

1 INTRODUCTION

1.1 Management Information:

The Forest of Kpo-Gblen is owned by the people of Kpo-Gblen community located in Grand Bassa County, Republic of Liberia.

The forest has a total of 8,833 hectares that will be managed by the Community Forest Management Body of the Kpo-Gblen community forest. However, in order to be able to manage this forest, the KGCFMB **has developed a Community Forest Management Plan in line with one of the basic requirements for timber harvesting as contained in the Liberia Code of Forest Harvesting Practices and the Community Forestry Rights Law and its implementing regulation (§3.2(b))**

In as much as we resolve to utilize our forest resources, we intent to do so by entering into contract with the Liberia Government through the Forestry Development Authority, hereinafter referred to as the Authority.

1.2 Mission Statement:

The Community Forest Management Body of Kpo-Gblen will:

- Promote a sustainable and productive community forest by engaging in commercial forestry activities as a mean of job creation and infrastructural development.
- Ensure sound environmental practices while carrying out sustainable harvesting of forest resources

1.3 Objectives

The most important intention of this plan is to administer the Kpo-Gblen Community Forest (KGCF) and its surrounding landscapes so that these ecosystems continue to provide products and services for the present and future generations.

Specific objectives are as follows:

- Delineate the boundaries of Community Forest, zone its forest types, and define management action(s) for each zone;
- Assess and inventory the non-timber and timber resources of the Community Forest;
- Engage in logging activities;
- Develop and support small and medium forest enterprises by building the capacity of community members to improve harvesting, processing, and marketing of forest products;
- Monitor the impact that community management has on the biodiversity of the Forest.

1.3.1 Effective Date of the Plan & Duration

The duration of this plan is fifteen (15) years, beginning after approval by the KGCFMB and the FDA. The plan will be reviewed and revised if necessary, after 5 years.

1.3.2 Partners to the plan

This plan is the product of a series of consultative work carried out by a number of Community Forest Management Bodies (CFMBs); the Forestry Development Authority (FDA); and selected representatives of resource user groups in the community.

2 GENERAL OVERVIEW OF INSTITUTIONAL AND LEGAL FRAMEWORKS

2.1 Institutional framework

This section of the manage plan outlines the relevant local and national institutions and their roles and responsibilities with respect to community forestry and the development of the management plan.

2.1.1 Forest Development Authority

The FDA has jurisdiction over community forestry management in Liberia. The FDA gives official recognition to the demarcation of community forest boundaries, may recognize and terminate an Authorized Forest Community, and coordinates with other government institutions and relevant parties on the implementation of community forestry programs.

Consistent with the FDA Community Rights Law regulations, the FDA has the following roles and duties:

- Monitor and evaluate Community Forestry Management Programs;
- Facilitate the resolution of conflicts upon request by an Authorized Forest Community;
- Assist in building the capacity of Authorized Forest Communities in sustainable community forest management;
- Assist in securing financial and technical assistance for forest communities in support of their community forest management programs.

In addition, it should be noted that the FDA has the authority to revoke the authorized status of a community engaged in community forestry if:

- Forest resources are being seriously damaged,
- the CFMB is not complying with provisions of the Community Rights Law, its Regulations,
- or the community forestry program is being implemented in serious breach of the Agreement, Policy, or the Management plan between the Community and the Authority.

2.1.2. Community Forest Management Body

The Community Forest Management Body (CFMB) represents the interests of our communities; and so the CFMB is the legitimate body that has the authority to enter into a Forest Management Agreement with the FDA following the provision of information regarding the community, its management intent, the demarcation of the Forest, an inventory of its resources. The Management Agreement was signed on February 21-22, 2017 and grants obligations and rights to the community for 15 years. Among those rights and obligations include the obligation to:

- operate in accordance with the terms and conditions in this Community Forest Management Agreement, community forestry rules and other relevant legislations and regulations;
- develop and implement community forest management plans under guidelines and specifications issued by the FDA for the Kpo-Gblen Forest;
- prepare and implement community forestry rules/guidelines for the Forest;
- conduct awareness raising activities in the community; and
- represent the community in all matters and negotiations related to the Kpo-Gblen Community Forest

3.0 Kpo-Gblen Forest Community

3.1. Demographics

The current population of the Kpo- Gblen community is 2,532, consisting of 1509 females and 1023 males. The District has 18 towns and villages. The major ethnic groups are Bassa, Kpelleh, Gio and Mano.

The Kpo-Gblen community is located in Grand Bassa, County District # 4, the main livelihood activities related to forests and land use include farming (shifting cultivation), hunting, fishing, artisanal mining, and collection of NTFP.

3.1.2. Description of surrounding landscape and its management

Upland rice farming relies on shifting cultivation. By contrast, growing swamp rice is more productive and does not require shifting practices. In most communities there are suitable areas for swamp rice farming and this type of farming has a strong potential to undercut shifting cultivation. However, upland rice farming is more popular than swamp rice production, in large part due to insecure tenure in rural areas and the higher labor demands of cultivating swamp rice. Lack of knowledge about swamp rice cultivation techniques also hampers expanding use.

Animal husbandry is often an integral part of farming. Many families in the communities have animals but these are not properly managed. For example, animals are not housed or fed; they simply roam freely. Before the war, many households raised several species of animals for home consumption and for generating income.

4.0. General Description of the Community Forest

4.1. Area and Location

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Commencing at:

Latitude - 686415.991	Longitude - 441611.5606	. thence a line runs at bearing	222.35083	for	49.03	meters, to a point
Latitude - 686452.2251	Longitude - 441644.5899	. thence a line runs at bearing	225.18593	for	48.96	meters, to a point
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Latitude - 687408.6598	Longitude - 442489.4728	thence a line runs at bearing	182.43871	for	50.64	meters, to a point
Latitude - 687459.25	Longitude - 442491.6274	thence a line runs at bearing	173.2874	for	50.35	meters, to a point
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Latitude - 689153.2338	Longitude - 443899.067	. thence a line runs at bearing	176.41273	for	49.04	meters, to a point
Latitude - 689202.1797	Longitude - 443895.9985	. thence a line runs at bearing	180.39625	for	48.30	meters, to a point
Latitude - 689250.4737	Longitude - 443896.3325	. thence a line runs at bearing	200.64113	for	48.23	meters, to a point
Latitude - 689295.6105	Longitude - 443913.3353	. thence a line runs at bearing	219.64426	for	50.69	meters, to a point
Latitude - 689334.6448	Longitude - 443945.6781	. thence a line runs at bearing	212.4156	for	48.96	meters, to a point
Latitude - 689375.9737	Longitude - 443971.922	. thence a line runs at bearing	219.52582	for	44.12	meters, to a point
Latitude - 689410.0085	Longitude - 444000.9039	. thence a line runs at bearing	181.54275	for	8.21	meters, to a point
Latitude - 689418.2179	Longitude - 444000.225	. thence a line runs at bearing	96.45317	for	48.98	meters, to a point
Latitude - 689423.7224	Longitude - 443951.559	. thence a line runs at bearing	81.620527	for	49.65	meters, to a point
Latitude - 689416.4865	Longitude - 443902.4358	. thence a line runs at bearing	101.3205	for	50.94	meters, to a point
Latitude - 689426.4862	Longitude - 443852.4852	. thence a line runs at bearing	137.20229	for	48.88	meters, to a point
Latitude - 689462.3498	Longitude - 443819.2778	. thence a line runs at bearing	157.76426	for	50.60	meters, to a point
Latitude - 689509.1892	Longitude - 443800.1289	. thence a line runs at bearing	184.29194	for	49.58	meters, to a point
Latitude - 689558.629	Longitude - 443803.8393	. thence a line runs at bearing	206.56621	for	50.85	meters, to a point
Latitude - 689604.1123	Longitude - 443826.5821	. thence a line runs at bearing	196.10446	for	50.04	meters, to a point
Latitude - 689652.1894	Longitude - 443840.4629	. thence a line runs at bearing	203.76008	for	49.33	meters, to a point
Latitude - 689697.342	Longitude - 443860.34	. thence a line runs at bearing	215.01813	for	52.85	meters, to a point
Latitude - 689740.622	Longitude - 443890.6654	. thence a line runs at bearing	187.64508	for	49.28	meters, to a point
Latitude - 689789.466	Longitude - 443897.2217	. thence a line runs at bearing	203.77062	for	49.84	meters, to a point
Latitude - 689835.0815	Longitude - 443917.3126	. thence a line runs at bearing	197.01876	for	51.20	meters, to a point
Latitude - 689884.0379	Longitude - 443932.2976	. thence a line runs at bearing	209.86772	for	52.00	meters, to a point
Latitude - 689929.1291	Longitude - 443958.1924	. thence a line runs at bearing	231.8465	for	52.42	meters, to a point
Latitude - 689961.5112	Longitude - 443999.4115	. thence a line runs at bearing	257.86937	for	50.22	meters, to a point
Latitude - 689972.0644	Longitude - 444048.5097	. thence a line runs at bearing	258.50763	for	19.95	meters, to a point
Latitude - 689976.0392	Longitude - 444068.0598	. thence a line runs at bearing	327.76087	for	40.94	meters, to a point
Latitude - 689941.4097	Longitude - 444089.9002	. thence a line runs at bearing	331.48453	for	48.61	meters, to a point
Latitude - 689898.6991	Longitude - 444113.1051	. thence a line runs at bearing	344.47062	for	50.08	meters, to a point
Latitude - 689850.4475	Longitude - 444126.5131	. thence a line runs at bearing	335.90999	for	52.77	meters, to a point
Latitude - 689802.2717	Longitude - 444148.0531	. thence a line runs at bearing	316.93323	for	51.25	meters, to a point
Latitude - 689764.8313	Longitude - 444183.0485	. thence a line runs at bearing	322.38983	for	48.33	meters, to a point
Latitude - 689726.5439	Longitude - 444212.5446	. thence a line runs at bearing	324.79526	for	50.72	meters, to a point
Latitude - 689685.097	Longitude - 444241.7873	. thence a line runs at bearing	316.00143	for	49.73	meters, to a point
Latitude - 689649.3251	Longitude - 444276.3301	. thence a line runs at bearing	303.64336	for	49.71	meters, to a point
Latitude - 689621.7842	Longitude - 444317.7145	. thence a line runs at bearing	307.50891	for	49.64	meters, to a point

Latitude - 689591.5579	Longitude - 444357.0935	. thence a line runs at bearing	294.23897	for	50.32	meters, to a point
Latitude - 689570.8974	Longitude - 444402.9817	. thence a line runs at bearing	289.02618	for	51.42	meters, to a point
Latitude - 689554.1352	Longitude - 444451.5905	. thence a line runs at bearing	284.87703	for	49.51	meters, to a point
Latitude - 689541.4232	Longitude - 444499.4429	. thence a line runs at bearing	304.14224	for	50.61	meters, to a point
Latitude - 689513.0202	Longitude - 444541.3274	. thence a line runs at bearing	308.46204	for	50.62	meters, to a point
Latitude - 689481.5338	Longitude - 444580.9651	. thence a line runs at bearing	298.41193	for	54.37	meters, to a point
Latitude - 689455.664	Longitude - 444628.7865	. thence a line runs at bearing	300.12011	for	51.62	meters, to a point
Latitude - 689429.7603	Longitude - 444673.4366	. thence a line runs at bearing	291.24067	for	49.53	meters, to a point
Latitude - 689411.8147	Longitude - 444719.6059	. thence a line runs at bearing	283.17743	for	51.87	meters, to a point
Latitude - 689399.9898	Longitude - 444770.1111	. thence a line runs at bearing	253.40516	for	49.42	meters, to a point
Latitude - 689414.1034	Longitude - 444817.4698	. thence a line runs at bearing	244.79713	for	50.36	meters, to a point
Latitude - 689435.5482	Longitude - 444863.0364	. thence a line runs at bearing	248.00601	for	48.43	meters, to a point
Latitude - 689453.6856	Longitude - 444907.9416	. thence a line runs at bearing	242.82757	for	48.36	meters, to a point
Latitude - 689475.7721	Longitude - 444950.9682	. thence a line runs at bearing	228.30234	for	52.38	meters, to a point
Latitude - 689510.6123	Longitude - 444990.0752	. thence a line runs at bearing	242.23278	for	50.59	meters, to a point
Latitude - 689534.1798	Longitude - 445034.837	. thence a line runs at bearing	206.94616	for	52.71	meters, to a point
Latitude - 689581.1635	Longitude - 445058.7208	. thence a line runs at bearing	213.86899	for	48.37	meters, to a point
Latitude - 689621.3246	Longitude - 445085.6764	. thence a line runs at bearing	190.96116	for	49.00	meters, to a point
Latitude - 689669.4341	Longitude - 445094.9941	. thence a line runs at bearing	160.38899	for	48.83	meters, to a point
Latitude - 689715.4273	Longitude - 445078.6067	. thence a line runs at bearing	120.93077	for	49.92	meters, to a point
Latitude - 689741.088	Longitude - 445035.783	. thence a line runs at bearing	108.39265	for	49.77	meters, to a point
Latitude - 689756.792	Longitude - 444988.5548	. thence a line runs at bearing	118.98827	for	50.29	meters, to a point
Latitude - 689781.166	Longitude - 444944.5617	. thence a line runs at bearing	141.43011	for	49.56	meters, to a point
Latitude - 689819.992	Longitude - 444913.6007	. thence a line runs at bearing	128.23633	for	49.06	meters, to a point
Latitude - 689850.3558	Longitude - 444875.0655	. thence a line runs at bearing	142.52249	for	49.09	meters, to a point
Latitude - 689889.3105	Longitude - 444845.1988	. thence a line runs at bearing	126.42862	for	49.93	meters, to a point
Latitude - 689918.9626	Longitude - 444805.0217	. thence a line runs at bearing	130.03375	for	49.55	meters, to a point
Latitude - 689950.8364	Longitude - 444767.0814	. thence a line runs at bearing	126.02896	for	49.58	meters, to a point
Latitude - 689979.9973	Longitude - 444726.9875	. thence a line runs at bearing	119.36132	for	50.39	meters, to a point
Latitude - 690004.705	Longitude - 444683.0691	. thence a line runs at bearing	111.11928	for	48.70	meters, to a point
Latitude - 690022.2515	Longitude - 444637.6418	. thence a line runs at bearing	95.003531	for	49.09	meters, to a point
Latitude - 690026.5326	Longitude - 444588.7433	. thence a line runs at bearing	100.11057	for	50.47	meters, to a point
Latitude - 690035.3918	Longitude - 444539.0611	. thence a line runs at bearing	98.821128	for	49.00	meters, to a point
Latitude - 690042.9063	Longitude - 444490.6385	. thence a line runs at bearing	100.50077	for	50.59	meters, to a point
Latitude - 690052.127	Longitude - 444440.8918	. thence a line runs at bearing	140.18195	for	48.51	meters, to a point

Latitude - 690089.3873	Longitude - 444409.8278	, thence a line runs at bearing	164.7275	for	50.37	meters, to a point
Latitude - 690137.9815	Longitude - 444396.559	, thence a line runs at bearing	192.95098	for	49.90	meters, to a point
Latitude - 690186.608	Longitude - 444407.7415	, thence a line runs at bearing	198.97373	for	50.50	meters, to a point
Latitude - 690234.3677	Longitude - 444424.162	, thence a line runs at bearing	193.45002	for	49.75	meters, to a point
Latitude - 690282.7528	Longitude - 444435.7336	, thence a line runs at bearing	216.45548	for	48.77	meters, to a point
Latitude - 690321.976	Longitude - 444464.7101	, thence a line runs at bearing	252.21132	for	48.35	meters, to a point
Latitude - 690336.7484	Longitude - 444510.752	, thence a line runs at bearing	246.14613	for	50.55	meters, to a point
Latitude - 690357.1914	Longitude - 444556.9847	, thence a line runs at bearing	236.24218	for	57.70	meters, to a point
Latitude - 690389.2524	Longitude - 444604.9532	, thence a line runs at bearing	240.30906	for	53.00	meters, to a point
Latitude - 690415.5055	Longitude - 444650.9967	, thence a line runs at bearing	247.58612	for	49.85	meters, to a point
Latitude - 690434.5126	Longitude - 444697.0797	, thence a line runs at bearing	236.08646	for	50.78	meters, to a point
Latitude - 690462.8451	Longitude - 444739.2214	, thence a line runs at bearing	239.28451	for	50.51	meters, to a point
Latitude - 690488.6467	Longitude - 444782.6495	, thence a line runs at bearing	235.52821	for	47.93	meters, to a point
Latitude - 690515.777	Longitude - 444822.166	, thence a line runs at bearing	243.65602	for	51.81	meters, to a point
Latitude - 690538.7683	Longitude - 444868.5956	, thence a line runs at bearing	253.53647	for	50.32	meters, to a point
Latitude - 690553.0293	Longitude - 444916.8527	, thence a line runs at bearing	287.32922	for	52.36	meters, to a point
Latitude - 690537.4338	Longitude - 444966.8343	, thence a line runs at bearing	275.03888	for	51.29	meters, to a point
Latitude - 690532.9286	Longitude - 445017.9296	, thence a line runs at bearing	267.89259	for	53.07	meters, to a point
Latitude - 690534.88	Longitude - 445070.9597	, thence a line runs at bearing	264.35865	for	51.07	meters, to a point
Latitude - 690539.9006	Longitude - 445121.786	, thence a line runs at bearing	280.04567	for	50.68	meters, to a point
Latitude - 690531.0601	Longitude - 445171.6903	, thence a line runs at bearing	298.79005	for	49.20	meters, to a point
Latitude - 690507.3635	Longitude - 445214.812	, thence a line runs at bearing	304.53246	for	49.48	meters, to a point
Latitude - 690479.3142	Longitude - 445255.5745	, thence a line runs at bearing	305.97944	for	51.18	meters, to a point
Latitude - 690449.2443	Longitude - 445296.9934	, thence a line runs at bearing	306.29554	for	51.60	meters, to a point
Latitude - 690418.7017	Longitude - 445338.5789	, thence a line runs at bearing	314.46375	for	50.04	meters, to a point
Latitude - 690383.6521	Longitude - 445374.2908	, thence a line runs at bearing	311.67821	for	50.50	meters, to a point
Latitude - 690350.074	Longitude - 445412.0069	, thence a line runs at bearing	318.08883	for	47.23	meters, to a point
Latitude - 690314.9263	Longitude - 445443.5555	, thence a line runs at bearing	327.39529	for	45.74	meters, to a point
Latitude - 690276.394	Longitude - 445468.2024	, thence a line runs at bearing	333.80439	for	48.01	meters, to a point
Latitude - 690233.3152	Longitude - 445489.3957	, thence a line runs at bearing	333.26399	for	51.18	meters, to a point
Latitude - 690187.6031	Longitude - 445512.4225	, thence a line runs at bearing	315.08823	for	48.17	meters, to a point
Latitude - 690153.4912	Longitude - 445546.4295	, thence a line runs at bearing	302.49541	for	49.45	meters, to a point
Latitude - 690126.9237	Longitude - 445588.1395	, thence a line runs at bearing	298.00822	for	52.38	meters, to a point
Latitude - 690102.3257	Longitude - 445634.3856	, thence a line runs at bearing	283.18604	for	49.39	meters, to a point
Latitude - 690091.0598	Longitude - 445682.4707	, thence a line runs at bearing	287.96211	for	48.63	meters, to a point

Latitude - 690076.0614	Longitude - 445728.7351	, thence a line runs at bearing	289.35246	for	51.56	meters, to a point
Latitude - 690058.976	Longitude - 445777.3805	, thence a line runs at bearing	288.29315	for	50.44	meters, to a point
Latitude - 690043.1424	Longitude - 445825.2761	, thence a line runs at bearing	297.84484	for	50.08	meters, to a point
Latitude - 690019.751	Longitude - 445869.5578	, thence a line runs at bearing	315.17763	for	52.09	meters, to a point
Latitude - 689982.8013	Longitude - 445906.2791	, thence a line runs at bearing	317.80058	for	50.20	meters, to a point
Latitude - 689945.9098	Longitude - 445940.3209	, thence a line runs at bearing	315.53591	for	49.33	meters, to a point
Latitude - 689910.704	Longitude - 445974.8742	, thence a line runs at bearing	323.28098	for	49.98	meters, to a point
Latitude - 689870.6381	Longitude - 446004.7591	, thence a line runs at bearing	330.23574	for	52.44	meters, to a point
Latitude - 689825.1182	Longitude - 446030.7909	, thence a line runs at bearing	317.7468	for	47.90	meters, to a point
Latitude - 689789.6647	Longitude - 446062.9982	, thence a line runs at bearing	329.34218	for	50.84	meters, to a point
Latitude - 689745.9331	Longitude - 446088.9206	, thence a line runs at bearing	321.82754	for	50.64	meters, to a point
Latitude - 689706.1254	Longitude - 446120.2152	, thence a line runs at bearing	311.98818	for	50.59	meters, to a point
Latitude - 689672.2793	Longitude - 446157.8207	, thence a line runs at bearing	328.39075	for	51.12	meters, to a point
Latitude - 689628.7417	Longitude - 446184.6149	, thence a line runs at bearing	321.26277	for	56.90	meters, to a point
Latitude - 689584.3619	Longitude - 446220.2172	, thence a line runs at bearing	333.65138	for	48.94	meters, to a point
Latitude - 689540.5047	Longitude - 446241.9391	, thence a line runs at bearing	352.49159	for	49.05	meters, to a point
Latitude - 689491.8802	Longitude - 446248.3479	, thence a line runs at bearing	339.74204	for	48.32	meters, to a point
Latitude - 689446.545	Longitude - 446265.0801	, thence a line runs at bearing	342.45084	for	48.51	meters, to a point
Latitude - 689400.2944	Longitude - 446279.7065	, thence a line runs at bearing	339.07876	for	51.01	meters, to a point
Latitude - 689352.6507	Longitude - 446297.9201	, thence a line runs at bearing	332.6141	for	49.04	meters, to a point
Latitude - 689309.1078	Longitude - 446320.477	, thence a line runs at bearing	349.63801	for	52.73	meters, to a point
Latitude - 689257.2376	Longitude - 446329.9614	, thence a line runs at bearing	338.4343	for	61.59	meters, to a point
Latitude - 689199.9624	Longitude - 446352.5986	, thence a line runs at bearing	318.68076	for	49.96	meters, to a point
Latitude - 689162.442	Longitude - 446385.5834	, thence a line runs at bearing	302.36984	for	52.86	meters, to a point
Latitude - 689134.1399	Longitude - 446430.2323	, thence a line runs at bearing	291.20657	for	50.43	meters, to a point
Latitude - 689115.8984	Longitude - 446477.2457	, thence a line runs at bearing	300.18495	for	51.72	meters, to a point
Latitude - 689089.8942	Longitude - 446521.9524	, thence a line runs at bearing	294.60484	for	51.87	meters, to a point
Latitude - 689068.2984	Longitude - 446569.1112	, thence a line runs at bearing	292.50879	for	50.70	meters, to a point
Latitude - 689048.8898	Longitude - 446615.9474	, thence a line runs at bearing	289.66798	for	49.27	meters, to a point
Latitude - 689032.3077	Longitude - 446662.3411	, thence a line runs at bearing	281.65307	for	48.47	meters, to a point
Latitude - 689022.5165	Longitude - 446709.8168	, thence a line runs at bearing	243.28197	for	49.31	meters, to a point
Latitude - 689044.6867	Longitude - 446753.8628	, thence a line runs at bearing	237.62199	for	50.56	meters, to a point
Latitude - 689071.76	Longitude - 446796.5597	, thence a line runs at bearing	229.32954	for	49.71	meters, to a point
Latitude - 689104.1564	Longitude - 446834.2633	, thence a line runs at bearing	232.38095	for	49.31	meters, to a point
Latitude - 689134.2538	Longitude - 446873.3187	, thence a line runs at bearing	214.52453	for	47.66	meters, to a point

Latitude - 689173.5167	Longitude - 446900.5281	, thence a line runs at bearing	190.81903	for	50.13	meters, to a point
Latitude - 689222.7568	Longitude - 446909.7381	, thence a line runs at bearing	184.61538	for	48.95	meters, to a point
Latitude - 689271.5476	Longitude - 446913.6769	, thence a line runs at bearing	161.67681	for	49.27	meters, to a point
Latitude - 689318.3176	Longitude - 446898.1882	, thence a line runs at bearing	165.37399	for	50.13	meters, to a point
Latitude - 689366.8271	Longitude - 446885.5289	, thence a line runs at bearing	189.68515	for	50.04	meters, to a point
Latitude - 689416.1514	Longitude - 446893.9469	, thence a line runs at bearing	215.20919	for	48.82	meters, to a point
Latitude - 689456.0434	Longitude - 446922.0972	, thence a line runs at bearing	214.07121	for	49.36	meters, to a point
Latitude - 689496.9274	Longitude - 446949.7478	, thence a line runs at bearing	214.92215	for	52.26	meters, to a point
Latitude - 689539.7738	Longitude - 446979.6625	, thence a line runs at bearing	218.55764	for	49.62	meters, to a point
Latitude - 689578.5792	Longitude - 447010.5935	, thence a line runs at bearing	258.87543	for	49.72	meters, to a point
Latitude - 689588.1715	Longitude - 447059.3751	, thence a line runs at bearing	271.13628	for	50.43	meters, to a point
Latitude - 689587.1714	Longitude - 447109.7976	, thence a line runs at bearing	294.78918	for	49.29	meters, to a point
Latitude - 689566.5049	Longitude - 447154.5462	, thence a line runs at bearing	297.72313	for	49.94	meters, to a point
Latitude - 689543.2722	Longitude - 447198.7546	, thence a line runs at bearing	280.49463	for	49.43	meters, to a point
Latitude - 689534.2681	Longitude - 447247.3618	, thence a line runs at bearing	278.34218	for	49.80	meters, to a point
Latitude - 689527.0424	Longitude - 447296.6382	, thence a line runs at bearing	278.59407	for	49.78	meters, to a point
Latitude - 689519.6037	Longitude - 447345.8588	, thence a line runs at bearing	286.01677	for	50.57	meters, to a point
Latitude - 689505.6517	Longitude - 447394.4615	, thence a line runs at bearing	270.81817	for	49.18	meters, to a point
Latitude - 689504.9495	Longitude - 447443.6327	, thence a line runs at bearing	254.26627	for	51.26	meters, to a point
Latitude - 689518.8502	Longitude - 447492.9745	, thence a line runs at bearing	264.76057	for	50.44	meters, to a point
Latitude - 689523.4566	Longitude - 447543.2073	, thence a line runs at bearing	269.56864	for	48.38	meters, to a point
Latitude - 689523.8208	Longitude - 447591.5818	, thence a line runs at bearing	259.02747	for	48.65	meters, to a point
Latitude - 689533.0809	Longitude - 447639.3431	, thence a line runs at bearing	258.72821	for	49.55	meters, to a point
Latitude - 689542.7665	Longitude - 447687.9393	, thence a line runs at bearing	252.40952	for	49.87	meters, to a point
Latitude - 689557.8367	Longitude - 447735.474	, thence a line runs at bearing	237.90744	for	49.27	meters, to a point
Latitude - 689584.0126	Longitude - 447777.214	, thence a line runs at bearing	234.83795	for	50.73	meters, to a point
Latitude - 689613.2281	Longitude - 447818.6879	, thence a line runs at bearing	238.22103	for	48.31	meters, to a point
Latitude - 689638.6727	Longitude - 447859.7595	, thence a line runs at bearing	244.25848	for	50.24	meters, to a point
Latitude - 689660.4906	Longitude - 447905.0098	, thence a line runs at bearing	248.40271	for	49.58	meters, to a point
Latitude - 689678.7404	Longitude - 447951.1099	, thence a line runs at bearing	247.89989	for	49.89	meters, to a point
Latitude - 689697.5089	Longitude - 447997.3309	, thence a line runs at bearing	247.92979	for	67.10	meters, to a point
Latitude - 689722.7218	Longitude - 448059.5155	, thence a line runs at bearing	251.49872	for	49.33	meters, to a point
Latitude - 689738.3766	Longitude - 448106.2993	, thence a line runs at bearing	252.24579	for	50.00	meters, to a point
Latitude - 689753.6231	Longitude - 448153.9173	, thence a line runs at bearing	257.52367	for	50.07	meters, to a point
Latitude - 689764.4393	Longitude - 448202.8016	, thence a line runs at bearing	268.61109	for	50.52	meters, to a point

