

	SOIL ENGINEERING SERVICES (SES) خدمات مهندسی مکانیک خاک	
	PROJ NO: 1347-EE-PEP-GEO-001-B	REV: B
	SUBJECT: GEOTECHNICAL INVESTIGATION, PHASE I, FACTUAL REPORT, SOUTH ALUMINIUM SMELTER (SALCO) IRAN	

Enclosure C

Boreholes List

No.	Borehole No.	Depth	Borehole Type	X (UTM)	Y (UTM)	Start Date	End Date
1	BH001	40	G.B	722673.849	3031916.238	2015/04/27	2015/04/28
2	BH002	40	Sampling	722661.633	3031893.287	2015/03/25	2015/03/27
3	BH003	15	DCPT	722649.416	3031870.336	2015/04/12	2015/04/13
4	BH004	15	G.B	722637.200	3031847.385	2015/05/09	2015/05/09
5	BH005	15	S.P.T	722624.983	3031824.433	2015/03/28	2015/03/28
6	BH006	21.8	DCPT	722612.766	3031801.482	2015/04/29	2015/04/29
7	BH007	15	S.P.T	722675.015	3031856.709	2015/03/29	2015/03/29
8	BH008	25	Sampling	722700.615	3031843.083	2015/03/30	2015/03/30
9	BH009	10	V.S.T	722662.799	3031833.758	2015/04/15	2015/04/15
10	BH010	15	DCPT	722688.398	3031820.132	2015/04/15	2015/04/15
11	BH011	22.4	DCPT	722650.582	3031810.807	2015/04/30	2015/04/30
12	BH012	15	S.P.T	722676.182	3031797.181	2015/03/29	2015/03/29
13	BH013	25	Sampling	722638.366	3031787.856	2015/04/20	2015/04/20
14	BH014	30	G.B	722663.965	3031774.230	2015/05/08	2015/05/08
15	BH015	25	G.B	722633.547	3031770.495	2015/04/29	2015/04/29
16	BH016	10	V.S.T	722655.700	3031758.703	2015/03/30	2015/03/30
17	BH017	15	DCPT	722725.493	3031940.644	2015/04/14	2015/04/14
18	BH018	25	Sampling	722743.289	3031931.172	2015/04/21	2015/04/21
19	BH019	25	G.B	722716.518	3031923.783	2015/04/29	2015/04/29
20	BH020	15	S.P.T	722734.314	3031914.311	2015/03/29	2015/03/29
21	BH021	25	Sampling	722708.237	3031908.225	2015/03/28	2015/03/28
22	BH023	20	G.B	722705.719	3031899.274	2015/04/29	2015/04/29
23	BH024	50	G.B	722716.972	3031885.149	2015/05/07	2015/05/09
24	BH025	20	Sampling	722693.134	3031878.046	2015/03/28	2015/03/28
25	BH026	20	G.B	722709.397	3031869.390	2015/04/28	2015/04/29
26	BH027	20	Sampling	722726.897	3031869.817	2015/03/29	2015/03/29
27	BH028	10	V.S.T	722750.789	3031857.100	2015/04/20	2015/04/20
28	BH029	20	S.P.T	722772.857	3031845.353	2015/04/15	2015/04/15

