

5.3.1 現地簡易水質測定結果

現場簡易水質測定結果（ザガイン地域-1）

地域	タウンシップ	Village's Trac	村落名	ID	位置情報	水源種別	掘削深度 (m)	井戸直径 (in)	静水位 (m)	揚水量 (g/h)	水温 (°C)	pH	EC (µs/cm)	臭い	色	Mn (mg/l)	Fe (mg/l)	F (mg/l)	NO3- (mg/l)	NO2- (mg/l)	大腸菌	詳細水質分析実施											
												ミャンマー国飲料水水質基準値											6.5 - 8.5	-	-	-	0.4	1.0	1.5	50.0	-	3	
S A G A I N G	Budalin	Htanaungkone	Yonedaw	SA2-01-1	X-721184, Y-2468685	Deep well	160	6	40	1200	30.2	7.95	1,230	Non	Non	<0.02	<0.2	1.5	20	<0.02		○											
				SA2-01-2	X-721013, Y-2468509	Deep well	122	2	30	800	31.2	8.13	1,425	Non	Non	<0.02	<0.2	0.2	<1	<0.02													
		Ngapayin	Nyaungpinthar	SA2-02-1	X-720877, Y-2486641	Deep well	82	2	36.5	800	31.5	7.84	1,475	Non	Non	<0.02	<0.2	0.4	15	<0.02													
				SA2-02-2	X-721015, Y-2486402	Dug well	6	1.0 m	5.7		29.2	7.58	2,470	Non	Non	<0.02	<0.2	0.4	45	0.1	Too much												
		Maunghtaung	Maunghtaung	SA2-03-1	X-712919, Y-2487787	Deep well	73	2	>30	2000	30.0	8.36	2,610	Non	Non	<0.02	<0.2	0.8	45<	<0.02													
				SA2-03-2	X-712889, Y-2488508	Deep well	122	2	37	800	30.3	7.95	620	Non	Non	<0.02	<0.2	0.2	<1	<0.02													
				SA2-03-3	X-713013, Y-2488345	Deep well	107	6	39	2000	30.7	7.77	1,141	Non	Non	<0.02	<0.2	0.6	2	<0.02													
		Ywarthit	Kantawthar	SA2-04-1	X-704411, Y-2487667	Deep well	122	2	39	1200	29.8	8.14	534	Non	Non	<0.02	<0.2	0.2	<1	<0.02													
				SA2-04-2	X-704202, Y-2487722	Deep well	62	2	32	800	30.4	8.12	663	Non	Non	<0.02	<0.2	0.6	5	<0.02													
		Konethar	Mhonehtoo	SA2-05-1	X-729667, Y-2470736	Deep well	118	4	34		31.7	7.91	628	Sulfur smell	Non	Non	<0.02	<0.2	0.6	<1	<0.02		○										
				SA2-05-2	X-729835, Y-2471196	Dug well	13	1.7 m	8.1		30.6	7.34	1,136	Non	Non	<0.02	<0.2	0.6	5	<0.02	0												
				SA2-05-3	X-729847, Y-2470770	Deep well	146	2	36	900																							
				SA2-05-4	X-732022, Y-2470662	Deep well	115	4	28			31.1	7.53	1,700	Non	Non	<0.02	<0.2	0.6	<1	<0.02												
		Watluu-I	Watluu-I	SA2-06-1	X-700719, Y-2482574	Deep well	70	2	32	1000	30.3	7.94	949	Non	Non	<0.02	<0.2	0.8	30	<0.02													
	SA2-06-2			X-700290, Y-2482117	Dug well	9	1.4 m	8.7		28.6	7.04	633	Non	Non	<0.02	<0.2	0.4	4	<0.02	0													
	Chaungoo	Thanbinkan	Thanbinkan	SA2-07-1	X-742454, Y-2430600	Deep well	192	4	72.2			30.6	8.68	1,224	Non	Non	<0.02	<0.2	0.8	10	<0.02		○										
				SA2-07-2	X-742361, Y-2430401	Deep well	152	6	70	2500	36.7	7.50	1,245	Non	Non	<0.02	<0.2	0.8	10	<0.02													
		Natyaygan	Natyaygan	SA2-08-1	X-743872, Y-2426840	Deep well	173	6	60.9	2000	37.9	7.81	2,820	Non	Non	<0.02	<0.2	0.8	<1	<0.02		○											
