102	SP	3.40	3.50	01	13/12/2013	NR	NR	16/12/2013	12:29	1.94	17/12/2013	13:11	NA
BH104	SP	4.90	6.00	01	13/12/2013	NR	NR	16/12/2013	NR	NR	17/12/2013	13:28	1.30
BH106	SP	5.10	5.20	01	13/12/2013	NA	NA	16/12/2013	NA	NA	17/12/2013	NA	NA
BH108	SP	7.50	7.70	01	13/12/2013	NR	NR	16/12/2013	11:54	1.02	17/12/2013	13:40	1.03
BH110	SP	20.00	20.20	01	13/12/2013	NR	NR	16/12/2013	11:42	1.03	17/12/2013	13:53	1.09
BH121	SP	19.80	20.00	01	13/12/2013	09:52	12.77	16/12/2013	NR	NR	17/12/2013	NR	NR
BH128	SP	6.20	6.50	02	13/12/2013	10:57	5.33	16/12/2013	NR	NR	17/12/2013	NR	NR
BH128	SP	24.50	25.00	01	13/12/2013	10:58	5.58	16/12/2013	NR	NR	17/12/2013	NR	NR
BHTWA02	SPIE	6.00	6.00	02	13/12/2013	NR	NR	16/12/2013	12:08	2.03	17/12/2013	NR	NR
BHTWA02	SP	20.00	20.00	01	13/12/2013	NR	NR	16/12/2013	NR	NR	17/12/2013	NR	NR
BHTWA03	SP	20.00	20.00	01	13/12/2013	NR	NR	16/12/2013	11:56	1.01	17/12/2013	NR	NR
CP105	SP	14.90	15.00	01	13/12/2013	09:30	6.59	16/12/2013	NR	NR	17/12/2013	NR	NR
CP108	SP	11.90	12.00	01	13/12/2013	NR	NR	16/12/2013	NR	NR	17/12/2013	NR	NR
CP118	SP	14.90	15.00	01	13/12/2013	10:50	6.42	16/12/2013	NR	NR	17/12/2013	NR	NR
CP120	SP	7.80	8.00	01	13/12/2013	10:41	DRY	16/12/2013	NR	NR	17/12/2013	NR	NR
RP105E	SP	19.80	20.00	01	13/12/2013	NR	NR	16/12/2013	12:11	1.83	17/12/2013	13:15	1.75
RP110	SP	18.10	18.30	01	13/12/2013	NR	NR	16/12/2013	11:46	0.89	17/12/2013	13:36	0.84
Soil Mechanics 4	SP			01	13/12/2013	09:24	6.83	16/12/2013	NR	NR	17/12/2013	NR	NR
TR101	SP	13.40	13.40	01	13/12/2013	NR	NR	16/12/2013	12:15	11.74	17/12/2013	13:07	11.68
TR102	SP	9.40	9.50	01	13/12/2013	NR	NR	16/12/2013	12:19	DRY	17/12/2013	13:09	DRY
BH113	SP	4.00	4.00	01	13/12/2013	NR	NR	16/12/2013	11:37	1.36	17/12/2013	14:02	1.34
BH115	SP	19.90	20.00	01	13/12/2013	NR	NR	16/12/2013	11:33	0.82	17/12/2013	14:05	0.82


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Project Name	Croxley Rail Link, Stage 1	<b>Groundwater Readings For Installations</b>	Table No.
Project No.	TB7219		
Engineer	Arup		03
Client	Taylor Woodrow Construction		

**NOTES:** SPIE=Piezometer, SP=Standpipe  
For multiple installations at the same depth, use different Installation IDs. Otherwise, the field is optional.  
Monitoring point depth for piezometers = tip depth, for standpipes = base of response zone

**COMMENTS** NR = Not Recorded  
NA = No Access

Exploratory Hole ID	Installation Details				Recorded Water Level								
	Type	Depth to base of pipe	Monitoring point depth	ID	Date	Time	Reading	Date	Time	Reading	Date	Time	Reading
		m											
BH102	SP	3.40	3.50	01	06/01/2014	12:09	1.34	08/01/2014	08:53	1.42	09/01/2014	15:54	1.48
BH104	SP	4.90	6.00	01	06/01/2014	12:02	0.92	08/01/2014	08:34	1.01	09/01/2014	15:04	1.00
BH105	SP	25.00	25.70	01	06/01/2014	12:01	1.16	08/01/2014	08:31	1.16	09/01/2014	15:45	1.15
BH106	SP	5.10	5.20	01	06/01/2014	11:59	1.53	08/01/2014	08:28	1.53	09/01/2014	15:07	1.55
BH108	SP	7.50	7.70	01	06/01/2014	11:50	0.83	08/01/2014	08:16	0.83	09/01/2014	14:54	0.83
BH110	SP	20.00	20.20	01	06/01/2014	11:41	1.01	08/01/2014	08:09	0.96	09/01/2014	14:48	0.97
BH113	SP	4.00	4.00	01	06/01/2014	11:36	1.18	08/01/2014	08:04	1.21	09/01/2014	14:43	1.21
BH115	SP	19.90	20.00	01	06/01/2014	11:41	0.59	08/01/2014	08:00	0.64	09/01/2014	14:41	0.62
BH121	SP	19.80	20.00	01	06/01/2014	10:54	9.16	08/01/2014	13:16	9.09	09/01/2014	08:49	9.02
BH128	SP	24.50	25.00	01	06/01/2014	10:26	1.53	08/01/2014	13:40	1.53	09/01/2014	09:32	1.54
BH128	SP	6.20	6.50	02	06/01/2014	10:25	1.78	08/01/2014	13:41	1.74	09/01/2014	09:33	1.74
BHTWA02	SP	20.00	20.00	01	06/01/2014	11:56	1.81	08/01/2014	08:23	1.87	09/01/2014	14:59	1.82
BHTWA02	SPIE	6.00	6.00	02	06/01/2014	11:57	1.85	08/01/2014	08:24	1.84	09/01/2014	15:01	1.82
BHTWA03	SP	20.00	20.00	01	06/01/2014	11:47	0.52	08/01/2014	08:13	0.53	09/01/2014	14:51	0.51
CP105	SP	14.90	15.00	01	06/01/2014	11:19	5.83	08/01/2014	09:39	5.87	09/01/2014	08:20	5.85
CP108	SP	11.90	12.00	01	06/01/2014	10:50	8.40	08/01/2014	13:18	8.41	09/01/2014	08:56	8.35
CP118	SP	14.90	15.00	01	06/01/2014	10:30	1.86	08/01/2014	13:33	1.87	09/01/2014	09:28	1.89
CP120	SP	7.80	8.00	01	06/01/2014	10:37	3.90	08/01/2014	13:30	3.89	09/01/2014	09:04	3.93
CP124	SP	3.70	3.80	02	06/01/2014	NR	NR	08/01/2014	13:47	2.44	09/01/2014	09:39	2.43
CP124	SP	9.90	10.00	01	06/01/2014	NR	NR	08/01/2014	13:48	2.50	09/01/2014	09:40	2.46
CP126	SP	19.80	20.00	01	06/01/2014	NR	NR	08/01/2014	13:11	10.62	09/01/2014	08:39	10.56
RP105E	SP	19.80	20.00	01	06/01/2014	12:05	1.48	08/01/2014	08:41	1.50	09/01/2014	15:47	1.50
RP110	SP	18.10	18.30	01	06/01/2014	11:54	0.64	08/01/2014	08:20	0.66	09/01/2014	14:56	0.66
Soil Mechanics 4	SP			01	06/01/2014	11:23	6.61	08/01/2014	09:14	6.63	09/01/2014	08:17	6.62
TR101	SP	13.40	13.40	01	06/01/2014	NA	NA	08/01/2014	08:55	11.34	09/01/2014	NA	NA
TR102	SP	9.40	9.50	01	06/01/2014	NA	NA	08/01/2014	08:49	DRY	09/01/2014	NA	NA