TITLE: List of Drilled Boreholes in Phase I

	Project: SOUTH ALUMINUM SMELTER PLANT	FIG. No.: 1
	CLIENT : NFC	PROJ. No. : 1347

SOIL ENGINEERING SERVICES CONSULTING ENGINEERS

No.	Borehole No.	Depth	Borehole Type	X (UTM)	Y (UTM)	Start Date	End Date
29	BH030	40	G.B	722794.926	3031833.606	2015/04/23	2015/04/25
30	BH031	40	Sampling	722816.994	3031821.859	2015/03/28	2015/03/29
31	BH032	15	DCPT	722839.063	3031810.113	2015/04/15	2015/04/15
32	BH033	20	G.B	722861.131	3031798.366	2015/04/22	2015/04/22
33	BH034	20	G.B	722883.199	3031786.619	2015/04/22	2015/04/23
34	BH035	20	Sampling	722905.268	3031774.872	2015/03/29	2015/03/30
35	BH036	20	G.B	722927.336	3031763.125	2015/04/24	2015/04/24
36	BH038	15	S.P.T	722971.473	3031739.632	2015/04/15	2015/04/15
37	BH039	20.5	Sampling	722993.541	3031727.885	2015/04/13	2015/04/13
38	BH040	10	V.S.T	723015.610	3031716.138	2015/04/15	2015/04/15
39	BH041	20	G.B	723037.678	3031704.392	2015/04/25	2015/04/25
40	BH042	40	Sampling	723059.746	3031692.645	2015/04/04	2015/04/05
41	BH043	40	G.B	723081.815	3031680.898	2015/05/01	2015/05/02
42	BH044	20	Sampling	723103.883	3031669.151	2015/03/30	2015/03/30
43	BH045	18	DCPT	723125.952	3031657.405	2015/04/30	2015/04/30
44	BH046	20	G.B	723148.020	3031645.658	2015/04/22	2015/04/22
45	BH047	15.45	S.P.T	723170.088	3031633.911	2015/04/10	2015/04/10
46	BH048	50	Sampling	723192.157	3031622.164	2015/04/26	2015/04/28
47	BH049	40	Sampling	723214.225	3031610.418	2015/04/01	2015/04/02
48	BH050	15	DCPT	723236.293	3031598.671	2015/04/18	2015/04/18
49	BH051	40	G.B	723258.362	3031586.924	2015/04/23	2015/04/25
50	BH052	50	G.B	723280.430	3031575.177	2015/05/06	2015/05/07
51	BH053	20	Sampling	723302.499	3031563.431	2015/03/31	2015/03/31
52	BH054	20	G.B	723324.567	3031551.684	2015/04/25	2015/04/25
53	BH055	15	S.P.T	723346.635	3031539.937	2015/04/15	2015/04/15
54	BH056	10	V.S.T	723368.704	3031528.190	2015/04/20	2015/04/20
55	BH057	22.8	DCPT	723390.772	3031516.444	2015/05/02	2015/05/02
56	BH058	20	Sampling	723412.841	3031504.697	2015/04/05	2015/04/05

TITLE: List of Drilled Boreholes in Phase I

	Project: SOUTH ALUMINUM SMELTER PLANT	FIG. No.: 2
	CLIENT : NFC	PROJ. No. : 1347
SOIL ENGINEERING SERVICES CONSULTING ENGINEERS		

No.	Borehole No.	Depth	Borehole Type	X (UTM)	Y (UTM)	Start Date	End Date
57	BH059	40	Sampling	723434.909	3031492.950	2015/04/04	2015/04/05
58	BH060	25	S.P.T	723456.977	3031481.203	2015/04/15	2015/04/15
59	BH061	40	G.B	723479.046	3031469.456	2015/05/02	2015/05/03
60	BH062	20	Sampling	723501.114	3031457.710	2015/03/31	2015/03/31
61	BH063	20	G.B	723523.182	3031445.963	2015/04/26	2015/04/26
62	BH064	20.5	Sampling	723545.251	3031434.216	2015/04/13	2015/04/13
63	BH066	30	G.B	723590.680	3031410.035	2015/05/05	2015/05/05
64	BH067	25	G.B	722710.559	3031839.133	2015/04/28	2015/04/28
65	BH068	15	G.B	722734.451	3031826.415	2015/05/09	2015/05/09
66	BH069	20.5	Sampling	722756.520	3031814.668	2015/03/30	2015/03/30
67	BH070	20	G.B	722778.588	3031802.922	2015/04/25	2015/04/25
68	BH071	20	G.B	722800.656	3031791.175	2015/04/23	2015/04/23
69	BH072	15	S.P.T	722822.725	3031779.428	2015/04/21	2015/04/21
70	BH073	50	Sampling	722844.793	3031767.681	2015/04/26	2015/04/28
71	BH074	24.2	DCPT	722866.862	3031755.935	2015/05/05	2015/05/05
72	BH075	10	V.S.T	722888.930	3031744.188	2015/04/12	2015/04/12
73	BH076	20	G.B	722910.998	3031732.441	2015/04/24	2013/04/24
74	BH077	15	G.B	722933.067	3031720.694	2015/05/03	2015/05/03
75	BH078	20	Sampling	722955.135	3031708.948	2015/03/31	2015/03/31
76	BH079	20	G.B	722977.203	3031697.201	2015/04/28	2015/04/29
77	BH080	20	G.B	722999.272	3031685.454	2015/04/25	2015/04/25
78	BH081	20.2	DCPT	723021.340	3031673.707	2015/05/03	2015/05/03
79	BH082	20.5	Sampling	723043.409	3031661.960	2015/04/09	2015/04/09
80	BH083	25	S.P.T	723065.477	3031650.214	2015/04/16	2015/04/16
81	BH084	15	G.B	723087.545	3031638.467	2015/05/03	2015/05/04
82	BH085	20	G.B	723109.614	3031626.720	2015/04/23	2015/04/23
83	BH086	20	Sampling	723131.682	3031614.973	2015/04/02	2015/04/02
84	BH087	15	G.B	723153.751	3031603.227	2015/05/09	2015/05/09