	SA2-08-2			X-743809, Y-2426699	Storage reservoir						36.5	8.80	311	Non	Shallow yellow	<0.02	0.2	0.2	<1	<0.02	60<												
	Ayadaw	Ngarrowma	Sithar	SA2-09-1	X-742923, Y-2472596	Deep well	97	4	42	1000	30.7	7.66	1,302	Non	Non	<0.02	<0.2	0.6	2	<0.02													
				SA2-09-2	X-742829, Y-2472777	Deep well	102	2		800	31.8	7.83	648	Non	Non	<0.02	<0.2	0.2	1	<0.02													
		Leinhla	Oakkan	SA2-10-1	X-747982, Y-2482474	Deep well	224	2	+3.0 m	350	31.3	7.05	861	Non	Non	<0.02	<0.2	0	<1	<0.02													
				SA2-10-2	X-748057, Y-2482660	Deep well	91	2	21	1200	29.9	8.13	1,014	Non	Non	<0.02	<0.2	0.2	5	<0.02													
		Warryaung	Warryaung	SA2-11-1	X-748212, Y-2458178	Deep well	244	2	55	1000	30.6	7.64	920	Non	Non	<0.02	<0.2	0	5	<0.02													
				SA2-11-2	X-748297, Y-2458027	Deep well	61	2	22	750	29.0	7.67	721	Non	Non	<0.02	<0.2	0	1	<0.02													
		Yechinn	Warrtannkalay	SA2-12-1	X-751008, Y-2470107	Deep well	97	6		7000	30.5	7.25	912	Non	Non	<0.02	<0.2	0	<1	<0.02													
				SA2-12-2	X-750726, Y-2470091	Deep well	305	2			30.9	8.61	1,155	Non	Non	<0.02	<0.2	1.0	<1	<0.02													
		Nyaungchayhtauk	Yathar	SA2-13-1	X-766191, Y-2449689	Deep well	182	2		1200	31.7	7.92	4,470	Non	Non	<0.02	<0.2	0.8	<1	<0.02													
				SA2-13-2	X-766062, Y-2449698	Deep well	61	2		600	31.7	8.48	1,253	Non	Non	<0.02	<0.2	0.6	2	<0.02													
		Warryaung	Zeepinlel	SA2-14-1	X-751681, Y-2457462	Deep well	115	2		>1000	29.6	7.50	731	Non	Non	<0.02	<0.2	0	<1	<0.02													
				SA2-14-2	X-751521, Y-2457542	Shallow well	30		7.6m<		28.7	7.04	954	Non	Non	<0.02	<0.2	0.2	5	<0.02	Too much												
		Sarlingyi	Yonebinyoe	Yonebinyoe	SA2-15-1	X-711426, Y-2428068	Deep well	91	4	19	1000	32.5	6.77	18,060	Non	Non	<0.02	<0.2	1.5	2	0.1												
					SA2-15-2	X-707989, Y-2428924	Shallow well	51	6	2	5000	30.5	7.50	1,188	Non	Non	<0.02	<0.2	0.6	<1	0.02	0											
	Yonebinyoe		Minntaw	SA2-16-1	X-713277, Y-2428462	Dug well	3	0.8 m	2.3		32.0	7.35	935	Non	Non	<0.02	<0.2	1.5	30	0.07	Too much												
				SA2-16-2	X-712670, Y-2428751	Dug well	8	1.1 m	5.9		31.6	7.60	1,337	Non	Non	<0.02	0.2	1.5	3	<0.02	0												
				SA2-16-3	X-712530, Y-2428495	Deep well	121	2			32.2	7.40	4,830	Non	Non	<0.02	1.5	0	1	<0.02													
	Moe Kyo Pyin	Kine	SA2-17-1	X-711613, Y-2437746	Storage reservoir					33.9	8.82	640	Non	Shallow yellow	<0.02	<0.2	1.5	2	0.1	2													
	Myinmu	Kalarpyan	Kalarpyan	SA2-18-1	X-749919, Y-2422162	Shallow well	55	4	21																								
				SA2-18-2	X-749919, Y-2422594	Deep well	167	4	36		32.2	8.24	3,600	Non	Non	<0.02	<0.2	1.5	<1	<0.02		○											