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Project Name	Croxley Rail Link, Stage 1	<b>Groundwater Readings For Installations</b>	Table No.  03
Project No.	TB7219		
Engineer	Arup		
Client	Taylor Woodrow Construction		

**NOTES:** SPIE=Piezometer, SP=Standpipe  
 For multiple installations at the same depth, use different Installation IDs. Otherwise, the field is optional.  
 Monitoring point depth for piezometers = tip depth, for standpipes = base of response zone

**COMMENTS**

Exploratory Hole ID	Installation Details				Recorded Water Level								
	Type	Depth to base of pipe	Monitoring point depth	ID	Date	Time	Reading	Date	Time	Reading	Date	Time	Reading
		m											
BH102	SP	3.40	3.50	01	10/01/2014	12:30	1.57	13/01/2014	13:11	1.65	14/01/2014	12:18	1.58
BH104	SP	4.90	6.00	01	10/01/2014	12:50	1.03	13/01/2014	12:54	1.02	14/01/2014	11:58	1.05
BH105	SP	25.00	25.70	01	10/01/2014	12:46	1.17	13/01/2014	12:49	1.21	14/01/2014	11:56	1.23
BH106	SP	5.10	5.20	01	10/01/2014	12:42	1.58	13/01/2014	12:46	1.58	14/01/2014	11:52	1.63
BH108	SP	7.50	7.70	01	10/01/2014	13:08	0.86	13/01/2014	13:26	0.86	14/01/2014	11:40	0.87
BH110	SP	20.00	20.20	01	10/01/2014	13:20	0.99	13/01/2014	13:42	0.99	14/01/2014	11:30	0.99
BH113	SP	4.00	4.00	01	10/01/2014	13:38	1.24	13/01/2014	13:48	1.20	14/01/2014	11:15	1.23
BH115	SP	19.90	20.00	01	10/01/2014	13:42	0.66	13/01/2014	13:52	0.60	14/01/2014	11:10	0.67
BH121	SP	19.80	20.00	01	10/01/2014	10:23	9.05	13/01/2014	11:55	9.18	14/01/2014	09:56	9.20
BH128	SP	24.50	25.00	01	10/01/2014	09:48	1.65	13/01/2014	11:20	2.10	14/01/2014	09:24	2.10
BH128	SP	6.20	6.50	02	10/01/2014	09:47	1.82	13/01/2014	11:19	1.88	14/01/2014	09:23	1.89
BHTWA02	SP	20.00	20.00	01	10/01/2014	13:00	1.82	13/01/2014	13:19	1.86	14/01/2014	11:48	1.87
BHTWA02	SPIE	6.00	6.00	02	10/01/2014	12:59	1.86	13/01/2014	13:18	1.86	14/01/2014	11:49	1.88
BHTWA03	SP	20.00	20.00	01	10/01/2014	13:13	0.53	13/01/2014	13:29	0.54	14/01/2014	11:35	0.56
CP105	SP	14.90	15.00	01	10/01/2014	10:45	5.90	13/01/2014	12:30	5.91	14/01/2014	10:14	5.89
CP108	SP	11.90	12.00	01	10/01/2014	10:21	8.62	13/01/2014	11:50	8.56	14/01/2014	09:52	8.58
CP118	SP	14.90	15.00	01	10/01/2014	09:55	1.96	13/01/2014	11:23	2.20	14/01/2014	09:27	2.16
CP120	SP	7.80	8.00	01	10/01/2014	09:57	3.94	13/01/2014	11:30	4.18	14/01/2014	09:34	4.11
CP124	SP	3.70	3.80	02	10/01/2014	09:36	2.51	13/01/2014	11:04	2.75	14/01/2014	09:17	2.78
CP124	SP	9.90	10.00	01	10/01/2014	09:37	2.53	13/01/2014	11:05	2.78	14/01/2014	09:18	2.80
CP126	SP	19.80	20.00	01	10/01/2014	10:30	10.52	13/01/2014	12:07	10.68	14/01/2014	09:59	10.33
RP105E	SP	19.80	20.00	01	10/01/2014	12:36	1.53	13/01/2014	13:15	1.55	14/01/2014	12:00	1.55
RP110	SP	18.10	18.30	01	10/01/2014	13:03	0.68	13/01/2014	13:23	0.69	14/01/2014	11:43	0.69
Soil Mechanics 4	SP			01	10/01/2014	10:52	6.60	13/01/2014	12:35	6.60	14/01/2014	10:19	6.62
TR101	SP	13.40	13.40	01	10/01/2014	12:13	11.30	13/01/2014	13:04	11.32	14/01/2014	12:26	11.32
TR102	SP	9.40	9.50	01	10/01/2014	12:16	DRY	13/01/2014	13:01	9.33	14/01/2014	12:30	9.30

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Project Name	Croxley Rail Link, Stage 1	<b>Groundwater Readings For Installations</b>	Table No.  03
Project No.	TB7219		
Engineer	Arup		
Client	Taylor Woodrow Construction		

**NOTES:** SPIE=Piezometer, SP=Standpipe  
For multiple installations at the same depth, use different Installation IDs. Otherwise, the field is optional.  
Monitoring point depth for piezometers = tip depth, for standpipes = base of response zone

**COMMENTS** NI Not Installed

Exploratory Hole ID	Installation Details				Recorded Water Level								
	Type	Depth to base of pipe	Monitoring point depth	ID	Date	Time	Reading	Date	Time	Reading	Date	Time	Reading
		m			m	dd/mm/yyyy	hh:mm	m	dd/mm/yyyy	hh:mm	m	dd/mm/yyyy	hh:mm
BH102	SP	3.40	3.50	01	15/01/2014	12:37	1.55	16/01/2014	11:07	1.58	17/01/2014	12:13	1.59
BH104	SP	4.90	6.00	01	15/01/2014	12:20	1.02	16/01/2014	11:30	1.02	17/01/2014	12:04	1.01
BH105	SP	25.00	25.70	01	15/01/2014	12:13	1.17	16/01/2014	11:28	1.17	17/01/2014	12:01	1.15
BH106	SP	5.10	5.20	01	15/01/2014	12:11	1.56	16/01/2014	11:25	1.57	17/01/2014	11:59	1.52
BH108	SP	7.50	7.70	01	15/01/2014	11:59	0.84	16/01/2014	11:48	0.84	17/01/2014	11:35	0.81
BH110	SP	20.00	20.20	01	15/01/2014	11:47	0.95	16/01/2014	12:01	0.97	17/01/2014	11:31	0.96
BH113	SP	4.00	4.00	01	15/01/2014	11:32	1.19	16/01/2014	12:07	1.23	17/01/2014	11:25	1.21
BH115	SP	19.90	20.00	01	15/01/2014	11:36	0.65	16/01/2014	12:11	0.65	17/01/2014	11:20	0.62
BH121	SP	19.80	20.00	01	15/01/2014	09:10	9.14	16/01/2014	08:40	9.09	17/01/2014	08:28	9.03
BH128	SP	24.50	25.00	01	15/01/2014	08:35	1.96	16/01/2014	09:26	1.94	17/01/2014	09:00	1.87
BH128	SP	6.20	6.50	02	15/01/2014	08:36	1.81	16/01/2014	09:25	1.74	17/01/2014	08:59	1.68
BH129	SP	18.50	18.80	01	15/01/2014	08:59	4.03	16/01/2014	09:12	4.08	17/01/2014	08:42	4.40
BH130	SP	9.40	9.60	01	15/01/2014	NI	NI	16/01/2014	NI	NI	17/01/2014	08:46	1.85
BHTWA02	SP	20.00	20.00	01	15/01/2014	12:08	1.84	16/01/2014	11:38	1.86	17/01/2014	11:49	3.45
BHTWA02	SPIE	6.00	6.00	02	15/01/2014	12:07	1.83	16/01/2014	11:37	1.85	17/01/2014	11:46	1.83
BHTWA03	SP	20.00	20.00	01	15/01/2014	11:55	0.58	16/01/2014	11:53	0.57	17/01/2014	11:40	0.50
CP105	SP	14.90	15.00	01	15/01/2014	10:26	5.86	16/01/2014	08:20	5.85	17/01/2014	08:15	5.79
CP108	SP	11.90	12.00	01	15/01/2014	09:07	8.50	16/01/2014	08:22	8.46	17/01/2014	08:30	8.40
CP118	SP	14.90	15.00	01	15/01/2014	08:43	2.70	16/01/2014	09:19	2.03	17/01/2014	09:11	2.00
CP120	SP	7.80	8.00	01	15/01/2014	08:57	4.00	16/01/2014	09:14	3.99	17/01/2014	08:44	3.95
CP124	SP	3.70	3.80	02	15/01/2014	08:29	2.66	16/01/2014	09:36	2.65	17/01/2014	09:30	2.54
CP124	SP	9.90	10.00	01	15/01/2014	08:30	2.78	16/01/2014	09:37	2.62	17/01/2014	09:31	10.25
CP126	SP	19.80	20.00	01	15/01/2014	09:16	10.31	16/01/2014	08:35	10.28	17/01/2014	08:20	1.53
RP105E	SP	19.80	20.00	01	15/01/2014	12:28	1.50	16/01/2014	11:17	1.54	17/01/2014	12:10	0.63
RP110	SP	18.10	18.30	01	15/01/2014	12:03	0.68	16/01/2014	11:45	0.68	17/01/2014	11:42	6.57
Soil Mechanics 4	SP			01	15/01/2014	10:31	5.60	16/01/2014	08:15	6.58	17/01/2014	08:00	11.25
TR101	SP	13.40	13.40	01	15/01/2014	12:50	11.30	16/01/2014	11:31	11.31	17/01/2014	12:22	11.25
TR102	SP	9.40	9.50	01	15/01/2014	12:55	DRY	16/01/2014	10:55	9.36	17/01/2014	12:20	DRY