TITLE: List of Drilled Boreholes in Phase I

	Project: SOUTH ALUMINUM SMELTER PLANT	FIG. No.: 3
	CLIENT : NFC	PROJ. No. : 1347

SOIL ENGINEERING SERVICES CONSULTING ENGINEERS

No.	Borehole No.	Depth	Borehole Type	X (UTM)	Y (UTM)	Start Date	End Date
85	BH088	15	S.P.T	723175.819	3031591.480	2015/04/17	2015/04/17
86	BH090	20	G.B	723219.956	3031567.986	2015/04/22	2015/04/23
87	BH091	20	S.P.T	723242.024	3031556.240	2015/04/10	2015/04/11
88	BH092	20	S.P.T	723264.093	3031544.493	2015/04/18	2015/04/18
89	BH093	20	G.B	723286.161	3031532.746	2015/04/24	2015/04/24
90	BH094	24	DCPT	723308.229	3031520.999	2015/05/06	2015/05/06
91	BH095	20	Sampling	723330.298	3031509.253	2015/04/02	2015/04/02
92	BH096	50.5	Sampling	723352.366	3031497.506	2015/04/22	2015/04/25
93	BH097	15	DCPT	723374.434	3031485.759	2015/04/19	2015/04/19
94	BH098	40	G.B	723396.503	3031474.012	2015/05/04	2015/05/06
95	BH099	10	V.S.T	723418.571	3031462.266	2015/04/11	2015/04/11
96	BH100	20.5	Sampling	723440.640	3031450.519	2015/04/11	2015/04/11
97	BH102	20	S.P.T	723484.776	3031427.025	2015/04/16	2015/04/16
98	BH103	20	G.B	723506.845	3031415.279	2015/04/26	2015/04/26
99	BH104	20.5	Sampling	723528.913	3031403.532	2015/04/01	2015/04/01
100	BH105	15	DCPT	723550.982	3031391.785	2015/04/20	2015/04/20
101	BH106	20	G.B	723574.342	3031379.350	2015/04/27	2015/04/27
102	BH107	20	Sampling	722689.061	3031798.744	2015/03/29	2015/03/29
103	BH109	50	Sampling	722735.021	3031774.280	2015/04/16	2015/04/19
104	BH110	40	G.B	722757.090	3031762.533	2015/05/03	2015/05/04
105	BH111	20.5	Sampling	722779.158	3031750.786	2015/04/14	2015/04/14
106	BH112	50	Sampling	722801.226	3031739.039	2015/04/29	2015/04/30
107	BH113	20	G.B	722823.295	3031727.293	2015/04/28	2015/04/28
108	BH114	20	Sampling	722845.363	3031715.546	2015/03/30	2015/03/31
109	BH115	23	DCPT	722867.431	3031703.799	2015/05/05	2015/05/05
110	BH116	20	G.B	722889.500	3031692.052	2015/04/25	2015/04/26
111	BH117	50	G.B	722911.568	3031680.306	2015/05/02	2015/05/03
112	BH118	50	G.B	722933.637	3031668.559	2015/04/23	2015/04/27

