

Serial number of sampling	River/Lake/channel/well	sample types	collection sites	coordinate		pH	T/(°C)
O1	well (30m)	groundwater	291 Farm	46°52'	10.8" N131°25' 41.6" E	7.23	8.0
O2	channel	agricultural	d:Fujin City	46°55'	09.6" N131°33' 17.5" E	7.59	12.0
O3	well (29m)	groundwater	Fujin City	46°55'	10.2" N131°33' 17.5" E	6.81	8.0
O4	swamp	swamnp	Sanjing Station	47°35'	11.4" N133°30' 04.3" E	6.05	9.8
O5	channel	agricultural	d:Qianfeng Farm	47°31'	33.4" N133°52' 54.5" E	7.72	11.9
O6	Naoli R	river	Raohe City	47°15'	01.3" N133°45' 29.0" E	7.70	14.6
O7	well (40m)	groundwater	Bielahong City	47°52'	12.4" N134°24' 10.3" E	6.15	7.0
O8	Bielahong R	river	Fuyuan City	47°55'	00.4" N134°27' 55.3" E	7.03	11.9
O9	Ussuri R	river	Fuyuan City	47°52'	10.8" N134°39' 19.7" E	7.76	14.1
O10	Amur R	river	Fuyuan City	48°22'	37.0" N134°17' 37.3" E	7.36	13.2
O11	Nongjiang R	river	Fuyuan City	48°11'	39.7" N134°16' 14.5" E	6.85	10.9
O12	Yalu R	river	Tongjiang City	48°11'	46.8" N134°06' 00.2" E	6.14	10.0
O13	well (30m)	groundwater	Tongjiang City	48°03'	05.9" N133°29' 02.1" E	6.30	7.0
O14	channel	agricultural	d:Qindeli Farm	47° 58'	05.1" N133° 15' 10.1" E	7.60	9.0
O15	well (4m)	groundwater	Qinglongshan Farm	47°42'	31.1" N133°05' 10.1" E	6.40	9.0
O16	well (12m)	groundwater	Qinglongshan Farm	47°42'	31.1" N133°05' 10.1" E	6.80	8.0
O17	Songhuang R	river	Tongjiang City	47°42'	08.1" N132°31' 13.5" E	7.00	12.0
O18	Amur R	river	Tongjiang City	47°42'	51.5" N132°30' 20.5" E	7.50	11.0
O19	well (40m)	groundwater	Qixing Farm	47°20'	57.6" N132°52' 53.2" E	6.90	6.0
O20	channel	agricultural	d:Chuangye Farm	47°24'	02.2" N133°03' 48.6" E	7.60	9.0
O21	well(30m)	groundwater	Sanjing Station	47°35'	18.4" N133°29' 48.8" E	6.00	7.0