Latitude - 689765.6639	Longitude - 448253.3094	, thence a line runs at bearing	267.51235	for	50.42	meters, to a point
Latitude - 689767.8522	Longitude - 448303.6789	, thence a line runs at bearing	257.42537	for	51.00	meters, to a point
Latitude - 689778.955	Longitude - 448353.4535	, thence a line runs at bearing	248.53096	for	49.31	meters, to a point
Latitude - 689797.0015	Longitude - 448399.3399	, thence a line runs at bearing	266.97613	for	50.27	meters, to a point
Latitude - 689799.6535	Longitude - 448449.5429	, thence a line runs at bearing	282.53944	for	49.32	meters, to a point
Latitude - 689788.9459	Longitude - 448497.6849	, thence a line runs at bearing	291.55961	for	49.53	meters, to a point
Latitude - 689770.744	Longitude - 448543.7525	, thence a line runs at bearing	323.66721	for	51.90	meters, to a point
Latitude - 689728.9368	Longitude - 448574.4998	, thence a line runs at bearing	325.33016	for	51.83	meters, to a point
Latitude - 689686.3061	Longitude - 448603.9855	, thence a line runs at bearing	293.60144	for	49.60	meters, to a point
Latitude - 689666.4462	Longitude - 448649.4399	, thence a line runs at bearing	288.06078	for	54.12	meters, to a point
Latitude - 689649.6667	Longitude - 448700.8961	, thence a line runs at bearing	274.17895	for	52.00	meters, to a point
Latitude - 689645.8777	Longitude - 448752.7533	, thence a line runs at bearing	207.39901	for	48.58	meters, to a point
Latitude - 689689.0094	Longitude - 448775.1097	, thence a line runs at bearing	194.68739	for	46.20	meters, to a point
Latitude - 689733.6979	Longitude - 448786.823	, thence a line runs at bearing	209.46089	for	51.74	meters, to a point
Latitude - 689778.7451	Longitude - 448812.2689	, thence a line runs at bearing	230.38998	for	49.77	meters, to a point
Latitude - 689810.475	Longitude - 448850.6101	, thence a line runs at bearing	215.68248	for	48.86	meters, to a point
Latitude - 689850.1638	Longitude - 448879.111	, thence a line runs at bearing	197.12714	for	44.84	meters, to a point
Latitude - 689864.3461	Longitude - 448883.4814	, thence a line runs at bearing	272.54172	for	43.48	meters, to a point
Latitude - 689862.4178	Longitude - 448926.9208	, thence a line runs at bearing	271.74577	for	51.98	meters, to a point
Latitude - 689860.8341	Longitude - 448978.8816	, thence a line runs at bearing	261.7617	for	50.84	meters, to a point
Latitude - 689868.1194	Longitude - 449029.1998	, thence a line runs at bearing	242.00381	for	50.92	meters, to a point
Latitude - 689892.0233	Longitude - 449074.1637	, thence a line runs at bearing	239.41	for	49.09	meters, to a point
Latitude - 689917.0043	Longitude - 449116.4211	, thence a line runs at bearing	266.083	for	48.62	meters, to a point
Latitude - 689920.3256	Longitude - 449164.9276	, thence a line runs at bearing	350.94267	for	48.80	meters, to a point
Latitude - 689872.1361	Longitude - 449172.6095	, thence a line runs at bearing	333.60961	for	49.00	meters, to a point
Latitude - 689828.2429	Longitude - 449194.3891	, thence a line runs at bearing	306.31394	for	51.77	meters, to a point
Latitude - 689797.5828	Longitude - 449236.1065	, thence a line runs at bearing	303.90212	for	49.75	meters, to a point
Latitude - 689769.8325	Longitude - 449277.4	, thence a line runs at bearing	301.42121	for	47.97	meters, to a point
Latitude - 689744.8253	Longitude - 449318.3343	, thence a line runs at bearing	305.78824	for	50.32	meters, to a point
Latitude - 689715.3983	Longitude - 449359.1535	, thence a line runs at bearing	280.46617	for	50.07	meters, to a point
Latitude - 689706.3027	Longitude - 449408.3912	, thence a line runs at bearing	286.96516	for	49.68	meters, to a point
Latitude - 689691.8067	Longitude - 449455.9088	, thence a line runs at bearing	289.22563	for	46.60	meters, to a point
Latitude - 689676.4613	Longitude - 449499.9114	, thence a line runs at bearing	286.29282	for	51.08	meters, to a point
Latitude - 689662.1308	Longitude - 449548.9407	, thence a line runs at bearing	245.05641	for	49.30	meters, to a point
Latitude - 689682.9219	Longitude - 449593.6422	, thence a line runs at bearing	238.73858	for	48.93	meters, to a point

Latitude - 689708.3114	Longitude - 449635.464	, thence a line runs at bearing	238.62354	for	52.21	meters, to a point
Latitude - 689735.4963	Longitude - 449680.0412	, thence a line runs at bearing	221.12683	for	49.86	meters, to a point
Latitude - 689773.0505	Longitude - 449712.8328	, thence a line runs at bearing	206.64879	for	51.83	meters, to a point
Latitude - 689819.3785	Longitude - 449756.0815	, thence a line runs at bearing	202.50683	for	47.92	meters, to a point
Latitude - 689863.6446	Longitude - 449754.4233	, thence a line runs at bearing	240.65351	for	51.40	meters, to a point
Latitude - 689888.837	Longitude - 449799.2304	, thence a line runs at bearing	216.09252	for	51.37	meters, to a point
Latitude - 689930.35	Longitude - 449829.4939	, thence a line runs at bearing	260.27627	for	50.93	meters, to a point
Latitude - 689938.952	Longitude - 449879.6925	, thence a line runs at bearing	274.73052	for	50.18	meters, to a point
Latitude - 689934.8135	Longitude - 449929.7038	, thence a line runs at bearing	262.65528	for	47.38	meters, to a point
Latitude - 689940.8701	Longitude - 449976.6919	, thence a line runs at bearing	276.45791	for	48.23	meters, to a point
Latitude - 689935.4455	Longitude - 450024.616	, thence a line runs at bearing	276.20745	for	56.14	meters, to a point
Latitude - 689929.3748	Longitude - 450080.4302	, thence a line runs at bearing	268.68117	for	54.73	meters, to a point
Latitude - 689930.6345	Longitude - 450135.1473	, thence a line runs at bearing	285.16943	for	49.70	meters, to a point
Latitude - 689917.6305	Longitude - 450183.1111	, thence a line runs at bearing	296.26696	for	49.48	meters, to a point
Latitude - 689895.7343	Longitude - 450227.4791	, thence a line runs at bearing	305.04695	for	49.42	meters, to a point
Latitude - 689867.3553	Longitude - 450267.9379	, thence a line runs at bearing	275.12781	for	50.34	meters, to a point
Latitude - 689862.8558	Longitude - 450318.0789	, thence a line runs at bearing	313.48014	for	51.65	meters, to a point
Latitude - 689827.3168	Longitude - 450355.5552	, thence a line runs at bearing	317.43816	for	49.58	meters, to a point
Latitude - 689790.7992	Longitude - 450389.09	, thence a line runs at bearing	314.99082	for	49.45	meters, to a point
Latitude - 689755.837	Longitude - 450424.0634	, thence a line runs at bearing	292.59724	for	49.25	meters, to a point
Latitude - 689736.9144	Longitude - 450469.5282	, thence a line runs at bearing	281.04552	for	50.47	meters, to a point
Latitude - 689727.2451	Longitude - 450519.0623	, thence a line runs at bearing	262.03559	for	50.52	meters, to a point
Latitude - 689734.2447	Longitude - 450569.0925	, thence a line runs at bearing	238.27213	for	48.81	meters, to a point
Latitude - 689759.9131	Longitude - 450610.608	, thence a line runs at bearing	263.01178	for	50.53	meters, to a point
Latitude - 689766.0603	Longitude - 450660.7582	, thence a line runs at bearing	319.23082	for	50.09	meters, to a point
Latitude - 689728.1259	Longitude - 450693.4667	, thence a line runs at bearing	328.45568	for	49.31	meters, to a point
Latitude - 689686.1017	Longitude - 450719.2639	, thence a line runs at bearing	0.9184493	for	53.74	meters, to a point
Latitude - 689632.3694	Longitude - 450718.4025	, thence a line runs at bearing	27.551033	for	52.33	meters, to a point
Latitude - 689585.977	Longitude - 450694.1996	, thence a line runs at bearing	19.124046	for	52.12	meters, to a point
Latitude - 689536.7339	Longitude - 450677.1245	, thence a line runs at bearing	35.806315	for	50.33	meters, to a point
Latitude - 689495.9148	Longitude - 450647.678	, thence a line runs at bearing	30.907113	for	48.97	meters, to a point
Latitude - 689453.8967	Longitude - 450622.5236	, thence a line runs at bearing	45.627747	for	51.71	meters, to a point
Latitude - 689417.7353	Longitude - 450585.561	, thence a line runs at bearing	54.938432	for	49.56	meters, to a point
Latitude - 689389.2677	Longitude - 450544.9979	, thence a line runs at bearing	43.604258	for	48.98	meters, to a point
Latitude - 689353.7987	Longitude - 450511.2162	, thence a line runs at bearing	32.578125	for	52.97	meters, to a point

Latitude - 689309.1613	Longitude - 450482.6934	. thence a line runs at bearing	28.307978	for	51.96	meters, to a point
Latitude - 689263.4179	Longitude - 450458.0549	. thence a line runs at bearing	39.967035	for	48.28	meters, to a point
Latitude - 689226.4177	Longitude - 450427.0443	. thence a line runs at bearing	40.609848	for	48.98	meters, to a point
Latitude - 689189.2328	Longitude - 450395.1619	. thence a line runs at bearing	47.137774	for	50.48	meters, to a point
Latitude - 689151.8971	Longitude - 450358.1634	. thence a line runs at bearing	52.311687	for	50.79	meters, to a point
Latitude - 689123.8442	Longitude - 450317.9687	. thence a line runs at bearing	26.660223	for	47.20	meters, to a point
Latitude - 689081.6653	Longitude - 450296.7916	. thence a line runs at bearing	18.300443	for	50.72	meters, to a point
Latitude - 689033.5147	Longitude - 450280.8669	. thence a line runs at bearing	341.68293	for	51.68	meters, to a point
Latitude - 688984.4564	Longitude - 450297.1076	. thence a line runs at bearing	353.2803	for	53.58	meters, to a point
Latitude - 688931.2463	Longitude - 450303.3769	. thence a line runs at bearing	329.63317	for	53.26	meters, to a point
Latitude - 688885.2923	Longitude - 450330.3022	. thence a line runs at bearing	322.1419	for	49.70	meters, to a point
Latitude - 688846.053	Longitude - 450360.8031	. thence a line runs at bearing	319.0593	for	46.81	meters, to a point
Latitude - 688810.6961	Longitude - 450391.4742	. thence a line runs at bearing	355.22923	for	52.31	meters, to a point
Latitude - 688758.5624	Longitude - 450395.8252	. thence a line runs at bearing	340.59654	for	48.98	meters, to a point
Latitude - 688712.3673	Longitude - 450412.0962	. thence a line runs at bearing	355.54811	for	48.33	meters, to a point
Latitude - 688664.1815	Longitude - 450415.8478	. thence a line runs at bearing	15.227866	for	47.52	meters, to a point
Latitude - 688618.3257	Longitude - 450403.3651	. thence a line runs at bearing	13.044161	for	49.32	meters, to a point
Latitude - 688570.2823	Longitude - 450392.2344	. thence a line runs at bearing	4.2648577	for	47.42	meters, to a point
Latitude - 688522.9921	Longitude - 450388.7078	. thence a line runs at bearing	7.1272847	for	47.25	meters, to a point
Latitude - 688476.1024	Longitude - 450382.8447	. thence a line runs at bearing	353.06337	for	49.56	meters, to a point
Latitude - 688426.9046	Longitude - 450388.8302	. thence a line runs at bearing	358.17148	for	52.08	meters, to a point
Latitude - 688374.8474	Longitude - 450390.4921	. thence a line runs at bearing	343.67074	for	52.45	meters, to a point
Latitude - 688324.5117	Longitude - 450405.2392	. thence a line runs at bearing	355.03023	for	48.97	meters, to a point
Latitude - 688275.7232	Longitude - 450409.4817	. thence a line runs at bearing	17.869626	for	41.57	meters, to a point
Latitude - 688236.1594	Longitude - 450396.7261	. thence a line runs at bearing	15.610373	for	48.46	meters, to a point
Latitude - 688189.4887	Longitude - 450383.6863	. thence a line runs at bearing	23.788029	for	47.24	meters, to a point
Latitude - 688146.261	Longitude - 450364.6314	. thence a line runs at bearing	24.35032	for	49.82	meters, to a point
Latitude - 688100.8756	Longitude - 450344.0911	. thence a line runs at bearing	13.454095	for	47.47	meters, to a point
Latitude - 688054.7036	Longitude - 450333.0453	. thence a line runs at bearing	25.930137	for	45.46	meters, to a point
Latitude - 688013.8208	Longitude - 450313.1671	. thence a line runs at bearing	35.441673	for	46.99	meters, to a point
Latitude - 687975.5387	Longitude - 450285.9195	. thence a line runs at bearing	18.329416	for	49.31	meters, to a point
Latitude - 687928.7314	Longitude - 450270.4128	. thence a line runs at bearing	25.728265	for	47.14	meters, to a point
Latitude - 687886.2646	Longitude - 450249.9491	. thence a line runs at bearing	12.452102	for	48.09	meters, to a point
Latitude - 687839.3046	Longitude - 450239.5795	. thence a line runs at bearing	17.930441	for	48.68	meters, to a point
Latitude - 687792.9878	Longitude - 450224.5924	. thence a line runs at bearing	11.835974	for	52.84	meters, to a point

Latitude - 687741.2748	Longitude - 450213.7551	, thence a line runs at bearing	353.92218	for	51.09	meters, to a point
Latitude - 687690.4745	Longitude - 450219.1642	, thence a line runs at bearing	33.309608	for	51.23	meters, to a point
Latitude - 687647.6622	Longitude - 450191.0315	, thence a line runs at bearing	28.469851	for	48.71	meters, to a point
Latitude - 687604.8457	Longitude - 450167.8132	, thence a line runs at bearing	61.627617	for	51.10	meters, to a point
Latitude - 687580.561	Longitude - 450122.8478	, thence a line runs at bearing	87.613967	for	48.42	meters, to a point
Latitude - 687578.5452	Longitude - 450074.4704	, thence a line runs at bearing	83.68386	for	49.48	meters, to a point
Latitude - 687573.1019	Longitude - 450025.2926	, thence a line runs at bearing	87.621547	for	49.66	meters, to a point
Latitude - 687571.0409	Longitude - 449975.6726	, thence a line runs at bearing	96.018448	for	52.03	meters, to a point
Latitude - 687576.4965	Longitude - 449923.9263	, thence a line runs at bearing	116.0457	for	48.64	meters, to a point
Latitude - 687597.8548	Longitude - 449880.2238	, thence a line runs at bearing	113.09853	for	49.98	meters, to a point
Latitude - 687617.4637	Longitude - 449834.2481	, thence a line runs at bearing	117.7858	for	52.56	meters, to a point
Latitude - 687641.9657	Longitude - 449787.748	, thence a line runs at bearing	127.20253	for	50.02	meters, to a point
Latitude - 687672.2067	Longitude - 449747.9106	, thence a line runs at bearing	119.4077	for	49.54	meters, to a point
Latitude - 687696.5297	Longitude - 449704.7578	, thence a line runs at bearing	93.017086	for	48.86	meters, to a point
Latitude - 687699.1013	Longitude - 449655.9671	, thence a line runs at bearing	52.184356	for	49.80	meters, to a point
Latitude - 687668.567	Longitude - 449616.6247	, thence a line runs at bearing	28.084443	for	49.05	meters, to a point
Latitude - 687625.2965	Longitude - 449593.5355	, thence a line runs at bearing	17.134769	for	49.33	meters, to a point
Latitude - 687578.1548	Longitude - 449579.0015	, thence a line runs at bearing	348.12115	for	47.65	meters, to a point
Latitude - 687531.5296	Longitude - 449588.809	, thence a line runs at bearing	355.92231	for	50.25	meters, to a point
Latitude - 687481.4072	Longitude - 449592.3822	, thence a line runs at bearing	13.289991	for	49.43	meters, to a point
Latitude - 687433.2991	Longitude - 449581.0188	, thence a line runs at bearing	322.50095	for	61.49	meters, to a point
Latitude - 687384.519	Longitude - 449618.4478	, thence a line runs at bearing	321.2607	for	49.81	meters, to a point
Latitude - 687345.668	Longitude - 449649.6171	, thence a line runs at bearing	338.8677	for	51.15	meters, to a point
Latitude - 687297.9605	Longitude - 449668.0568	, thence a line runs at bearing	5.4957877	for	48.85	meters, to a point
Latitude - 687249.337	Longitude - 449663.3785	, thence a line runs at bearing	8.0020283	for	49.60	meters, to a point
Latitude - 687200.2244	Longitude - 449656.4744	, thence a line runs at bearing	1.5998854	for	53.11	meters, to a point
Latitude - 687147.132	Longitude - 449654.9915	, thence a line runs at bearing	48.01599	for	43.50	meters, to a point
Latitude - 687118.0371	Longitude - 449622.6602	, thence a line runs at bearing	40.347355	for	46.88	meters, to a point
Latitude - 687082.3061	Longitude - 449592.3073	, thence a line runs at bearing	27.224897	for	35.23	meters, to a point
Latitude - 687050.9826	Longitude - 449576.192	, thence a line runs at bearing	19.428251	for	55.75	meters, to a point
Latitude - 686998.4054	Longitude - 449557.6475	, thence a line runs at bearing	20.63679	for	46.49	meters, to a point
Latitude - 686954.8976	Longitude - 449541.2621	, thence a line runs at bearing	5.1147474	for	52.83	meters, to a point
Latitude - 686902.2805	Longitude - 449536.5525	, thence a line runs at bearing	24.018614	for	47.75	meters, to a point
Latitude - 686858.664	Longitude - 449517.1162	, thence a line runs at bearing	38.220696	for	48.52	meters, to a point
Latitude - 686820.5422	Longitude - 449487.095	, thence a line runs at bearing	29.737198	for	49.67	meters, to a point

Latitude - 686777.4121	Longitude - 449462.4569	, thence a line runs at bearing	4.486772	for	50.46	meters, to a point
Latitude - 686727.111	Longitude - 449458.5098	, thence a line runs at bearing	350.51714	for	48.43	meters, to a point
Latitude - 686679.3384	Longitude - 449466.4895	, thence a line runs at bearing	334.10734	for	49.73	meters, to a point
Latitude - 686634.6023	Longitude - 449488.3051	, thence a line runs at bearing	339.12837	for	48.92	meters, to a point
Latitude - 686588.8879	Longitude - 449505.6358	, thence a line runs at bearing	344.91511	for	49.87	meters, to a point
Latitude - 686540.7403	Longitude - 449518.6134	, thence a line runs at bearing	357.74009	for	47.17	meters, to a point
Latitude - 686493.603	Longitude - 449520.4736	, thence a line runs at bearing	331.05208	for	51.17	meters, to a point
Latitude - 686448.8273	Longitude - 449545.24	, thence a line runs at bearing	338.38154	for	71.73	meters, to a point
Latitude - 686382.1456	Longitude - 449571.666	, thence a line runs at bearing	322.23194	for	46.78	meters, to a point
Latitude - 686345.1686	Longitude - 449600.3153	, thence a line runs at bearing	323.35258	for	51.47	meters, to a point
Latitude - 686303.8719	Longitude - 449631.038	, thence a line runs at bearing	329.8698	for	53.40	meters, to a point
Latitude - 686257.6861	Longitude - 449657.8435	, thence a line runs at bearing	331.69868	for	49.85	meters, to a point
Latitude - 686213.7917	Longitude - 449681.4795	, thence a line runs at bearing	326.46974	for	49.56	meters, to a point
Latitude - 686172.4794	Longitude - 449708.8549	, thence a line runs at bearing	334.91207	for	42.74	meters, to a point
Latitude - 686133.7695	Longitude - 449726.978	, thence a line runs at bearing	319.24696	for	47.21	meters, to a point
Latitude - 686098.0045	Longitude - 449757.7984	, thence a line runs at bearing	309.7713	for	52.66	meters, to a point
Latitude - 686064.316	Longitude - 449798.2738	, thence a line runs at bearing	300.94227	for	55.02	meters, to a point
Latitude - 686036.0239	Longitude - 449845.4674	, thence a line runs at bearing	291.63173	for	58.57	meters, to a point
Latitude - 686014.4341	Longitude - 449899.9089	, thence a line runs at bearing	287.51211	for	47.64	meters, to a point
Latitude - 686000.0981	Longitude - 449945.3434	, thence a line runs at bearing	284.41954	for	47.45	meters, to a point
Latitude - 685988.2819	Longitude - 449991.2994	, thence a line runs at bearing	269.98366	for	48.73	meters, to a point
Latitude - 685988.2958	Longitude - 450040.0288	, thence a line runs at bearing	267.54046	for	48.06	meters, to a point
Latitude - 685990.3583	Longitude - 450088.0459	, thence a line runs at bearing	268.32464	for	50.82	meters, to a point
Latitude - 685991.8441	Longitude - 450138.8444	, thence a line runs at bearing	258.18384	for	49.71	meters, to a point
Latitude - 686002.0229	Longitude - 450187.499	, thence a line runs at bearing	279.92627	for	49.80	meters, to a point
Latitude - 685993.4381	Longitude - 450236.5549	, thence a line runs at bearing	262.16545	for	50.80	meters, to a point
Latitude - 686000.3634	Longitude - 450286.8851	, thence a line runs at bearing	253.13681	for	48.26	meters, to a point
Latitude - 686014.3621	Longitude - 450333.0669	, thence a line runs at bearing	232.11665	for	49.53	meters, to a point
Latitude - 686044.7767	Longitude - 450372.1596	, thence a line runs at bearing	240.63695	for	52.34	meters, to a point
Latitude - 686070.4417	Longitude - 450417.7764	, thence a line runs at bearing	258.0851	for	48.14	meters, to a point
Latitude - 686080.3812	Longitude - 450464.882	, thence a line runs at bearing	272.97937	for	50.92	meters, to a point
Latitude - 686077.7346	Longitude - 450515.7325	, thence a line runs at bearing	243.10077	for	21.96	meters, to a point
Latitude - 686087.6696	Longitude - 450535.3161	, thence a line runs at bearing	290.86387	for	46.52	meters, to a point
Latitude - 686071.1026	Longitude - 450578.783	, thence a line runs at bearing	283.93981	for	44.04	meters, to a point
Latitude - 686060.4942	Longitude - 450621.5222	, thence a line runs at bearing	312.71413	for	49.55	meters, to a point

Latitude - 686026.884	Longitude - 450657.9272	. thence a line runs at bearing	332.49105	for	49.73	meters, to a point
Latitude - 685982.7776	Longitude - 450680.8963	. thence a line runs at bearing	351.9933	for	48.97	meters, to a point
Latitude - 685934.2834	Longitude - 450687.7175	. thence a line runs at bearing	18.05101	for	49.06	meters, to a point
Latitude - 685887.6424	Longitude - 450672.517	. thence a line runs at bearing	15.783808	for	49.13	meters, to a point
Latitude - 685840.3605	Longitude - 450659.152	. thence a line runs at bearing	16.364902	for	50.72	meters, to a point
Latitude - 685791.7453	Longitude - 450644.6916	. thence a line runs at bearing	8.8397846	for	49.87	meters, to a point
Latitude - 685742.4665	Longitude - 450637.0278	. thence a line runs at bearing	346.88371	for	48.94	meters, to a point
Latitude - 685694.8027	Longitude - 450648.1338	. thence a line runs at bearing	326.65923	for	54.09	meters, to a point
Latitude - 685649.6158	Longitude - 450677.8621	. thence a line runs at bearing	299.0477	for	19.76	meters, to a point
Latitude - 685640.0203	Longitude - 450695.1389	. thence a line runs at bearing	314.7553	for	8.31	meters, to a point
Latitude - 685634.1686	Longitude - 450701.0408	. thence a line runs at bearing	285.01739	for	50.51	meters, to a point
Latitude - 685621.0812	Longitude - 450749.8244	. thence a line runs at bearing	307.9498	for	50.33	meters, to a point
Latitude - 685590.1277	Longitude - 450789.5147	. thence a line runs at bearing	310.97339	for	49.15	meters, to a point
Latitude - 685557.8975	Longitude - 450826.6261	. thence a line runs at bearing	286.22899	for	54.26	meters, to a point
Latitude - 685542.732	Longitude - 450878.7277	. thence a line runs at bearing	279.60968	for	49.98	meters, to a point
Latitude - 685534.3885	Longitude - 450928.0068	. thence a line runs at bearing	278.1762	for	51.44	meters, to a point
Latitude - 685527.0722	Longitude - 450978.9282	. thence a line runs at bearing	248.00239	for	49.84	meters, to a point
Latitude - 685545.7415	Longitude - 451025.1419	. thence a line runs at bearing	252.48208	for	49.43	meters, to a point
Latitude - 685560.6202	Longitude - 451072.2797	. thence a line runs at bearing	235.51121	for	49.44	meters, to a point
Latitude - 685588.6155	Longitude - 451113.0302	. thence a line runs at bearing	243.09069	for	49.28	meters, to a point
Latitude - 685610.9189	Longitude - 451156.9749	. thence a line runs at bearing	262.78661	for	50.73	meters, to a point
Latitude - 685617.289	Longitude - 451207.3048	. thence a line runs at bearing	286.83525	for	50.56	meters, to a point
Latitude - 685602.6458	Longitude - 451255.6978	. thence a line runs at bearing	304.37941	for	50.95	meters, to a point
Latitude - 685573.8774	Longitude - 451297.7454	. thence a line runs at bearing	300.17262	for	47.36	meters, to a point
Latitude - 685550.0764	Longitude - 451338.6846	. thence a line runs at bearing	285.45081	for	49.36	meters, to a point
Latitude - 685536.9258	Longitude - 451386.2627	. thence a line runs at bearing	281.24334	for	50.30	meters, to a point
Latitude - 685527.1187	Longitude - 451435.5963	. thence a line runs at bearing	264.54936	for	49.23	meters, to a point
Latitude - 685531.7945	Longitude - 451484.5988	. thence a line runs at bearing	255.44039	for	50.30	meters, to a point
Latitude - 685544.4392	Longitude - 451533.2832	. thence a line runs at bearing	250.31582	for	47.18	meters, to a point
Latitude - 685560.3306	Longitude - 451577.7048	. thence a line runs at bearing	255.18284	for	50.68	meters, to a point
Latitude - 685573.2902	Longitude - 451626.6955	. thence a line runs at bearing	258.37491	for	51.66	meters, to a point
Latitude - 685583.7004	Longitude - 451677.2975	. thence a line runs at bearing	267.31401	for	50.91	meters, to a point
Latitude - 685586.0862	Longitude - 451728.1527	. thence a line runs at bearing	288.20589	for	49.18	meters, to a point
Latitude - 685570.7221	Longitude - 451774.8667	. thence a line runs at bearing	298.00662	for	49.45	meters, to a point
Latitude - 685547.5029	Longitude - 451818.5235	. thence a line runs at bearing	313.4777	for	50.97	meters, to a point