TITLE: List of Drilled Boreholes in Phase I

	Project: SOUTH ALUMINUM SMELTER PLANT	FIG. No.: 4
	CLIENT : NFC	PROJ. No. : 1347

SOIL ENGINEERING SERVICES CONSULTING ENGINEERS

No.	Borehole No.	Depth	Borehole Type	X (UTM)	Y (UTM)	Start Date	End Date
113	BH119	50	Sampling	722955.705	3031656.812	2015/03/30	2015/04/01
114	BH120	15	DCPT	722977.773	3031645.065	2015/04/16	2015/04/16
115	BH121	15	G.B	722999.842	3031633.319	2015/05/03	2015/05/03
116	BH122	15	S.P.T	723021.910	3031621.572	2015/04/16	2015/04/16
117	BH123	20	G.B	723043.979	3031609.825	2015/04/23	2015/04/23
118	BH124	20	Sampling	723066.047	3031598.078	2015/04/01	2015/04/01
119	BH125	40	G.B	723088.115	3031586.331	2015/05/04	2015/05/05
120	BH126	15	G.B	723110.184	3031574.585	2015/05/01	2015/05/02
121	BH127	10	V.S.T	723132.252	3031562.838	2015/04/11	2015/04/11
122	BH128	15	G.B	723154.320	3031551.091	2015/05/09	2015/05/09
123	BH129	15	G.B	723176.389	3031539.344	2015/05/03	2015/05/03
124	BH130	20.5	Sampling	723198.457	3031527.598	2015/04/13	2015/04/14
125	BH131	27.6	DCPT	723220.526	3031515.851	2015/05/02	2015/05/02
126	BH132	20	G.B	723242.594	3031504.104	2015/04/25	2015/04/26
127	BH133	20	Sampling	723264.662	3031492.357	2015/04/02	2015/04/03
128	BH134	15	G.B	723286.731	3031480.611	2015/05/07	2015/05/08
129	BH135	15	S.P.T	723308.799	3031468.864	2015/04/20	2015/04/20
130	BH136	20.5	Sampling	723330.868	3031457.117	2015/04/19	2015/04/19
131	BH137	15	G.B	723352.936	3031445.370	2015/05/08	5/11/2015
132	BH138	50	G.B	723375.004	3031433.624	2015/05/06	2015/05/08
133	BH139	50.5	Sampling	723397.073	3031421.877	2015/04/02	2015/04/04
134	BH140	15	DCPT	723419.141	3031410.130	2015/04/20	2015/04/20
135	BH141	50	G.B	723441.209	3031398.383	2015/05/04	2015/05/09
136	BH142	20	G.B	723463.278	3031386.637	2015/04/22	2015/04/22
137	BH143	20	Sampling	723485.346	3031374.890	2015/04/01	2015/04/02
138	BH144	22.4	DCPT	723507.415	3031363.143	2015/05/03	2015/05/03
139	BH145	40	G.B	723529.483	3031351.396	2015/04/24	2015/04/27
140	BH146	40	G.B	723552.844	3031338.962	2015/05/05	2015/05/10

TITLE: List of Drilled Boreholes in Phase I

	Project: SOUTH ALUMINUM SMELTER PLANT	FIG. No.: 5
	CLIENT : NFC	PROJ. No. : 1347
SOIL ENGINEERING SERVICES CONSULTING ENGINEERS		

No.	Borehole No.	Depth	Borehole Type	X (UTM)	Y (UTM)	Start Date	End Date
141	BH147	18	DCPT	722672.814	3031768.222	2015/04/23	2015/04/23
142	BH148	20	Sampling	722696.706	3031755.505	2015/03/29	2015/03/29
143	BH149	20	G.B	722718.775	3031743.758	2015/04/28	2015/04/29
144	BH150	23.4	DCPT	722740.843	3031732.011	2015/05/06	2015/05/06
145	BH151	20	Sampling	722762.912	3031720.264	2015/04/04	2015/04/04
146	BH152	15	S.P.T	722784.980	3031708.518	2015/04/19	2015/04/19
147	BH153	20	G.B	722807.048	3031696.771	2015/04/22	2015/04/25
148	BH154	15	G.B	722829.117	3031685.024	2015/05/06	2015/05/06
149	BH155	10	V.S.T	722851.185	3031673.277	2015/04/19	2015/04/19
150	BH156	20	Sampling	722873.253	3031661.531	2015/03/30	2015/03/30
151	BH157	40.5	Sampling	722895.322	3031649.784	2015/04/05	2015/04/05
152	BH158	15	S.P.T	722917.390	3031638.037	2015/04/10	2015/04/10
153	BH159	20	DCPT	722939.459	3031626.290	2015/05/02	2015/05/02
154	BH160	40	G.B	722961.527	3031614.544	2015/04/29	2015/04/30
155	BH161	50	Sampling	722983.595	3031602.797	2015/04/29	2015/04/30
156	BH162	15	G.B	723005.664	3031591.050	2015/05/09	2015/05/09
157	BH163	20	S.P.T	723027.732	3031579.303	2015/04/18	2015/04/19
158	BH164	20	Sampling	723049.801	3031567.557	2015/04/10	2015/04/11
159	BH165	15	G.B	723071.869	3031555.810	2015/05/03	2015/05/03
160	BH166	20	Sampling	723093.937	3031544.063	2015/03/31	2015/04/01
161	BH167	15	G.B	723116.006	3031532.316	2015/05/02	2015/05/02
162	BH168	20	G.B	723138.074	3031520.569	2015/04/26	2015/04/26
163	BH169	20	Sampling	723160.142	3031508.823	2015/04/09	2015/04/10
164	BH170	18	DCPT	723182.211	3031497.076	2015/04/20	2015/04/21
165	BH172	10	V.S.T	723226.348	3031473.582	2015/04/20	2015/04/20
166	BH173	40.5	Sampling	723248.416	3031461.836	2015/04/07	2015/04/07
167	BH174	40	G.B	723270.484	3031450.089	2015/04/26	2015/04/28
168	BH175	20	Sampling	723292.553	3031438.342	2015/04/01	2015/04/01