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Project Name	Croxley Rail Link, Stage 1	<b>Groundwater Readings For Installations</b>	Table No.  03
Project No.	TB7219		
Engineer	Arup		
Client	Taylor Woodrow Construction		

NOTES: SPIE=Piezometer, SP=Standpipe  
For multiple installations at the same depth, use different Installation IDs. Otherwise, the field is optional.  
Monitoring point depth for piezometers = tip depth, for standpipes = base of response zone

COMMENTS NA = No Access  
ER = Low confidence in measured reading using dip meter.

Exploratory Hole ID	Installation Details				Recorded Water Level								
	Type	Depth to base of pipe	Monitoring point depth	ID	Date	Time	Reading	Date	Time	Reading	Date	Time	Reading
		m			m	dd/mm/yyyy	hh:mm	m	dd/mm/yyyy	hh:mm	m	dd/mm/yyyy	hh:mm
BH102	SP	3.40	3.50	01	20/01/2014	08:29	1.62	21/01/2014	10:40	1.62	22/01/2014	12:27	1.64
BH104	SP	4.90	6.00	01	20/01/2014	08:47	1.03	21/01/2014	10:58	1.03	22/01/2014	12:05	1.03
BH105	SP	25.00	25.70	01	20/01/2014	08:46	ER	21/01/2014	10:55	1.48	22/01/2014	12:02	1.45
BH106	SP	5.10	5.20	01	20/01/2014	08:42	1.51	21/01/2014	10:48	1.59	22/01/2014	12:01	1.56
BH108	SP	7.50	7.70	01	20/01/2014	08:51	0.86	21/01/2014	11:07	1.58	22/01/2014	11:47	0.83
BH110	SP	20.00	20.20	01	20/01/2014	08:54	0.99	21/01/2014	11:11	0.99	22/01/2014	11:27	0.96
BH113	SP	4.00	4.00	01	20/01/2014	08:58	1.24	21/01/2014	11:15	1.24	22/01/2014	11:18	1.23
BH115	SP	19.90	20.00	01	20/01/2014	09:03	0.66	21/01/2014	11:19	0.67	22/01/2014	11:12	0.64
BH121	SP	19.80	20.00	01	20/01/2014	NA	NA	21/01/2014	08:20	9.11	22/01/2014	08:46	9.12
BH128	SP	24.50	25.00	01	20/01/2014	NA	NA	21/01/2014	08:40	2.07	22/01/2014	09:47	2.06
BH128	SP	6.20	6.50	02	20/01/2014	NA	NA	21/01/2014	08:41	1.95	22/01/2014	09:48	1.93
BH129	SP	18.50	18.80	01	20/01/2014	NA	NA	21/01/2014	09:04	4.28	22/01/2014	09:28	4.23
BH130	SP	9.40	9.60	01	20/01/2014	NA	NA	21/01/2014	NA	NA	22/01/2014	09:34	3.70
BHTWA02	SP	20.00	20.00	01	20/01/2014	08:40	1.85	21/01/2014	11:02	1.87	22/01/2014	11:56	1.78
BHTWA02	SPIE	6.00	6.00	02	20/01/2014	08:39	1.86	21/01/2014	11:03	1.87	22/01/2014	11:55	1.86
BHTWA03	SP	20.00	20.00	01	20/01/2014	08:53	0.55	21/01/2014	11:09	0.56	22/01/2014	11:35	0.51
CP105	SP	14.90	15.00	01	20/01/2014	NA	NA	21/01/2014	11:40	5.87	22/01/2014	08:12	5.83
CP108	SP	11.90	12.00	01	20/01/2014	NA	NA	21/01/2014	08:23	8.51	22/01/2014	08:53	8.50
CP118	SP	14.90	15.00	01	20/01/2014	NA	NA	21/01/2014	08:37	2.18	22/01/2014	09:37	2.15
CP120	SP	7.80	8.00	01	20/01/2014	NA	NA	21/01/2014	08:49	4.17	22/01/2014	09:31	4.11
CP124	SP	3.70	3.80	02	20/01/2014	NA	NA	21/01/2014	09:49	2.68	22/01/2014	09:53	2.71
CP124	SP	9.90	10.00	01	20/01/2014	NA	NA	21/01/2014	09:20	2.68	22/01/2014	09:54	2.71
CP126	SP	19.80	20.00	01	20/01/2014	NA	NA	21/01/2014	08:15	NA	22/01/2014	08:38	10.29
RP105E	SP	19.80	20.00	01	20/01/2014	08:36	1.53	21/01/2014	10:44	1.45	22/01/2014	12:23	0.54
RP110	SP	18.10	18.30	01	20/01/2014	08:49	0.69	21/01/2014	11:05	0.68	22/01/2014	11:52	0.64
Soil Mechanics 4	SP			01	20/01/2014	NA	NA	21/01/2014	07:55	6.53	22/01/2014	08:07	6.51
TR101	SP	13.40	13.40	01	20/01/2014	08:17	11.29	21/01/2014	10:27	11.30	22/01/2014	12:35	11.28
TR102	SP	9.40	9.50	01	20/01/2014	08:20	DRY	21/01/2014	10:32	DRY	22/01/2014	12:38	DRY


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Project Name	Croxley Rail Link, Stage 1	<b>Groundwater Readings For Installations</b>	Table No.
Project No.	TB7219		
Engineer	Arup		03
Client	Taylor Woodrow Construction		

NOTES: SPIE=Piezometer, SP=Standpipe  
 For multiple installations at the same depth, use different Installation IDs. Otherwise, the field is optional.  
 Monitoring point depth for piezometers = tip depth, for standpipes = base of response zone