Latitude - 685512.4291	Longitude - 451855.5124	, thence a line runs at bearing	306.48244	for	57.05	meters, to a point
Latitude - 685478.5061	Longitude - 451901.3861	, thence a line runs at bearing	305.72355	for	55.64	meters, to a point
Latitude - 685446.02	Longitude - 451946.5561	, thence a line runs at bearing	303.67841	for	50.14	meters, to a point
Latitude - 685418.216	Longitude - 451988.2805	, thence a line runs at bearing	309.84436	for	49.51	meters, to a point
Latitude - 685386.4957	Longitude - 452026.2925	, thence a line runs at bearing	309.20227	for	49.23	meters, to a point
Latitude - 685355.3775	Longitude - 452064.4441	, thence a line runs at bearing	304.56949	for	52.48	meters, to a point
Latitude - 685325.5988	Longitude - 452107.66	, thence a line runs at bearing	272.95017	for	52.87	meters, to a point
Latitude - 685322.8778	Longitude - 452160.4584	, thence a line runs at bearing	256.73269	for	51.02	meters, to a point
Latitude - 685334.5864	Longitude - 452210.1158	, thence a line runs at bearing	261.33388	for	51.14	meters, to a point
Latitude - 685342.2916	Longitude - 452260.6694	, thence a line runs at bearing	273.92245	for	41.40	meters, to a point
Latitude - 685339.4598	Longitude - 452301.9692	, thence a line runs at bearing	285.4574	for	50.77	meters, to a point
Latitude - 685325.9289	Longitude - 452350.9013	, thence a line runs at bearing	285.88303	for	49.51	meters, to a point
Latitude - 685312.3806	Longitude - 452398.5165	, thence a line runs at bearing	288.84185	for	48.98	meters, to a point
Latitude - 685296.5632	Longitude - 452444.8688	, thence a line runs at bearing	307.5219	for	52.01	meters, to a point
Latitude - 685264.8869	Longitude - 452486.1175	, thence a line runs at bearing	308.46036	for	48.85	meters, to a point
Latitude - 685234.501	Longitude - 452524.3721	, thence a line runs at bearing	305.47561	for	49.39	meters, to a point
Latitude - 685205.8369	Longitude - 452564.5939	, thence a line runs at bearing	307.75295	for	55.83	meters, to a point
Latitude - 685171.6565	Longitude - 452608.7338	, thence a line runs at bearing	306.39788	for	49.16	meters, to a point
Latitude - 685142.4834	Longitude - 452648.3063	, thence a line runs at bearing	305.33816	for	51.66	meters, to a point
Latitude - 685112.6041	Longitude - 452690.4468	, thence a line runs at bearing	287.81478	for	50.92	meters, to a point
Latitude - 685097.0263	Longitude - 452738.923	, thence a line runs at bearing	274.50626	for	43.97	meters, to a point
Latitude - 685093.5719	Longitude - 452782.7541	, thence a line runs at bearing	267.56633	for	50.11	meters, to a point
Latitude - 685095.6998	Longitude - 452832.821	, thence a line runs at bearing	272.88982	for	50.24	meters, to a point
Latitude - 685093.167	Longitude - 452882.9956	, thence a line runs at bearing	300.43265	for	52.11	meters, to a point
Latitude - 685066.7696	Longitude - 452927.9302	, thence a line runs at bearing	312.41369	for	47.93	meters, to a point
Latitude - 685034.4405	Longitude - 452963.3181	, thence a line runs at bearing	345.75536	for	48.12	meters, to a point
Latitude - 684987.7958	Longitude - 452975.1597	, thence a line runs at bearing	350.32099	for	51.27	meters, to a point
Latitude - 684937.2529	Longitude - 452983.7801	, thence a line runs at bearing	326.51343	for	54.49	meters, to a point
Latitude - 684891.8077	Longitude - 453013.8443	, thence a line runs at bearing	297.29447	for	44.02	meters, to a point
Latitude - 684871.6231	Longitude - 453052.9605	, thence a line runs at bearing	12.459487	for	15.31	meters, to a point
Latitude - 684856.6706	Longitude - 453049.6567	, thence a line runs at bearing	358.13207	for	51.09	meters, to a point
Latitude - 684805.6052	Longitude - 453051.3221	, thence a line runs at bearing	1.5339427	for	49.64	meters, to a point
Latitude - 684755.9876	Longitude - 453049.9934	, thence a line runs at bearing	339.74775	for	48.78	meters, to a point
Latitude - 684710.2192	Longitude - 453066.8803	, thence a line runs at bearing	348.40471	for	39.11	meters, to a point
Latitude - 684671.9079	Longitude - 453074.7412	, thence a line runs at bearing	300.7906	for	40.71	meters, to a point

Latitude -	684651.0689	Longitude -	453109.712	, thence a line runs at bearing	354.73751	for	53.93	meters, to a point
Latitude -	684597.3693	Longitude -	453114.6581	, thence a line runs at bearing	333.43066	for	66.94	meters, to a point
Latitude -	684537.4971	Longitude -	453144.5998	, thence a line runs at bearing	340.895	for	47.38	meters, to a point
Latitude -	684492.7308	Longitude -	453160.1059	, thence a line runs at bearing	308.76194	for	63.46	meters, to a point
Latitude -	684452.9964	Longitude -	453209.5928	, thence a line runs at bearing	288.67391	for	58.42	meters, to a point
Latitude -	684434.2909	Longitude -	453264.9388	, thence a line runs at bearing	279.03639	for	45.12	meters, to a point
Latitude -	684427.2041	Longitude -	453309.4999	, thence a line runs at bearing	264.81838	for	49.73	meters, to a point
Latitude -	684431.6958	Longitude -	453359.0314	, thence a line runs at bearing	258.39718	for	50.71	meters, to a point
Latitude -	684441.8952	Longitude -	453408.7066	, thence a line runs at bearing	257.4138	for	48.68	meters, to a point
Latitude -	684452.504	Longitude -	453456.2214	, thence a line runs at bearing	273.60237	for	50.33	meters, to a point
Latitude -	684449.3417	Longitude -	453506.4516	, thence a line runs at bearing	283.56862	for	51.00	meters, to a point
Latitude -	684437.3772	Longitude -	453556.0257	, thence a line runs at bearing	291.9128	for	49.38	meters, to a point
Latitude -	684418.9484	Longitude -	453601.8392	, thence a line runs at bearing	288.49388	for	49.16	meters, to a point
Latitude -	684403.3543	Longitude -	453648.4616	, thence a line runs at bearing	305.63088	for	49.81	meters, to a point
Latitude -	684374.3388	Longitude -	453688.9439	, thence a line runs at bearing	294.89545	for	48.99	meters, to a point
Latitude -	684353.715	Longitude -	453733.3833	, thence a line runs at bearing	290.52718	for	49.47	meters, to a point
Latitude -	684336.37	Longitude -	453779.7076	, thence a line runs at bearing	290.09133	for	49.09	meters, to a point
Latitude -	684319.5069	Longitude -	453825.8098	, thence a line runs at bearing	293.76165	for	49.69	meters, to a point
Latitude -	684299.4848	Longitude -	453871.2884	, thence a line runs at bearing	298.55271	for	50.63	meters, to a point
Latitude -	684275.2846	Longitude -	453915.762	, thence a line runs at bearing	302.74264	for	49.28	meters, to a point
Latitude -	684248.6313	Longitude -	453957.2109	, thence a line runs at bearing	320.77578	for	52.83	meters, to a point
Latitude -	684207.7056	Longitude -	453990.6179	, thence a line runs at bearing	329.42705	for	49.27	meters, to a point
Latitude -	684165.2856	Longitude -	454015.678	, thence a line runs at bearing	320.54816	for	50.30	meters, to a point
Latitude -	684126.446	Longitude -	454047.6401	, thence a line runs at bearing	308.07043	for	47.98	meters, to a point
Latitude -	684096.8584	Longitude -	454085.4147	, thence a line runs at bearing	337.13115	for	49.75	meters, to a point
Latitude -	684051.0144	Longitude -	454104.7506	, thence a line runs at bearing	341.24929	for	48.93	meters, to a point
Latitude -	684004.6822	Longitude -	454120.4789	, thence a line runs at bearing	336.94432	for	30.37	meters, to a point
Latitude -	683976.7363	Longitude -	454132.3733	, thence a line runs at bearing	349.42054	for	19.51	meters, to a point
Latitude -	683957.5532	Longitude -	454135.9562	, thence a line runs at bearing	353.54157	for	49.45	meters, to a point
Latitude -	683908.4122	Longitude -	454141.519	, thence a line runs at bearing	357.72146	for	49.64	meters, to a point
Latitude -	683858.8105	Longitude -	454143.4926	, thence a line runs at bearing	350.37381	for	50.40	meters, to a point
Latitude -	683809.1205	Longitude -	454151.9204	, thence a line runs at bearing	353.93814	for	49.69	meters, to a point
Latitude -	683759.7109	Longitude -	454157.1675	, thence a line runs at bearing	349.15708	for	5.06	meters, to a point
Latitude -	683754.7437	Longitude -	454158.1189	, thence a line runs at bearing	340.87611	for	11.66	meters, to a point
Latitude -	683743.7236	Longitude -	454161.9401	, thence a line runs at bearing	328.05632	for	34.29	meters, to a point

Latitude -	682418.0947	Longitude -	454662.4707	, thence a line runs at bearing	288.46487	for	23.72	meters, to a point
Latitude -	682410.5816	Longitude -	454684.9707	, thence a line runs at bearing	312.15816	for	19.31	meters, to a point
Latitude -	682397.6234	Longitude -	454699.2827	, thence a line runs at bearing	8.5817184	for	13.78	meters, to a point
Latitude -	682383.0963	Longitude -	454607.2262	, thence a line runs at bearing	68.809475	for	17.17	meters, to a point
Latitude -	682379.2357	Longitude -	454684.9406	, thence a line runs at bearing	57.44624	for	20.24	meters, to a point
Latitude -	682368.3459	Longitude -	454667.8884	, thence a line runs at bearing	50.507589	for	20.34	meters, to a point
Latitude -	682355.4107	Longitude -	454652.1925	, thence a line runs at bearing	64.19626	for	25.01	meters, to a point
Latitude -	682344.5251	Longitude -	454629.6783	, thence a line runs at bearing	81.725225	for	28.26	meters, to a point
Latitude -	682340.458	Longitude -	454601.7133	, thence a line runs at bearing	96.379154	for	30.88	meters, to a point
Latitude -	682343.8888	Longitude -	454571.0262	, thence a line runs at bearing	98.167652	for	19.29	meters, to a point
Latitude -	682346.6293	Longitude -	454551.9324	, thence a line runs at bearing	106.42095	for	24.17	meters, to a point
Latitude -	682353.4615	Longitude -	454528.7498	, thence a line runs at bearing	115.48923	for	15.86	meters, to a point
Latitude -	682360.2869	Longitude -	454514.4332	, thence a line runs at bearing	123.04651	for	16.26	meters, to a point
Latitude -	682369.156	Longitude -	454500.8001	, thence a line runs at bearing	95.750155	for	13.71	meters, to a point
Latitude -	682370.5294	Longitude -	454487.1612	, thence a line runs at bearing	53.196997	for	17.04	meters, to a point
Latitude -	682360.3185	Longitude -	454473.5134	, thence a line runs at bearing	31.49484	for	14.38	meters, to a point
Latitude -	682348.0585	Longitude -	454466.002	, thence a line runs at bearing	348.34551	for	20.18	meters, to a point
Latitude -	682328.2937	Longitude -	454470.0787	, thence a line runs at bearing	321.36139	for	13.09	meters, to a point
Latitude -	682318.0659	Longitude -	454478.2548	, thence a line runs at bearing	336.0642	for	20.14	meters, to a point
Latitude -	682299.6609	Longitude -	454486.4245	, thence a line runs at bearing	315.02059	for	16.39	meters, to a point
Latitude -	682288.0676	Longitude -	454498.0095	, thence a line runs at bearing	330.27895	for	21.98	meters, to a point
Latitude -	682268.979	Longitude -	454508.9067	, thence a line runs at bearing	333.46022	for	25.91	meters, to a point
Latitude -	682245.8013	Longitude -	454520.4828	, thence a line runs at bearing	346.89969	for	20.99	meters, to a point
Latitude -	682225.3546	Longitude -	454525.241	, thence a line runs at bearing	21.430895	for	16.83	meters, to a point
Latitude -	682209.6864	Longitude -	454519.0909	, thence a line runs at bearing	38.994905	for	22.78	meters, to a point
Latitude -	682191.9802	Longitude -	454504.7553	, thence a line runs at bearing	81.685155	for	23.44	meters, to a point
Latitude -	682188.5909	Longitude -	454481.5648	, thence a line runs at bearing	104.41424	for	27.46	meters, to a point
Latitude -	682195.4258	Longitude -	454454.9722	, thence a line runs at bearing	87.660302	for	16.38	meters, to a point
Latitude -	682194.757	Longitude -	454438.6037	, thence a line runs at bearing	43.519775	for	17.84	meters, to a point
Latitude -	682181.8192	Longitude -	454426.3177	, thence a line runs at bearing	20.284539	for	13.80	meters, to a point
Latitude -	682168.8757	Longitude -	454421.5338	, thence a line runs at bearing	28.8751	for	15.56	meters, to a point
Latitude -	682155.2528	Longitude -	454414.0212	, thence a line runs at bearing	31.274037	for	21.92	meters, to a point
Latitude -	682136.5167	Longitude -	454402.6411	, thence a line runs at bearing	18.493498	for	28.73	meters, to a point
Latitude -	682109.2664	Longitude -	454393.5267	, thence a line runs at bearing	329.32374	for	16.91	meters, to a point
Latitude -	682094.7225	Longitude -	454402.1541	, thence a line runs at bearing	296.59034	for	27.45	meters, to a point

Latitude - 683714.624	Longitude - 454180.0838	thence a line runs at bearing	329.68334	for	50.91	meters, to a point
Latitude - 683670.6746	Longitude - 454205.7829	thence a line runs at bearing	322.46133	for	43.03	meters, to a point
Latitude - 683636.5559	Longitude - 454231.9997	thence a line runs at bearing	310.2449	for	51.32	meters, to a point
Latitude - 683603.4	Longitude - 454271.1721	thence a line runs at bearing	320.7393	for	50.46	meters, to a point
Latitude - 683564.3289	Longitude - 454303.1067	thence a line runs at bearing	338.80589	for	49.94	meters, to a point
Latitude - 683517.7633	Longitude - 454321.1628	thence a line runs at bearing	342.33609	for	49.24	meters, to a point
Latitude - 683470.8481	Longitude - 454336.1028	thence a line runs at bearing	337.3849	for	48.96	meters, to a point
Latitude - 683425.6532	Longitude - 454354.9296	thence a line runs at bearing	351.80354	for	48.98	meters, to a point
Latitude - 683377.1782	Longitude - 454361.9119	thence a line runs at bearing	351.48263	for	50.02	meters, to a point
Latitude - 683327.7114	Longitude - 454369.3201	thence a line runs at bearing	345.74728	for	49.45	meters, to a point
Latitude - 683279.779	Longitude - 454381.4958	thence a line runs at bearing	322.88166	for	52.24	meters, to a point
Latitude - 683238.1232	Longitude - 454413.0208	thence a line runs at bearing	314.41465	for	51.38	meters, to a point
Latitude - 683202.1617	Longitude - 454449.7247	thence a line runs at bearing	324.30562	for	49.65	meters, to a point
Latitude - 683161.8422	Longitude - 454478.6912	thence a line runs at bearing	329.02187	for	50.26	meters, to a point
Latitude - 683118.7547	Longitude - 454504.5584	thence a line runs at bearing	333.30167	for	49.29	meters, to a point
Latitude - 683074.7155	Longitude - 454526.7062	thence a line runs at bearing	343.38423	for	49.88	meters, to a point
Latitude - 683026.9206	Longitude - 454540.9688	thence a line runs at bearing	335.35975	for	48.92	meters, to a point
Latitude - 682982.4566	Longitude - 454561.3638	thence a line runs at bearing	343.9774	for	48.82	meters, to a point
Latitude - 682935.5332	Longitude - 454574.8389	thence a line runs at bearing	347.80344	for	48.72	meters, to a point
Latitude - 682887.9082	Longitude - 454585.1328	thence a line runs at bearing	347.13397	for	51.34	meters, to a point
Latitude - 682837.8545	Longitude - 454596.5654	thence a line runs at bearing	347.17753	for	52.72	meters, to a point
Latitude - 682786.4479	Longitude - 454608.2659	thence a line runs at bearing	351.63375	for	48.31	meters, to a point
Latitude - 682738.6494	Longitude - 454615.2954	thence a line runs at bearing	1.5234765	for	51.01	meters, to a point
Latitude - 682687.6605	Longitude - 454613.9393	thence a line runs at bearing	2.3163583	for	50.29	meters, to a point
Latitude - 682637.4134	Longitude - 454611.9068	thence a line runs at bearing	352.34468	for	50.87	meters, to a point
Latitude - 682586.9928	Longitude - 454618.6839	thence a line runs at bearing	341.27985	for	49.04	meters, to a point
Latitude - 682540.5495	Longitude - 454634.4223	thence a line runs at bearing	352.21791	for	43.31	meters, to a point
Latitude - 682497.6349	Longitude - 454640.2872	thence a line runs at bearing	337.94087	for	17.43	meters, to a point
Latitude - 682481.4801	Longitude - 454646.8336	thence a line runs at bearing	26.627992	for	13.72	meters, to a point
Latitude - 682469.219	Longitude - 454640.6862	thence a line runs at bearing	60.706485	for	12.52	meters, to a point
Latitude - 682463.0945	Longitude - 454629.7696	thence a line runs at bearing	39.872863	for	15.97	meters, to a point
Latitude - 682450.8366	Longitude - 454619.5302	thence a line runs at bearing	338.22643	for	14.68	meters, to a point
Latitude - 682437.2037	Longitude - 454624.9757	thence a line runs at bearing	322.14627	for	15.54	meters, to a point
Latitude - 682424.9306	Longitude - 454634.5142	thence a line runs at bearing	285.55605	for	12.74	meters, to a point
Latitude - 682421.5139	Longitude - 454646.7874	thence a line runs at bearing	282.29907	for	16.05	meters, to a point

Latitude - 682082.4377	Longitude - 454426.6966	, thence a line runs at bearing	304.89731	for	36.57	meters, to a point
Latitude - 682061.5172	Longitude - 454456.6884	, thence a line runs at bearing	302.16008	for	41.87	meters, to a point
Latitude - 682039.2297	Longitude - 454492.1351	, thence a line runs at bearing	306.22412	for	54.64	meters, to a point
Latitude - 682006.9412	Longitude - 454536.2129	, thence a line runs at bearing	316.02547	for	18.52	meters, to a point
Latitude - 681993.757	Longitude - 454548.9333	, thence a line runs at bearing	359.11934	for	28.17	meters, to a point
Latitude - 681965.5907	Longitude - 454549.3663	, thence a line runs at bearing	21.164994	for	27.76	meters, to a point
Latitude - 681939.704	Longitude - 454539.3437	, thence a line runs at bearing	21.200022	for	36.53	meters, to a point
Latitude - 681905.6425	Longitude - 454526.1321	, thence a line runs at bearing	11.942448	for	26.46	meters, to a point
Latitude - 681879.7523	Longitude - 454520.6561	, thence a line runs at bearing	11.550064	for	27.35	meters, to a point
Latitude - 681852.9534	Longitude - 454515.1795	, thence a line runs at bearing	23.811277	for	37.23	meters, to a point
Latitude - 681818.8933	Longitude - 454500.1492	, thence a line runs at bearing	27.645861	for	103.04	meters, to a point
Latitude - 681727.6181	Longitude - 454452.3386	, thence a line runs at bearing	32.341504	for	61.27	meters, to a point
Latitude - 681675.8545	Longitude - 454419.5625	, thence a line runs at bearing	30.018603	for	30.94	meters, to a point
Latitude - 681649.0634	Longitude - 454404.083	, thence a line runs at bearing	77.52563	for	37.73	meters, to a point
Latitude - 681640.9147	Longitude - 454367.2485	, thence a line runs at bearing	51.777466	for	22.01	meters, to a point
Latitude - 681627.2994	Longitude - 454349.9605	, thence a line runs at bearing	24.290027	for	29.89	meters, to a point
Latitude - 681600.0516	Longitude - 454337.6624	, thence a line runs at bearing	9.8584833	for	37.34	meters, to a point
Latitude - 681563.2591	Longitude - 454331.2695	, thence a line runs at bearing	354.84557	for	30.11	meters, to a point
Latitude - 681533.2739	Longitude - 454333.9744	, thence a line runs at bearing	351.63401	for	40.41	meters, to a point
Latitude - 681493.2919	Longitude - 454339.8541	, thence a line runs at bearing	1.4093973	for	38.17	meters, to a point
Latitude - 681455.1324	Longitude - 454338.9153	, thence a line runs at bearing	343.33182	for	14.23	meters, to a point
Latitude - 681441.5006	Longitude - 454342.9968	, thence a line runs at bearing	46.915961	for	29.90	meters, to a point
Latitude - 681421.0744	Longitude - 454321.1568	, thence a line runs at bearing	80.779401	for	22.57	meters, to a point
Latitude - 681417.4574	Longitude - 454298.8751	, thence a line runs at bearing	71.458869	for	49.89	meters, to a point
Latitude - 681401.5939	Longitude - 454251.577	, thence a line runs at bearing	79.268969	for	19.44	meters, to a point
Latitude - 681397.9744	Longitude - 454232.478	, thence a line runs at bearing	40.494284	for	16.12	meters, to a point
Latitude - 681385.7167	Longitude - 454222.0111	, thence a line runs at bearing	19.499606	for	16.38	meters, to a point
Latitude - 681370.2751	Longitude - 454216.543	, thence a line runs at bearing	356.94777	for	16.83	meters, to a point
Latitude - 681353.4657	Longitude - 454217.4393	, thence a line runs at bearing	87.383676	for	19.57	meters, to a point
Latitude - 681352.5723	Longitude - 454197.8878	, thence a line runs at bearing	45.898872	for	22.18	meters, to a point
Latitude - 681337.1388	Longitude - 454181.9623	, thence a line runs at bearing	353.36442	for	43.00	meters, to a point
Latitude - 681294.4318	Longitude - 454186.9305	, thence a line runs at bearing	7.1754158	for	21.98	meters, to a point
Latitude - 681272.6281	Longitude - 454184.1856	, thence a line runs at bearing	90.044475	for	23.64	meters, to a point
Latitude - 681272.6464	Longitude - 454160.5427	, thence a line runs at bearing	116.2573	for	34.97	meters, to a point
Latitude - 681288.1166	Longitude - 454129.1823	, thence a line runs at bearing	123.71233	for	32.78	meters, to a point

Latitude -	681306.3094	Longitude -	454101.9161	, thence a line runs at bearing	130.25712	for	38.70	meters, to a point
Latitude -	681331.3182	Longitude -	454072.3819	, thence a line runs at bearing	109.75156	for	51.19	meters, to a point
Latitude -	681348.6187	Longitude -	454024.2001	, thence a line runs at bearing	116.59041	for	33.54	meters, to a point
Latitude -	681363.6336	Longitude -	453994.2035	, thence a line runs at bearing	130.52371	for	28.69	meters, to a point
Latitude -	681382.2765	Longitude -	453972.3938	, thence a line runs at bearing	113.98929	for	22.39	meters, to a point
Latitude -	681391.3782	Longitude -	453951.9407	, thence a line runs at bearing	136.32259	for	28.29	meters, to a point
Latitude -	681411.8365	Longitude -	453932.4058	, thence a line runs at bearing	153.14716	for	37.19	meters, to a point
Latitude -	681445.0127	Longitude -	453915.6089	, thence a line runs at bearing	166.252	for	24.79	meters, to a point
Latitude -	681469.0946	Longitude -	453909.7169	, thence a line runs at bearing	128.06845	for	26.55	meters, to a point
Latitude -	681485.4654	Longitude -	453888.8149	, thence a line runs at bearing	68.465912	for	23.47	meters, to a point
Latitude -	681476.8509	Longitude -	453866.984	, thence a line runs at bearing	32.640673	for	19.41	meters, to a point
Latitude -	681460.5047	Longitude -	453856.5137	, thence a line runs at bearing	30.867414	for	27.51	meters, to a point
Latitude -	681436.8927	Longitude -	453842.4005	, thence a line runs at bearing	15.24282	for	32.95	meters, to a point
Latitude -	681405.0992	Longitude -	453833.7369	, thence a line runs at bearing	342.21187	for	40.09	meters, to a point
Latitude -	681366.9293	Longitude -	453845.9832	, thence a line runs at bearing	336.64199	for	36.63	meters, to a point
Latitude -	681333.3006	Longitude -	453860.5064	, thence a line runs at bearing	345.66859	for	38.46	meters, to a point
Latitude -	681296.0414	Longitude -	453870.0254	, thence a line runs at bearing	338.99107	for	31.64	meters, to a point
Latitude -	681266.5038	Longitude -	453881.3691	, thence a line runs at bearing	309.25844	for	35.21	meters, to a point
Latitude -	681244.2223	Longitude -	453908.632	, thence a line runs at bearing	300.19724	for	22.61	meters, to a point
Latitude -	681232.8498	Longitude -	453928.1741	, thence a line runs at bearing	303.411	for	23.95	meters, to a point
Latitude -	681219.6598	Longitude -	453948.1694	, thence a line runs at bearing	292.05091	for	43.65	meters, to a point
Latitude -	681203.2739	Longitude -	453988.6225	, thence a line runs at bearing	304.89728	for	18.28	meters, to a point
Latitude -	681192.8136	Longitude -	454003.6185	, thence a line runs at bearing	356.67533	for	30.95	meters, to a point
Latitude -	681161.9205	Longitude -	454005.4132	, thence a line runs at bearing	33.29854	for	15.75	meters, to a point
Latitude -	681148.7529	Longitude -	453996.7641	, thence a line runs at bearing	73.199686	for	31.35	meters, to a point
Latitude -	681139.6905	Longitude -	453966.7486	, thence a line runs at bearing	91.679872	for	31.84	meters, to a point
Latitude -	681140.6239	Longitude -	453934.9222	, thence a line runs at bearing	71.39248	for	35.51	meters, to a point
Latitude -	681129.2929	Longitude -	453901.2676	, thence a line runs at bearing	78.165837	for	26.48	meters, to a point
Latitude -	681123.8617	Longitude -	453875.3469	, thence a line runs at bearing	92.364339	for	33.67	meters, to a point
Latitude -	681125.2508	Longitude -	453841.7022	, thence a line runs at bearing	71.089283	for	30.77	meters, to a point
Latitude -	681115.2792	Longitude -	453812.5953	, thence a line runs at bearing	71.624398	for	18.69	meters, to a point
Latitude -	681109.3873	Longitude -	453794.8584	, thence a line runs at bearing	73.427175	for	36.54	meters, to a point
Latitude -	681098.9661	Longitude -	453759.8404	, thence a line runs at bearing	82.329503	for	27.07	meters, to a point
Latitude -	681095.3528	Longitude -	453733.0118	, thence a line runs at bearing	86.182696	for	33.72	meters, to a point
Latitude -	681093.1077	Longitude -	453699.3642	, thence a line runs at bearing	75.756252	for	25.93	meters, to a point