				SA2-18-3	X-750050, Y-2422676	Storage reservoir					37.9	9.13	244	Non	Non	<0.02	<0.2	0.2	<1	<0.02													
				SA2-18-4	X-750132, Y-2421633	Shallow well	40				31.3	7.98	2,190	Non	Non	<0.02	<0.2	0.8	5	0.05													
		Nyaungbinkan	Hlayookan	SA2-19-1	X-758105, Y-2439332	Deep well	152	2	115	450	30.9	8.20	1,050	Non	Non	<0.02	<0.2	1.5	1	0.02													
SA2-19-2				X-757753, Y-2489582	Shallow well	7		3		29.7	7.35	1,178	Non	Non	<0.02	<0.2	0.6	20	<0.02														
SA2-19-3				X-758776, Y-2438782	Shallow well					29.7	7.30	1,084	Non	Non	<0.02	<0.2	0.4	5	<0.02														
Inma		Magyidaw	SA2-20-1	X-773591, Y-2437376	Shallow well	24			3000	31.6	7.31	676	Non	Non	<0.02	<0.2	0	<1	<0.02														
			SA2-20-2	X-773839, Y-2437211	Shallow well	24		10		30.4	6.86	3,800	Non	Non		<0.2	0	45<	0.1														
			SA-2-20-3	X-773945, Y-2437327	Dug well	8	1.1 m	7.3																									
Latpanyin		Watkyia	SA2-21-1	X-745604, Y-2447822	Deep well	167	4	36																									
	SA2-21-2		X-745617, Y-2447824	Deep well	167	4	36		31.7	7.39	2,310	Non	Non	<0.02	<0.2	0.6	<1	<0.02															

現場簡易水質測定結果 (ザガイン地域-2)

地域	タウンシップ	Village's Trac	村落名	ID	位置情報	水源種別	掘削深度 (m)	井戸直径 (in)	静水位 (m)	揚水量 (g/h)	水温 (°C)	pH	EC (µs/cm)	臭い	色	Mn (mg/l)	Fe (mg/l)	F (mg/l)	NO3- (mg/l)	NO2- (mg/l)	大腸菌	詳細水質分析実施	
												ミャンマー国飲料水水質基準値	6.5 - 8.5	-	-	-	0.4	1.0	1.5	50.0	-	3	
S A G A I N G	Myinmu	Latpankyin	Thahtaykone (Ywarma)	SA2-22-1	X-747989, Y-2446283	Deep well	161	2	55	3000													
				SA2-22-2	X-747929, Y-2446231	Deep well	152	2	55	750	32.6	8.02	1,663	Non	Non	<0.02	<0.2	0.2	5	<0.02			
				SA2-22-3	X-747853, Y-2446360	Deep well	113	4		2000	32.1	7.26	1,582	Non	Non	<0.02	<0.2	0.2	10	<0.02			
		Inma	Magyidaw	SA2-23-1	X-774423, Y-2444502	Shallow well	15			29.8	7.60	1,601	Non	Non	<0.02	<0.2	0.8	20	0.2				
				SA2-23-2	X-774560, Y-2444437	Shallow well	24	4	3		31.9	7.58	1,838	Muddy smell	Shallow yellow	<0.02	<0.2	0.4	2	0.1			
				SA2-23-3	X-774727, Y-2444435	River					32.1	8.66	474	Non	Non		<0.2	0.2	<1	<0.02		○	
	Kanbalu	Thindaw	Thindaw	SA2-24-1	X-773446, Y-2612929	Deep well	82	2		700	27.3	7.80	1,053	Non	Non	<0.02	<0.2	0.2	<1	<0.02			
				SA2-24-2	X-773526, Y-2612915	Deep well	116	2			27.1	6.80	34,800	Salty smell	Non	0.02	<0.2	0.2	<1	<0.02			
		Thindaw	Lwingyi	SA2-25-1	X-772025, Y-2612947	Deep well	152	2	30	500	28.1	8.10	665	Non	Non	<0.02	<0.2	0.2	<1	<0.02			
				Koetaungboh	Koetaungboh (Kyunkone)	SA2-26-1	X-773469, Y-2620861	Deep well	152	2		400	27.0	7.60	1,113	Sulfur smell	Shallow yellow	0.01	<0.2	0.2	<1	<0.02	