COND (mS/cm)	TOC (mg/L)	TC (mg/L)	IC (mg/L)	Fe <sup>2+</sup> (mg/L)	Fe <sup>3+</sup> (mg/L)	Acid soluble Fe (mg/L)	total Fe (mg/L)	Total Mn (mg/L)	Ca (mg/L)	K (mg/L)
0.34	1.77	48.95	47.18	1.13	0.10	1.28	1.23	0.33	31.56	1.32
0.36	5.34	42.52	37.18	0.06	0.04	0.20	0.11	0.00	21.51	5.83
0.61	7.12	31.73	24.61	16.00	1.00	18.01	17.70	1.14	83.92	1.32
0.60	33.41	39.06	5.65	0.10	0.35	0.58	0.55	0.05	3.42	4.41
0.10	9.44	19.35	9.91	0.21	0.20	0.72	0.66	0.00	6.78	3.84
0.18	6.50	26.79	20.29	0.06	0.21	0.58	0.44	0.02	15.71	2.71
0.20	5.42	42.63	37.21	2.57	0.08	3.56	3.10	0.37	14.60	2.75
0.09	10.91	20.56	9.64	0.08	0.00	2.19	1.84	0.03	6.41	4.00
0.11	4.27	15.40	11.13	0.04	0.11	0.37	0.32	0.01	9.01	1.85
0.12	6.25	16.70	10.44	0.13	0.11	0.60	0.25	0.00	19.07	1.28
0.06	13.30	18.54	5.24	0.08	0.33	0.77	0.52	0.02	5.09	1.90
0.08	9.68	18.96	9.28	0.13	1.38	4.03	3.13	0.05	5.42	2.54
0.19	0.45	22.90	22.45	14.00	1.00	18.71	15.28	1.02	9.08	1.19
0.09	0.37	15.69	9.32	0.10	0.25	1.27	0.89	0.04	12.35	4.47
0.55	0.69	31.55	30.86	0.02	0.01	0.11	0.06	0.22	27.99	33.45
0.30	0.70	33.24	32.54	18.00	1.00	39.41	19.83	1.61	16.43	1.40
0.19	2.93	19.07	16.14	0.10	0.11	0.49	0.22	0.00	15.30	1.61
0.05	8.32	13.90	5.56	0.04	0.05	0.32	0.31	0.01	5.40	0.40
0.32	1.41	41.41	40.00	5.20	0.40	7.29	6.08	0.52	30.27	4.34
0.36	8.09	39.19	31.10	0.08	0.05	0.27	0.14	0.00	27.32	11.75
0.35	0.85	30.67	29.82	2.00	0.18	2.28	2.22	0.17	13.06	3.87

Na (mg/L)	Mg (mg/L)	Cl <sup>-</sup> (mg/L)	SO <sub>4</sub> <sup>2-</sup> (mg/L)	HCO <sub>3</sub> <sup>-</sup> (mg/L)	SiO <sub>2</sub> (mg/L)	NO <sub>3</sub> -N (mg/L)	NH <sub>4</sub> -N (mg/L)	NO <sub>2</sub> -N(μg/L)	PO <sub>4</sub> <sup>3-</sup> -P (mg/L)
20.51	9.30	14.20	0.01	0.81	21.92	0.06	0.28	2.27	0.00
38.38	11.07	31.95	0.40	29.06	1.08	0.23	0.04	2.78	nd
13.95	10.27	99.40	6.60	483.12	25.77	0.03	0.07	2.37	nd
6.00	1.55	17.75	3.64	266.45	12.64	0.07	0.06	7.46	nd
7.33	3.12	18.46	1.93	141.13	4.08	0.16	0.08	14.08	0.02
11.89	5.59	15.98	0.79	58.05	5.79	0.15	0.03	5.89	0.03
15.92	5.30	14.20	1.26	92.52	43.76	0.06	0.30	16.27	0.16
4.76	3.29	14.91	1.69	123.34	3.93	0.15	0.09	5.89	0.06
6.69	3.32	14.91	1.12	81.69	2.79	0.09	0.04	3.20	0.01
9.24	2.24	15.27	3.22	236.00	4.36	0.31	0.04	5.09	nd
6.94	1.46	17.75	1.41	103.50	1.79	0.56	0.13	5.96	0.01
6.07	3.04	14.20	2.16	158.11	2.79	0.05	nd	3.21	0.15
9.14	3.09	21.30	4.16	304.29	33.05	0.09	0.82	18.75	0.01
12.26	3.07	14.20	0.86	63.17	10.36	0.12	0.04	4.20	0.02
23.96	13.99	42.60	3.32	242.88	3.08	14.58	0.03	34.57	0.02
10.66	3.84	12.43	1.35	98.45	36.19	0.06	1.21	21.88	0.01
16.26	4.43	21.30	2.24	163.82	2.36	0.47	0.09	13.08	0.00
4.85	1.69	12.43	0.93	68.08	8.64	0.20	0.15	4.32	nd
17.59	7.42	14.20	6.26	458.31	40.47	0.10	1.43	3.32	0.52
25.30	9.90	46.15	1.39	101.46	13.64	1.37	1.42	62.60	0.02
10.44	4.94	17.75	2.34	171.14	28.91	0.22	0.24	6.67	0.14