COMMENTS NA = No Access


Exploratory Hole ID	Installation Details				Recorded Water Level								
	Type	Depth to base of pipe	Monitoring point depth	ID	Date	Time	Reading	Date	Time	Reading	Date	Time	Reading
		m			m	dd/mm/yyyy	hh:mm	m	dd/mm/yyyy	hh:mm	m	dd/mm/yyyy	hh:mm
BH102	SP	3.40	3.50	01	25/02/2014	17:00	1.52						
BH104	SP	4.90	6.00	01	25/02/2014	16:36	0.81						
BH105	SP	25.00	25.70	01	25/02/2014	16:25	0.99						
BH106	SP	5.10	5.20	01	25/02/2014	16:16	1.44						
BH108	SP	7.50	7.70	01	25/02/2014	16:10	0.75						
BH110	SP	20.00	20.20	01	25/02/2014	16:03	0.91						
BH111	SP	10.00	10.20	01	25/02/2014	15:45	6.58						
BH113	SP	4.00	4.00	01	25/02/2014	15:40	1.06						
BH115	SP	19.90	20.00	01	25/02/2014	15:36	0.58						
BH121	SP	19.80	20.00	01	25/02/2014	13:35	8.99						
BH126	SP	48.80	50.00	01	25/02/2014	15:55	0.36						
BH128	SP	24.50	25.00	01	25/02/2014	13:05	2.10						
BH128	SP	6.20	6.50	02	25/02/2014	13:08	2.01						
BH129	SP	18.50	18.80	01	25/02/2014	13:21	4.31						
BH130	SP	9.40	9.60	01	25/02/2014	13:17	3.81						
BHTWA02	SP	20.00	20.00	01	25/02/2014	16:16	1.72						
BHTWA02	SPIE	6.00	6.00	02	25/02/2014	16:15	1.72						
BHTWA03	SP	20.00	20.00	01	25/02/2014	16:06	0.45						
CP105	SP	14.90	15.00	01	25/02/2014	15:20	5.63						
CP108	SP	11.90	12.00	01	25/02/2014	13:30	8.47						
CP118	SP	14.90	15.00	01	25/02/2014	13:14	2.20						
CP120	SP	7.80	8.00	01	25/02/2014	13:19	4.24						
CP124	SP	3.70	3.80	02	25/02/2014	12:55	2.73						
CP124	SP	9.90	10.00	01	25/02/2014	12:58	2.73						
CP126	SP	19.80	20.00	01	25/02/2014	13:41	9.79						
RP105E	SP	19.80	20.00	01	25/02/2014	17:05	1.35						
RP110	SP	18.10	18.30	01	25/02/2014	16:12	0.56						
Soil Mechanics 4	SP			01	25/02/2014	NA	NA						
TR101	SP	13.40	13.40	01	25/02/2014	16:54	10.96						
TR102	SP	9.40	9.50	01	25/02/2014	16:49	DRY						
TR126	SP	6.20	6.30	01	25/02/2014	15:00	DRY						
TR127	SP	7.50	7.70	01	25/02/2014	15:10	DRY						

Recorded by: D. Bailey	Checked by: D.H.	Approved by:	<b>SOIL ENGINEERING</b> 
Date: 25/02/2014	Date: 26/02/2014	Date:	
Form No. SE-PGR-F-008	Issue.Revision No. 2.04	Issue Date 05/11/2009	
Part of VINCI Construction UK Limited			

Project Name		Croxley Rail Link, Stage 1		<b>Record Of In-Situ Water Monitoring</b>				Hole ID			
Project No.		TB7219						BH102			
Engineer		Arup						Fig no.			
Client		Taylor Woodrow									
Notes Type of Sampling Point: OB = Open Borehole, SP = Standpipe, SPIE = Piezometer, GMP = Gas monitoring point, GWP = Groundwater monitoring point, SS = Surface Sample, NR = Not Recorded											
Well Type				SP							
Depth to base of installation				mbgl		3.40					
Distance to monitoring point from datum				mbgl		3.50		Monitoring Point ID		1	
Measured Parameter	Units	Detection Limit									
Monitoring round no.	N/A	N/A	1	1	1	1					
Well volume			0.5	1	2	3					
Date	dd/mm/yyyy	N/A	05/02/2014	05/02/2014	05/02/2014	05/02/2014					
Time of initial reading	hh:mm	N/A	11:50	11:51	12:00	12:05					
Water Level	m	0.01	1.74	1.83	1.99	2.06					
LNAPL	m	0.01	NR	NR	NR	NR					
DNAPL	m	0.01	NR	NR	NR	NR					
pH	pH Units	0.01	7.63	7.52	7.34	7.43					
Temperature	°C	0.01	8.40	8.00	8.10	8.40					
Conductivity	µS/cm	0.01	1078.00	1058.00	771.00	785.00					
Dissolved Oxygen	mg/l	0.1	NR	NR	NR	0.83					
Redox Potential (ORP)	mV	1	NR	NR	NR	-55					
Turbidity	ftu	0.01	NR	NR	NR	NR					
Volume of water purged	litres	0.01	9.00	9.00	18.00	18.00					
Total Dissolved Solids	ppm	0.01	NR	NR	NR	393.00					
Weather Conditions: Cloudy light rain											
Equipment Used (list): HI9835 / HI991003 / HI9145											
Equipment Last Calibrated (respective to list above): 05-Feb											
Comments Start at 11.45am, initial water level 1.39m. Finish 12.20. Water is silty after 3 well volumes NR: Measurement not required in accordance with Ground Investigation Specification											
Monitored By: EC											
Date: 05/02/2014											
Form No. SE-PGR-F-012		Revision No. 2.04		Issue Date 16/07/2010						<b>SOIL ENGINEERING</b> 	
										Part of VINCI Construction UK Limited	


Project Name Croxley Rail Link, Stage 1					<b>Photo Ionisation and Flame Ionisation Results</b>			Figure No.
Project No. TB7219								
Engineer Arup								
Client Taylor Woodrow Construction								


Hole ID	Headspace Sample Depth	Sample Type	Sample Ref.	Test Number	Test Date	PID	FID	Remarks
	m					ppm	ppm	
TR108A	0.30	ES	001	01	18/10/2013	<0.1		
CP119	0.30	ES	001	01	18/10/2013	<0.1		
BH122	0.30	ES	001	01	18/10/2013	<0.1		
CP120	0.40	ES	001	01	18/10/2013	<0.1		
BH102	3.75	ES	014	01	18/10/2013	24.3		
BH102	2.50	ES	010	01	18/10/2013	35.1		
TP131A	0.50	ES	005	01	18/10/2013	<0.1		
CP113A	0.30	ES	001	01	18/10/2013	<0.1		
CP113A	1.00	ES	003	01	18/10/2013	<0.1		
WS120	0.50	ES	001	01	18/10/2013	<0.1		
TP132	0.20	ES	001	01	18/10/2013	<0.1		
TP131A	0.20	ES	001	01	18/10/2013	<0.1		
TP132	0.60	ES	005	01	18/10/2013	<0.1		
TP126	0.10	ES	001	01	18/10/2013	<0.1		
TP126	0.40	ES	004	01	18/10/2013	<0.1		
TP125	0.30	ES	001	01	18/10/2013	<0.1		
TP125	0.60	ES	006	01	18/10/2013	<0.1		
TP127	0.20	ES	001	01	18/10/2013	<0.1		
TP127	0.40	ES	005	01	18/10/2013	<0.1		
TP129A	0.20	ES	001	01	18/10/2013	<0.1		
TP129A	0.60	ES	005	01	18/10/2013	<0.1		
TP134	0.20	ES	001	01	18/10/2013	<0.1		
TP134	0.60	ES	005	01	18/10/2013	<0.1		
TP139	0.20	ES	005	01	18/10/2013	<0.1		
TP139	0.50	ES	005	01	18/10/2013	<0.1		

Instrument used: PID MiniRAE SN:590-001178					FID				
Limits of detection PID 0.1					FID				
Last calibrated PID 16/10/2013					FID				
Tested by:									
Matthew O'Brien									
Form No. SE-EMS-F-001 Issue No. 1 Revision No. 03					Issue Date 01/09/2010				
								Part of VINCI Construction UK Limited	

Project Name Croxley Rail Link, Stage 1					<b>Photo Ionisation and Flame Ionisation Results</b>			Figure No.
Project No. TB7219								
Engineer Arup								
Client Taylor Woodrow Construction								