Latitude -	681234.8732	Longitude -	453089.3043	, thence a line runs at bearing	32.602522	for	31.26	meters, to a point
Latitude -	681208.5378	Longitude -	453072.4605	, thence a line runs at bearing	26.992752	for	32.11	meters, to a point
Latitude -	681179.9291	Longitude -	453057.8882	, thence a line runs at bearing	307.48272	for	44.09	meters, to a point
Latitude -	681153.0982	Longitude -	453092.8767	, thence a line runs at bearing	300.74314	for	36.49	meters, to a point
Latitude -	681134.4475	Longitude -	453124.2344	, thence a line runs at bearing	327.95628	for	44.51	meters, to a point
Latitude -	681096.7227	Longitude -	453147.8475	, thence a line runs at bearing	334.42436	for	24.18	meters, to a point
Latitude -	681074.9085	Longitude -	453158.2877	, thence a line runs at bearing	342.58437	for	33.34	meters, to a point
Latitude -	681043.1003	Longitude -	453168.2653	, thence a line runs at bearing	343.88813	for	17.97	meters, to a point
Latitude -	681025.8334	Longitude -	453173.2531	, thence a line runs at bearing	343.23361	for	25.15	meters, to a point
Latitude -	681001.7503	Longitude -	453180.5088	, thence a line runs at bearing	324.08021	for	22.45	meters, to a point
Latitude -	680983.5682	Longitude -	453193.6799	, thence a line runs at bearing	325.03054	for	33.28	meters, to a point
Latitude -	680956.2958	Longitude -	453212.7547	, thence a line runs at bearing	335.92502	for	18.91	meters, to a point
Latitude -	680939.0266	Longitude -	453220.4705	, thence a line runs at bearing	348.72609	for	16.22	meters, to a point
Latitude -	680923.124	Longitude -	453223.6406	, thence a line runs at bearing	37.16162	for	23.36	meters, to a point
Latitude -	680904.5093	Longitude -	453209.5309	, thence a line runs at bearing	54.850721	for	18.92	meters, to a point
Latitude -	680893.6186	Longitude -	453194.0633	, thence a line runs at bearing	65.619783	for	21.97	meters, to a point
Latitude -	680884.5487	Longitude -	453174.0504	, thence a line runs at bearing	61.455427	for	28.48	meters, to a point
Latitude -	680870.9398	Longitude -	453149.0325	, thence a line runs at bearing	48.601909	for	26.08	meters, to a point
Latitude -	680853.6923	Longitude -	453129.4677	, thence a line runs at bearing	33.43421	for	22.31	meters, to a point
Latitude -	680835.0762	Longitude -	453117.1767	, thence a line runs at bearing	27.364903	for	15.85	meters, to a point
Latitude -	680820.999	Longitude -	453109.8907	, thence a line runs at bearing	41.703225	for	16.42	meters, to a point
Latitude -	680808.7419	Longitude -	453098.9687	, thence a line runs at bearing	82.745871	for	17.88	meters, to a point
Latitude -	680806.4845	Longitude -	453081.2346	, thence a line runs at bearing	139.92058	for	22.58	meters, to a point
Latitude -	680823.7591	Longitude -	453066.6987	, thence a line runs at bearing	152.95369	for	22.96	meters, to a point
Latitude -	680844.2104	Longitude -	453056.2574	, thence a line runs at bearing	119.22228	for	17.71	meters, to a point
Latitude -	680852.8542	Longitude -	453040.8052	, thence a line runs at bearing	126.89207	for	18.18	meters, to a point
Latitude -	680863.7687	Longitude -	453026.2643	, thence a line runs at bearing	79.749279	for	10.17	meters, to a point
Latitude -	680861.9595	Longitude -	453016.26	, thence a line runs at bearing	39.875098	for	21.30	meters, to a point
Latitude -	680845.6159	Longitude -	453002.6067	, thence a line runs at bearing	22.44288	for	16.71	meters, to a point
Latitude -	680830.1751	Longitude -	452996.2289	, thence a line runs at bearing	35.28615	for	18.91	meters, to a point
Latitude -	680814.738	Longitude -	452985.3044	, thence a line runs at bearing	66.006399	for	27.88	meters, to a point
Latitude -	680803.401	Longitude -	452959.8335	, thence a line runs at bearing	68.725296	for	31.24	meters, to a point
Latitude -	680792.0669	Longitude -	452930.7252	, thence a line runs at bearing	70.558544	for	23.15	meters, to a point
Latitude -	680784.3614	Longitude -	452908.8946	, thence a line runs at bearing	67.189482	for	31.58	meters, to a point
Latitude -	680772.1188	Longitude -	452879.7855	, thence a line runs at bearing	86.396582	for	21.41	meters, to a point

Latitude - 681087.2201	Longitude - 453676.1712	, thence a line runs at bearing	105.36588	for	29.23	meters, to a point
Latitude - 681094.9652	Longitude - 453647.9875	, thence a line runs at bearing	110.5851	for	27.19	meters, to a point
Latitude - 681104.5252	Longitude - 453622.5333	, thence a line runs at bearing	95.866452	for	22.39	meters, to a point
Latitude - 681106.8142	Longitude - 453600.256	, thence a line runs at bearing	65.199808	for	20.54	meters, to a point
Latitude - 681098.1973	Longitude - 453581.6076	, thence a line runs at bearing	51.979812	for	21.37	meters, to a point
Latitude - 681085.0362	Longitude - 453564.7744	, thence a line runs at bearing	48.800491	for	29.63	meters, to a point
Latitude - 681065.5192	Longitude - 453542.48	, thence a line runs at bearing	33.757536	for	19.66	meters, to a point
Latitude - 681049.1734	Longitude - 453531.5549	, thence a line runs at bearing	29.233354	for	22.38	meters, to a point
Latitude - 681029.6476	Longitude - 453520.6274	, thence a line runs at bearing	38.922187	for	21.01	meters, to a point
Latitude - 681013.3035	Longitude - 453507.429	, thence a line runs at bearing	108.83019	for	22.57	meters, to a point
Latitude - 681020.589	Longitude - 453486.065	, thence a line runs at bearing	118.39389	for	25.83	meters, to a point
Latitude - 681032.8727	Longitude - 453463.341	, thence a line runs at bearing	126.14139	for	20.82	meters, to a point
Latitude - 681045.1518	Longitude - 453446.5277	, thence a line runs at bearing	119.3822	for	16.69	meters, to a point
Latitude - 681053.3405	Longitude - 453431.9846	, thence a line runs at bearing	141.48036	for	34.28	meters, to a point
Latitude - 681080.1604	Longitude - 453410.636	, thence a line runs at bearing	131.20711	for	24.16	meters, to a point
Latitude - 681096.0748	Longitude - 453392.4616	, thence a line runs at bearing	117.0762	for	23.99	meters, to a point
Latitude - 681106.9946	Longitude - 453371.1006	, thence a line runs at bearing	58.881735	for	20.19	meters, to a point
Latitude - 681096.5596	Longitude - 453353.8147	, thence a line runs at bearing	43.279544	for	20.58	meters, to a point
Latitude - 681081.5792	Longitude - 453339.708	, thence a line runs at bearing	71.976131	for	23.43	meters, to a point
Latitude - 681074.3282	Longitude - 453317.4232	, thence a line runs at bearing	122.57331	for	25.35	meters, to a point
Latitude - 681087.9738	Longitude - 453296.0643	, thence a line runs at bearing	155.48927	for	22.98	meters, to a point
Latitude - 681108.8786	Longitude - 453286.5327	, thence a line runs at bearing	172.18546	for	26.60	meters, to a point
Latitude - 681135.2303	Longitude - 453282.9162	, thence a line runs at bearing	174.09347	for	21.92	meters, to a point
Latitude - 681157.038	Longitude - 453280.6601	, thence a line runs at bearing	173.27349	for	26.99	meters, to a point
Latitude - 681183.8436	Longitude - 453277.4986	, thence a line runs at bearing	177.92245	for	24.55	meters, to a point
Latitude - 681208.3759	Longitude - 453276.6086	, thence a line runs at bearing	176.32692	for	35.05	meters, to a point
Latitude - 681243.358	Longitude - 453274.3629	, thence a line runs at bearing	176.32693	for	35.05	meters, to a point
Latitude - 681278.34	Longitude - 453272.1173	, thence a line runs at bearing	127.20682	for	33.09	meters, to a point
Latitude - 681298.3496	Longitude - 453245.7621	, thence a line runs at bearing	103.42702	for	29.44	meters, to a point
Latitude - 681305.1867	Longitude - 453217.1231	, thence a line runs at bearing	111.5304	for	32.25	meters, to a point
Latitude - 681317.022	Longitude - 453187.1241	, thence a line runs at bearing	98.952986	for	23.47	meters, to a point
Latitude - 681320.6747	Longitude - 453163.9388	, thence a line runs at bearing	72.665908	for	39.54	meters, to a point
Latitude - 681308.8931	Longitude - 453126.1916	, thence a line runs at bearing	32.414766	for	32.27	meters, to a point
Latitude - 681281.6495	Longitude - 453108.8924	, thence a line runs at bearing	21.255845	for	23.88	meters, to a point
Latitude - 681259.3962	Longitude - 453100.2359	, thence a line runs at bearing	24.025946	for	26.85	meters, to a point

Latitude - 680770.773	Longitude - 452858.4146	, thence a line runs at bearing	143.1524	for	15.91	meters, to a point
Latitude - 680783.5007	Longitude - 452848.8766	, thence a line runs at bearing	153.46115	for	13.21	meters, to a point
Latitude - 680795.3169	Longitude - 452842.9752	, thence a line runs at bearing	160.59039	for	16.38	meters, to a point
Latitude - 680810.7671	Longitude - 452837.5314	, thence a line runs at bearing	152.12831	for	26.22	meters, to a point
Latitude - 680833.9457	Longitude - 452825.2737	, thence a line runs at bearing	180.04575	for	26.80	meters, to a point
Latitude - 680860.7488	Longitude - 452825.2951	, thence a line runs at bearing	173.70023	for	12.34	meters, to a point
Latitude - 680873.0157	Longitude - 452823.9409	, thence a line runs at bearing	171.79252	for	31.67	meters, to a point
Latitude - 680904.3653	Longitude - 452819.4191	, thence a line runs at bearing	161.28962	for	26.87	meters, to a point
Latitude - 680929.8124	Longitude - 452810.8006	, thence a line runs at bearing	164.08752	for	16.54	meters, to a point
Latitude - 680945.7162	Longitude - 452806.2666	, thence a line runs at bearing	155.16353	for	20.53	meters, to a point
Latitude - 680964.3489	Longitude - 452797.6426	, thence a line runs at bearing	151.88398	for	22.16	meters, to a point
Latitude - 680983.8917	Longitude - 452787.2007	, thence a line runs at bearing	148.1159	for	28.37	meters, to a point
Latitude - 681007.9811	Longitude - 452772.2157	, thence a line runs at bearing	164.68329	for	24.03	meters, to a point
Latitude - 681031.1549	Longitude - 452765.8688	, thence a line runs at bearing	144.36751	for	25.73	meters, to a point
Latitude - 681052.0642	Longitude - 452750.8812	, thence a line runs at bearing	151.95321	for	30.90	meters, to a point
Latitude - 681079.3333	Longitude - 452736.3535	, thence a line runs at bearing	138.38826	for	27.36	meters, to a point
Latitude - 681099.7908	Longitude - 452718.1829	, thence a line runs at bearing	120.78731	for	22.22	meters, to a point
Latitude - 681111.1634	Longitude - 452699.0957	, thence a line runs at bearing	119.53663	for	27.68	meters, to a point
Latitude - 681124.8114	Longitude - 452675.0089	, thence a line runs at bearing	117.4337	for	13.83	meters, to a point
Latitude - 681131.1813	Longitude - 452662.7378	, thence a line runs at bearing	112.13851	for	15.70	meters, to a point
Latitude - 681137.0987	Longitude - 452648.1929	, thence a line runs at bearing	94.727914	for	27.83	meters, to a point
Latitude - 681139.3924	Longitude - 452620.4597	, thence a line runs at bearing	61.924514	for	22.17	meters, to a point
Latitude - 681128.9594	Longitude - 452600.9003	, thence a line runs at bearing	47.423433	for	23.48	meters, to a point
Latitude - 681113.0731	Longitude - 452583.6099	, thence a line runs at bearing	58.30822	for	22.45	meters, to a point
Latitude - 681101.277	Longitude - 452564.5041	, thence a line runs at bearing	60.085366	for	27.29	meters, to a point
Latitude - 681087.6673	Longitude - 452540.8501	, thence a line runs at bearing	50.481736	for	30.67	meters, to a point
Latitude - 681068.1518	Longitude - 452517.1914	, thence a line runs at bearing	60.756771	for	29.72	meters, to a point
Latitude - 681053.6354	Longitude - 452491.2632	, thence a line runs at bearing	69.667073	for	37.83	meters, to a point
Latitude - 681040.4895	Longitude - 452455.788	, thence a line runs at bearing	70.262723	for	36.24	meters, to a point
Latitude - 681028.2512	Longitude - 452421.6776	, thence a line runs at bearing	64.122967	for	37.41	meters, to a point
Latitude - 681011.9238	Longitude - 452388.0184	, thence a line runs at bearing	70.302184	for	49.76	meters, to a point
Latitude - 680995.1529	Longitude - 452341.1734	, thence a line runs at bearing	55.272977	for	32.66	meters, to a point
Latitude - 680976.5487	Longitude - 452314.3325	, thence a line runs at bearing	58.739155	for	36.72	meters, to a point
Latitude - 680957.4938	Longitude - 452282.9445	, thence a line runs at bearing	45.070598	for	19.28	meters, to a point
Latitude - 680943.8762	Longitude - 452269.2932	, thence a line runs at bearing	54.706791	for	17.28	meters, to a point

Latitude -	680933.8932	Longitude -	452255.1902	- thence a line runs at bearing	48.436921	for	16.42	meters, to a point
Latitude -	680923.0001	Longitude -	452242.9052	- thence a line runs at bearing	52.765834	for	24.00	meters, to a point
Latitude -	680908.4783	Longitude -	452223.797	- thence a line runs at bearing	92.054203	for	25.93	meters, to a point
Latitude -	680909.4079	Longitude -	452197.8813	- thence a line runs at bearing	111.34782	for	20.01	meters, to a point
Latitude -	680916.6916	Longitude -	452179.2454	- thence a line runs at bearing	109.16498	for	23.58	meters, to a point
Latitude -	680924.4325	Longitude -	452156.9726	- thence a line runs at bearing	103.79596	for	22.94	meters, to a point
Latitude -	680929.9021	Longitude -	452134.6979	- thence a line runs at bearing	108.4668	for	24.44	meters, to a point
Latitude -	680937.6438	Longitude -	452111.5157	- thence a line runs at bearing	103.36008	for	17.75	meters, to a point
Latitude -	680941.7464	Longitude -	452094.2413	- thence a line runs at bearing	87.757812	for	22.75	meters, to a point
Latitude -	680940.8563	Longitude -	452071.5068	- thence a line runs at bearing	79.750203	for	25.42	meters, to a point
Latitude -	680936.3337	Longitude -	452046.496	- thence a line runs at bearing	77.376552	for	18.64	meters, to a point
Latitude -	680932.2598	Longitude -	452028.3056	- thence a line runs at bearing	58.063011	for	12.87	meters, to a point
Latitude -	680925.4543	Longitude -	452017.3879	- thence a line runs at bearing	8.1834452	for	12.85	meters, to a point
Latitude -	680912.7357	Longitude -	452015.5588	- thence a line runs at bearing	26.63107	for	18.29	meters, to a point
Latitude -	680896.3879	Longitude -	452007.3614	- thence a line runs at bearing	343.33389	for	18.97	meters, to a point
Latitude -	680878.2119	Longitude -	452012.8027	- thence a line runs at bearing	344.93318	for	29.65	meters, to a point
Latitude -	680849.5853	Longitude -	452020.509	- thence a line runs at bearing	333.46198	for	17.27	meters, to a point
Latitude -	680834.1332	Longitude -	452028.226	- thence a line runs at bearing	336.83027	for	20.76	meters, to a point
Latitude -	680815.0464	Longitude -	452036.3946	- thence a line runs at bearing	5.6234273	for	18.71	meters, to a point
Latitude -	680796.422	Longitude -	452034.5608	- thence a line runs at bearing	61.361105	for	21.77	meters, to a point
Latitude -	680785.9888	Longitude -	452015.4559	- thence a line runs at bearing	92.646894	for	20.03	meters, to a point
Latitude -	680786.9137	Longitude -	451995.4509	- thence a line runs at bearing	137.4082	for	15.44	meters, to a point
Latitude -	680798.2794	Longitude -	451985.0025	- thence a line runs at bearing	167.04126	for	24.24	meters, to a point
Latitude -	680821.9069	Longitude -	451979.5656	- thence a line runs at bearing	175.64414	for	23.69	meters, to a point
Latitude -	680845.5315	Longitude -	451977.7661	- thence a line runs at bearing	162.93015	for	24.72	meters, to a point
Latitude -	680869.1604	Longitude -	451970.5105	- thence a line runs at bearing	163.14626	for	26.59	meters, to a point
Latitude -	680894.607	Longitude -	451962.8017	- thence a line runs at bearing	165.29104	for	17.85	meters, to a point
Latitude -	680911.8737	Longitude -	451958.269	- thence a line runs at bearing	153.46208	for	17.27	meters, to a point
Latitude -	680927.3258	Longitude -	451950.552	- thence a line runs at bearing	156.83041	for	20.76	meters, to a point
Latitude -	680946.4127	Longitude -	451942.3834	- thence a line runs at bearing	150.42128	for	22.99	meters, to a point
Latitude -	680966.4107	Longitude -	451931.0328	- thence a line runs at bearing	141.09534	for	30.38	meters, to a point
Latitude -	680990.0493	Longitude -	451911.9556	- thence a line runs at bearing	117.05786	for	25.01	meters, to a point
Latitude -	681001.4247	Longitude -	451889.6858	- thence a line runs at bearing	103.5314	for	23.38	meters, to a point
Latitude -	681006.8947	Longitude -	451866.9565	- thence a line runs at bearing	95.23676	for	25.11	meters, to a point
Latitude -	681009.1865	Longitude -	451841.9512	- thence a line runs at bearing	85.905601	for	31.45	meters, to a point

Latitude - 681006.9406	Longitude - 451810.5768	. thence a line runs at bearing	90.046766	for	15.91	meters, to a point
Latitude - 681006.9536	Longitude - 451794.6631	. thence a line runs at bearing	85.813932	for	12.31	meters, to a point
Latitude - 681006.0551	Longitude - 451782.3861	. thence a line runs at bearing	126.40796	for	21.46	meters, to a point
Latitude - 681018.7893	Longitude - 451765.1189	. thence a line runs at bearing	132.42005	for	14.16	meters, to a point
Latitude - 681028.3379	Longitude - 451754.6691	. thence a line runs at bearing	129.23025	for	22.29	meters, to a point
Latitude - 681042.435	Longitude - 451737.403	. thence a line runs at bearing	137.51222	for	22.19	meters, to a point
Latitude - 681058.8017	Longitude - 451722.4121	. thence a line runs at bearing	146.33438	for	24.58	meters, to a point
Latitude - 681079.256	Longitude - 451708.7886	. thence a line runs at bearing	141.3634	for	23.28	meters, to a point
Latitude - 681097.4395	Longitude - 451694.2538	. thence a line runs at bearing	150.97168	for	14.03	meters, to a point
Latitude - 681109.7109	Longitude - 451687.4437	. thence a line runs at bearing	169.49897	for	19.87	meters, to a point
Latitude - 681129.2483	Longitude - 451683.8223	. thence a line runs at bearing	170.5767	for	16.58	meters, to a point
Latitude - 681145.605	Longitude - 451681.1077	. thence a line runs at bearing	178.74383	for	19.99	meters, to a point
Latitude - 681165.5941	Longitude - 451680.6694	. thence a line runs at bearing	182.29452	for	23.19	meters, to a point
Latitude - 681188.7622	Longitude - 451681.5977	. thence a line runs at bearing	174.72787	for	19.62	meters, to a point
Latitude - 681208.2981	Longitude - 451679.7949	. thence a line runs at bearing	185.24568	for	20.07	meters, to a point
Latitude - 681228.2854	Longitude - 451681.63	. thence a line runs at bearing	182.20979	for	24.09	meters, to a point
Latitude - 681252.362	Longitude - 451682.5591	. thence a line runs at bearing	142.14848	for	15.54	meters, to a point
Latitude - 681264.6357	Longitude - 451673.0209	. thence a line runs at bearing	131.57555	for	26.72	meters, to a point
Latitude - 681282.3694	Longitude - 451653.0298	. thence a line runs at bearing	108.95675	for	16.82	meters, to a point
Latitude - 681287.8339	Longitude - 451637.1207	. thence a line runs at bearing	74.257084	for	25.04	meters, to a point
Latitude - 681281.0393	Longitude - 451613.0175	. thence a line runs at bearing	68.388894	for	38.16	meters, to a point
Latitude - 681266.9854	Longitude - 451577.5414	. thence a line runs at bearing	71.09144	for	15.38	meters, to a point
Latitude - 681262.0001	Longitude - 451562.9878	. thence a line runs at bearing	90.047006	for	16.82	meters, to a point
Latitude - 681262.0139	Longitude - 451546.1649	. thence a line runs at bearing	122.49635	for	23.71	meters, to a point
Latitude - 681274.7505	Longitude - 451526.1697	. thence a line runs at bearing	159.07513	for	22.87	meters, to a point
Latitude - 681296.1088	Longitude - 451518.0031	. thence a line runs at bearing	168.72784	for	25.48	meters, to a point
Latitude - 681321.0989	Longitude - 451513.0222	. thence a line runs at bearing	181.10887	for	24.54	meters, to a point
Latitude - 681345.6302	Longitude - 451513.497	. thence a line runs at bearing	126.89382	for	18.18	meters, to a point
Latitude - 681356.5451	Longitude - 451498.9564	. thence a line runs at bearing	104.9665	for	14.12	meters, to a point
Latitude - 681360.1906	Longitude - 451485.3193	. thence a line runs at bearing	79.271655	for	19.44	meters, to a point
Latitude - 681356.572	Longitude - 451466.22	. thence a line runs at bearing	72.957934	for	24.74	meters, to a point
Latitude - 681349.3228	Longitude - 451442.5711	. thence a line runs at bearing	42.507381	for	21.55	meters, to a point
Latitude - 681333.4346	Longitude - 451428.0084	. thence a line runs at bearing	62.74293	for	30.70	meters, to a point
Latitude - 681319.3741	Longitude - 451400.7165	. thence a line runs at bearing	53.971861	for	27.00	meters, to a point
Latitude - 681303.4919	Longitude - 451378.8791	. thence a line runs at bearing	32.804384	for	22.69	meters, to a point

Latitude - 681284.4218	Longitude - 451366.5872	, thence a line runs at bearing	30.447393	for	15.27	meters, to a point
Latitude - 681271.2538	Longitude - 451358.8469	, thence a line runs at bearing	26.631581	for	15.24	meters, to a point
Latitude - 681257.6307	Longitude - 451352.0156	, thence a line runs at bearing	7.9070668	for	26.60	meters, to a point
Latitude - 681231.2848	Longitude - 451348.3565	, thence a line runs at bearing	5.5793886	for	28.30	meters, to a point
Latitude - 681203.1211	Longitude - 451345.6052	, thence a line runs at bearing	37.546751	for	17.18	meters, to a point
Latitude - 681189.501	Longitude - 451335.1365	, thence a line runs at bearing	49.645035	for	16.12	meters, to a point
Latitude - 681179.0624	Longitude - 451322.8517	, thence a line runs at bearing	83.343011	for	15.57	meters, to a point
Latitude - 681177.258	Longitude - 451307.3912	, thence a line runs at bearing	142.87726	for	18.81	meters, to a point
Latitude - 681192.259	Longitude - 451296.0368	, thence a line runs at bearing	116.59298	for	26.43	meters, to a point
Latitude - 681204.09	Longitude - 451272.4035	, thence a line runs at bearing	116.593	for	30.50	meters, to a point
Latitude - 681217.7412	Longitude - 451245.1343	, thence a line runs at bearing	114.40562	for	31.94	meters, to a point
Latitude - 681230.9397	Longitude - 451216.046	, thence a line runs at bearing	120.3499	for	27.91	meters, to a point
Latitude - 681245.0426	Longitude - 451191.96	, thence a line runs at bearing	116.59311	for	36.59	meters, to a point
Latitude - 681261.4241	Longitude - 451159.237	, thence a line runs at bearing	128.68366	for	26.19	meters, to a point
Latitude - 681277.7955	Longitude - 451138.7902	, thence a line runs at bearing	125.08416	for	31.65	meters, to a point
Latitude - 681295.9886	Longitude - 451112.8889	, thence a line runs at bearing	136.24222	for	30.21	meters, to a point
Latitude - 681317.8119	Longitude - 451091.9919	, thence a line runs at bearing	135.48172	for	40.17	meters, to a point
Latitude - 681346.4555	Longitude - 451063.8259	, thence a line runs at bearing	140.93005	for	28.11	meters, to a point
Latitude - 681368.2762	Longitude - 451046.1118	, thence a line runs at bearing	150.28187	for	25.64	meters, to a point
Latitude - 681390.5469	Longitude - 451033.3994	, thence a line runs at bearing	167.04236	for	30.31	meters, to a point
Latitude - 681420.0815	Longitude - 451026.6038	, thence a line runs at bearing	170.79379	for	39.58	meters, to a point
Latitude - 681459.1558	Longitude - 451020.2708	, thence a line runs at bearing	163.77441	for	22.72	meters, to a point
Latitude - 681480.967	Longitude - 451013.9235	, thence a line runs at bearing	149.3758	for	28.52	meters, to a point
Latitude - 681505.5107	Longitude - 450999.3944	, thence a line runs at bearing	145.10562	for	29.37	meters, to a point
Latitude - 681529.6021	Longitude - 450982.5915	, thence a line runs at bearing	143.41752	for	19.81	meters, to a point
Latitude - 681545.5121	Longitude - 450970.7832	, thence a line runs at bearing	150.82965	for	17.70	meters, to a point
Latitude - 681560.9652	Longitude - 450962.1573	, thence a line runs at bearing	121.50309	for	26.12	meters, to a point
Latitude - 681574.6124	Longitude - 450939.8897	, thence a line runs at bearing	90.956259	for	28.65	meters, to a point
Latitude - 681575.0905	Longitude - 450911.2458	, thence a line runs at bearing	77.30047	for	24.71	meters, to a point
Latitude - 681569.6591	Longitude - 450887.1437	, thence a line runs at bearing	54.903857	for	24.47	meters, to a point
Latitude - 681555.5927	Longitude - 450867.1264	, thence a line runs at bearing	3.8649557	for	20.49	meters, to a point
Latitude - 681535.1508	Longitude - 450865.7454	, thence a line runs at bearing	341.97306	for	21.98	meters, to a point
Latitude - 681514.2477	Longitude - 450872.5481	, thence a line runs at bearing	343.69866	for	27.46	meters, to a point
Latitude - 681487.8924	Longitude - 450880.2556	, thence a line runs at bearing	322.39818	for	27.54	meters, to a point
Latitude - 681466.0725	Longitude - 450897.0603	, thence a line runs at bearing	327.43323	for	32.90	meters, to a point