		SA2-26-2	X-773675, Y-2620875			Deep well	85	2		650	27.1	7.30	1,450	Non	Non	<0.02	<0.2	0	45	<0.02			
		Nyaungkanthar	Inngoteto	SA2-27-1	X-768435, Y-2598073	Deep well	61	2		250	27.7	7.30	796	Non	Non	<0.02	0.2	0.2	45<	<0.02		○	
				SA2-27-2	X-768370, Y-2598171	Shallow well	21	3	17.8		28.6	7.40	1,487	Non	Shallow white	<0.02	<0.2	3.0	<1	<0.02	0		
		Myayhtoo	Myayhtoo	SA2-28-1	X-745074, Y-2565109	Deep well	82	2	67		29.0	7.10	681	Slighty certain smell	Shallow yellow	<0.02	0.2	0	<1	<0.02			
				SA2-28-2	X-745102, Y-2565190	Deep well	76	2	61		28.8	7.20	858	Non	Shallow white	<0.02	<0.2	0	<1	<0.02			
				SA2-28-3	X-744822, Y-2565124	Deep well	171	2	146.3		28.9	7.20	981	Non	Shallow yellow	<0.02	<0.2	0	1	<0.02			
				SA2-28-4	X-748784, Y-2565102	Shallow well	16	3	8														
		Khaowntar	Khaowntar	SA2-29-1	X-776703, Y-2551428	Deep well	116	2	30		28.7	7.30	947	Non	Non	<0.02	<0.2	0.8	<1	<0.02			
				SA2-29-2	X-776612, Y-2551398	Deep well	110	2		1000	29.1	7.70	1,423	Non	Non	<0.02	<0.2	0	<1	<0.02			
		Nyaungkanthar	Nyaungkanthar	SA2-30-1	X-770617, Y-2587691	Deep well	122	2		3	27.6	7.50	1,905	Non	Non	<0.02	<0.2	0	45	<0.02		○	
				SA2-30-2	X-770701, Y-2597767	Shallow well	45	2		1	28.1	8.20	691	Non	Non	<0.02	<0.2	0	<1	<0.02	0		
		Myaymon	Myaymon	SA2-31-1	X-785078, Y-2543981	Deep well	98	2		1000	29.3	8.20	1,210	Non	Non	<0.02	<0.2	0.2	1	<0.02			
				SA2-31-2	X-784990, Y-2544342	Deep well	73	2		300	29.1	8.10	3,210	Non	Non	<0.02	<0.2	1.5	45<	<0.02		○	
		Pazigyi	Layytwinzin	SA2-32-1	X-800278, Y-2549565	Dug well	2	1.5 m	1.5		28.5	7.40	880	Non	Shallow yellow	<0.02	<0.2	0	1	0.08	Too much		
	Paygone(S)	Chaungchar	SA2-33-1	X-762364, Y-2587378	Shallow well	38	2		350	29.4	7.90	657	Non	Non	<0.02	<0.2	0	<1	<0.02	0			
			SA2-33-2	X-762527, Y-2587375	Shallow well	49	2	9	550	27.4	8.00	621	Non	Non	<0.02	<0.2	0.2	<1	<0.02	0			
	Dabayin	Intimelay	Minyogone	SA2-34-1	X-732024, Y-2513022	Dug well	9	1.6m	4.3		29.7	6.95	477	Non	Non	<0.02	<0.2	0.2	<1	<0.02	Too much		
				SA2-34-2	X-732713, Y-2512110	Deep well	103	4	3.2	1500	30.1	7.90	1,224	Non	Non	<0.02	0.3	0.2	<1	<0.02			
		Mintelgone	Shandaw	SA2-35-1	X-725732, Y-2501505	Dug well					23.8	7.09	438	Muddy smell	Shallow milk white	<0.02	<0.2	0.2	1	<0.02	Too much		
				SA2-35-2	X-725913, Y-2500405	Shallow well					28.4	7.55	748	Non	Non	<0.02	<0.2	0.8	<1	<0.02	Too much		
				SA2-35-3	X-725341, Y-2501689	Deep well	247	2		2000	30.4	7.90	1,564	Non	Non	<0.02	<0.2	0.2	<1	<0.02			
				SA2-35-4	X-725889, Y-2500389	Deep well		2		1200	27.7	8.40	1,004	Non	Non	<0.02	<0.2	0.2	<1	<0.02			