TITLE: List of Drilled Boreholes in Phase I

	Project: SOUTH ALUMINUM SMELTER PLANT	FIG. No.: 6
	CLIENT : NFC	PROJ. No. : 1347

SOIL ENGINEERING SERVICES CONSULTING ENGINEERS

No.	Borehole No.	Depth	Borehole Type	X (UTM)	Y (UTM)	Start Date	End Date
169	BH176	15	S.P.T	723314.621	3031426.595	2015/04/09	2015/04/09
170	BH177	15	G.B	723336.690	3031414.849	2015/05/02	2015/05/03
171	BH178	15	DCPT	723358.758	3031403.102	2015/04/19	2015/04/19
172	BH180	20.5	Sampling	723402.895	3031379.608	2015/04/06	2015/04/06
173	BH181	20	G.B	723424.963	3031367.862	2015/04/23	2015/04/23
174	BH182	15	DCPT	723447.032	3031356.115	2015/04/19	2015/04/19
175	BH183	15	S.P.T	723469.100	3031344.368	2015/04/17	2015/05/13
176	BH184	20	Sampling	723491.168	3031332.621	2015/04/01	2015/04/01
177	BH185	40	Sampling	723513.237	3031320.875	2015/04/06	2015/04/07
178	BH186	20	Sampling	723536.598	3031308.440	2015/04/09	2015/04/09
179	BH187	15	S.P.T	722762.787	3031790.671	2015/04/06	2015/04/06
180	BH188	20	G.B	722783.878	3031779.445	2015/04/27	2015/04/27
181	BH189	10	V.S.T	722805.232	3031768.078	2015/04/13	2015/04/13
182	BH190	10	V.S.T	722756.644	3031779.131	2015/04/13	2015/04/13
183	BH191	15	G.B	722777.735	3031767.904	2015/05/08	2015/05/08
184	BH192	24	DCPT	722799.089	3031756.538	2015/05/06	2015/05/06
185	BH193	10	V.S.T	723054.794	3031635.175	2015/04/21	2015/04/22
186	BH194	15	G.B	723084.785	3031619.211	2015/05/06	2015/05/06
187	BH196	15	S.P.T	723079.636	3031609.537	2015/04/06	2015/04/06
188	BH197	20	G.B	723162.285	3031724.059	2015/04/22	2015/04/22
189	BH198	20	Sampling	723190.535	3031709.022	2015/04/03	2015/04/03
190	BH199	20	Sampling	723145.377	3031718.897	2015/04/03	2015/04/03
191	BH201	16.2	DCPT	723170.504	3031705.524	2015/04/21	2015/04/21
192	BH202	40.5	Sampling	723184.661	3031697.987	2015/04/20	2015/04/22
193	BH203	25	S.P.T	723195.695	3031692.113	2015/04/19	2015/04/19
194	BH204	24	DCPT	723150.538	3031701.990	2015/05/05	2015/05/05
195	BH205	40	G.B	723178.788	3031686.953	2015/04/29	2015/05/01
196	BH206	25	S.P.T	722705.814	3031815.866	2015/04/19	2015/04/19

TITLE: List of Drilled Boreholes in Phase I

	Project: SOUTH ALUMINUM SMELTER PLANT	FIG. No.: 7
	CLIENT : NFC	PROJ. No. : 1347

SOIL ENGINEERING SERVICES CONSULTING ENGINEERS

No.	Borehole No.	Depth	Borehole Type	X (UTM)	Y (UTM)	Start Date	End Date
197	BH207	10	V.S.T	722721.659	3031807.432	2015/04/13	2015/04/13
198	BH208	15	G.B	722983.313	3031668.109	2015/05/02	2015/05/02
199	BH209	15	G.B	723001.786	3031658.276	2015/05/03	2015/05/03
200	BH210	15	DCPT	723263.528	3031518.979	2015/04/18	2015/04/18
201	BH212	10	V.S.T	723541.878	3031370.841	2015/04/16	2015/04/17
202	BH213	20	S.P.T	723557.768	3031362.382	2015/04/16	2015/04/16
203	BH214	20	G.B	722837.002	3031756.245	2015/04/25	2015/04/25
204	BH215	15	G.B	722853.774	3031747.317	2015/05/07	2015/05/07
205	BH216	25	Sampling	722824.828	3031752.529	2015/04/20	2015/04/20
206	BH217	15	S.P.T	722832.773	3031748.300	2015/04/11	2015/04/12
207	BH218	15	G.B	722841.159	3031743.836	2015/05/07	2015/05/07
208	BH219	15	G.B	722849.545	3031739.372	2015/05/07	2015/05/07
209	BH220	25	Sampling	722857.490	3031735.144	2015/04/20	2015/04/20
210	BH221	20	S.P.T	722875.144	3031725.746	2015/04/21	2015/04/21
211	BH222	25	Sampling	722892.799	3031716.349	2015/04/11	2015/04/12
212	BH223	25	G.B	722910.454	3031706.951	2015/04/28	2015/04/28
213	BH224	15	S.P.T	722935.040	3031694.329	2015/04/11	2015/04/11
214	BH225	40	G.B	722828.544	3031740.355	2015/05/07	2015/05/09
215	BH226	20	G.B	722845.316	3031731.428	2015/04/25	2015/04/26
216	BH227	15	G.B	722929.923	3031690.858	2015/05/03	2015/05/03
217	BH228	15	G.B	722934.914	3031688.102	2015/05/03	2015/05/03
218	BH229	15	G.B	723117.281	3031607.080	2015/05/09	2015/05/09
219	BH230	15	G.B	723134.053	3031598.153	2015/05/09	2015/05/09
220	BH231	15	G.B	723105.107	3031603.364	2015/05/09	2015/05/09
221	BH232	15	S.P.T	723113.052	3031599.136	2015/04/21	2015/04/21
222	BH233	15	G.B	723121.438	3031594.672	2015/05/03	2015/05/04
223	BH234	25	Sampling	723129.824	3031590.208	2015/04/18	2015/04/18
224	BH235	40	G.B	723137.768	3031585.979	2015/05/05	2015/05/06