Latitude -	681438.346	Longitude -	450914.7695	. thence a line runs at bearing	335.21509	for	46.55	meters, to a point
Latitude -	681396.0807	Longitude -	450934.2853	. thence a line runs at bearing	337.50999	for	40.33	meters, to a point
Latitude -	681358.8161	Longitude -	450949.7132	. thence a line runs at bearing	345.10418	for	21.16	meters, to a point
Latitude -	681338.3685	Longitude -	450955.1523	. thence a line runs at bearing	358.68252	for	19.09	meters, to a point
Latitude -	681319.2879	Longitude -	450955.5911	. thence a line runs at bearing	13.052791	for	24.25	meters, to a point
Latitude -	681295.6693	Longitude -	450950.1154	. thence a line runs at bearing	42.345335	for	13.51	meters, to a point
Latitude -	681285.6825	Longitude -	450941.0136	. thence a line runs at bearing	85.28798	for	27.37	meters, to a point
Latitude -	681283.4337	Longitude -	450913.7313	. thence a line runs at bearing	97.537266	for	34.85	meters, to a point
Latitude -	681288.0053	Longitude -	450879.1799	. thence a line runs at bearing	113.70048	for	36.24	meters, to a point
Latitude -	681302.5703	Longitude -	450846.0008	. thence a line runs at bearing	151.67257	for	32.53	meters, to a point
Latitude -	681331.2034	Longitude -	450830.5658	. thence a line runs at bearing	138.23925	for	28.65	meters, to a point
Latitude -	681352.571	Longitude -	450811.4873	. thence a line runs at bearing	158.99408	for	25.31	meters, to a point
Latitude -	681376.2017	Longitude -	450802.4135	. thence a line runs at bearing	164.86266	for	27.77	meters, to a point
Latitude -	681403.0109	Longitude -	450795.1611	. thence a line runs at bearing	146.33547	for	31.13	meters, to a point
Latitude -	681428.9199	Longitude -	450777.9051	. thence a line runs at bearing	131.65744	for	38.31	meters, to a point
Latitude -	681454.384	Longitude -	450749.282	. thence a line runs at bearing	124.35562	for	22.57	meters, to a point
Latitude -	681467.1197	Longitude -	450730.651	. thence a line runs at bearing	111.06924	for	31.66	meters, to a point
Latitude -	681478.5017	Longitude -	450701.1068	. thence a line runs at bearing	80.782906	for	22.57	meters, to a point
Latitude -	681474.886	Longitude -	450678.8249	. thence a line runs at bearing	58.69626	for	21.83	meters, to a point
Latitude -	681463.5443	Longitude -	450660.1738	. thence a line runs at bearing	28.368747	for	26.84	meters, to a point
Latitude -	681439.9318	Longitude -	450647.4232	. thence a line runs at bearing	26.213797	for	27.84	meters, to a point
Latitude -	681414.9561	Longitude -	450635.1262	. thence a line runs at bearing	16.409108	for	35.51	meters, to a point
Latitude -	681380.8926	Longitude -	450625.0949	. thence a line runs at bearing	10.361257	for	45.71	meters, to a point
Latitude -	681335.9247	Longitude -	450616.8731	. thence a line runs at bearing	43.026587	for	18.01	meters, to a point
Latitude -	681322.7606	Longitude -	450604.5859	. thence a line runs at bearing	81.471447	for	24.37	meters, to a point
Latitude -	681319.1464	Longitude -	450580.4852	. thence a line runs at bearing	31.935581	for	19.80	meters, to a point
Latitude -	681302.3464	Longitude -	450570.0136	. thence a line runs at bearing	27.767319	for	20.53	meters, to a point
Latitude -	681284.1828	Longitude -	450560.4503	. thence a line runs at bearing	90.047984	for	10.00	meters, to a point
Latitude -	681284.1911	Longitude -	450550.4475	. thence a line runs at bearing	131.52051	for	15.78	meters, to a point
Latitude -	681294.6497	Longitude -	450538.6347	. thence a line runs at bearing	142.27783	for	17.82	meters, to a point
Latitude -	681308.7419	Longitude -	450527.7343	. thence a line runs at bearing	149.68372	for	21.59	meters, to a point
Latitude -	681327.3769	Longitude -	450516.8378	. thence a line runs at bearing	145.58654	for	19.28	meters, to a point
Latitude -	681343.2863	Longitude -	450505.9389	. thence a line runs at bearing	123.71586	for	19.67	meters, to a point
Latitude -	681354.203	Longitude -	450489.5798	. thence a line runs at bearing	134.23914	for	23.46	meters, to a point
Latitude -	681370.5716	Longitude -	450472.7707	. thence a line runs at bearing	128.44266	for	16.82	meters, to a point

Latitude - 681381.0313	Longitude - 450459.5939	, thence a line runs at bearing	125.93493	for	16.27	meters, to a point
Latitude - 681390.5825	Longitude - 450446.4164	, thence a line runs at bearing	88.580537	for	17.74	meters, to a point
Latitude - 681390.1431	Longitude - 450428.6838	, thence a line runs at bearing	108.91946	for	18.26	meters, to a point
Latitude - 681396.0634	Longitude - 450411.4111	, thence a line runs at bearing	90.048141	for	25.01	meters, to a point
Latitude - 681396.0844	Longitude - 450386.4041	, thence a line runs at bearing	56.380333	for	31.14	meters, to a point
Latitude - 681378.8431	Longitude - 450360.4733	, thence a line runs at bearing	33.411026	for	20.67	meters, to a point
Latitude - 681361.5896	Longitude - 450349.0919	, thence a line runs at bearing	357.81514	for	35.01	meters, to a point
Latitude - 681326.6081	Longitude - 450350.4265	, thence a line runs at bearing	354.94174	for	25.54	meters, to a point
Latitude - 681301.1659	Longitude - 450352.6785	, thence a line runs at bearing	353.04107	for	26.09	meters, to a point
Latitude - 681275.2686	Longitude - 450355.8394	, thence a line runs at bearing	0.0481716	for	36.34	meters, to a point
Latitude - 681238.9254	Longitude - 450355.8089	, thence a line runs at bearing	33.760562	for	11.47	meters, to a point
Latitude - 681229.3906	Longitude - 450349.4354	, thence a line runs at bearing	84.226728	for	22.39	meters, to a point
Latitude - 681227.1379	Longitude - 450327.1545	, thence a line runs at bearing	58.064554	for	17.15	meters, to a point
Latitude - 681218.0643	Longitude - 450312.5972	, thence a line runs at bearing	46.153298	for	17.04	meters, to a point
Latitude - 681206.2631	Longitude - 450300.3111	, thence a line runs at bearing	56.959021	for	24.96	meters, to a point
Latitude - 681192.652	Longitude - 450279.3846	, thence a line runs at bearing	115.23075	for	25.62	meters, to a point
Latitude - 681203.5745	Longitude - 450256.2054	, thence a line runs at bearing	142.29988	for	30.45	meters, to a point
Latitude - 681227.6676	Longitude - 450237.584	, thence a line runs at bearing	128.31496	for	33.01	meters, to a point
Latitude - 681248.1325	Longitude - 450211.6848	, thence a line runs at bearing	101.46015	for	45.92	meters, to a point
Latitude - 681257.2563	Longitude - 450166.6797	, thence a line runs at bearing	99.502873	for	47.02	meters, to a point
Latitude - 681265.0184	Longitude - 450120.3095	, thence a line runs at bearing	106.66613	for	36.54	meters, to a point
Latitude - 681275.4967	Longitude - 450085.3084	, thence a line runs at bearing	130.96886	for	32.87	meters, to a point
Latitude - 681297.0483	Longitude - 450060.4889	, thence a line runs at bearing	161.79913	for	26.12	meters, to a point
Latitude - 681321.8655	Longitude - 450052.329	, thence a line runs at bearing	182.05843	for	23.28	meters, to a point
Latitude - 681345.1276	Longitude - 450053.1651	, thence a line runs at bearing	174.33684	for	23.64	meters, to a point
Latitude - 681368.6556	Longitude - 450050.832	, thence a line runs at bearing	183.91005	for	30.96	meters, to a point
Latitude - 681399.5478	Longitude - 450052.9434	, thence a line runs at bearing	180.04849	for	20.44	meters, to a point
Latitude - 681419.9909	Longitude - 450052.9607	, thence a line runs at bearing	163.3512	for	19.92	meters, to a point
Latitude - 681439.0738	Longitude - 450047.2542	, thence a line runs at bearing	149.29186	for	19.56	meters, to a point
Latitude - 681455.891	Longitude - 450037.2656	, thence a line runs at bearing	115.97188	for	18.70	meters, to a point
Latitude - 681464.0825	Longitude - 450020.4496	, thence a line runs at bearing	69.108822	for	22.88	meters, to a point
Latitude - 681455.9234	Longitude - 449999.0731	, thence a line runs at bearing	59.418964	for	14.27	meters, to a point
Latitude - 681448.6651	Longitude - 449986.7907	, thence a line runs at bearing	22.780113	for	21.18	meters, to a point
Latitude - 681429.1375	Longitude - 449978.5901	, thence a line runs at bearing	13.408106	for	27.55	meters, to a point
Latitude - 681402.3397	Longitude - 449972.2019	, thence a line runs at bearing	356.90956	for	33.21	meters, to a point

Latitude - 681369.1749	Longitude - 449973.9925	- thence a line runs at bearing	15.703331	for	23.59	meters, to a point
Latitude - 681346.4658	Longitude - 449967.6079	- thence a line runs at bearing	4.7193258	for	22.33	meters, to a point
Latitude - 681324.2071	Longitude - 449965.7703	- thence a line runs at bearing	5.8462006	for	31.51	meters, to a point
Latitude - 681292.8637	Longitude - 449962.561	- thence a line runs at bearing	10.980352	for	26.37	meters, to a point
Latitude - 681266.9733	Longitude - 449957.5377	- thence a line runs at bearing	10.137497	for	41.53	meters, to a point
Latitude - 681226.0933	Longitude - 449950.2282	- thence a line runs at bearing	38.99975	for	30.38	meters, to a point
Latitude - 681202.4864	Longitude - 449931.1118	- thence a line runs at bearing	20.047239	for	15.95	meters, to a point
Latitude - 681187.4994	Longitude - 449925.643	- thence a line runs at bearing	8.5864497	for	18.38	meters, to a point
Latitude - 681169.33	Longitude - 449922.8996	- thence a line runs at bearing	351.38884	for	21.14	meters, to a point
Latitude - 681148.43	Longitude - 449926.0646	- thence a line runs at bearing	335.46309	for	17.49	meters, to a point
Latitude - 681132.5236	Longitude - 449933.3259	- thence a line runs at bearing	308.95244	for	15.19	meters, to a point
Latitude - 681122.9735	Longitude - 449945.1394	- thence a line runs at bearing	294.25817	for	19.94	meters, to a point
Latitude - 681114.7808	Longitude - 449963.3195	- thence a line runs at bearing	276.75613	for	17.86	meters, to a point
Latitude - 681112.6801	Longitude - 449981.0522	- thence a line runs at bearing	277.67883	for	19.18	meters, to a point
Latitude - 681110.1173	Longitude - 450000.0596	- thence a line runs at bearing	303.33086	for	18.05	meters, to a point
Latitude - 681100.1996	Longitude - 450015.1401	- thence a line runs at bearing	334.02603	for	20.73	meters, to a point
Latitude - 681081.566	Longitude - 450024.2179	- thence a line runs at bearing	57.59926	for	17.78	meters, to a point
Latitude - 681072.0386	Longitude - 450009.2055	- thence a line runs at bearing	87.847772	for	23.66	meters, to a point
Latitude - 681071.15	Longitude - 449985.5616	- thence a line runs at bearing	87.804691	for	23.21	meters, to a point
Latitude - 681070.2611	Longitude - 449962.3724	- thence a line runs at bearing	84.676376	for	38.82	meters, to a point
Latitude - 681066.6595	Longitude - 449923.7219	- thence a line runs at bearing	79.812997	for	38.35	meters, to a point
Latitude - 681059.8771	Longitude - 449885.978	- thence a line runs at bearing	71.138864	for	33.64	meters, to a point
Latitude - 681049.0012	Longitude - 449854.1414	- thence a line runs at bearing	73.041714	for	23.30	meters, to a point
Latitude - 681042.2057	Longitude - 449831.8565	- thence a line runs at bearing	63.953939	for	25.82	meters, to a point
Latitude - 681030.8681	Longitude - 449808.6584	- thence a line runs at bearing	68.469997	for	23.47	meters, to a point
Latitude - 681022.2552	Longitude - 449786.8266	- thence a line runs at bearing	102.56725	for	16.77	meters, to a point
Latitude - 681025.9034	Longitude - 449770.4613	- thence a line runs at bearing	137.88698	for	12.87	meters, to a point
Latitude - 681035.4509	Longitude - 449761.8306	- thence a line runs at bearing	185.36776	for	19.62	meters, to a point
Latitude - 681054.9838	Longitude - 449763.6659	- thence a line runs at bearing	192.71167	for	22.82	meters, to a point
Latitude - 681077.2399	Longitude - 449768.6863	- thence a line runs at bearing	187.87056	for	23.39	meters, to a point
Latitude - 681100.406	Longitude - 449771.8887	- thence a line runs at bearing	176.57757	for	30.04	meters, to a point
Latitude - 681130.3908	Longitude - 449770.0955	- thence a line runs at bearing	176.74408	for	23.66	meters, to a point
Latitude - 681154.0151	Longitude - 449768.7516	- thence a line runs at bearing	180.04874	for	34.53	meters, to a point
Latitude - 681188.5412	Longitude - 449768.781	- thence a line runs at bearing	136.66118	for	22.50	meters, to a point
Latitude - 681204.9088	Longitude - 449753.3359	- thence a line runs at bearing	81.235716	for	26.69	meters, to a point

Latitude - 681200.8426	Longitude - 449726.9613	, thence a line runs at bearing	51.555436	for	28.47	meters, to a point
Latitude - 681183.1443	Longitude - 449704.6672	, thence a line runs at bearing	37.128615	for	27.90	meters, to a point
Latitude - 681160.8983	Longitude - 449687.8252	, thence a line runs at bearing	14.096463	for	29.97	meters, to a point
Latitude - 681131.8299	Longitude - 449680.5256	, thence a line runs at bearing	22.026198	for	30.37	meters, to a point
Latitude - 681103.6735	Longitude - 449669.1348	, thence a line runs at bearing	42.653473	for	22.84	meters, to a point
Latitude - 681086.8779	Longitude - 449653.6615	, thence a line runs at bearing	29.318359	for	39.06	meters, to a point
Latitude - 681052.8224	Longitude - 449634.536	, thence a line runs at bearing	34.580053	for	35.29	meters, to a point
Latitude - 681023.7648	Longitude - 449614.5055	, thence a line runs at bearing	18.498405	for	48.85	meters, to a point
Latitude - 680977.4403	Longitude - 449599.0069	, thence a line runs at bearing	23.696129	for	47.61	meters, to a point
Latitude - 680933.8446	Longitude - 449579.8733	, thence a line runs at bearing	22.283544	for	34.85	meters, to a point
Latitude - 680901.6012	Longitude - 449566.6601	, thence a line runs at bearing	40.059773	for	18.39	meters, to a point
Latitude - 680887.5283	Longitude - 449554.8265	, thence a line runs at bearing	108.85879	for	21.13	meters, to a point
Latitude - 680894.3597	Longitude - 449534.8265	, thence a line runs at bearing	129.42574	for	16.47	meters, to a point
Latitude - 680904.8193	Longitude - 449522.1045	, thence a line runs at bearing	161.59941	for	17.24	meters, to a point
Latitude - 680921.1784	Longitude - 449516.6623	, thence a line runs at bearing	180.04895	for	16.35	meters, to a point
Latitude - 680937.5329	Longitude - 449516.6763	, thence a line runs at bearing	189.51918	for	19.34	meters, to a point
Latitude - 680956.6104	Longitude - 449519.8753	, thence a line runs at bearing	199.77237	for	32.33	meters, to a point
Latitude - 680987.0386	Longitude - 449530.8136	, thence a line runs at bearing	209.37969	for	29.70	meters, to a point
Latitude - 681012.9208	Longitude - 449545.3854	, thence a line runs at bearing	206.1216	for	22.76	meters, to a point
Latitude - 681033.3554	Longitude - 449555.4057	, thence a line runs at bearing	210.00143	for	17.30	meters, to a point
Latitude - 681048.3396	Longitude - 449564.0573	, thence a line runs at bearing	210.00142	for	17.30	meters, to a point
Latitude - 681063.3238	Longitude - 449572.709	, thence a line runs at bearing	199.9496	for	22.71	meters, to a point
Latitude - 681084.6689	Longitude - 449580.4567	, thence a line runs at bearing	204.60496	for	22.98	meters, to a point
Latitude - 681105.5582	Longitude - 449590.0227	, thence a line runs at bearing	216.01404	for	22.45	meters, to a point
Latitude - 681123.7186	Longitude - 449603.2238	, thence a line runs at bearing	218.57314	for	25.55	meters, to a point
Latitude - 681143.6938	Longitude - 449619.1545	, thence a line runs at bearing	218.52617	for	19.73	meters, to a point
Latitude - 681159.1292	Longitude - 449631.4439	, thence a line runs at bearing	193.34456	for	33.61	meters, to a point
Latitude - 681191.8316	Longitude - 449639.2013	, thence a line runs at bearing	151.47717	for	35.18	meters, to a point
Latitude - 681222.7378	Longitude - 449622.4047	, thence a line runs at bearing	140.55271	for	30.02	meters, to a point
Latitude - 681245.9229	Longitude - 449603.3281	, thence a line runs at bearing	127.23357	for	30.82	meters, to a point
Latitude - 681264.5698	Longitude - 449578.7916	, thence a line runs at bearing	128.1827	for	24.28	meters, to a point
Latitude - 681279.5777	Longitude - 449559.7081	, thence a line runs at bearing	117.17904	for	19.92	meters, to a point
Latitude - 681288.6787	Longitude - 449541.9836	, thence a line runs at bearing	87.790383	for	34.58	meters, to a point
Latitude - 681287.3454	Longitude - 449507.4271	, thence a line runs at bearing	83.828384	for	25.16	meters, to a point
Latitude - 681284.641	Longitude - 449482.4177	, thence a line runs at bearing	68.652472	for	24.90	meters, to a point

Latitude - 681275.575	Longitude - 449459.2216	, thence a line runs at bearing	59.712008	for	36.88	meters, to a point
Latitude - 681256.9763	Longitude - 449427.3784	, thence a line runs at bearing	45.798461	for	25.39	meters, to a point
Latitude - 681239.2746	Longitude - 449409.1762	, thence a line runs at bearing	43.22561	for	19.93	meters, to a point
Latitude - 681224.7489	Longitude - 449395.5235	, thence a line runs at bearing	33.040588	for	20.04	meters, to a point
Latitude - 681207.9495	Longitude - 449384.5969	, thence a line runs at bearing	53.465197	for	19.82	meters, to a point
Latitude - 681196.1516	Longitude - 449368.6732	, thence a line runs at bearing	96.15952	for	25.61	meters, to a point
Latitude - 681198.8991	Longitude - 449343.2137	, thence a line runs at bearing	133.47686	for	23.79	meters, to a point
Latitude - 681215.2685	Longitude - 449325.9501	, thence a line runs at bearing	171.29574	for	23.90	meters, to a point
Latitude - 681238.8947	Longitude - 449322.333	, thence a line runs at bearing	144.48865	for	19.55	meters, to a point
Latitude - 681254.8047	Longitude - 449310.9797	, thence a line runs at bearing	146.6863	for	20.67	meters, to a point
Latitude - 681272.0775	Longitude - 449299.6277	, thence a line runs at bearing	100.44834	for	22.65	meters, to a point
Latitude - 681276.1853	Longitude - 449277.3522	, thence a line runs at bearing	76.024349	for	18.75	meters, to a point
Latitude - 681271.658	Longitude - 449259.1613	, thence a line runs at bearing	39.362328	for	19.38	meters, to a point
Latitude - 681256.6769	Longitude - 449246.8722	, thence a line runs at bearing	29.581476	for	27.67	meters, to a point
Latitude - 681232.6112	Longitude - 449233.2112	, thence a line runs at bearing	44.517188	for	33.10	meters, to a point
Latitude - 681209.008	Longitude - 449210.0025	, thence a line runs at bearing	42.137678	for	25.10	meters, to a point
Latitude - 681190.3965	Longitude - 449193.1635	, thence a line runs at bearing	27.621967	for	35.36	meters, to a point
Latitude - 681159.0645	Longitude - 449176.7682	, thence a line runs at bearing	36.326257	for	25.36	meters, to a point
Latitude - 681138.6343	Longitude - 449161.7463	, thence a line runs at bearing	28.438628	for	25.82	meters, to a point
Latitude - 681115.9303	Longitude - 449149.4505	, thence a line runs at bearing	30.088708	for	23.62	meters, to a point
Latitude - 681095.4974	Longitude - 449137.6113	, thence a line runs at bearing	27.081638	for	26.01	meters, to a point
Latitude - 681072.3387	Longitude - 449125.7698	, thence a line runs at bearing	15.654729	for	20.28	meters, to a point
Latitude - 681052.8088	Longitude - 449120.2968	, thence a line runs at bearing	19.550758	for	31.33	meters, to a point
Latitude - 681023.2889	Longitude - 449109.8138	, thence a line runs at bearing	13.661017	for	28.98	meters, to a point
Latitude - 680995.1287	Longitude - 449102.9694	, thence a line runs at bearing	3.3540261	for	23.66	meters, to a point
Latitude - 680971.5067	Longitude - 449101.585	, thence a line runs at bearing	20.760903	for	21.86	meters, to a point
Latitude - 680951.0703	Longitude - 449093.8379	, thence a line runs at bearing	55.080203	for	22.19	meters, to a point
Latitude - 680938.3658	Longitude - 449075.6399	, thence a line runs at bearing	74.806629	for	31.10	meters, to a point
Latitude - 680930.2144	Longitude - 449045.6241	, thence a line runs at bearing	90.59464	for	47.74	meters, to a point
Latitude - 680930.7099	Longitude - 448997.8834	, thence a line runs at bearing	92.611086	for	30.49	meters, to a point
Latitude - 680932.0991	Longitude - 448967.4212	, thence a line runs at bearing	95.087709	for	31.04	meters, to a point
Latitude - 680934.8515	Longitude - 448936.5055	, thence a line runs at bearing	97.395754	for	42.63	meters, to a point
Latitude - 680940.3396	Longitude - 448894.2252	, thence a line runs at bearing	99.504032	for	41.48	meters, to a point
Latitude - 680947.1894	Longitude - 448853.3101	, thence a line runs at bearing	82.930598	for	47.65	meters, to a point
Latitude - 680941.3246	Longitude - 448806.0186	, thence a line runs at bearing	72.709484	for	30.48	meters, to a point

Latitude - 680932.264	Longitude - 448776.9113	, thence a line runs at bearing	56.382075	for	27.86	meters, to a point
Latitude - 680916.8382	Longitude - 448753.7094	, thence a line runs at bearing	59.491797	for	34.85	meters, to a point
Latitude - 680899.1468	Longitude - 448723.6853	, thence a line runs at bearing	55.080592	for	27.74	meters, to a point
Latitude - 680883.2664	Longitude - 448700.9376	, thence a line runs at bearing	68.618597	for	27.35	meters, to a point
Latitude - 680873.2941	Longitude - 448675.4669	, thence a line runs at bearing	63.02899	for	49.00	meters, to a point
Latitude - 680851.0717	Longitude - 448631.7985	, thence a line runs at bearing	70.082366	for	31.93	meters, to a point
Latitude - 680840.1948	Longitude - 448601.7803	, thence a line runs at bearing	87.325867	for	38.24	meters, to a point
Latitude - 680838.4109	Longitude - 448563.5857	, thence a line runs at bearing	106.08596	for	34.54	meters, to a point
Latitude - 680847.9799	Longitude - 448530.4025	, thence a line runs at bearing	153.04999	for	28.04	meters, to a point
Latitude - 680872.977	Longitude - 448517.6933	, thence a line runs at bearing	177.13662	for	26.84	meters, to a point
Latitude - 680899.7814	Longitude - 448516.3526	, thence a line runs at bearing	172.61229	for	31.61	meters, to a point
Latitude - 680931.1311	Longitude - 448512.2878	, thence a line runs at bearing	189.67767	for	27.19	meters, to a point
Latitude - 680957.9304	Longitude - 448516.858	, thence a line runs at bearing	178.33868	for	30.45	meters, to a point
Latitude - 680988.3687	Longitude - 448515.9751	, thence a line runs at bearing	180.04994	for	42.25	meters, to a point
Latitude - 681030.6179	Longitude - 448516.012	, thence a line runs at bearing	179.25904	for	65.88	meters, to a point
Latitude - 681096.491	Longitude - 448515.16	, thence a line runs at bearing	170.17596	for	31.82	meters, to a point
Latitude - 681127.8419	Longitude - 448509.7312	, thence a line runs at bearing	148.47698	for	30.39	meters, to a point
Latitude - 681153.7504	Longitude - 448493.8402	, thence a line runs at bearing	104.78164	for	26.80	meters, to a point
Latitude - 681160.5874	Longitude - 448467.9296	, thence a line runs at bearing	81.038179	for	29.00	meters, to a point
Latitude - 681156.0695	Longitude - 448439.281	, thence a line runs at bearing	57.69126	for	22.07	meters, to a point
Latitude - 681144.2742	Longitude - 448420.629	, thence a line runs at bearing	22.524096	for	36.87	meters, to a point
Latitude - 681110.2146	Longitude - 448406.5043	, thence a line runs at bearing	1.6207355	for	33.18	meters, to a point
Latitude - 681077.0521	Longitude - 448405.566	, thence a line runs at bearing	5.8944568	for	40.19	meters, to a point
Latitude - 681037.078	Longitude - 448401.4389	, thence a line runs at bearing	11.100131	for	37.96	meters, to a point
Latitude - 680999.8324	Longitude - 448394.1316	, thence a line runs at bearing	22.837785	for	39.91	meters, to a point
Latitude - 680963.0482	Longitude - 448378.6404	, thence a line runs at bearing	18.918105	for	19.68	meters, to a point
Latitude - 680944.4278	Longitude - 448372.2586	, thence a line runs at bearing	25.15235	for	23.58	meters, to a point
Latitude - 680923.0849	Longitude - 448362.237	, thence a line runs at bearing	356.35557	for	28.22	meters, to a point
Latitude - 680894.9172	Longitude - 448364.0311	, thence a line runs at bearing	351.80755	for	34.89	meters, to a point
Latitude - 680860.3866	Longitude - 448369.0024	, thence a line runs at bearing	346.90526	for	41.99	meters, to a point
Latitude - 680819.492	Longitude - 448378.5149	, thence a line runs at bearing	347.98931	for	41.34	meters, to a point
Latitude - 680779.0525	Longitude - 448387.1185	, thence a line runs at bearing	14.920763	for	23.03	meters, to a point
Latitude - 680756.7973	Longitude - 448381.1882	, thence a line runs at bearing	36.100665	for	37.09	meters, to a point
Latitude - 680726.8331	Longitude - 448359.3374	, thence a line runs at bearing	41.060097	for	36.72	meters, to a point
Latitude - 680699.1424	Longitude - 448335.2152	, thence a line runs at bearing	42.411436	for	27.67	meters, to a point