Hole ID	Headspace Sample Depth	Sample Type	Sample Ref.	Test Number	Test Date	PID	FID	Remarks
	m					ppm	ppm	
TR108A	0.30	ES	001	01	18/10/2013	<0.1		
CP119	0.30	ES	001	01	18/10/2013	<0.1		
BH122	0.30	ES	001	01	18/10/2013	<0.1		
CP120	0.40	ES	001	01	18/10/2013	<0.1		
BH102	3.75	ES	014	01	18/10/2013	24.3		
BH102	2.50	ES	010	01	18/10/2013	35.1		
TP131A	0.50	ES	005	01	18/10/2013	<0.1		
CP113A	0.30	ES	001	01	18/10/2013	<0.1		
CP113A	1.00	ES	003	01	18/10/2013	<0.1		
WS120	0.50	ES	001	01	18/10/2013	<0.1		
TP132	0.20	ES	001	01	18/10/2013	<0.1		
TP131A	0.20	ES	001	01	18/10/2013	<0.1		
TP132	0.60	ES	005	01	18/10/2013	<0.1		
TP126	0.10	ES	001	01	18/10/2013	<0.1		
TP126	0.40	ES	004	01	18/10/2013	<0.1		
TP125	0.30	ES	001	01	18/10/2013	<0.1		
TP125	0.60	ES	006	01	18/10/2013	<0.1		
TP127	0.20	ES	001	01	18/10/2013	<0.1		
TP127	0.40	ES	005	01	18/10/2013	<0.1		
TP129A	0.20	ES	001	01	18/10/2013	<0.1		
TP129A	0.60	ES	005	01	18/10/2013	<0.1		
TP134	0.20	ES	001	01	18/10/2013	<0.1		
TP134	0.60	ES	005	01	18/10/2013	<0.1		
TP139	0.20	ES	005	01	18/10/2013	<0.1		
TP139	0.50	ES	005	01	18/10/2013	<0.1		

Instrument used: PID MiniRAE SN:590-001178					FID				
Limits of detection PID 0.1					FID				
Last calibrated PID 16/10/2013					FID				
Tested by:									
Matthew O'Brien									
Form No. SE-EMS-F-001 Issue No. 1 Revision No. 03					Issue Date 01/09/2010				
Part of VINCI Construction UK Limited									

Project Name Croxley Rail Link, Stage 1					<b>Photo Ionisation and Flame Ionisation Results</b>			Table No.  4
Project No. TB7219	Engineer Arup	Client Taylor Woodrow Construction						
Hole ID	Headspace Sample Depth	Sample Type	Sample Ref.	Test Number	Test Date	PID	FID	Remarks
	m					ppm	ppm	
TR108A	0.30	ES	001	01	18/10/2013	<0.1		
CP119	0.30	ES	001	01	18/10/2013	<0.1		
BH122	0.30	ES	001	01	18/10/2013	<0.1		
CP120	0.40	ES	001	01	18/10/2013	<0.1		
BH102	3.75	ES	014	01	18/10/2013	24.3		
BH102	2.50	ES	010	01	18/10/2013	35.1		
TP131A	0.50	ES	005	01	18/10/2013	<0.1		
CP113A	0.30	ES	001	01	18/10/2013	<0.1		
CP113A	1.00	ES	003	01	18/10/2013	<0.1		
WS120	0.50	ES	001	01	18/10/2013	<0.1		
TP132	0.20	ES	001	01	18/10/2013	<0.1		
TP131A	0.20	ES	001	01	18/10/2013	<0.1		
TP132	0.60	ES	005	01	18/10/2013	<0.1		
TP126	0.10	ES	001	01	18/10/2013	<0.1		
TP126	0.40	ES	004	01	18/10/2013	<0.1		
TP125	0.30	ES	001	01	18/10/2013	<0.1		
TP125	0.60	ES	006	01	18/10/2013	<0.1		
TP127	0.20	ES	001	01	18/10/2013	<0.1		
TP127	0.40	ES	005	01	18/10/2013	<0.1		
TP129A	0.20	ES	001	01	18/10/2013	<0.1		
TP129A	0.60	ES	005	01	18/10/2013	<0.1		
TP134	0.20	ES	001	01	18/10/2013	<0.1		
TP134	0.60	ES	005	01	18/10/2013	<0.1		
TP139	0.20	ES	005	01	18/10/2013	<0.1		
TP139	0.50	ES	005	01	18/10/2013	<0.1		
Instrument used: PID MiniRAE SN:590-001178					FID			
Limits of detection PID 0.1					FID			
Last calibrated PID 16/10/2013					FID			
Tested by: Matthew O'Brien								
Form No. SE-EMS-F-001 Issue No. 1 Revision No. 03					Issue Date 01/09/2010			
								Part of VINCI Construction UK Limited



Project Name	Croxley Rail Link, Stage 1	<b>Record Of Recirculated Flow Gas Monitoring</b>	Hole ID
Project No.	TB7219		BH102
Engineer	Arup		Table No.
Client	Taylor Woodrow Construction Ltd		1 - Round 6

PID Reading	ppm	N/A
Initial Atmospheric Pressure	mbar	1009
Differential Pressure	mbar	-0.190
Temperature	°C	16


	Minutes	O <sub>2</sub> %	CO <sub>2</sub> %	CO ppm	H <sub>2</sub> S ppm	CH <sub>4</sub> %	CH <sub>4</sub> %LEL
T (Shallow)	Initial	5	21	0.1	1.0	<1	<0.1
		30	14.2	5.6	1.0	<1	<0.1
		60	13.3	6.3	1.0	<1	<0.1
T (Deep)	Initial	5	12.9	6.4	2.0	<1	<0.1
		30	12.4	6.8	1.0	<1	<0.1
		60	12.4	7.0	1.0	<1	<0.1
Circulated		1	12.4	6.8	1.0	<1	<0.1
		2	12.4	6.8	1.0	<1	<0.1
		3	12.4	6.8	1.0	<1	<0.1
		4	12.4	6.8	1.0	<1	<0.1
		5	12.4	6.8	1.0	<1	<0.1
		6	12.4	6.8	1.0	<1	<0.1
		7	12.4	6.8	1.0	<1	<0.1
		8	12.4	6.8	1.0	<1	<0.1
		9	12.4	6.8	1.0	<1	<0.1
		10	12.4	6.8	1.0	<1	<0.1
T (Shallow)	Final	5	12.4	6.8	1.0	<1	<0.1
		30	12.4	6.8	1.0	<1	<0.1
		60	12.4	6.8	1.0	<1	<0.1
T (Deep)	Final	5	12.3	7.0	1.0	<1	<0.1
		30	12.2	7.1	<1.0	<1	<0.1
		60	12.2	7.1	<1.0	<1	<0.1


	Minutes	Flow l/h
Flow	1	0.5
	2	0.6
	3	0.6
	4	0.6
	5	0.6
	6	0.6
	7	0.6
	8	0.7
	9	0.7
	10	0.7

Final Atmospheric Pressure	mbar	1009
Water Depth	m	2.09

Weather Conditions:	Overcast
Equipment Used (list):	GA5000
Equipment Last Calibrated (respective to list above):	17/03/2014

Comments  
Monitored by J. Crowley

Monitored By:		 <b>SOIL ENGINEERING</b>				
Date:	30.07.14					
Form No.	SE-EMS-F-006	Revision No.	1.03	Issue Date	27/01/2014	Part of the Bachy Soletanche Group