TITLE: List of Drilled Boreholes in Phase I

	Project: SOUTH ALUMINUM SMELTER PLANT	FIG. No.: 8
	CLIENT : NFC	PROJ. No. : 1347

SOIL ENGINEERING SERVICES CONSULTING ENGINEERS

No.	Borehole No.	Depth	Borehole Type	X (UTM)	Y (UTM)	Start Date	End Date
225	BH236	15	DCPT	723155.423	3031576.582	2015/04/17	2015/04/17
226	BH237	25	Sampling	723173.078	3031567.184	2015/04/21	2015/04/22
227	BH238	25	G.B	723190.733	3031557.787	2015/04/22	2015/04/22
228	BH239	15	S.P.T	723215.324	3031545.183	2015/04/19	2015/04/19
229	BH240	15	G.B	723108.823	3031591.191	2015/05/09	2015/05/09
230	BH241	15	G.B	723125.595	3031582.263	2015/05/09	2015/05/09
231	BH242	15	G.B	723210.202	3031541.694	2015/05/09	2015/05/09
232	BH243	25	Sampling	723215.193	3031538.937	2015/04/19	2015/04/19
233	BH244	15	G.B	723395.264	3031459.137	2015/05/02	2015/05/02
234	BH245	15	G.B	723412.036	3031450.210	2015/05/02	2015/05/02
235	BH246	15	G.B	723383.091	3031455.422	2015/05/01	2015/05/02
236	BH247	15	S.P.T	723391.036	3031451.193	2015/04/21	2013/04/22
237	BH248	15	G.B	723399.421	3031446.729	2015/05/04	2015/05/04
238	BH249	25	Sampling	723407.807	3031442.265	2015/04/19	2015/04/19
239	BH250	21.6	DCPT	723415.752	3031438.036	2015/05/02	2015/05/02
240	BH251	25	Sampling	723433.407	3031428.639	2015/04/18	2015/04/18
241	BH252	15	S.P.T	723451.061	3031419.242	2015/04/21	2015/04/21
242	BH253	15	G.B	723468.716	3031409.844	2015/05/03	2015/05/03
243	BH254	25	Sampling	723493.308	3031397.240	2015/04/18	2015/04/18
244	BH255	40	G.B	723386.807	3031443.248	2015/05/07	2015/05/08
245	BH256	50	Sampling	723403.579	3031434.321	2015/04/29	2015/05/02
246	BH257	15	S.P.T	723488.186	3031393.751	2015/04/21	2015/04/21
247	BH258	15	G.B	723493.177	3031390.995	2015/05/04	2015/05/04
248	BH259	10	V.S.T	722904.286	3031860.412	2015/04/12	2015/04/12
249	BH261	15	S.P.T	722957.250	3031832.220	2015/04/21	2015/04/21
250	BH262	25	Sampling	722983.732	3031818.124	2015/04/21	2015/04/21
251	BH263	10	V.S.T	723010.214	3031804.028	2015/04/12	2015/04/12
252	BH264	15	G.B	723036.696	3031789.932	2015/05/02	2015/05/02

TITLE: List of Drilled Boreholes in Phase I

	Project: SOUTH ALUMINUM SMELTER PLANT	FIG. No.: 9
	CLIENT : NFC	PROJ. No. : 1347
SOIL ENGINEERING SERVICES CONSULTING ENGINEERS		