Latitude - 680364.6318	Longitude - 447476.0272	. thence a line runs at bearing	48.889373	for	33.82	meters, to a point
Latitude - 680342.3941	Longitude - 447450.5452	. thence a line runs at bearing	39.364459	for	19.38	meters, to a point
Latitude - 680327.4134	Longitude - 447438.2554	. thence a line runs at bearing	58.164931	for	28.38	meters, to a point
Latitude - 680312.4432	Longitude - 447414.1439	. thence a line runs at bearing	72.137473	for	32.49	meters, to a point
Latitude - 680302.4762	Longitude - 447383.2166	. thence a line runs at bearing	66.263247	for	33.79	meters, to a point
Latitude - 680288.875	Longitude - 447352.286	. thence a line runs at bearing	52.669449	for	29.18	meters, to a point
Latitude - 680271.1782	Longitude - 447329.0814	. thence a line runs at bearing	57.412523	for	21.06	meters, to a point
Latitude - 680259.8367	Longitude - 447311.3386	. thence a line runs at bearing	48.169634	for	23.82	meters, to a point
Latitude - 680243.9523	Longitude - 447293.5917	. thence a line runs at bearing	62.921412	for	19.92	meters, to a point
Latitude - 680234.8823	Longitude - 447275.851	. thence a line runs at bearing	73.137318	for	21.86	meters, to a point
Latitude - 680228.5408	Longitude - 447254.9299	. thence a line runs at bearing	76.326226	for	21.06	meters, to a point
Latitude - 680223.5618	Longitude - 447234.4646	. thence a line runs at bearing	127.90221	for	20.73	meters, to a point
Latitude - 680236.2966	Longitude - 447218.1074	. thence a line runs at bearing	163.94719	for	24.59	meters, to a point
Latitude - 680259.9259	Longitude - 447211.3082	. thence a line runs at bearing	183.8685	for	20.49	meters, to a point
Latitude - 680280.3679	Longitude - 447212.6905	. thence a line runs at bearing	178.68605	for	19.09	meters, to a point
Latitude - 680299.4486	Longitude - 447212.2529	. thence a line runs at bearing	184.95444	for	15.96	meters, to a point
Latitude - 680315.3476	Longitude - 447213.6311	. thence a line runs at bearing	189.30507	for	19.79	meters, to a point
Latitude - 680334.8793	Longitude - 447216.8313	. thence a line runs at bearing	214.58265	for	17.65	meters, to a point
Latitude - 680349.4078	Longitude - 447226.8473	. thence a line runs at bearing	198.50086	for	18.68	meters, to a point
Latitude - 680367.1199	Longitude - 447232.774	. thence a line runs at bearing	193.51088	for	21.49	meters, to a point
Latitude - 680388.0129	Longitude - 447237.7942	. thence a line runs at bearing	183.06651	for	34.57	meters, to a point
Latitude - 680422.5375	Longitude - 447239.6437	. thence a line runs at bearing	176.28388	for	34.60	meters, to a point
Latitude - 680457.0657	Longitude - 447237.4011	. thence a line runs at bearing	173.5258	for	32.01	meters, to a point
Latitude - 680488.8695	Longitude - 447233.792	. thence a line runs at bearing	163.64832	for	32.20	meters, to a point
Latitude - 680519.7695	Longitude - 447224.726	. thence a line runs at bearing	159.38799	for	33.50	meters, to a point
Latitude - 680551.1262	Longitude - 447212.9323	. thence a line runs at bearing	165.61858	for	32.84	meters, to a point
Latitude - 680582.934	Longitude - 447204.7764	. thence a line runs at bearing	167.38816	for	22.82	meters, to a point
Latitude - 680605.1988	Longitude - 447199.7948	. thence a line runs at bearing	154.21101	for	31.30	meters, to a point
Latitude - 680633.3771	Longitude - 447186.1795	. thence a line runs at bearing	165.56908	for	29.09	meters, to a point
Latitude - 680661.5498	Longitude - 447178.9298	. thence a line runs at bearing	152.27252	for	29.27	meters, to a point
Latitude - 680687.4566	Longitude - 447165.3126	. thence a line runs at bearing	92.651583	for	20.03	meters, to a point
Latitude - 680688.3831	Longitude - 447145.3074	. thence a line runs at bearing	40.254593	for	26.77	meters, to a point
Latitude - 680667.9554	Longitude - 447128.0113	. thence a line runs at bearing	53.204854	for	40.91	meters, to a point
Latitude - 680643.4529	Longitude - 447095.2523	. thence a line runs at bearing	59.373045	for	16.92	meters, to a point
Latitude - 680634.8344	Longitude - 447080.6948	. thence a line runs at bearing	46.666885	for	23.15	meters, to a point

Latitude - 680678.7156	Longitude - 448316.5555	. thence a line runs at bearing	83.473746	for	23.80	meters, to a point
Latitude - 680676.0105	Longitude - 448292.9097	. thence a line runs at bearing	123.49522	for	26.38	meters, to a point
Latitude - 680690.5693	Longitude - 448270.9098	. thence a line runs at bearing	140.00077	for	38.57	meters, to a point
Latitude - 680720.1178	Longitude - 448246.1163	. thence a line runs at bearing	136.94779	for	47.91	meters, to a point
Latitude - 680755.127	Longitude - 448213.4101	. thence a line runs at bearing	126.60007	for	26.71	meters, to a point
Latitude - 680771.0494	Longitude - 448191.9706	. thence a line runs at bearing	103.00893	for	46.55	meters, to a point
Latitude - 680781.5289	Longitude - 448146.6108	. thence a line runs at bearing	69.810824	for	22.31	meters, to a point
Latitude - 680773.8299	Longitude - 448125.6733	. thence a line runs at bearing	67.524527	for	26.09	meters, to a point
Latitude - 680763.8567	Longitude - 448101.5666	. thence a line runs at bearing	92.023588	for	26.39	meters, to a point
Latitude - 680764.7884	Longitude - 448075.196	. thence a line runs at bearing	68.137684	for	37.74	meters, to a point
Latitude - 680750.7361	Longitude - 448040.1733	. thence a line runs at bearing	60.885276	for	57.80	meters, to a point
Latitude - 680722.6144	Longitude - 447989.6791	. thence a line runs at bearing	54.455076	for	37.46	meters, to a point
Latitude - 680700.8352	Longitude - 447959.1964	. thence a line runs at bearing	56.569535	for	38.70	meters, to a point
Latitude - 680679.5119	Longitude - 447926.8953	. thence a line runs at bearing	67.177459	for	22.21	meters, to a point
Latitude - 680670.8984	Longitude - 447906.4271	. thence a line runs at bearing	62.473292	for	22.57	meters, to a point
Latitude - 680660.4673	Longitude - 447886.4119	. thence a line runs at bearing	70.343785	for	25.60	meters, to a point
Latitude - 680651.8571	Longitude - 447862.3063	. thence a line runs at bearing	62.223186	for	27.25	meters, to a point
Latitude - 680639.1581	Longitude - 447838.197	. thence a line runs at bearing	48.619628	for	36.39	meters, to a point
Latitude - 680615.1047	Longitude - 447810.8949	. thence a line runs at bearing	55.081583	for	22.19	meters, to a point
Latitude - 680602.4006	Longitude - 447792.6965	. thence a line runs at bearing	40.135531	for	26.13	meters, to a point
Latitude - 680582.4266	Longitude - 447775.8556	. thence a line runs at bearing	26.63529	for	22.35	meters, to a point
Latitude - 680562.4466	Longitude - 447765.835	. thence a line runs at bearing	25.415774	for	19.10	meters, to a point
Latitude - 680545.1907	Longitude - 447757.6355	. thence a line runs at bearing	52.66895	for	19.46	meters, to a point
Latitude - 680533.3928	Longitude - 447742.1659	. thence a line runs at bearing	49.83849	for	23.22	meters, to a point
Latitude - 680518.4168	Longitude - 447724.4201	. thence a line runs at bearing	25.477408	for	20.12	meters, to a point
Latitude - 680500.2528	Longitude - 447715.765	. thence a line runs at bearing	49.760796	for	19.67	meters, to a point
Latitude - 680487.5459	Longitude - 447700.7493	. thence a line runs at bearing	53.204362	for	29.55	meters, to a point
Latitude - 680469.8494	Longitude - 447677.0902	. thence a line runs at bearing	73.073626	for	34.23	meters, to a point
Latitude - 680459.884	Longitude - 447644.3442	. thence a line runs at bearing	36.944227	for	29.54	meters, to a point
Latitude - 680436.2765	Longitude - 447626.5907	. thence a line runs at bearing	67.234688	for	28.12	meters, to a point
Latitude - 680425.3964	Longitude - 447600.6642	. thence a line runs at bearing	69.634035	for	24.74	meters, to a point
Latitude - 680416.7854	Longitude - 447577.4677	. thence a line runs at bearing	78.401256	for	29.25	meters, to a point
Latitude - 680410.905	Longitude - 447548.8175	. thence a line runs at bearing	36.57579	for	28.27	meters, to a point
Latitude - 680388.2054	Longitude - 447531.9741	. thence a line runs at bearing	89.127609	for	28.19	meters, to a point
Latitude - 680387.7761	Longitude - 447503.7834	. thence a line runs at bearing	50.17726	for	36.14	meters, to a point

Latitude - 680618.9492	Longitude - 447063.8574	, thence a line runs at bearing	75.528762	for	25.36	meters, to a point
Latitude - 680612.6111	Longitude - 447039.2989	, thence a line runs at bearing	62.771735	for	31.72	meters, to a point
Latitude - 680598.099	Longitude - 447011.0957	, thence a line runs at bearing	73.899976	for	32.66	meters, to a point
Latitude - 680589.0413	Longitude - 446979.7145	, thence a line runs at bearing	48.889766	for	43.48	meters, to a point
Latitude - 680560.4502	Longitude - 446946.9518	, thence a line runs at bearing	51.317284	for	41.38	meters, to a point
Latitude - 680534.5845	Longitude - 446914.6462	, thence a line runs at bearing	53.001992	for	51.27	meters, to a point
Latitude - 680503.7294	Longitude - 446873.6971	, thence a line runs at bearing	77.226529	for	36.84	meters, to a point
Latitude - 680495.5844	Longitude - 446837.7698	, thence a line runs at bearing	75.26689	for	24.92	meters, to a point
Latitude - 680489.246	Longitude - 446813.666	, thence a line runs at bearing	89.128313	for	28.19	meters, to a point
Latitude - 680488.8171	Longitude - 446785.4753	, thence a line runs at bearing	121.45932	for	19.18	meters, to a point
Latitude - 680498.8262	Longitude - 446769.1157	, thence a line runs at bearing	147.12397	for	18.40	meters, to a point
Latitude - 680514.2812	Longitude - 446759.1266	, thence a line runs at bearing	157.41434	for	23.63	meters, to a point
Latitude - 680536.0955	Longitude - 446750.0526	, thence a line runs at bearing	140.46789	for	27.12	meters, to a point
Latitude - 680557.0085	Longitude - 446732.7936	, thence a line runs at bearing	117.04449	for	26.02	meters, to a point
Latitude - 680568.841	Longitude - 446709.6155	, thence a line runs at bearing	109.62848	for	28.47	meters, to a point
Latitude - 680578.4053	Longitude - 446682.7979	, thence a line runs at bearing	96.821627	for	46.25	meters, to a point
Latitude - 680583.8983	Longitude - 446636.8799	, thence a line runs at bearing	98.790548	for	17.94	meters, to a point
Latitude - 680586.6401	Longitude - 446619.1498	, thence a line runs at bearing	122.9988	for	20.05	meters, to a point
Latitude - 680597.5583	Longitude - 446602.3365	, thence a line runs at bearing	125.5663	for	23.46	meters, to a point
Latitude - 680611.2043	Longitude - 446583.2522	, thence a line runs at bearing	150.15466	for	24.63	meters, to a point
Latitude - 680632.5672	Longitude - 446570.9951	, thence a line runs at bearing	146.64081	for	23.95	meters, to a point
Latitude - 680652.568	Longitude - 446557.8274	, thence a line runs at bearing	136.87503	for	29.90	meters, to a point
Latitude - 680674.3926	Longitude - 446537.3865	, thence a line runs at bearing	109.7586	for	25.60	meters, to a point
Latitude - 680683.046	Longitude - 446513.2962	, thence a line runs at bearing	78.751322	for	11.59	meters, to a point
Latitude - 680680.7848	Longitude - 446501.9271	, thence a line runs at bearing	32.545219	for	23.70	meters, to a point
Latitude - 680660.8074	Longitude - 446489.178	, thence a line runs at bearing	119.11435	for	13.15	meters, to a point
Latitude - 680667.2066	Longitude - 446477.6877	, thence a line runs at bearing	124.59681	for	10.75	meters, to a point
Latitude - 680673.3117	Longitude - 446468.8368	, thence a line runs at bearing	110.7812	for	51.20	meters, to a point
Latitude - 680691.4792	Longitude - 446420.9632	, thence a line runs at bearing	118.23075	for	48.13	meters, to a point
Latitude - 680714.247	Longitude - 446378.5561	, thence a line runs at bearing	119.74812	for	52.26	meters, to a point
Latitude - 680740.1772	Longitude - 446333.1842	, thence a line runs at bearing	128.92668	for	50.76	meters, to a point
Latitude - 680772.0694	Longitude - 446293.6974	, thence a line runs at bearing	125.64714	for	50.67	meters, to a point
Latitude - 680801.6003	Longitude - 446252.5207	, thence a line runs at bearing	143.49222	for	49.70	meters, to a point
Latitude - 680841.5447	Longitude - 446222.955	, thence a line runs at bearing	135.09694	for	48.98	meters, to a point
Latitude - 680876.2401	Longitude - 446188.3768	, thence a line runs at bearing	131.99835	for	51.72	meters, to a point

Latitude - 680910.8463	Longitude - 446149.9405	, thence a line runs at bearing	114.35816	for	52.50	meters, to a point
Latitude - 680932.498	Longitude - 446102.1168	, thence a line runs at bearing	114.05063	for	49.89	meters, to a point
Latitude - 680952.8319	Longitude - 446056.5545	, thence a line runs at bearing	80.22521	for	53.15	meters, to a point
Latitude - 680943.8085	Longitude - 446004.1772	, thence a line runs at bearing	77.59618	for	54.51	meters, to a point
Latitude - 680932.0987	Longitude - 445950.9349	, thence a line runs at bearing	89.561883	for	49.77	meters, to a point
Latitude - 680931.7181	Longitude - 445901.162	, thence a line runs at bearing	142.78997	for	39.70	meters, to a point
Latitude - 680963.3369	Longitude - 445877.1533	, thence a line runs at bearing	79.375408	for	49.26	meters, to a point
Latitude - 680954.2543	Longitude - 445828.7358	, thence a line runs at bearing	58.966363	for	53.14	meters, to a point
Latitude - 680926.8597	Longitude - 445783.2041	, thence a line runs at bearing	58.290345	for	51.65	meters, to a point
Latitude - 680899.7138	Longitude - 445739.2677	, thence a line runs at bearing	48.459443	for	48.99	meters, to a point
Latitude - 680867.224	Longitude - 445702.597	, thence a line runs at bearing	40.717341	for	48.46	meters, to a point
Latitude - 680830.4952	Longitude - 445670.9859	, thence a line runs at bearing	60.779182	for	48.25	meters, to a point
Latitude - 680806.9427	Longitude - 445628.8796	, thence a line runs at bearing	84.390235	for	52.68	meters, to a point
Latitude - 680801.7929	Longitude - 445576.4499	, thence a line runs at bearing	74.085604	for	10.61	meters, to a point
Latitude - 680798.8835	Longitude - 445566.2461	, thence a line runs at bearing	94.911799	for	15.97	meters, to a point
Latitude - 680800.251	Longitude - 445550.3334	, thence a line runs at bearing	92.839285	for	52.61	meters, to a point
Latitude - 680802.8569	Longitude - 445497.7903	, thence a line runs at bearing	89.207516	for	49.62	meters, to a point
Latitude - 680802.1706	Longitude - 445448.1748	, thence a line runs at bearing	87.176612	for	51.70	meters, to a point
Latitude - 680799.6239	Longitude - 445396.5357	, thence a line runs at bearing	84.763231	for	47.24	meters, to a point
Latitude - 680795.3124	Longitude - 445349.4948	, thence a line runs at bearing	71.198403	for	50.26	meters, to a point
Latitude - 680779.1132	Longitude - 445301.9143	, thence a line runs at bearing	60.487871	for	49.80	meters, to a point
Latitude - 680754.5801	Longitude - 445258.5736	, thence a line runs at bearing	65.73162	for	35.03	meters, to a point
Latitude - 680740.1826	Longitude - 445226.6397	, thence a line runs at bearing	57.647158	for	50.09	meters, to a point
Latitude - 680713.3784	Longitude - 445184.3261	, thence a line runs at bearing	72.916046	for	51.04	meters, to a point
Latitude - 680698.3851	Longitude - 445135.541	, thence a line runs at bearing	87.212038	for	51.97	meters, to a point
Latitude - 680695.8573	Longitude - 445083.6329	, thence a line runs at bearing	131.75925	for	43.79	meters, to a point
Latitude - 680725.0198	Longitude - 445050.9697	, thence a line runs at bearing	132.0671	for	51.25	meters, to a point
Latitude - 680759.3577	Longitude - 445012.9233	, thence a line runs at bearing	133.83414	for	48.72	meters, to a point
Latitude - 680793.1	Longitude - 444977.7791	, thence a line runs at bearing	67.695358	for	46.60	meters, to a point
Latitude - 680775.4144	Longitude - 444934.6671	, thence a line runs at bearing	70.37035	for	53.59	meters, to a point
Latitude - 680757.4113	Longitude - 444884.1912	, thence a line runs at bearing	54.936424	for	50.00	meters, to a point
Latitude - 680728.688	Longitude - 444843.2668	, thence a line runs at bearing	52.562014	for	50.22	meters, to a point
Latitude - 680698.1569	Longitude - 444803.3886	, thence a line runs at bearing	53.894819	for	51.75	meters, to a point
Latitude - 680667.6647	Longitude - 444761.5813	, thence a line runs at bearing	146.47494	for	29.73	meters, to a point
Latitude - 680692.448	Longitude - 444745.162	, thence a line runs at bearing	143.3377	for	50.85	meters, to a point

Latitude - 680733.2372	Longitude - 444714.8004	, thence a line runs at bearing	135.78182	for	49.41	meters, to a point
Latitude - 680768.6469	Longitude - 444680.3441	, thence a line runs at bearing	136.54244	for	50.39	meters, to a point
Latitude - 680805.2242	Longitude - 444645.685	, thence a line runs at bearing	143.38679	for	49.74	meters, to a point
Latitude - 680845.1512	Longitude - 444616.0183	, thence a line runs at bearing	143.901	for	50.79	meters, to a point
Latitude - 680886.1904	Longitude - 444586.0931	, thence a line runs at bearing	140.17499	for	49.77	meters, to a point
Latitude - 680924.4145	Longitude - 444554.2177	, thence a line runs at bearing	135.328	for	49.06	meters, to a point
Latitude - 680959.3054	Longitude - 444519.724	, thence a line runs at bearing	121.5347	for	49.04	meters, to a point
Latitude - 680984.9558	Longitude - 444477.9232	, thence a line runs at bearing	121.51744	for	49.26	meters, to a point
Latitude - 681010.7082	Longitude - 444435.9278	, thence a line runs at bearing	126.73311	for	52.01	meters, to a point
Latitude - 681041.8162	Longitude - 444394.2435	, thence a line runs at bearing	129.86678	for	54.70	meters, to a point
Latitude - 681076.8811	Longitude - 444352.2569	, thence a line runs at bearing	126.884	for	51.35	meters, to a point
Latitude - 681107.7012	Longitude - 444311.1845	, thence a line runs at bearing	148.06212	for	47.96	meters, to a point
Latitude - 681148.4027	Longitude - 444285.8127	, thence a line runs at bearing	169.22791	for	47.55	meters, to a point
Latitude - 681195.1115	Longitude - 444276.9261	, thence a line runs at bearing	159.02245	for	52.07	meters, to a point
Latitude - 681243.7291	Longitude - 444258.2854	, thence a line runs at bearing	151.7302	for	50.68	meters, to a point
Latitude - 681288.3672	Longitude - 444234.2806	, thence a line runs at bearing	146.98727	for	39.26	meters, to a point
Latitude - 681321.2909	Longitude - 444212.8893	, thence a line runs at bearing	156.85573	for	8.15	meters, to a point
Latitude - 681328.7809	Longitude - 444209.6877	, thence a line runs at bearing	145.85617	for	51.58	meters, to a point
Latitude - 681371.4686	Longitude - 444180.7383	, thence a line runs at bearing	176.36142	for	28.37	meters, to a point
Latitude - 681399.7778	Longitude - 444178.9381	, thence a line runs at bearing	172.80526	for	31.31	meters, to a point
Latitude - 681430.841	Longitude - 444175.0168	, thence a line runs at bearing	170.92026	for	49.13	meters, to a point
Latitude - 681479.3557	Longitude - 444167.2636	, thence a line runs at bearing	176.68174	for	51.24	meters, to a point
Latitude - 681530.5066	Longitude - 444164.2979	, thence a line runs at bearing	178.71092	for	43.12	meters, to a point
Latitude - 681573.6127	Longitude - 444163.3279	, thence a line runs at bearing	190.59649	for	47.75	meters, to a point
Latitude - 681620.5457	Longitude - 444172.1082	, thence a line runs at bearing	193.53148	for	51.53	meters, to a point
Latitude - 681670.6446	Longitude - 444184.165	, thence a line runs at bearing	184.22012	for	49.28	meters, to a point
Latitude - 681719.7878	Longitude - 444187.7912	, thence a line runs at bearing	175.73625	for	49.64	meters, to a point
Latitude - 681769.2901	Longitude - 444184.1006	, thence a line runs at bearing	170.33734	for	49.89	meters, to a point
Latitude - 681818.4724	Longitude - 444175.7267	, thence a line runs at bearing	157.42479	for	49.36	meters, to a point
Latitude - 681864.051	Longitude - 444156.7773	, thence a line runs at bearing	157.07493	for	49.27	meters, to a point
Latitude - 681909.4261	Longitude - 444137.5867	, thence a line runs at bearing	170.51785	for	48.70	meters, to a point
Latitude - 681957.4592	Longitude - 444129.5641	, thence a line runs at bearing	177.41055	for	49.46	meters, to a point
Latitude - 682006.8674	Longitude - 444127.3296	, thence a line runs at bearing	175.54342	for	50.00	meters, to a point
Latitude - 682056.7126	Longitude - 444123.4447	, thence a line runs at bearing	187.15808	for	51.07	meters, to a point
Latitude - 682107.3822	Longitude - 444129.8081	, thence a line runs at bearing	193.3794	for	49.77	meters, to a point

Latitude -	682155.8644	Longitude -	444141.3255	, thence a line runs at bearing	192.33936	for	51.78	meters, to a point
Latitude -	682206.3861	Longitude -	444152.3905	, thence a line runs at bearing	144.02059	for	55.16	meters, to a point
Latitude -	682251.023	Longitude -	444119.9844	, thence a line runs at bearing	139.19441	for	51.19	meters, to a point
Latitude -	682289.7679	Longitude -	444086.5341	, thence a line runs at bearing	148.96989	for	49.25	meters, to a point
Latitude -	682331.9707	Longitude -	444061.1459	, thence a line runs at bearing	184.46295	for	32.45	meters, to a point
Latitude -	682364.3251	Longitude -	444063.6712	, thence a line runs at bearing	160.76239	for	48.84	meters, to a point
Latitude -	682410.4384	Longitude -	444047.5789	, thence a line runs at bearing	174.6701	for	6.72	meters, to a point
Latitude -	682417.1291	Longitude -	444046.9547	, thence a line runs at bearing	188.74225	for	50.71	meters, to a point
Latitude -	682467.2506	Longitude -	444054.6622	, thence a line runs at bearing	161.95171	for	48.50	meters, to a point
Latitude -	682513.363	Longitude -	444039.6364	, thence a line runs at bearing	138.55723	for	52.75	meters, to a point
Latitude -	682552.9063	Longitude -	444004.7218	, thence a line runs at bearing	113.72821	for	50.28	meters, to a point
Latitude -	682573.1405	Longitude -	443958.6886	, thence a line runs at bearing	94.901318	for	11.19	meters, to a point
Latitude -	682574.0963	Longitude -	443947.5427	, thence a line runs at bearing	113.31432	for	30.22	meters, to a point
Latitude -	682586.0572	Longitude -	443919.7889	, thence a line runs at bearing	101.91306	for	51.54	meters, to a point
Latitude -	682596.6962	Longitude -	443869.3602	, thence a line runs at bearing	36.021942	for	27.90	meters, to a point
Latitude -	682574.1307	Longitude -	443852.9522	, thence a line runs at bearing	35.813546	for	49.96	meters, to a point
Latitude -	682533.62	Longitude -	443823.7204	, thence a line runs at bearing	43.078935	for	50.36	meters, to a point
Latitude -	682496.8391	Longitude -	443789.3268	, thence a line runs at bearing	56.100181	for	49.40	meters, to a point
Latitude -	682469.2842	Longitude -	443748.3205	, thence a line runs at bearing	80.238786	for	53.16	meters, to a point
Latitude -	682460.2721	Longitude -	443695.9346	, thence a line runs at bearing	37.077502	for	49.78	meters, to a point
Latitude -	682420.5591	Longitude -	443665.9244	, thence a line runs at bearing	94.590746	for	49.68	meters, to a point
Latitude -	682424.5351	Longitude -	443616.4073	, thence a line runs at bearing	127.72779	for	49.65	meters, to a point
Latitude -	682454.9187	Longitude -	443577.1349	, thence a line runs at bearing	139.80467	for	49.55	meters, to a point
Latitude -	682492.7638	Longitude -	443545.1586	, thence a line runs at bearing	137.49437	for	48.81	meters, to a point
Latitude -	682528.7474	Longitude -	443512.1792	, thence a line runs at bearing	127.98798	for	49.50	meters, to a point
Latitude -	682559.2142	Longitude -	443473.1666	, thence a line runs at bearing	123.74123	for	49.38	meters, to a point
Latitude -	682586.6438	Longitude -	443432.1017	, thence a line runs at bearing	122.91734	for	48.97	meters, to a point
Latitude -	682613.258	Longitude -	443390.9897	, thence a line runs at bearing	107.47615	for	50.88	meters, to a point
Latitude -	682628.538	Longitude -	443342.4573	, thence a line runs at bearing	61.506296	for	24.31	meters, to a point
Latitude -	682616.939	Longitude -	443321.089	, thence a line runs at bearing	54.393735	for	49.52	meters, to a point
Latitude -	682588.105	Longitude -	443280.8234	, thence a line runs at bearing	82.317772	for	50.17	meters, to a point
Latitude -	682581.398	Longitude -	443231.1012	, thence a line runs at bearing	74.635819	for	51.26	meters, to a point
Latitude -	682567.8154	Longitude -	443181.6692	, thence a line runs at bearing	92.246795	for	50.64	meters, to a point
Latitude -	682569.8008	Longitude -	443131.0652	, thence a line runs at bearing	85.993422	for	51.67	meters, to a point
Latitude -	682566.1004	Longitude -	443079.5191	, thence a line runs at bearing	84.559808	for	52.25	meters, to a point