Project Name		Croxley Rail Link, Stage 1		<b>Record Of Recirculated Flow Gas Monitoring</b>				Hole ID		BH102	
Project No.		TB7219						Table No.		1 - Round 5	
Engineer		Arup									
Client		Taylor Woodrow Construction Ltd									
PID Reading		ppm		N/A							
Initial Atmospheric Pressure		mbar								1016	
Differential Pressure		mbar								-0.070	
Temperature		°C								21	
		Minutes		O <sub>2</sub> %		CO <sub>2</sub> %		CO ppm		H <sub>2</sub> S ppm	
T (Shallow)		Initial		5		20.5		0.2		2.0	
				30		13.4		6.0		<1	
				60		13.2		6.0		<1	
T (Deep)		Initial		5		13.2		6.0		3.0	
				30		13.2		6.0		<1	
				60		13.2		6.0		<1	
Circulated				1		13.2		6.0		1.0	
				2		13.2		6.0		1.0	
				3		13.2		6.0		1.0	
				4		13.2		6.0		1.0	
				5		13.1		6.0		1.0	
				6		13.1		6.0		1.0	
				7		13.2		6.0		<1	
				8		13.2		6.0		<1	
				9		13.1		6.0		<1	
				10		13.1		6.0		<1	
T (Shallow)		Final		5		13.2		5.9		1.0	
				30		13.2		5.9		1.0	
				60		13.2		5.9		1.0	
T (Deep)		Final		5		13.2		5.8		1.0	
				30		13.1		6.0		1.0	
				60		13.1		6.0		1.0	
				1		0.3					
Flow				2		0.3					
				3		0.3					
				4		0.3					
				5		0.3					
				6		0.3					
				7		0.3					
				8		0.3					
				9		0.3					
				10		0.3					
Final Atmospheric Pressure		mbar								1016	
Water Depth		m								2.03	
Weather Conditions:											
Equipment Used (list):		GA5000									
Equipment Last Calibrated (relative to list above):		17/03/2014									
Comments											
Monitored by J. Crowley											
Monitored By:											
Date:		02/072014									
Form No.		SE-EMS-F-006		Revision No.		1.03		Issue Date		27/01/2014	
										 <b>SOIL ENGINEERING</b> Part of the Bachy Soletanche Group	

Project Name	Croxley Rail Link, Stage 1	<b>Record Of Recirculated Flow Gas Monitoring</b>	Hole ID
Project No.	TB7219		BH102
Engineer	Arup		Page No.
Client	Taylor Woodrow Construction Ltd		1 - Round 4

PID Reading	ppm	Not Required	
Initial Atmospheric Pressure	mbar		1008
Differential Pressure	mbar		0.000
Temperature	°C		16


		Minutes	O <sub>2</sub> %	CO <sub>2</sub> %	CO ppm	H <sub>2</sub> S ppm	CH <sub>4</sub> %	CH <sub>4</sub> %LEL
T (Shallow)	Initial	5	20.8	0.1	6.0	<1	<0.1	
		30	13.6	4.6	3.0	<1	<0.1	
		60	13.3	4.8	1.0	<1	<0.1	
T (Deep)	Initial	5	13.2	4.8	2.0	<1	<0.1	
		30	13.1	4.9	1.0	<1	<0.1	
		60	13	5.0	1.0	<1	<0.1	
Circulated		1	13.3	4.8	1.0	<1	<0.1	
		2	13.3	4.9	1.0	<1	<0.1	
		3	13.2	4.9	1.0	<1	<0.1	
		4	13.2	4.9	1.0	<1	<0.1	
		5	13.2	4.9	1.0	<1	<0.1	
		6	13.2	4.9	1.0	<1	<0.1	
		7	13.2	4.9	1.0	<1	<0.1	
		8	13.2	4.9	1.0	<1	<0.1	
		9	13.2	4.9	1.0	<1	<0.1	
		10	13.2	4.9	1.0	<1	<0.1	
T (Shallow)	Final	5	13.2	4.8	1.0	<1	<0.1	
		30	13.2	4.9	1.0	<1	<0.1	
		60	13.2	4.9	1.0	<1	<0.1	
T (Deep)	Final	5	13.3	4.9	1.0	<1	<0.1	
		30	13	5.1	1.0	<1	<0.1	
		60	13	5.1	<1	<1	<0.1	


	Minutes	Flow l/h
Flow	1	0.2
	2	0.2
	3	0.2
	4	0.2
	5	0.2
	6	0.2
	7	0.2
	8	0.2
	9	0.2
	10	0.2

Final Atmospheric Pressure	mbar	1008
Water Depth	m	1.73

Weather Conditions:	Cloudy
Equipment Used (list):	GA5000
Equipment Last Calibrated (respective to list above):	17/03/2014

Comments  
Monitored by D. Bailey

Monitored By:		 <b>SOIL ENGINEERING</b>				
Date:	29/05/2014					
Form No.	SE-EMS-F-006	Revision No.	1.03	Issue Date	27/01/2014	Part of the Bachy Soletanche Group

Project Name Croxley Rail Link, Stage 1		<b>Record Of Recirculated Flow Gas Monitoring</b>				Hole ID		
Project No. TB7219						BH102		
Engineer Arup						Table No.		
Client Taylor Woodrow Construction Ltd						1 - Round 3		
PID Reading ppm		Not Required						
Initial Atmospheric Pressure mbar		1010						
Differential Pressure mbar		0.140						
Temperature °C		12						
		Minutes	O <sub>2</sub> %	CO <sub>2</sub> %	CO ppm	H <sub>2</sub> S ppm	CH <sub>4</sub> %	CH <sub>4</sub> %LEL
T (Shallow)	Initial	5	15.6	4.2	<1	<1	<0.1	
		30	15.4	4.3	<1	<1	<0.1	
		60	15.4	4.3	<1	<1	<0.1	
T (Deep)	Initial	5	15.4	4.2	1	<1	<0.1	
		30	15.3	4.2	1	<1	<0.1	
		60	15.3	4.3	1	<1	<0.1	
Circulated		1	15.2	4.2	1	<1	<0.1	
		2	15.2	4.2	<1	<1	<0.1	
		3	15.2	4.2	<1	<1	<0.1	
		4	15.2	4.2	<1	<1	<0.1	
		5	15.2	4.2	<1	<1	<0.1	
		6	15.2	4.2	1	<1	<0.1	
		7	15.2	4.2	1	<1	<0.1	
		8	15.2	4.2	1	<1	<0.1	
		9	15.2	4.2	1	<1	<0.1	
		10	15.2	4.2	1	<1	<0.1	
T (Shallow)	Final	5	15.1	4.2	1	<1	<0.1	
		30	15.1	4.2	1	<1	<0.1	
		60	15.2	4.2	<1	<1	<0.1	
T (Deep)	Final	5	15.2	4.2	1	<1	<0.1	
		30	15.1	4.2	<1	<1	<0.1	
		60	15.1	4.2	<1	<1	<0.1	
		Minutes	Flow l/h					
Flow		1	0.1					
		2	0.1					
		3	0.1					
		4	0.1					
		5	0.1					
		6	0.1					
		7	0.1					
		8	0.1					
		9	0.1					
		10	0.1					
Final Atmospheric Pressure mbar		1010						
Water Depth m		1.79						
Weather Conditions:		Sunny/slight cloud						
Equipment Used (list):		GA5000						
Equipment Last Calibrated (respectively to list above):		17/03/2014						
Comments								
Monitored by John Crowley								
Start time: 11:10								
Gas pipe length: 0.20m								
Monitored By:								
Date: 23/04/2014								
Form No. SE-EMS-F-006		Revision No. 1.03		Issue Date 27/01/2014		 <b>SOIL ENGINEERING</b> Part of the Bachy Soletanche Group		

Project Name	Croxley Rail Link, Stage 1	<b>Record Of Recirculated Flow Gas Monitoring</b>	Hole ID
Project No.	TB7219		BH102
Engineer	Arup		Table No.
Client	Taylor Woodrow Construction Ltd		1 - Round 2

PID Reading	ppm	N/A
Initial Atmospheric Pressure	mbar	1011
Differential Pressure	mbar	-0.140
Temperature	°C	5