	Satpyargyin	Kyuntaw (S)	SA2-36-1	X-728635, Y-2505308	Dug well	5	1.1 m	3.6		27.6	6.90	896	Non	Non	0.02	<0.2	0.2	<1	<0.02				
			SA2-36-2	X-728715, Y-2505233	Dug well	4	1.0 m	2.3		27.9	7.30	2,230	Non	Non	<0.02	<0.2	0.1	10	0.7				
	Wetlet	Sharkwal	PalaeThwe (Ywarhit)	SA2-37-1	X-798855, Y-2492654	Deep well	109			750	31.4	8.10	924	Non	Non	<0.02	<0.2	0	<1	<0.02			
				SA2-38-1	X-796340, Y-2461884	Shallow well	41				29.2	7.50	1,388	Non	Non	<0.02	<0.2	1.5	2	<0.02	0		
		Poukkan	Poukkan	SA2-38-2	X-796371, Y-2461780	Dug well	13	1.1 m	2.3		28.2	7.50	595	Non	Non	<0.02	<0.2	0.8	20	<0.02	Too much		
				SA2-38-3	X-797690, Y-2462872	Shallow well	38	2		300	30.0	7.91	1,500	Non	Non	<0.02	<0.2	2.0	5	<0.02	0		
		Yonepingone	Shwenyaungtaw	SA2-39-1	X-803376, Y-2470865	Dug well	11	1.2 m	4.4		29.0	7.91	809	Non	Non	<0.02	<0.2	0.8	30	<0.02	0		
				Khwataw	Sabeidaw	SA2-40-1	X-786790, Y-2472040	Shallow well	11		1.5		27.4	7.84	764	Non	Non	<0.02	<0.2	0.6	10	<0.02	0
		SA2-40-2	X-786486, Y-2472202			Shallow well	11				28.3	8.03	2,130	Non	Non	<0.02	<0.2	3.0	5	<0.02	Too much		
	SA2-40-3	X-786310, Y-2474369	Deep well			122	4	1.5	1500	29.0	8.14	1,204	Non	Non	<0.02	<0.2	3.0	<1	<0.02				

現場簡易水質測定結果 (マンダレー地域)

地域	タウンシップ	Village's Trac	村落名	ID	位置情報	水源種別	掘削深度 (m)	井戸直径 (in)	静水位 (m)	揚水量 (g/h)	水温 (°C)	pH	EC (µs/cm)	臭い	色	Mn (mg/l)	Fe (mg/l)	F (mg/l)	NO3- (mg/l)	NO2- (mg/l)	大腸菌	詳細水質分析実施			
													ミャンマー国飲料水水質基準値		6.5 - 8.5	-	-	-	0.4	1.0	1.5	50.0	-	3	
M A N D A L A Y	Mahlaing	Yayhtwet	Htantawgyi	MA2-01-1	X-767026, Y-2338930	Dug well	15	1.5 m			30.3	7.43	2,310	Non	Non	<0.02	<0.2	0.4	10	<0.02	Too much				
				MA2-01-2	X-767009, Y-2339022	Dug well	15	1.5 m			30.8	7.82	3,560	Non	Non										
		Kyatse	Ason	MA2-02-1	X-768727, Y-2328337	Dug well	6	1.5 m	1.8			27.5	7.48	1,472	Non	Non	<0.02	<0.2	0	<1	<0.02	Too much			
	Myingyan	Yaychobutar	Khinthar(S)	MA2-03-1	X-781754, Y-2317206	Dug well	6	1.5 m	3.1			27.6	7.41	781	Non	Non	<0.02	<0.2	0	<1	<0.02	7			
				MA2-04-1	X-753208, Y-2369050	Deep well	91	4	30.4			31.1	8.06	2,880	Non	Non	<1	0.2	0	<1	<0.02		○		
		Chaysay	Chaysay	MA2-04-2	X-753114, Y-2369048	Shallow well	59	3	19.2			31.0	8.11	2,580	Non	Non	<1	<0.2	0	<1	<0.02				
				MA2-05-1	X-758959, Y-2405065	Deep well	72	2				30.9	8.27	1,303	Non	Turbidity	<1	<0.2	0.7	1	<0.02				
		Pinlai	Talgyi	MA2-05-2	X-758815, Y-2404938	Shallow well	46	3	8.2			30.5	8.44	1,783	Non	Non	<1	<0.2	1.0	4	<0.02				
				MA2-06-1	X-749780, Y-2369023	Shallow well	59	3	16.7			31.2	7.88	274	Non	Turbidity	<0.02	0.5	4.0	1	<0.02				
		Kuywar	Kuywar	MA2-06-2	X-749809, Y-2369054	Deep well	79	3	19.2			31.8	8.69	2,450	Non	Non	<1	<0.2	2.0	2	0.1		○		