No.	Borehole No.	Depth	Borehole Type	X (UTM)	Y (UTM)	Start Date	End Date
253	BH265	15	G.B	723063.178	3031775.836	2015/05/02	2015/05/02
254	BH266	15	S.P.T	723089.660	3031761.740	2015/04/20	2015/04/20
255	BH267	25	Sampling	723116.143	3031747.643	2015/04/20	2015/04/20
256	BH268	25	G.B	722887.594	3031829.054	2015/04/23	2015/04/23
257	BH269	25	Sampling	722914.076	3031814.958	2015/04/22	2015/04/22
258	BH270	40	G.B	722940.558	3031800.862	2015/05/06	2015/05/07
259	BH271	15	S.P.T	722967.041	3031786.766	2015/04/11	2015/04/11
260	BH272	19	DCPT	722993.523	3031772.669	2015/04/24	2015/04/26
261	BH273	25	Sampling	723020.005	3031758.573	2015/03/30	2015/03/30
262	BH274	25	G.B	723046.487	3031744.477	2015/04/29	2015/04/29
263	BH275	24.6	DCPT	723072.969	3031730.381	2015/05/05	2015/05/05
264	BH276	10	V.S.T	723099.451	3031716.285	2015/04/11	2015/04/11
265	BH277	20.5	Sampling	724078.652	3031005.835	2015/04/11	2015/04/12
266	BH278	15	S.P.T	724065.493	3030994.792	2015/04/15	2015/04/16
267	BH279	40	Sampling	724043.425	3031006.539	2015/04/16	2015/04/17
268	BH280	15	G.B	724021.356	3031018.285	2015/05/03	2015/05/03
269	BH281	15	S.P.T	723999.288	3031030.032	2015/04/15	2015/04/15
270	BH282	20.5	Sampling	723977.220	3031041.779	2015/04/08	2015/04/08
271	BH283	19.8	DCPT	723952.580	3031054.920	2015/05/03	2015/05/03
272	BH284	40.5	Sampling	724052.419	3030970.229	2015/04/18	2015/04/19
273	BH285	20	DCPT	724030.351	3030981.976	2015/04/23	2015/04/23
274	BH286	50	Sampling	724008.282	3030993.723	2015/04/12	2015/04/14
275	BH287	25.5	S.P.T	723986.214	3031005.470	2015/04/15	2015/04/15
276	BH288	40.5	Sampling	723964.145	3031017.216	2015/04/09	2015/04/10
277	BH289	50	G.B	723939.505	3031030.358	2015/05/04	2015/05/05
278	BH290	20	G.B	723840.520	3031287.752	2015/04/30	2015/04/30
279	BH291	15	S.P.T	723862.589	3031276.005	2015/04/08	2015/04/08
280	BH292	15	G.B	723884.657	3031264.258	2015/05/07	2015/05/07

TITLE: List of Drilled Boreholes in Phase I

	Project: SOUTH ALUMINUM SMELTER PLANT	FIG. No.: 10
	CLIENT : NFC	PROJ. No. : 1347
SOIL ENGINEERING SERVICES CONSULTING ENGINEERS		

No.	Borehole No.	Depth	Borehole Type	X (UTM)	Y (UTM)	Start Date	End Date
281	BH293	20	G.B	723980.118	3031193.584	2015/05/06	2015/05/06
282	BH294	15	G.B	723970.251	3031175.046	2015/05/06	2015/05/06
283	BH295	10	V.S.T	723960.383	3031156.509	2015/04/09	2015/04/09
284	BH297	20	G.B	723938.680	3031115.735	2015/04/28	2015/04/28
285	BH298	20.5	Sampling	723926.933	3031093.666	2015/04/07	2015/04/08
286	BH299	20	G.B	723916.514	3031074.092	2015/04/29	2015/04/29
287	BH300	15	S.P.T	723903.439	3031049.529	2015/04/17	2015/04/17
288	BH301	10	V.S.T	723888.236	3031020.967	2015/04/10	2015/04/10
289	BH302	22.4	DCPT	723877.319	3031000.458	2015/05/04	2015/05/04
290	BH303	20	G.B	723863.861	3030975.174	2015/04/25	2015/04/25
291	BH304	10	V.S.T	724016.184	3031174.412	2015/04/09	2015/04/09
292	BH305	15	G.B	724006.317	3031155.874	2015/05/05	2015/05/05
293	BH307	40.5	G.B	723986.492	3031118.631	2015/05/10	2015/05/12
294	BH308	10	V.S.T	723974.746	3031096.563	2015/04/09	2015/04/09
295	BH309	50	G.B	723962.999	3031074.494	2015/04/29	2015/05/03
296	BH310	20	G.B	723924.302	3031001.795	2015/05/07	2015/05/08
297	BH311	15	G.B	723948.942	3030988.654	2015/05/02	2015/05/02
298	BH312	50.5	G.B	723971.010	3030976.907	2015/05/10	2015/05/12
299	BH313	10	V.S.T	723993.079	3030965.160	2015/04/14	2015/04/14
300	BH315	20	G.B	724037.215	3030941.667	2015/05/16	2015/05/09
301	BH316	15	G.B	724059.284	3030929.920	2015/05/01	2015/05/01
302	BH317	50	Sampling	724081.352	3030918.173	2015/05/01	2015/05/02
303	BH318	22.6	DCPT	724103.421	3030906.427	2015/05/04	2015/05/04
304	BH319	20	G.B	724125.489	3030894.680	2015/05/02	2015/05/02
305	BH320	20.5	Sampling	724147.557	3030882.933	2015/04/11	2015/04/11
306	BH322	20.5	Sampling	723899.927	3030956.003	2015/04/10	2015/04/11
307	BH323	20	G.B	723928.113	3030949.524	2015/05/16	2015/05/16
308	BH324	20	DCPT	723950.182	3030937.777	2015/04/23	2015/04/23