	Minutes	O <sub>2</sub> %	CO <sub>2</sub> %	CO ppm	H <sub>2</sub> S ppm	CH <sub>4</sub> %	CH <sub>4</sub> %LEL
T (Shallow)	Initial	5	20.8	3.7	1.0	1	<0.1
		30	16.3	3.8	<1	<1	<0.1
		60	16.2	3.8	<1	<1	<0.1
T (Deep)	Initial	5	21.1	0.3	3.0	3	<0.1
		30	16.6	3.8	<1	<1	<0.1
		60	16.2	3.8	<1	<1	<0.1
Circulated		1	16.4	3.7	<1	<1	<0.1
		2	16.5	3.6	<1	<1	<0.1
		3	16.7	3.5	<1	<1	<0.1
		4	16.7	3.5	<1	<1	<0.1
		5	16.7	3.4	<1	<1	<0.1
		6	16.8	3.4	<1	<1	<0.1
		7	16.8	3.4	<1	<1	<0.1
		8	16.8	3.4	<1	<1	<0.1
		9	16.8	3.4	<1	<1	<0.1
		10	16.8	3.3	<1	<1	<0.1
T (Shallow)	Final	5	16.8	3.3	<1	<1	<0.1
		30	16.8	3.3	<1	<1	<0.1
		60	16.8	3.4	<1	<1	<0.1
T (Deep)	Final	5	16.7	3.5	<1	<1	<0.1
		30	16.3	3.7	<1	<1	<0.1
		60	16.2	3.8	<1	<1	<0.1

	Minutes	Flow l/h
Flow	1	0.2
	2	0.2
	3	0.2
	4	0.2
	5	0.2
	6	0.2
	7	0.2
	8	0.2
	9	0.2
	10	0.2

Final Atmospheric Pressure	mbar	1012
Water Depth	m	0.73

Weather Conditions: Cloudy  
Equipment Used (list): GA5000  
Equipment Last Calibrated (respective to list above): 17/03/2014

Comments  
Monitored by J.C.

Project Name Croxley Rail Link, Stage 1		<b>Record Of Recirculated Flow Gas Monitoring</b>				Hole ID BH102		
Project No. TB7219						Table No. 1 - Round 1		
Engineer Arup								
Client Taylor Woodrow Construction Ltd								
PID Reading	ppm	n/a						
Initial Atmospheric Pressure	mbar	999						
Differential Pressure	mbar	-4.630						
Temperature	°C	9						
	Minutes	O <sub>2</sub> %	CO <sub>2</sub> %	CO ppm	H <sub>2</sub> S ppm	CH <sub>4</sub> %	CH <sub>4</sub> %LEL	
T (Shallow)	Initial	5	20.8	<0.1	<1	<1	<0.1	<1
		30	19.8	0.9	<1	<1	<0.1	<1
		60	18.8	1.4	<1	<1	<0.1	<1
T (Deep)	Initial	5	18.5	1.5	<1	<1	<0.1	<1
		30	16.5	2.8	<1	<1	<0.1	<1
		60	16.3	2.8	<1	<1	<0.1	<1
Circulated		1	17	2.5	<1	<1	<0.1	<1
		2	16.8	2.5	<1	<1	<0.1	<1
		3	16.8	2.5	<1	<1	<0.1	<1
		4	16.9	2.5	<1	<1	<0.1	<1
		5	16.9	2.5	<1	<1	<0.1	<1
		6	16.9	2.4	<1	<1	<0.1	<1
		7	16.9	2.4	<1	<1	<0.1	<1
		8	16.9	2.4	<1	<1	<0.1	<1
		9	17	2.4	<1	<1	<0.1	<1
		10	17	2.4	<1	<1	<0.1	<1
T (Shallow)	Final	5	17	2.4	<1	<1	<0.1	<1
		30	17	2.4	<1	<1	<0.1	<1
		60	17	2.4	<1	<1	<0.1	<1
T (Deep)	Final	5	17.1	2.3	<1	<1	<0.1	<1
		30	16.5	2.8	<1	<1	<0.1	<1
		60	16.3	2.9	<1	<1	<0.1	<1
	Minutes	Flow l/h						
Flow		1	0.1					
		2	0.1					
		3	0.1					
		4	0.1					
		5	0.2					
		6	0.2					
		7	0.2					
		8	0.2					
		9	0.2					
		10	0.2					
Final Atmospheric Pressure	mbar	999						
Water Depth	m	1.49						
Weather Conditions:	Sunny							
Equipment Used (list):	GA2000 GA11434							
Equipment Last Calibrated (respectively to list above):	19/09/2013							
Comments	Monitored by EC							
Monitored By:					 <b>SOIL ENGINEERING</b> Part of the Bachy Soletanche Group			
Date:	21/02/2014							
Form No.	SE-EMS-F-006	Revision No.	1.03	Issue Date	27/01/2014			




Project Name	Croxley Rail Link, Stage 1	<b>Groundwater Readings For Installations</b>	Table No.  02
Project No.	TB7219		
Engineer	Arup		
Client	Taylor Woodrow Construction Ltd		

NOTES: SPIE=Piezometer, SP=Standpipe  
 For multiple installations at the same depth, use different Installation IDs. Otherwise, the field is optional.  
 Monitoring point depth for piezometers = tip depth, for standpipes = base of response zone

COMMENTS NA = No Access  
 On 23/04/2014 BHTWA02 found to be damaged and unusable  
 On 28/04/2014 protective manhole ring on TR126 found to have been moved & installation destroyed

Exploratory Hole ID	Installation Details				Recorded Water Level								
	Type	Depth to base of pipe	Monitoring point depth	ID	Date	Time	Reading	Date	Time	Reading	Date	Time	Reading
		m			m	dd/mm/yyyy	hh:mm	m	dd/mm/yyyy	hh:mm	m	dd/mm/yyyy	hh:mm
BH102	SP	3.40	3.50	01	02/07/2014	15:30	2.03	30/07/2014		2.09			
BH104	SP	4.90	5.00	01	02/07/2014	13:40	1.25	30/07/2014		1.34			
BH105	SP	25.00	25.70	01	02/07/2014	NA		30/07/2014		1.46			
BH106	SP	5.10	5.20	01	02/07/2014	14:35	1.76	30/07/2014		1.82			
BH108	SP	7.50	7.70	01	03/07/2014	14:35	1.00	29/07/2014		1.06			
BH110	SP	20.00	20.20	01	03/07/2014	12:05	1.15	29/07/2014		1.17			
BH111	SP	10.00	10.20	01	03/07/2014	09:40	6.86	29/07/2014		6.89			
BH113	SP	4.00	4.00	01	03/07/2014	08:40	1.37	28/07/2014		1.40			
BH115	SP	19.90	20.00	01	02/07/2014	17:20	0.84	28/07/2014		0.89			
BH121	SP	19.80	20.00	01	01/07/2014	11:45	11.36	31/07/2014		13.04			
BH124	SP	25.05	25.05	01	04/07/2014	08:30	11.53						
BH126	SP	48.80	50.00	01	03/07/2014	11:10	0.62	29/07/2014		0.67			
BH128	SP	24.50	25.00	01	30/06/2014	14:30	4.88	31/07/2014		7.05			
BH128	SP	6.20	6.50	02	30/06/2014	15:15	4.81	31/07/2014		Dry			
BH129	SP	18.50	18.80	01	01/07/2014	09:50	6.89	30/07/2014		8.77			
BH130	SP	9.40	9.60	01	30/06/2014	17:10	6.45	30/07/2014		8.36			
BH131B	SP	7.00	7.20	01	02/07/2014	12:05	0.78	28/07/2014		0.82			
BH132A	SP	25.00	25.50	01	01/07/2014	17:15	1.21	28/07/2014		1.26			
TWA02	SP	20.00	20.00	01									
TWA02	SPIE	6.00	6.00	02									
TWA03	SP	20.00	20.00	01	03/07/2014	15:30	0.69	29/07/2014		0.75			
CP105	SP	14.90	15.00	01	01/07/2014	15:55	6.47	01/08/2014		6.63			
CP108	SP	11.90	12.00	01	01/07/2014	10:55	11.19	31/07/2014		Dry			
CP118	SP	14.90	15.00	01	30/06/2014	16:10	4.95	30/07/2014		7.00			
CP120	SP	7.80	8.00	01	01/07/2014	09:00	DRY	30/07/2014		Dry			
CP124	SP	3.70	3.80	01	30/06/2014	13:25	DRY	31/07/2014		Dry			
CP124	SP	9.90	10.00	01	30/06/2014	12:45	DRY	31/07/2014		7.51			
CP126	SP	19.80	20.00	01	01/07/2014	13:10	11.75	31/07/2014		12.58			
RP105E	SP	19.80	20.00	01	02/07/2014	16:25	1.74	30/07/2014		1.82			
RP110	SP	18.10	18.30	01	03/07/2014	13:40	0.87	29/07/2014		0.91			
Soil Mechanics 4	SP			01	01/07/2014	16:10	6.10	01/08/2014		6.79			
TR101	SP	14.90	15.00	01	02/07/2014	10:35	11.55	01/08/2014		11.67			
TR102	SP	9.40	9.50	01	02/07/2014	09:45	DRY	01/08/2014		Dry			
TR104A	SP	11.40	11.40	01	01/07/2014	14:50	8.90						
TR107A	SP	11.50	11.60	01	01/07/2014	14:30	9.27						
TR126	SP	6.20	6.30	01	01/07/2014	NA							