				MA2-07-1	X-762463, Y-2384138	Deep well	98	3	46			31.0	7.73	7,960	Non	Non	<1	<0.2	0.4	45	0.05				
		Yonehto	Yonehto	MA2-07-2	X-762698, Y-2384434	Deep well	98	4				30.9	7.58	7,340	Non	Non	<1	<0.2	0	20	0.02				
				MA2-08-1	X-766089, Y-2399238	Deep well	61	2				30.3	8.24	6,160	Non	High turbidity	<1	<0.2	0	<1	<0.02				
	Phatpin-I	Phatpin-I	MA2-08-2	X-766347, Y-2399645	Deep well	107	3			500		30.6	8.46	1,930	Slightly certain smell	Slightly muddy	<1	<0.2	0.2	<1	<0.02				
			MA2-09-1	X-758753, Y-2410571	Dug well	11	1.0 m	9.4			29.1	8.33	6,020	Non	Non	<0.02	<0.2	5.0	10	<0.02					
	Ngazon	Konelel	Konelel	MA2-09-2	X-758200, Y-2410349	Deep well	61	2			900	30.8	7.93	6,360	Non	Non	<0.02	<0.2	0	45	0.2				
				MA2-10-1	X-766115, Y-2416389	Shallow well	18	2	2.0			29.8	7.12	6,470	Non	Non	0.02	<0.2	0	<1	<0.02				
		Magyiyat	Phaungkadaw	MA2-11-1	X-765457, Y-2403617	Deep well	152	2			700	30.4	7.86	2,340	Non	Non	<0.02	<0.2	0.6	<1	<0.02				
				MA2-11-2	X-768899, Y-2402581	Shallow well	10	2																	
		Thanbo	Ywarsite	MA2-12-1	X-768195, Y-2402362	Deep well	213	2			700	31.7	7.91	11,680	Non	Non	<0.02	<0.2	5.0	45	1				
				MA2-12-2	X-768899, Y-2402581	Dug well	6	1.4 m	3.1			27.8	7.28	3,340	Non	Non	0.05	<0.2	0.4	<1	<0.02				
	Natogyi	Kyaungnan	Kyaungnan	MA2-13-1	X-767771, Y-2376174	Shallow well	18	2	7			32.8	7.51	1,342	Slightly certain smell	Shallow yellow	<0.02	<0.2	0.4	<1	<0.02				
				MA2-13-2	X-767555, Y-2375350	Deep well	78	2	21			30.8	7.80	11,800	Non	Turbidity	<0.02	<0.2	2.0	3	<0.02				
		Myinni	Kyaungkan	MA2-14-1	X-757384, Y-2368882	Deep well	234	4			1800	31.2	7.58	6,540	Non	Shallow white	<0.02	<0.2	0.8	1	<0.02				
				MA2-14-2	X-757248, Y-2368842	Deep well	127	2			300	30.8	7.86	2,120	Non	Non	<0.02	<0.2	0.4	<1	<0.02				
		Nyaunggone	Nyaunggone	MA2-15-1	X-772147, Y-2368696	Deep well	91	2	30		750	34.4	8.48	2,800	Non	Non	<0.02	<0.2	1.5	1	<0.02		○		
	MA2-15-2			X-772036, Y-2368666	Deep well	61	2				30.6	7.86	1,192	Non	Shallow yellow	<0.02	<0.2	0.6	<1	<0.02					
	Taungthar	Obo	Chaungnar	MA2-16-1	X-751878, Y-2358123	Dug well	15	1.5 m	5			30.0	8.16	2,030	Slightly sour	Shallow brown	<0.02	<0.2	3-8	5-10	<0.02	Too much	○		
				MA2-16-2	X-751799, Y-2357810	Dug well	5	1.0 m				29.4	7.38	3,450	Non	Slightly turbidity	<0.02	<0.2	0.2	<1	<0.02	5			
		Zagyan	Chaungson(La)	MA2-17-1	X-735397, Y-2354670	Deep well	137	4	98		3600	34.7	7.33	1,483	Non	Non	<0.02	<0.2	0.2	<1	<0.02				
		Kyaunkkar	Kyaunkartaungkone	MA2-18-1	X-748843, Y-2341588	Dug well	6	1.0 m				31.0	8.02	794	Non	Non	<0.02	<0.2	0.2	5-10	<0.02	14			