Latitude - 682155.8044	Longitude - 444141.3255	, thence a line runs at bearing	192.33936	for	51.78	meters, to a point
Latitude - 682206.3861	Longitude - 444152.3905	, thence a line runs at bearing	144.02059	for	55.16	meters, to a point
Latitude - 682251.023	Longitude - 444119.9844	, thence a line runs at bearing	139.19441	for	51.19	meters, to a point
Latitude - 682289.7679	Longitude - 444086.5341	, thence a line runs at bearing	148.96989	for	49.25	meters, to a point
Latitude - 682331.9707	Longitude - 444061.1459	, thence a line runs at bearing	184.46295	for	32.45	meters, to a point
Latitude - 682364.3251	Longitude - 444063.6712	, thence a line runs at bearing	160.76239	for	48.84	meters, to a point
Latitude - 682410.4384	Longitude - 444047.5789	, thence a line runs at bearing	174.6701	for	6.72	meters, to a point
Latitude - 682417.1291	Longitude - 444046.9547	, thence a line runs at bearing	188.74225	for	50.71	meters, to a point
Latitude - 682467.2506	Longitude - 444054.6622	, thence a line runs at bearing	161.95171	for	48.50	meters, to a point
Latitude - 682513.363	Longitude - 444039.6364	, thence a line runs at bearing	138.55723	for	52.75	meters, to a point
Latitude - 682552.9063	Longitude - 444004.7218	, thence a line runs at bearing	113.72821	for	50.28	meters, to a point
Latitude - 682573.1405	Longitude - 443958.6886	, thence a line runs at bearing	94.901318	for	11.19	meters, to a point
Latitude - 682574.0963	Longitude - 443947.5427	, thence a line runs at bearing	113.31432	for	30.22	meters, to a point
Latitude - 682586.0572	Longitude - 443919.7889	, thence a line runs at bearing	101.91306	for	51.54	meters, to a point
Latitude - 682596.6962	Longitude - 443869.3602	, thence a line runs at bearing	36.021942	for	27.90	meters, to a point
Latitude - 682574.1307	Longitude - 443852.9522	, thence a line runs at bearing	35.813546	for	49.96	meters, to a point
Latitude - 682533.62	Longitude - 443823.7204	, thence a line runs at bearing	43.078935	for	50.36	meters, to a point
Latitude - 682496.8391	Longitude - 443789.3268	, thence a line runs at bearing	56.100181	for	49.40	meters, to a point
Latitude - 682469.2842	Longitude - 443748.3205	, thence a line runs at bearing	80.238786	for	53.16	meters, to a point
Latitude - 682460.2721	Longitude - 443695.9346	, thence a line runs at bearing	37.077502	for	49.78	meters, to a point
Latitude - 682420.5591	Longitude - 443665.9244	, thence a line runs at bearing	94.590746	for	49.68	meters, to a point
Latitude - 682424.5351	Longitude - 443616.4073	, thence a line runs at bearing	127.72779	for	49.65	meters, to a point
Latitude - 682454.9187	Longitude - 443577.1349	, thence a line runs at bearing	139.80467	for	49.55	meters, to a point
Latitude - 682492.7638	Longitude - 443545.1586	, thence a line runs at bearing	137.49437	for	48.81	meters, to a point
Latitude - 682528.7474	Longitude - 443512.1792	, thence a line runs at bearing	127.98798	for	49.50	meters, to a point
Latitude - 682559.2142	Longitude - 443473.1666	, thence a line runs at bearing	123.74123	for	49.38	meters, to a point
Latitude - 682586.6438	Longitude - 443432.1017	, thence a line runs at bearing	122.91734	for	48.97	meters, to a point
Latitude - 682613.258	Longitude - 443390.9897	, thence a line runs at bearing	107.47615	for	50.88	meters, to a point
Latitude - 682628.538	Longitude - 443342.4573	, thence a line runs at bearing	61.506296	for	24.31	meters, to a point
Latitude - 682616.939	Longitude - 443321.089	, thence a line runs at bearing	54.393735	for	49.52	meters, to a point
Latitude - 682588.105	Longitude - 443280.8234	, thence a line runs at bearing	82.317772	for	50.17	meters, to a point
Latitude - 682581.398	Longitude - 443231.1012	, thence a line runs at bearing	74.635819	for	51.26	meters, to a point
Latitude - 682567.8154	Longitude - 443181.6692	, thence a line runs at bearing	92.246795	for	50.64	meters, to a point
Latitude - 682569.8008	Longitude - 443131.0652	, thence a line runs at bearing	85.993422	for	51.67	meters, to a point
Latitude - 682566.1904	Longitude - 443079.5191	, thence a line runs at bearing	84.559808	for	52.25	meters, to a point

Latitude - 682561.2371	Longitude - 443027.5081	, thence a line runs at bearing	82.682417	for	51.63	meters, to a point
Latitude - 682554.6615	Longitude - 442976.3022	, thence a line runs at bearing	65.553195	for	38.23	meters, to a point
Latitude - 682538.841	Longitude - 442941.5017	, thence a line runs at bearing	83.517211	for	52.49	meters, to a point
Latitude - 682532.915	Longitude - 442889.3506	, thence a line runs at bearing	87.634655	for	13.16	meters, to a point
Latitude - 682532.3718	Longitude - 442876.2001	, thence a line runs at bearing	61.591078	for	50.02	meters, to a point
Latitude - 682508.5731	Longitude - 442832.2017	, thence a line runs at bearing	52.073564	for	14.32	meters, to a point
Latitude - 682499.7722	Longitude - 442820.9072	, thence a line runs at bearing	33.740807	for	38.77	meters, to a point
Latitude - 682467.5289	Longitude - 442799.3704	, thence a line runs at bearing	45.281096	for	50.23	meters, to a point
Latitude - 682432.1861	Longitude - 442763.6791	, thence a line runs at bearing	48.634863	for	51.47	meters, to a point
Latitude - 682398.1711	Longitude - 442725.0493	, thence a line runs at bearing	34.873208	for	27.19	meters, to a point
Latitude - 682375.8645	Longitude - 442709.5035	, thence a line runs at bearing	42.80012	for	51.43	meters, to a point
Latitude - 682338.1303	Longitude - 442674.5611	, thence a line runs at bearing	42.232164	for	49.35	meters, to a point
Latitude - 682301.5898	Longitude - 442641.3908	, thence a line runs at bearing	42.020467	for	49.75	meters, to a point
Latitude - 682264.6324	Longitude - 442608.0903	, thence a line runs at bearing	36.991131	for	49.75	meters, to a point
Latitude - 682224.892	Longitude - 442578.1534	, thence a line runs at bearing	8.0081727	for	51.75	meters, to a point
Latitude - 682173.6489	Longitude - 442570.9442	, thence a line runs at bearing	353.10155	for	47.41	meters, to a point
Latitude - 682126.5814	Longitude - 442576.6387	, thence a line runs at bearing	11.911044	for	51.69	meters, to a point
Latitude - 682076.0088	Longitude - 442565.9712	, thence a line runs at bearing	39.853283	for	49.72	meters, to a point
Latitude - 682037.8362	Longitude - 442534.1068	, thence a line runs at bearing	29.162241	for	37.50	meters, to a point
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Latitude - 681977.8996	Longitude - 442471.9519	, thence a line runs at bearing	58.03957	for	52.08	meters, to a point
Latitude - 681950.3301	Longitude - 442427.7636	, thence a line runs at bearing	43.550561	for	49.12	meters, to a point
Latitude - 681914.7262	Longitude - 442393.917	, thence a line runs at bearing	48.044103	for	50.57	meters, to a point
Latitude - 681880.9143	Longitude - 442356.3069	, thence a line runs at bearing	63.894827	for	51.22	meters, to a point
Latitude - 681858.378	Longitude - 442310.3151	, thence a line runs at bearing	95.931835	for	50.69	meters, to a point
Latitude - 681863.6163	Longitude - 442259.8991	, thence a line runs at bearing	99.369371	for	51.24	meters, to a point
Latitude - 681871.9589	Longitude - 442209.3378	, thence a line runs at bearing	96.027139	for	51.22	meters, to a point
Latitude - 681877.3368	Longitude - 442158.4026	, thence a line runs at bearing	86.647425	for	51.89	meters, to a point
Latitude - 681874.302	Longitude - 442106.5968	, thence a line runs at bearing	87.619468	for	53.61	meters, to a point
Latitude - 681872.0751	Longitude - 442053.0296	, thence a line runs at bearing	83.177214	for	50.21	meters, to a point
Latitude - 681866.1105	Longitude - 442003.1776	, thence a line runs at bearing	35.753566	for	123.44	meters, to a point
Latitude - 681796.6418	Longitude - 441901.1355	, thence a line runs at bearing	64.834788	for	50.75	meters, to a point
Latitude - 681775.0603	Longitude - 441855.2001	, thence a line runs at bearing	52.120752	for	49.95	meters, to a point
Latitude - 681744.3917	Longitude - 441815.7751	, thence a line runs at bearing	51.406935	for	50.50	meters, to a point
Latitude - 681712.8892	Longitude - 441776.3028	, thence a line runs at bearing	38.071845	for	50.93	meters, to a point

Latitude - 681672.7984	Longitude - 441744.8994	, thence a line runs at bearing	36.384247	for	52.07	meters, to a point
Latitude - 681630.8818	Longitude - 441714.0136	, thence a line runs at bearing	88.482966	for	46.56	meters, to a point
Latitude - 681629.6491	Longitude - 441667.4675	, thence a line runs at bearing	78.128008	for	48.91	meters, to a point
Latitude - 681619.5873	Longitude - 441619.6049	, thence a line runs at bearing	84.318893	for	53.01	meters, to a point
Latitude - 681614.3393	Longitude - 441566.8507	, thence a line runs at bearing	90.324112	for	51.64	meters, to a point
Latitude - 681614.6314	Longitude - 441515.2147	, thence a line runs at bearing	142.73283	for	18.25	meters, to a point
Latitude - 681629.1528	Longitude - 441504.1655	, thence a line runs at bearing	140.34768	for	49.89	meters, to a point
Latitude - 681667.5642	Longitude - 441472.3297	, thence a line runs at bearing	149.66131	for	49.47	meters, to a point
Latitude - 681710.2588	Longitude - 441447.3423	, thence a line runs at bearing	165.59523	for	55.70	meters, to a point
Latitude - 681764.21	Longitude - 441433.4852	, thence a line runs at bearing	186.66896	for	49.29	meters, to a point
Latitude - 681813.1658	Longitude - 441439.2093	, thence a line runs at bearing	186.58605	for	48.85	meters, to a point
Latitude - 681861.6955	Longitude - 441444.8124	, thence a line runs at bearing	101.9569	for	31.28	meters, to a point
Latitude - 681868.175	Longitude - 441414.2156	, thence a line runs at bearing	84.6355	for	42.17	meters, to a point
Latitude - 681864.2324	Longitude - 441372.2296	, thence a line runs at bearing	178.21769	for	3.18	meters, to a point
Latitude - 681867.4107	Longitude - 441372.1307	, thence a line runs at bearing	152.12374	for	49.31	meters, to a point
Latitude - 681911.0024	Longitude - 441349.0732	, thence a line runs at bearing	134.61002	for	19.52	meters, to a point
Latitude - 681924.7113	Longitude - 441335.1764	, thence a line runs at bearing	125.66724	for	49.98	meters, to a point
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Latitude - 681993.1752	Longitude - 441151.718	, thence a line runs at bearing	103.05886	for	49.71	meters, to a point
Latitude - 682004.4075	Longitude - 441103.2926	, thence a line runs at bearing	95.180409	for	50.95	meters, to a point
Latitude - 682009.0078	Longitude - 441052.5516	, thence a line runs at bearing	97.541451	for	51.43	meters, to a point
Latitude - 682015.7582	Longitude - 441001.5623	, thence a line runs at bearing	93.908312	for	51.87	meters, to a point
Latitude - 682019.2939	Longitude - 440949.8094	, thence a line runs at bearing	109.94037	for	49.72	meters, to a point
Latitude - 682036.2512	Longitude - 440903.0683	, thence a line runs at bearing	141.66729	for	49.88	meters, to a point
Latitude - 682075.3755	Longitude - 440872.1335	, thence a line runs at bearing	135.22113	for	50.07	meters, to a point
Latitude - 682110.9182	Longitude - 440836.8641	, thence a line runs at bearing	118.76091	for	49.54	meters, to a point
Latitude - 682134.7569	Longitude - 440793.4315	, thence a line runs at bearing	152.96619	for	50.09	meters, to a point
Latitude - 682179.3771	Longitude - 440770.6632	, thence a line runs at bearing	128.79363	for	50.84	meters, to a point
Latitude - 682211.227	Longitude - 440731.0409	, thence a line runs at bearing	66.287629	for	35.77	meters, to a point
Latitude - 682196.8421	Longitude - 440698.2904	, thence a line runs at bearing	69.185281	for	50.56	meters, to a point
Latitude - 682178.8765	Longitude - 440651.0322	, thence a line runs at bearing	86.090121	for	51.82	meters, to a point
Latitude - 682175.3427	Longitude - 440599.3279	, thence a line runs at bearing	86.448734	for	51.23	meters, to a point
Latitude - 682172.1696	Longitude - 440548.199	, thence a line runs at bearing	108.29295	for	49.75	meters, to a point

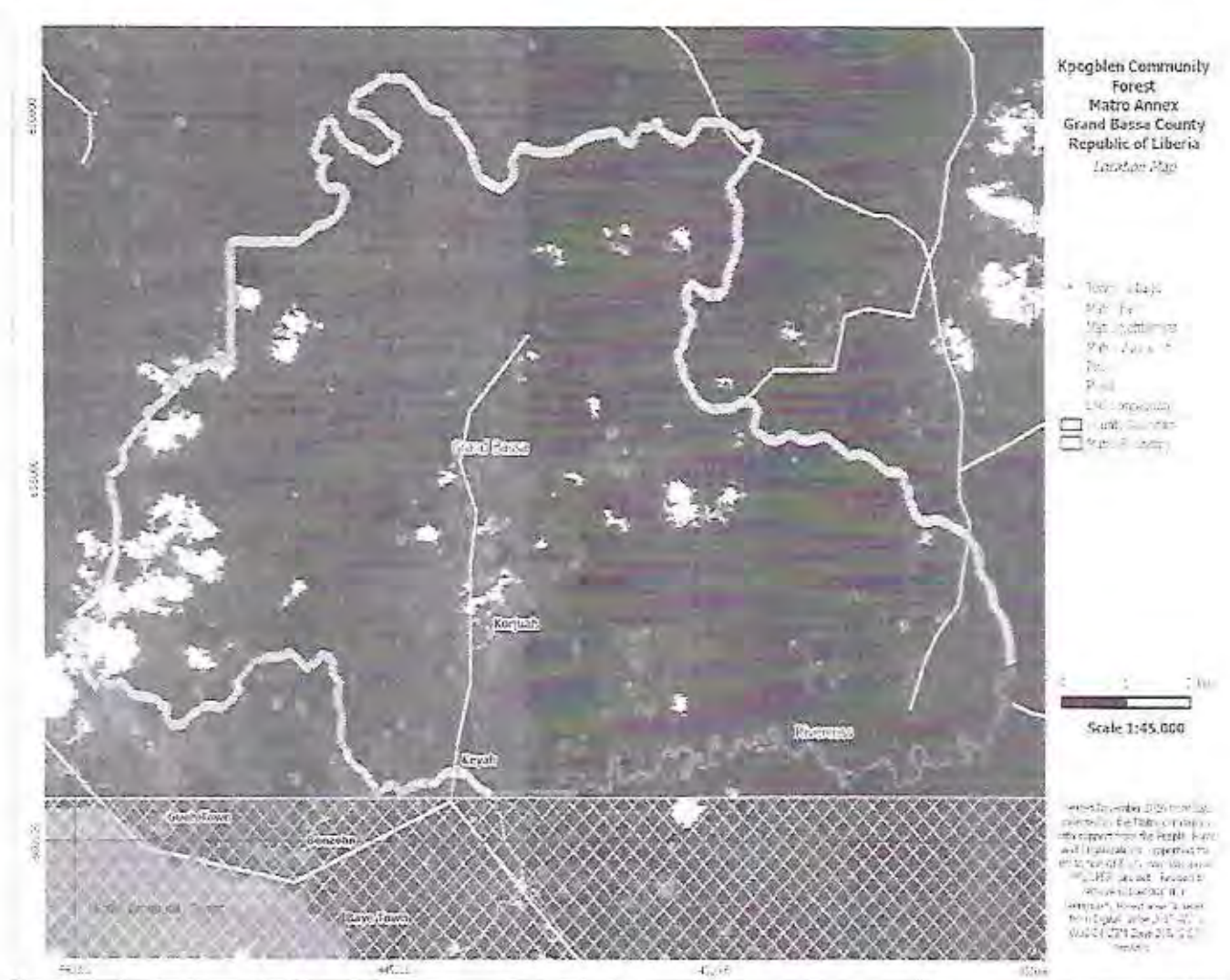
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Latitude - 682221.0145	Longitude - 440461.7434	, thence a line runs at bearing	129.30942	for	50.86	meters, to a point
Latitude - 682253.2352	Longitude - 440422.3906	, thence a line runs at bearing	43.991355	for	46.17	meters, to a point
Latitude - 682220.0211	Longitude - 440390.3258	, thence a line runs at bearing	32.898363	for	48.86	meters, to a point
Latitude - 682178.9995	Longitude - 440363.7894	, thence a line runs at bearing	34.9503	for	50.30	meters, to a point
Latitude - 682137.7672	Longitude - 440334.9715	, thence a line runs at bearing	142.16942	for	24.75	meters, to a point
Latitude - 682157.3152	Longitude - 440319.7918	, thence a line runs at bearing	136.26439	for	52.82	meters, to a point
Latitude - 682195.4819	Longitude - 440283.2735	, thence a line runs at bearing	139.48337	for	48.42	meters, to a point
Latitude - 682232.2905	Longitude - 440251.8175	, thence a line runs at bearing	149.79742	for	48.69	meters, to a point
Latitude - 682274.3738	Longitude - 440227.3219	, thence a line runs at bearing	153.89318	for	51.02	meters, to a point
Latitude - 682320.1892	Longitude - 440204.8704	, thence a line runs at bearing	158.4472	for	50.13	meters, to a point
Latitude - 682366.8159	Longitude - 440186.454	, thence a line runs at bearing	162.80604	for	48.84	meters, to a point
Latitude - 682413.4756	Longitude - 440172.0158	, thence a line runs at bearing	181.06989	for	49.37	meters, to a point
Latitude - 682462.8347	Longitude - 440172.9376	, thence a line runs at bearing	168.63076	for	50.93	meters, to a point
Latitude - 682512.7609	Longitude - 440162.8986	, thence a line runs at bearing	154.02813	for	26.18	meters, to a point
Latitude - 682536.299	Longitude - 440151.4326	, thence a line runs at bearing	168.67825	for	49.63	meters, to a point
Latitude - 682584.9648	Longitude - 440141.689	, thence a line runs at bearing	193.22766	for	39.20	meters, to a point
Latitude - 682623.1223	Longitude - 440150.6582	, thence a line runs at bearing	178.82338	for	50.34	meters, to a point
Latitude - 682673.4564	Longitude - 440149.6244	, thence a line runs at bearing	169.75718	for	51.29	meters, to a point
Latitude - 682723.9284	Longitude - 440140.5041	, thence a line runs at bearing	173.7116	for	50.50	meters, to a point
Latitude - 682774.128	Longitude - 440134.9723	, thence a line runs at bearing	192.63328	for	49.20	meters, to a point
Latitude - 682822.1336	Longitude - 440145.7321	, thence a line runs at bearing	186.49993	for	50.59	meters, to a point
Latitude - 682872.3959	Longitude - 440151.4587	, thence a line runs at bearing	214.115	for	57.61	meters, to a point
Latitude - 682920.0923	Longitude - 440183.7698	, thence a line runs at bearing	174.45963	for	48.00	meters, to a point
Latitude - 682967.8726	Longitude - 440179.1351	, thence a line runs at bearing	168.68472	for	49.56	meters, to a point
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Latitude - 683175.5407	Longitude - 440089.8288	, thence a line runs at bearing	246.48839	for	34.48	meters, to a point
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Latitude - 683364.5986	Longitude - 440369.3481	, thence a line runs at bearing	234.81502	for	49.78	meters, to a point
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Latitude - 683565.9909	Longitude - 440511.1857	, thence a line runs at bearing	212.92092	for	50.88	meters, to a point
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Latitude - 683846.2099	Longitude - 440624.9108	, thence a line runs at bearing	191.39087	for	50.97	meters, to a point
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Latitude - 685579.1066	Longitude - 440923.9869	, thence a line runs at bearing	213.49696	for	49.46	meters, to a point
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Latitude - 685731.2767	Longitude - 441049.2251	, thence a line runs at bearing	233.10541	for	48.35	meters, to a point
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Latitude - 685858.5146	Longitude - 441162.8927	, thence a line runs at bearing	175.36163	for	48.93	meters, to a point
Latitude - 685907.2857	Longitude - 441158.9358	, thence a line runs at bearing	195.40393	for	49.37	meters, to a point
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Latitude - 686004.2277	Longitude - 441296.5803	, thence a line runs at bearing	235.20397	for	49.03	meters, to a point
Latitude - 686032.2077	Longitude - 441336.8442	, thence a line runs at bearing	241.89198	for	49.63	meters, to a point
Latitude - 686055.5885	Longitude - 441380.6178	, thence a line runs at bearing	232.9119	for	48.72	meters, to a point

Kpo-Gblen Vegetation Map

The Kpogblen Clan, District #4 Community Forest boundaries are depicted in the map below.



4.1.2 History of past and current management

Past and current management and use of the forest include; shifting cultivation, and unregulated hunting and collection of a variety of non-timber forest products (NTFP). The forest has been traditionally considered a place to hunt and collect NTFP, and to clear in order to farm.

There has been no commercial logging activities in recent years; most of and adjacent forested landscapes have been used primarily by local people for their own household consumption of timber products and Non-Timber Forest Products. The community has had limited management of the landscape and a system of open access for members of the community is the current management regime.

4.1.3. Major vegetation types.

High elevation regions have forest of evergreen, deciduous and semi deciduous trees, including ironwood and mahogany. However, the vegetation of Kpo-Gblen community forest as a whole consists of high forest, bushes interspersed which are the product of human activities such as farming, mining, Pitsawing, and settlements. Moist

semi-deciduous forests are the most common forest type in the community. These forest types are characterized by tree species such as *Anthonotha fragrans*, *Entandrophragma utile*, *Nesogordonia papaverifera*, *Lophira alata*, *Terminalia superba*, *Tetraberlinia tubmaniana* and *Troplochiton scleroxylon*. Results of a recent assessment in this forest show that most of these species are found in the forest. These tree species have quality timber that will attract a third party that will create jobs and development for our people.

4.1.4. Wildlife:

Animals population in the Forest is immense and the CFMB will ensure that animals that are deemed protected by the Forestry Development Authority will remain protected. Some of the wild animals that can be found in our forest include *Cephalophus jentinki* (Jentink Duiker), *Choeropsis liberiensis* (Zebra Duiker), *Panthera pardus* (Leopard) just to mention a few. See table 3 for list of fauna species found in Liberia and by some degree of transitivity these fauna species can be found in the community forest though a research has to be conducted soon.

4.1.5. Water Resources:

Considering the location of the forest, there are a number of watercourses, including rivers and many creeks used for drinking, cooking, bathing, washing, and, at times, swimming. It is, therefore, a critical watershed; however, and very importantly, serious care will be taken to prevent any harvesting of tree species near any of these bodies of water in line with the FDA Code of Harvesting Practices.

4.1.6 Threats to the forest and its resources

The community forest faces a number of direct and indirect threats to its integrity as a whole and to its biodiversity resources specifically. The major direct threats are shifting farming, uncontrolled hunting and fishing, fire, destructive logging (including chainsaw logging commonly known as pit sawing), and charcoaling.

Local bush meat hunting, which provides food and income, is another threat to biodiversity. Although rodents comprise the majority of bush meat, primates are particularly threatened because their long reproductive cycles mean slower population increase – and because they fetch higher prices on the market.

4.1.7 Management Action.

The CFMB will ensure that community members are introduced to low land farming, prevent the chain saw activities in the forest and with the help of the FDA and Partners introduce alternative livelihood programs to members of the Kpo-Gblen Community forest.

5. SOCIAL MANAGEMENT

5.1 Permanent consultation process between the FDA and the CFMB

This plan calls for quarterly meetings between the CFMB and the FDA. The Technical Manager of the Department of Community Forestry of the FDA will always be invited to these meetings, along with representatives of the Conservation and Commercial Departments. Such a gathering is expected to create a platform for open and quality discussion about a range of resource management planning, administrative and institutional issues and challenges that are bound to emerge. People in the community, for example, may seek advice in an informal fashion for technical forest management activities they may want to undertake such as resource inventory, nursery establishment and management, and Agro forestry. Dialogues of this nature could help address these and related issues and concerns.

5.2 Benefit sharing:

The CFMB has established a benefit sharing committee that will be responsible for developing rules and systems to ensure fair and equitable benefit sharing of resources.

This benefit sharing committee's ultimate objective would be to develop, test and transparent, fair and simple processes by which the benefits of sustainable and profitable forest management and use are clearly defined and shared equitably. Specific tasks are to: define the sources or streams (timber harvesting, permits, ecosystem services, etc); how they will be shared within and between households, individuals, the FDA and community; and develop proper procedures for reporting, auditing and monitoring benefit streams. This will require the facilitation and support of the FDA and other resource providers.

6.0 Forest Zoning and Resources:

6.1 Primary forest:

The majority of Kpo-Gblen Forest is characterized as primary forest and comprises approximately 8,833 hectares. More than 30 different species were during the inventory process.

Based on the superficial inventory done, it is observed that most of trees have a dbh of over 60 centimeters. Many of the tree species found in this forest have commercial timber value, while others can be prized locally for their barks, exudates, roots and stems for products such as food, medicine, handicrafts (masks and drums) household utensils and implements, beverages and ropes. Some examples of these species include *Uapaca spp*, *Sacoglottis gabonensis*, African corkwood (*Musanga cecropioides*) and Monkey plum (*Dacryodes klaineana*).

Fruits of certain *Uapaca spp* and *Dacryodes klaineana* are also a source of food for Chimpanzees and some species of monkeys. The seeds of certain *Xylopia spp* serve as spices and medicines and young stems (2-3 years old) are used as rafters in the construction of houses in rural ,peri-urban and urban communities. However, a more detail inventory will be conducted by a third party entering into agreement with us for the purpose of doing commercial logging and as such, species class, diameter etc. will be detailed.

6.2 Management Actions

The forest inventory serves as one of the knowledge bases upon which management decisions are, and will be made. It also provides a baseline of information by which to monitor the efficacy of the forest management actions. Accordingly, forest management actions related to the inventory will include the establishment of permanent sample plots which can be used to assess growth rates, and better understand the ecology of the forest. The CFMB will be supported in this by the FDA.

Old Growth Forests

Accordingly, the management objectives for the old growth areas of the forest will be to sustainably harvest of forest resources in line with FDA regulations regarding commercial forestry. However, NTFP extraction will be permitted within the forest will be allowed. Permits will be required to conduct any felling operations, and a forest management & annual operation plans must be developed and filed with the FDA and the CFMB which will monitor these activities.

Although a preliminary inventory has been conducted, further information needs to be collected and an analysis of current data conducted in order to determine an estimate of volume in the Kpo-Gblen Forest on a per hectare basis. This should be done to determine an annual allowable cut level which is

sustainable. Should communities wish to harvest in the old growth forest, this analysis could be done with the support of FDA. FDA could also assist the communities to identify the location from which the volume could be removed. In addition, any harvesting will comply with FDA harvesting regulations and best practices will be employed (e.g. maintain stream buffers and restrict harvesting of trees that provide a food source for endangered species).