TITLE: List of Drilled Boreholes in Phase I

	Project: SOUTH ALUMINUM SMELTER PLANT	FIG. No.: 11
	CLIENT : NFC	PROJ. No. : 1347
SOIL ENGINEERING SERVICES CONSULTING ENGINEERS		

No.	Borehole No.	Depth	Borehole Type	X (UTM)	Y (UTM)	Start Date	End Date
309	BH325	20	G.B	723972.250	3030926.030	2015/05/07	2015/05/08
310	BH326	15	G.B	723994.319	3030914.283	2015/05/01	2015/05/01
311	BH327	40	G.B	724016.387	3030902.537	2015/04/29	2015/04/30
312	BH329	40.5	Sampling	724060.524	3030879.043	2015/04/12	2015/04/13
313	BH330	20	S.P.T	724082.592	3030867.296	2015/04/15	2015/04/15
314	BH331	40	G.B	724104.660	3030855.550	2015/05/02	2015/05/04
315	BH332	10	V.S.T	724126.729	3030843.803	2015/04/14	2015/04/14
316	BH333	15	G.B	724148.797	3030832.056	2015/05/09	2015/05/10
317	BH334	20	G.B	723712.251	3031328.821	2015/04/29	2015/04/30
318	BH335	50.5	G.B	723734.319	3031317.074	2015/05/10	2015/05/11
319	BH336	15	DCPT	723756.387	3031305.328	2015/04/24	2015/04/24
320	BH337	50.5	Sampling	723778.456	3031293.581	2015/04/08	2015/04/09
321	BH338	50	G.B	723800.524	3031281.834	2015/04/28	2015/04/30
322	BH339	20	S.P.T	723822.593	3031270.087	2015/04/15	2015/04/16
323	BH342	15	G.B	723888.798	3031234.847	2015/05/06	2015/05/06
324	BH343	20.5	Sampling	723910.866	3031223.100	2015/04/08	2015/04/08
325	BH344	20	G.B	723932.934	3031211.353	2015/05/06	2015/05/06
326	BH345	21.2	DCPT	723955.003	3031199.607	2015/05/03	2015/05/03
327	BH346	18.2	DCPT	723686.500	3031280.445	2015/04/26	2015/04/26
328	BH347	10	V.S.T	723708.569	3031268.698	2015/04/08	2015/04/08
329	BH348	15	S.P.T	723730.637	3031256.951	2015/04/16	2015/04/17
330	BH349	20	G.B	723752.706	3031245.204	2015/04/28	2015/04/28
331	BH350	10	V.S.T	723769.186	3031222.959	2015/04/08	2015/04/08
332	BH351	15	G.B	723791.254	3031211.212	2015/05/03	2015/05/03
333	BH352	20	G.B	723813.322	3031199.466	2015/05/04	2015/05/05
334	BH353	30	G.B	723835.391	3031187.719	2015/05/05	2015/05/06
335	BH354	20	Sampling	723863.047	3031186.471	2015/04/07	2015/04/08
336	BH355	20	G.B	723882.385	3031169.593	2015/04/27	2015/04/27

TITLE: List of Drilled Boreholes in Phase I

	Project: SOUTH ALUMINUM SMELTER PLANT	FIG. No.: 12
	CLIENT : NFC	PROJ. No. : 1347
SOIL ENGINEERING SERVICES CONSULTING ENGINEERS		