				MA2-19-1	X-740016, Y-2346893	Deep well	259	4	153		800	38.0	7.38	1,609	Slightly sour	Non	<0.02	<0.2	0	<1	<0.02				
		Kanmyel	Kanaye	MA2-20-1	X-740499, Y-2349023	Deep well	244	4	105		700	34.5	7.33	1,516	Non	Non	<0.02	<0.2	0	<1	<0.02				
				MA2-21-1	X-745668, Y-2342355	Shallow well	36	2			800	29.8	8.41	4,440	Non	Non	<0.02	<0.2	1.5-3	45	0.5-1	7	○		
	Tharyarmaing	Tharyarmaing	MA2-21-2	X-745625, Y-2342444	Shallow well	54	2			800	29.1	8.15	3,460	Non	Non	<0.02	<0.2	1.5	45	<0.02	Too much				
			MA2-22-1	X-826855, Y-2270738	Deep well	235	2			1000	35.1	8.18	635	Non	Non	<0.02	<0.2	0-0.4	<1	<0.02		○			
	Yamethin	Oakpo	Oakpo	MA2-22-2	X-826620, Y-2271085	Deep well	82	2				28.7	8.20	919	Non	Non	<0.02	<0.2	0-0.4	<1	<0.02				
				MA2-23-1	X-828635, Y-2246064	Shallow well	55	2			480	30.0	8.09	2,020	Non	Slightly muddy	<0.02	<0.2	0.8	<1	<0.02	5			
		Nabukyin	Kangyi	MA2-23-2	X-829123, Y-2246062	Deep well	220	2	200		800	31.3	8.51	1,983	Non	Non	<0.02	<0.2	1.5	<1	<0.02		○		
	Pyawbwe	Seitcho	Htanekan	MA2-24-1	X-804392, Y-2275367	Deep well						30.1	8.36	4,140	Non	Non	<0.02	<0.2	0	<1	<0.02				
MA2-25-1				X-804775, Y-2275467	Deep well	116	2	11		300	30.0	8.40	1,986	Non	Non	<0.02	<0.2	0	<1	<0.02					
Nyaungoo	Pyon	Kanzauk	MA2-29-1	X-709762, Y-2328729	Deep well	200	6			1300	35.7	7.06	1,036	Non	Non	<0.02	<0.2	0.1		<0.02					
			MA2-30-1	X-719325, Y-2332051	Deep well	280	4	219.4		800	36.3	6.77	1,239	Iron smell	Shallow white	<0.02	1.0	0.5		<0.02					
	Tawpyar	Mongyewtaw	MA2-31-1	X-724266, Y-2337196	Dug well						27.5	8.05	500	Non	Non	<0.02	<0.2	0		<0.02					
	Tuywintaung	Phoenekan	MA2-32-1	X-703729, Y-2334750	Deep well	152		36.5			31.6	7.33	1,043	Non	Non	<0.02	<0.2	0.7		<0.02					
	Kudaw	Saingan-Tedite	MA2-34-1	X-725695, Y-2329987	Deep well	365					34.6	7.37	814	Iron smell	Non	<0.02	0.6	0.2		<0.02					
	Byugyi	Byugyi	MA2-35-1	X-724027, Y-2324767	Deep well	309	6	236.1		1800		7.61	908	Non	Non	<0.02	<0.2	0.1		<0.02					
Kyaukpadaung	Tangakan	Alelywar-2	MA2-36-1	X-718697, Y-2309611	Deep well	270					32.8	6.20	1,907	Iron smell	Non	3	10	0.6		<0.02					
			MA2-36-2	X-718334, Y-2309805	Deep well	270	4	150		1500	34.7	6.00	1,343	Slightly iron	Non	1	3.0	0.2	<1	<0.02		○			
	Tangakan	Tangakan	MA2-37-1	X-719320, Y-2309491	Deep well						30.3	6.35	950	Slightly iron	Non	<1	10	0.8	<1	<0.02					
			MA2-37-2	X-719095, Y-2309562	Deep well						37.4	6.32	584	Iron smell	Non	<1	10	1.0	<1	<0.02					
	Lelgyi	Lelgyi	MA2-38-1	X-734592, Y-2325518	Deep well	300	4	51.5		2250	31.5	7.48	1,203	Sulfur smell	Slightly muddy	<0.02	5.0	0.6		<0.02		○			