Recorded by: J. Crowley	Checked by: D.R.H.	Approved by: JTW	 <b>SOIL ENGINEERING</b> Part of the Bachy Soletanche Group
Date:	Date:	Date: 19/03/2015	
Form No. SE-PGR-F-008	Issue/Revision No. 2.05	Issue Date 24/01/2014	

Project Name	Croxley Rail Link, Stage 1	<b>Groundwater Readings For Installations</b>	Table No.  02
Project No.	TB7219		
Engineer	Arup		
Client	Taylor Woodrow Construction Ltd		

**NOTES:** SPIE=Piezometer, SP=Standpipe  
For multiple installations at the same depth, use different Installation IDs. Otherwise, the field is optional.  
Monitoring point depth for piezometers = tip depth, for standpipes = base of response zone

**COMMENTS** NA = No Access  
On 23/04/2014 BHTWA02 found to be damaged and unusable  
On 28/04/2014 protective manhole ring on TR126 found to have been moved & installation destroyed

Exploratory Hole ID	Installation Details				Recorded Water Level								
	Type	Depth to base of pipe	Monitoring point depth	ID	Date	Time	Reading	Date	Time	Reading	Date	Time	Reading
		m											
BH102	SP	3.40	3.50	01	26/03/2014	10:48	0.73	24/04/2014	11:50	1.79	29/05/2014		1.73
BH104	SP	4.90	5.00	01	26/03/2014	11:35	0.96	23/04/2014	13:50	1.04	29/05/2014		1.08
BH105	SP	25.00	25.70	01	26/03/2014	13:30	1.12	23/04/2014	15:30	1.21	29/05/2014		1.20
BH106	SP	5.10	5.20	01	26/03/2014	14:30	1.54	23/04/2014	14:40	1.52	29/05/2014		1.59
BH108	SP	7.50	7.70	01	25/03/2014	17:10	0.78	28/04/2014	14:30	0.88	29/05/2014		0.89
BH110	SP	20.00	20.20	01	27/03/2014	15:20	97.00	29/04/2014	11:00	1.04	28/05/2014		1.00
BH111	SP	10.00	10.20	01	27/03/2014	17:00	6.64	29/04/2014	12:30	6.72	28/05/2014		6.72
BH113	SP	4.00	4.00	01	31/03/2014	16:55	1.24	25/04/2014	13:35	1.27	28/05/2014		1.19
BH115	SP	19.90	20.00	01	01/04/2014	10:55	0.71	25/04/2014	14:15	0.74	23/05/2014		0.76
BH121	SP	19.80	20.00	01	28/03/2014	11:30	9.53	28/04/2014	11:45	10.15	27/05/2014		10.17
BH124	SP	25.05	25.05	01	01/04/2014	09:40	10.02	29/04/2014	14:50	10.55			
BH126	SP	48.80	50.00	01	31/03/2014	16:10	0.47	29/04/2014	11:45	0.49	28/05/2014		0.49
BH128	SP	24.50	25.00	01	25/03/2014	11:00	2.53	24/04/2014	12:20	3.22	27/05/2014		3.22
BH128	SP	6.20	6.50	02	31/03/2014	10:15	2.48	24/04/2014	12:55	3.18	27/05/2014		3.15
BH129	SP	18.50	18.80	01	25/03/2014	13:05	4.50	24/04/2014	15:35	5.26	27/05/2014		5.25
BH130	SP	9.40	9.60	01	25/03/2014	14:10	4.10	24/04/2014	14:20	4.85	27/05/2014		4.78
BH131B	SP	7.00	7.20	01	25/03/2014	13:15	0.62	23/04/2014	17:25	0.69	23/05/2014		0.69
BH132A	SP	25.00	25.50	01	25/03/2014	11:44	1.02	23/04/2014	16:40	1.08	23/05/2014		1.10
TWA02	SP	20.00	20.00	01	25/03/2014	NA	NA	23/04/2014	NA	NA			
TWA02	SPIE	6.00	6.00	02	25/03/2014	NA	NA	23/04/2014	NA	NA			
TWA03	SP	20.00	20.00	01	27/03/2014	14:30	0.51	28/04/2014	15:05	0.56	30/05/2014		0.58
CP105	SP	14.90	15.00	01	28/03/2014	08:30	6.05	28/04/2014	09:05	6.26	28/05/2014		6.24
CP108	SP	11.90	12.00	01	28/03/2014	12:10	8.92	24/04/2014	16:20	9.64	27/05/2014		9.71
CP118	SP	14.90	15.00	01	25/03/2014	NA	NA	24/04/2014	13:40	3.34	27/05/2014		3.24
CP120	SP	7.80	8.00	01	25/03/2014	13:50	4.50	24/04/2014	15:05	5.22	27/05/2014		5.14
CP124	SP	3.70	3.80	01	31/03/2014	11:45	3.10	24/04/2014	10:40	DRY	23/05/2014		DRY
CP124	SP	9.90	10.00	01	31/03/2014	12:30	3.11	24/04/2014	11:30	3.77	23/05/2014		3.93
CP126	SP	19.80	20.00	01	28/03/2014	10:20	10.77	28/04/2014	10:55	11.32	27/05/2014		DRY
RP105E	SP	19.80	20.00	01	27/03/2014	13:00	1.47	23/04/2014	13:00	1.57	29/05/2014		1.58
RP110	SP	18.10	18.30	01	26/03/2014	16:30	0.62	28/04/2014	13:50	0.71	29/05/2014		0.71
Soil Mechanics 4	SP			01	01/04/2014	12:00	6.12	23/04/2014	08:20	6.16	29/05/2014		6.08
TR101	SP	14.90	15.00	01	27/03/2014	11:05	11.17	23/04/2014	09:50	11.29	30/05/2014		11.37
TR102	SP	9.40	9.50	01	27/03/2014	10:20	DRY	28/04/2014	10:40	DRY	30/05/2014		DRY
TR126	SP	6.20	6.30	01	31/03/2014	14:30	DRY	28/04/2014	NA	NA			
TR127	SP	7.50	7.70	01	31/03/2014	13:40	DRY	24/04/2014	09:50	DRY	28/05/2014		DRY
TR134	SP	10.20	10.20	01				24/04/2014	09:00	4.94	23/05/2014		5.28

Recorded by:	J. Crowley	Checked by:	D.R.H.	Approved by:	JTW	 <b>SOIL ENGINEERING</b> Part of the Bachy Soletanche Group
Date:		Date:		Date:	19/03/2015	
Form No.	SE-PGR-F-008	Issue/Revision No.	2.05	Issue Date	24/01/2014	