This will require a series of reconnaissance to identify and mark the timber tree species that are to be harvested. Simple harvesting and processing equipment and low-impact harvesting methods will be used to reduce waste¹ and minimize damage to the remaining trees in the stand. The selection of trees for harvesting will ensure that healthy trees remain as the gene pool for the next generation of trees in the forest. This work will be conducted primarily through the Committee on Forest Management Use with support from the FDA.

6.3 Secondary forests:

In order to improve the stand quality in these areas, selective harvesting will be permitted in these areas. However, harvesting will only be conducted after a permit is obtained and approved by the CFMB and an operation plan filed. This will also require the calculation of an annual allowable cut, along with a series of reconnaissance to identify and mark the timber tree species that are to be harvested. Here too, simple harvesting and processing equipment and low-impact harvesting methods will be used limit damage to the remaining stand and minimize to waste. The selection of trees for harvesting will be done such that trees with straight and tall stems and no signs of pest and disease attacks remain to provide a strong gene pool for the next generation of trees in the forest. This work will be conducted primarily through the Committee on Forest Management Use with support from FDA.

Agro forestry techniques will also be used to provide livelihood alternatives and to demarcate boundaries of the forest. Tree crops such as citrus, wolor, mango, cocoa and coffee, along with NTFP (e.g. *Griffonia simplicifolia*, Grain of Paradise) will also be introduced in the secondary forest areas. Areas will be identified by the Committee on Agro forestry which will take the lead on identifying areas, establishing nurseries and establishing agro forestry systems in the secondary forest areas and buffer areas.

6.4 Swamp forest:

As a freshwater swamp, this compartment is a type of wetland and as such, serves as habitat for fish, mammals, and other types of aquatic life. It also is a critical watershed supporting many creeks, streams and rivers in this and adjacent communities. Given this, the only management option proposed for these zones are protection against fishing, logging, farming and mining.

7.0 Management of the Forest

Tables 4 and 5 at the end of this plan, summarize information by forest zone

8.0 General management approach

The term "management," as used in this plan, refers to how rural people harvest, use, care for, reproduce, and improve their forest resources including trees, wild animals, water, and plants.

There has been limited management of the Forest in recent memory. Management could be characterized as one of open use and open access. Preliminary information has been collected regarding the resources and the use therein, but much more information needs to be collected in order to ensure

the sustainable use and management of the Kpo-Gblen Forest resources. Accordingly, this management plan will focus on information collection, development of best practices, the development of rules for use of forest resources, and monitoring the results of these practices.

Under the CRL, a management plan is a requisite for FDA's approval of a community's right to manage a given forest. A management plan, however, is not a static document, but rather a dynamic and flexible set of actions to guide towards managing targeted resources.

The design and implementation of this management plan is an ongoing process that must remain consultative so that local knowledge is integrated in its design and execution.

8.1 Demarcation and boundary maintenance

8.2 Current description

The Kpo-Gblen community forest has been in the custody of the communities surrounding the area since 1812. The forest has been demarcated based on the metes and bound provided by the FDA and boundary lines will be maintained by selected members of the community

8.3 Management actions.

The boundary of the Kpo-Gblen forest will need to be re-cleared at least twice a year. Trees, such as coffee, cocoa and other trees with potential commercial value will be planted along the boundaries to create a visual boundary and to provide supplementary income to the CFMB. Signs indicating where the boundary is located and depicting the boundaries will be erected in strategic locations. The Committee on Forest Protection and Rules Enforcement will have primary responsibility for implementing management actions associated boundary demarcation and maintenance.

In addition, both formal and informal consultations with community members and leaders living near the Forest will be necessary in order to have the boundary maintained and respected. The communities have given up their claims to farm in the forest, and the CFMB will work with community leaders to ensure that these community members are given alternatives by the community. A series of consultative meetings with inhabitants whose "land" has been part of community Forest and those not affected this way shall be the major activity to avoid or manage conflict. The Committee on Benefit Sharing and Conflict Management will support these activities.

8.4 Inventory of valuable resources of the forest

8.5 Fire management

8.5.1 Current description

Fire is used in hunting and for site preparation in shifting cultivation. The Kpo-Gblen communities identified fire as a threat to forest and biodiversity resources. However, because of the importance of fire in the shifting cultivation system, many locals do not perceive it as an important threat.

8.5.2 Management actions

While being a useful management tool for agriculture, fire can also present a threat to forests. Management activities will include rules development, education and awareness of the community regarding the danger that fire poses to the forest. The Membership and Rules Committee will develop rules regarding the use of fire in the managed forest and its buffer zone. Education and awareness of the rules will be disseminated through media such as signage, community meetings and other specific actions determined by the rules committee. Enforcement will be pursued through patrols, fines, and other forms of penalty. The CFMB will also work with other stakeholders in the region to support ecological studies to assess the impact and role of fire on the landscape.

8.5.3 Water management

8.5.4 Current description

Traditionally, in communities around the community forest, codes of conduct set aside certain creeks, streams and rivers as sacred where fishing, swimming, and fetching water are forbidden. However, these bodies of water are a fraction of existing ones and in almost all cases; the code is no longer respected. There are many creeks and rivers that are littered with logs and other debris felled from shifting cultivation or as a result of road construction from concession operations.

In Liberia, in general, and in the Kpo-Gblen communities in particular, management of rural water supply for the purposes of water sanitation, hygiene, and delivery systems for drinking water and so on does not exist. As a large percentage of the local population depends on water bodies as their primary water source, the protection of watersheds is vital.

8.5.5 Management actions

In keeping with FDA Code of Forest Harvesting Practice a buffer strip of 30 meters should be left along the banks of rivers, 20 meters for creeks, and 10 meters for streams bordering farms should be void of logging activities. In practice, there are no such strips along riverbanks in Kpo-Gblen where farming is taking place. The first action is to draft and enforce rules to protect watersheds that drain from or pass through the Kpo-Gblen CFMB, specifically establishing buffer strips of about 30 meters along the banks of creeks, streams, and rivers and establishing rules about depositing wastes. All water bodies shall be protected against water fencing and the use of chemical or organic poisons as fishing methods. Education and awareness campaigns will support enforcement of these rules through signage at critical sites and education.

8.5.6 Management of wildlife (animals and plants)

8.5.7 Current description

Conservation of flora and fauna is accomplished through taboos or social restrictions placed on the collection and harvesting of certain animal and plant species (out of tradition or a sense of scarcity). In the Kpo-Gblen community, the people maintain binding norms to which members adhere. In particular, there are taboos that protect various habitats or animal species because some clans forbid members from hunting and eating such animals. Others prohibit certain types of hunting and fishing practices in some parts of the forest and in creeks and rivers.

Many clans reserve sacred groves where hunting and cutting of trees is forbidden because they believe ancestral or evil spirits reside in those areas. Such cultural traditions and beliefs can contribute to the protection of fauna and flora but are not sufficient to stem the tide of people's needs as culture erodes and population explodes while forest cover depletes. There is widespread acknowledgement in this

community that large mammals and commercial timber tree species are fast depleting because of overexploitation, the result of uncontrolled hunting and destructive logging.

8.6 Non - Timber Forest Product Management:

The community did not identify any premium timber species that are overexploited or endangered but provided a list of non-timber plant-based species that will require future management in order to avoid over-exploitation. These include griffonia (*Griffonia simplicifolia*), black pepper (*Piper nigrum*), xylopia (*Xylopia quintasii*), wolor (*Beilschmiedia manii*), rattans, wild oil palm (*Elaeis guineensis*), walnut, mat straw, and raffia. Listed also under this category were other species valued for their medicinal uses, spices, animal food and other use categories such as *Ricidodendron heudelotii*, *Ongokea gore*, *Afrosia cidacia*, *Mamea africana*, *Parkia bicolor*, *Fagara macrophylla* (Gayelee for drum), *Bussea occidentalis*, wild yam, mushrooms, bamboo, bitter cola, raffia palm and palm thatch.

8.6.1 Management actions

The Membership and Rules Committee will work closely with the Committee on Forest Resource Management to develop a permitting system, collect data, and develop rules related to wildlife and NTFP.

The first step will involve setting up a permitting system that will allow the CFMB to monitor the users accessing the forest for various resources. The Committee on Forest Resource Management will be responsible for developing the permitting and reporting systems with support from FDA and others.

Permit holders will not initially be required to pay a fee, but they will be required to report on their activities. This will allow the committee to better understand what is being extracted from the forest and in what numbers to inform the rules development process. This will also serve as a monitoring system.

The Membership and Rules Committee will develop initial rules and will support the Committee on Forest Resources Management to create awareness around the rules. They will also be responsible for developing signage and creating awareness for the rules in the community. Within a year, more comprehensive rules will be developed based on data collected from the permitting system. Rules will be updated annually as the community gathers more information through the permitting system.

Where regulations or laws have been broken, violators will be immediately reported to FDA for enforcement. Enforcement will be through patrol and issuing of fines and/or revocation of permits. Violations of CFMB rules, will be dealt with by penalties approved by the CFMB.

In addition, certain NTFP that can be cultivated, will be introduced into gardens to reduce the pressure on wild resources. *Griffonia* is one such resource that has already been domesticated and introduced into the Kpo-Gblen communities and has the potential to provide income to cultivators. Cultivation of plant-based NTFPs can take several forms, including commercial plantations, smallholder cultivation (fallow farming, home gardens, etc), and enrichment planting in forest areas. The CFMB will seek support for these activities from the FDA and other experts. This will be the responsibility of the Agro forestry Committee.

8.7 Mineral prospecting and mining

8.7.1 Current description

Artisanal mining for diamond and gold, respectively, are a major activity around Kpo-Gblen, but there is no evidence of mining or mineral prospecting within the boundaries of the forest.

8.7.2 Management actions

Mining of any kind in Kpo-Gblen and its buffer zone shall be forbidden until rules have been developed.

9.0 Enforcement of rules, monitoring and reporting

9.1 Enforcement of rules and monitoring

9.1.1 Current description

In addition to the laws of the Liberian government and specific regulations of the FDA related to forests, there are traditional rules that have served to protect a range of biological resources (animals, plants). These rules have regulated shifting farming, mining, poison fishing, uncontrolled hunting, trapping, and logging, but are, by and large, no longer enforced because of the breakdown in traditional systems as the result of war and the mistrust and the cultural erosion that ensued. There has been no effective enforcement of rules and result-oriented monitoring in and around Kpo-Gblen CF by either the FDA or the community due to low capacity.

9.1.2 Management actions

While efforts will focus primarily on education and awareness, a certain amount of enforcement will be necessary. Management actions will be the primary responsibility of the enforcement committee, but they will need to work closely with community educators and the Rules Committee. In and around the CF and its buffer zone; enforcement shall be carried out by patrols of trained forest guards. Training of these guards and establishing patrol routines will comprise the focus of management actions under this component. Special emphasis will be placed on distinguishing between CFMB rules (which will be dealt with at the community level) and violations of Liberia law (which will be dealt with by FDA or the appropriate authority)

Table 1: Summary of Management Action for areas zoned as Old Growth Forest

Forest Condition	Area [ha]	Management Conditions	Mgmt Actions	Issues	Opportunities	Management Goal
Old Growth/ Primary Forest	___ ha.	<ul style="list-style-type: none"> • Steep topography • Difficult access • Located not far from villages so not difficult to monitor activities therein 	Timber	<ul style="list-style-type: none"> • In the process of getting a third party to carry out sustainable harvest of timber 	<ul style="list-style-type: none"> • Carry out selectively & sustainable harvested of timber species 	<ul style="list-style-type: none"> • Provide employment, infrastructure development, etc. • Also preservation of critical habitat • Conduct scientific research for tree stand improvement.
			NTFP	<ul style="list-style-type: none"> • Harvesting common 	<ul style="list-style-type: none"> • Medicinal plants and other household products • Some products with commercial value 	<ul style="list-style-type: none"> • Establish quotas for NTFP collection • Monitor compliance through permitting system • Eliminate illegal collection methods through rules development, education and enforcement
			Fire	<ul style="list-style-type: none"> • Used to prepare agricultural sites adjacent to the old growth area 	<ul style="list-style-type: none"> • 	<ul style="list-style-type: none"> • Zone areas where clearing will be allowed in the buffer zone • Prevent clearing in non-permitted areas • Develop rules for fire management
			Water	<ul style="list-style-type: none"> • Some misuse of water resources • Destructive fishing practices • 	<ul style="list-style-type: none"> • Extensive water resources 	<ul style="list-style-type: none"> • Draft and enforce rules to protect watersheds
			Wild Animals	<ul style="list-style-type: none"> • Extensive hunting • Threatened chimpanzee population 	<ul style="list-style-type: none"> • 	<ul style="list-style-type: none"> • Establish rules and quotas for hunting • Monitor compliance through patrols and record keeping • Eliminate illegal hunting methods

Forest Condition	Area [ha]	Management Conditions	Mgmt Actions	Issues	Opportunities	Management Goal
			Minerals	<ul style="list-style-type: none"> Artisanal mining for diamonds and iron ore 	<ul style="list-style-type: none"> Mining company may provide remediation & community development support 	<ul style="list-style-type: none"> No mining activities for first five years of plan implementation Ensure that environmental damage from mining activities minimized

Table 2: Summary of Management Action for areas zoned as Secondary Growth Forest

Forest Condition	Area [ha]	Management Conditions	Mgmt Actions	Issues	Opportunities	Management Goal
Secondary Forest	— ha,	<ul style="list-style-type: none"> Close to agricultural fields: easy for villagers to cut timber Flatter topography, advantageous for forest protection and monitoring 	Timber	<ul style="list-style-type: none"> Some illegal harvesting is taking place 	<ul style="list-style-type: none"> Some big timber trees that could be selectively harvested 	<ul style="list-style-type: none"> Introduce selective harvesting Introduce agro forestry systems Tree stand improvement
			NTFP	<ul style="list-style-type: none"> Harvesting common 	<ul style="list-style-type: none"> Medicinal plants and other household products Some products with commercial value 	<ul style="list-style-type: none"> Establish quotas for NTFP collection Monitor compliance through permitting system Eliminate illegal collection methods through rules development, education and enforcement
			Fire	<ul style="list-style-type: none"> Used to prepare agricultural sites adjacent to the old growth area 	<ul style="list-style-type: none"> 	<ul style="list-style-type: none"> Zone areas where clearing will be allowed in the buffer zone Prevent clearing in non-permitted areas Develop rules for fire management

Forest Condition	Area [ha]	Management Conditions	Mgmt Actions	Issues	Opportunities	Management Goal
			Water	<ul style="list-style-type: none"> • Some misuse of water resources • Destructive fishing practices 	<ul style="list-style-type: none"> • Extensive water resources 	<ul style="list-style-type: none"> • Draft and enforce rules to protect watersheds
			Wild Animals	<ul style="list-style-type: none"> • Extensive hunting 	<ul style="list-style-type: none"> • Closer to villages for monitoring purposes 	<ul style="list-style-type: none"> • Establish rules and quotas for hunting • Monitor compliance through patrols and record keeping • Eliminate illegal hunting methods
			Minerals	<ul style="list-style-type: none"> • Artisanal mining for diamonds and iron ore 	<ul style="list-style-type: none"> • Mining company may provide remediation & community development support 	<ul style="list-style-type: none"> • No mining for first 5 years • Ensure that environmental damage from mining activities minimized through rules development and enforcement

9.2 Reporting

There are three types of reports expected to be made to designated committees in a given time interval. These are reports on unauthorized incidences (e.g. Wildfire, traps, chainsaw logging, new trails in/around Kpo-Gblen, water fences, etc), minutes of meetings on the various aspects of forest resource use and management (including protection for which patrols will be needed, maintenance of boundary lines, etc) and progress reports (to the FDA and the Community Assembly). For reports on unauthorized incidences, a patrol book will be used to catalogue such events.

10. COMMITTEES

The Kpo-Glen Community Forest Management Body is devoted to put in order the following five (5) committees listed below in order to support implementation of this plan.

10.1 Committee on benefit sharing and conflict management (COBCM)

This committee will be responsible for mediating conflicts arising from implementation of this management plan. Members of this committee will seek out and receive specialized training in conflict management.

10.2 Committee on Agro forestry systems and component technologies

The management plan call for the introduction of agro forestry systems, particularly in the buffer zones and in secondary forest areas. This committee will be responsible for identifying and managing agro forestry sites. They will also take responsibility for NTFP and tree nurseries.

10.3 Committee on forest resources management and use

This committee is charged with ensuring the sustainable harvesting and management of non-timber and timber forest-based products. In consultation with the FDA, this committee will be responsible for developing specific prescriptions for stands within the KPO-GLEN Forest. The committee will seek technical assistance in these matters from FDA and other partners.

10.4 Membership and Rules Committee

The membership committee will be responsible for recruiting members within their communities to be general members of the CFMB. Members of the committee will also be point people within their specific towns and villages. This committee will also be responsible for developing rules for implementation of this management plan. This includes rules on NTFP harvesting, hunting and other rules deemed necessary to implement this plan. This committee will also need to work closely with the CFMB and the Committee on forest protection and rules enforcement to design education and awareness initiatives to promote awareness of the rules that are developed.

10.5 Committee on forest protection and rules enforcement

This committee will be responsible for rules enforcement. This will include management of the forest guards, organizing patrols, reporting to the CFMB on violations, and liaising with FDA to for enforcement. In addition, this committee will be responsible for developing education and outreach materials to ensure that information is disseminated and understood by the community. This committee will also have primary responsibility for the boundary demarcation activities.

MONITORING AND EVALUATION

Monitoring and evaluation is a critical component of the management plan and will ensure sustainability. A number of on-going management activities will provide the basis for monitoring and evaluation (M&E) so that M&E is integrated into management and not seen as a standalone activity. These activities are listed below with reference to their descriptions in other sections of this document.

- The types and degree of vegetation changes will be monitored and evaluated through the establishment of permanent sample plots. Information collected will be shared with the FDA for analysis.
- Audits of the CFMB will be conducted internally on an annual basis to ensure that all records are in place. A checklist of documents and records will be developed for ease in this exercise.
- The plan will be reviewed at the end of five years to assess the progress of the plan. If necessary, the plan will be revised at that time. Annual operational plans will be developed and progress toward annual objectives will be assessed by the FDA and CFMB on an annual basis at the annual meeting of the CFMB.

PLAN IMPLEMENTATION

Successful implementation of this plan will require a dedicated core of volunteers in the KPO-GLEN community, general community acceptance and commitment, and cooperation and buy in from the FDA and the local government in BASSA County. It is anticipated that partner funding and programming will support these activities through both funding and technical assistance. The FDA and other organizations and stakeholders will also play an important role in plan implementation.

TABLE 3: LIST OF FAUNA SPECIES IN LIBERIA

SCIENTIFIC NAME	GROUP/LOCAL NAME
Cephalophusjentinki	Zebra duiker
Choeropsisliberiensis	Bongo
Tragelapuseurycerus	Ogilby duiker
Cephalophus zebra	Yello – backed duiker
Genettabourloni	Leopard

Table 4: Species of tree in the Kpo-Gblen Community Forest

Abbreviation	Botanical	Local Name
PIP	<i>Piptadeniastrum africanum</i>	Dahoma
BRA	<i>Brachystegia leonensis</i>	Naga
TAR	<i>Heritiera utilis</i>	Niangon
BER	<i>Berlinia confuse</i>	Ebiara
HAL	<i>Hallea ciliate</i>	Abura
NAU	<i>Nauclea diderrichi</i>	Kusia
LOV	<i>Lovoa trichilioides</i>	Lovoa
LOP	<i>Lophira alata</i>	Ekki
TEI	<i>Terminalia ivorensis</i>	Framire
TES	<i>Terminalia superb</i>	Frake
ERY	<i>Erythrophleum ivorensis</i>	Tali
PAR	<i>Parinari excels</i>	Parinari
ANH	<i>Anthonotha fragrans</i>	Kibokoko
DIA	<i>Dialium spp</i>	Dialium
PYC	<i>Pycnanthus africanus</i>	Llomba
KLA	<i>Klainedoxa gabonensis</i>	Eveuss
GIL	<i>Gilbertiodendron preussii</i>	Limbali
CHR	<i>Chrysophyllum spp</i>	Akatio
DAN	<i>Daniella thurifera</i>	Faro
CAN	<i>Canarium schweinfurthii</i>	Aiele
AMP	<i>Amphimas pterocarpoides</i>	Lati
PTE	<i>Pterygota macrocarpa</i>	Koto
UAP	<i>Uapaca guinensis</i>	Uapaca
CAL	<i>Calpocalyz aubrevillei</i>	Badio
ANO	<i>Anopyxis klaineana</i>	Kokoti
AFZ	<i>Azelia spp</i>	Doussie
COP	<i>Copaifera salikounda</i>	Etimoe
OLD	<i>Oldfieldia africana</i>	Oldfieldia
MAM	<i>Mammea africana</i>	Mammea
PER	<i>Pericopsis elata</i>	Afromosia

Annex 1: LIST OF TOWN/VILLAGES

1. Farr Town
2. Bold Dollar Town
3. REFACO
4. Gueh
5. Benzohn
6. Kehyah
7. Korjuah
8. Cotton Tree
9. Winiwein
10. Sawneewein
11. Jimmah
12. Kpah
13. ballikay
14. Gbowelleh
15. Dubah
16. Sammie
17. Baye
18. Buegben

Annex 2: Community Assembly MEMBERS

- | | |
|-------------------------|----------------------|
| 1. Alexander Zayway | EC Chairman |
| 2. Solo Joe | EC Vice Chair |
| 3. Jacob Gueh | EC Secretary |
| 4. Patrick Myers | EC Financial Officer |
| 5. Matthew Peters | Member |
| 6. Mamie Kwehnah | Member |
| 7. John G. Boyelon | Member |
| 8. Zekeh Tueway | Member |
| 9. Martha Vah | Member |
| 10. Junior Jallah | Member |
| 11. Paul Ben | Member |
| 12. Watchee Kpatee | Member |
| 13. Sampson Garneo | Member |
| 14. Emmanuel D.T Garneo | Member |
| 15. Makonie Togbah | Member |
| 16. James arweh | Member |
| 17. Mercy Vanshie | Member |
| 18. Oretha Kpahar | Member |
| 19. Mamie Smith | Member |

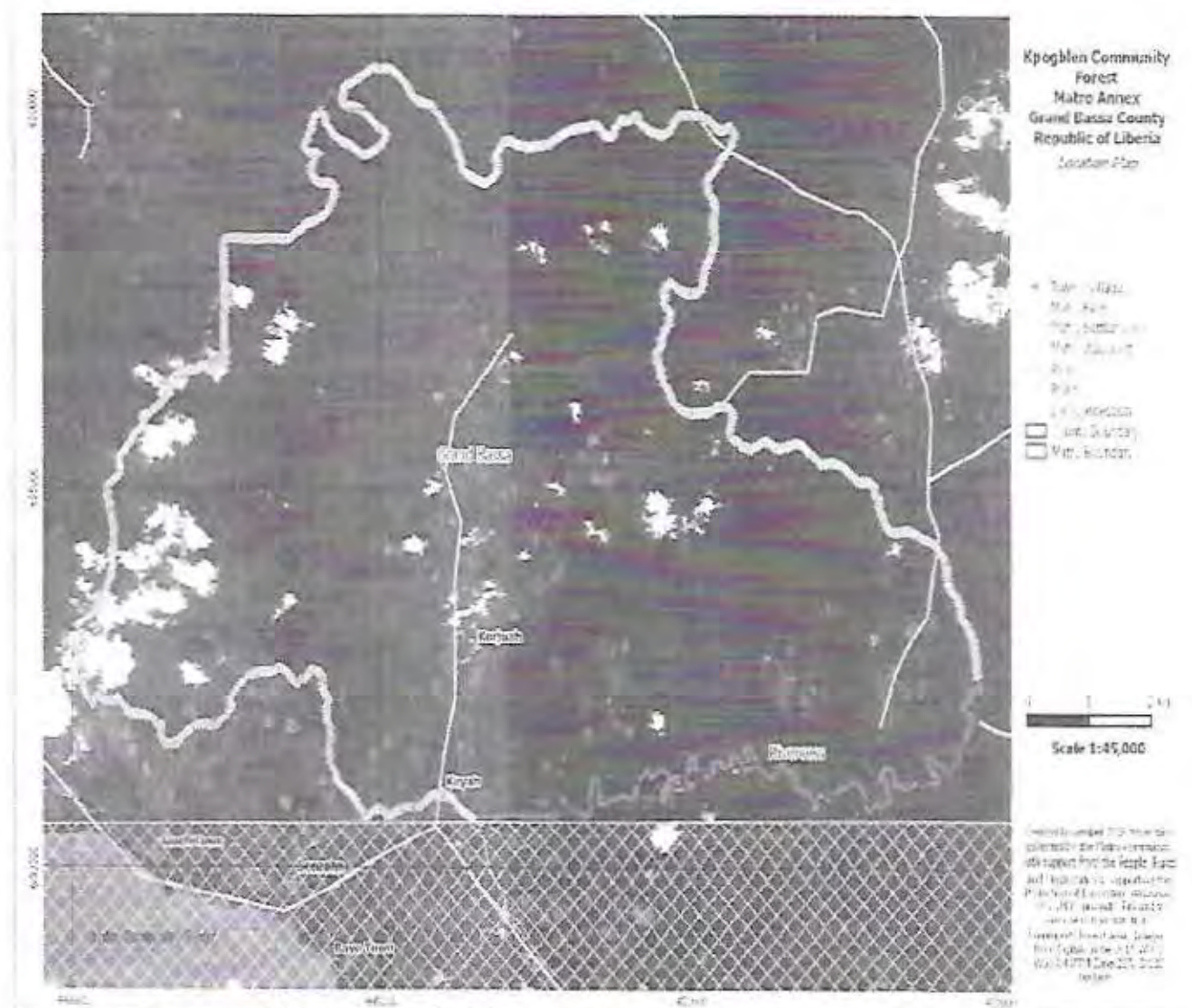
20. Daniel Giahdyuway	Member
21. Richard Bun	Member
22. Ruth Garnet	Member
23. Allen Zebeh	Member
24. Ezekiel Whea	Member
25. Dennis Dukpah	Member
26. Salomon Gee	Member
27. Mondeyma Connaun	Member
28. Joshua Henry	Member
29. Musu Johnny	Member
30. Matthew Johnny	Member
31. Dekewuleh Johnson	Member
32. Emmanuel Barkon	Member
33. Nora Peters	Member
34. Lawrence Moses	Member
35. Otis Gueh	Member
36. George Kollie	Member

Annex 3:LIST OF KPO-GBLEN COMMUNITY FOREST MANAGEMENT BODY OFFICERS

Names:	Position
1. Amos George	Chief Officer
2. Madison Davis	Secretary
3. Kennedy Zolone	Treasurer
4. Jesse Gueh	Member
5. Rebecca Garyuway	Member

Annex 4: MAP OF KPO-GLEN COMMUNITY FOREST

The Kpogblen Clan, District #4 Community Forest boundaries are depicted in the map below.



Annex 5: REFERENCES

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UNDP. 2006. "State of the Environment Report for Liberia." United Nations Development Programme.

Annex 6: Attachments:

- KCFMB BY – LAWS AND ASSEMBLY MEMBERS
- KCFMB Article Of Incorporation
- KCFMB BUSINESS REGISTRATION CERTIFICATE