	Kannbyu	Thayattaw	MA2-39-1	X-729384, Y-2325075	Deep well	300	4	225.5		600	32.8	7.11	947	Non	Non	<1	<0.2	0.2		<0.02					
Nakythkwal	Nakythkwal	MA2-40-1	X-719978, Y-2312255	Deep well	293	4	67		1500	32.7	7.07	791	Non	Non	<1	<0.2	0.2		<0.02						

現場簡易水質測定結果 (マグウェー地域)

地域	タウンシップ	Village's Trac	村落名	ID	位置情報	水源種別	掘削深度 (m)	井戸直径 (in)	静水位 (m)	揚水量 (g/h)	水温 (°C)	pH	EC (µs/cm)	臭い	色	Mn (mg/l)	Fe (mg/l)	F (mg/l)	NO3- (mg/l)	NO2- (mg/l)	大腸菌	詳細水質分析実施	
ミャンマー国飲料水水質基準値												6.5 - 8.5	-	-	-	0.4	1.0	1.5	50.0	-	3		
MAGWAY	Magway	Natkan	Natkan	MG2-01-1	X-706494, Y-2234069	Deep well	174	4	73.1	1100	31.4	7.16	988	Non	Non	<0.02	0.4	0.4		<0.02			
		Sharzaungkan	Thanbo (Ywarthit)	MG2-02-1	X-776115, Y-2216165	Deep well	120	4	83.8			32.0	7.16	1,494	Non	Non	<1	<0.2	0.6	3	0.1		
		Kyarkan	Nyaungbinthar	MG2-03-1	X-736944, Y-2243982	Deep well	120	4	154	1400	32.6	7.30	1,067	Non	Non	<1	<0.2	0.1		<0.02			
		Nyaungbinthar	Konegyi	MG2-04-1	X-718611, Y-2237657	Deep well	220	6	134	2000	33.0	7.11	1,010	Slightly iron	Non	<1	0.3	0.3	<1	<0.02			
		Paypinsan	Saingya	MG2-05-1	X-725131, Y-2213520	Deep well	200	4	153	1200	33.4	7.23	1,460	Slightly iron	Non	<1	0.7	0.3	<1	<0.02			
		Thapyaysan	Thapyaysan(S)	MG2-06-1	X-712184, Y-2227130	Deep well	189	6	97	2000	33.5	7.32	1,108	Slightly iron	Non	<1	0.2	0.5	2	<0.02			
		Supyitsan	Shwekyaw	MG2-07-1	X-733928, Y-2207547	Deep well	198	4	82.2	1500	33.7	7.57	1,352	Non	Non	<1	0.2	0.6	<1	<0.02			
		Nyaungkan	Leikkan	MG2-08-1	X-726925, Y-2239707	Deep well	114	6		1300	31.8	7.00	872	Slightly iron	Non	<1	0.3	0.2		<0.02			
	Nyaungkan	Ywarthitgyi	MG2-09-1	X-722084, Y-2237682	Deep well	177		103.6	1500	32.2	7.04	805	Non	Non	<1	<0.2	0.1	<1	<0.02				
	Chauk	Thanbo	Kanyaygyi	MG2-10-1	X-702708, Y-2281908	Deep well	327	4	209.6	900	29.4	7.37	1,013	Iron smell	Non	<1	2.0	0.8	<1	<0.02		○	
		Myaysoon	Myaysoon(W)	MG2-11-1	X-699118, Y-2278070	Deep well	259			1500	31.6	7.42	1,109	Iron smell	Non	<1	3.0	1.2	<1	<0.02		○	
		Zeebwar	Zeebwar	MG2-12-1	X-711611, Y-2298972	Deep well	152	4		1600	28.2	7.86	1,409	Non	Non	<1	<0.2	2.0	1	<0.02		○	
		Chaugtat	Yarpyay	MG2-13-1	X-690042, Y-2301200	Deep well	148	6		1000	31.8	7.42	2,150	Iron smell	Non	<1	0.5	0.1	<1	<0.02			
		Pakhanng	Kyatesu(N)	MG2-14-1	X-665497, Y-2292703	Deep well	67	2		750	37.8	8.15	3,090	Non	Non	<1	<0.2	0	1	<0.02			
		Salintaung	Winkabar	MG2-15-1	X-684440, Y-2287209	Deep well	110	4	30.4	900	30.5	8.37	703	Non	Non	<1	<0.2	0.2	2	0.1		○	
		Magyikone	Kyatkan	MG2-16-1	X-690394, Y-2296166	Deep well	171			300	40.2	8.50	1,571	Oily smell	Non	<1	<0.2	0.3	<1	<0.02			
		Gwaypin	Sudat	MG2-17-1	X-707065, Y-2285476	Deep well	365	4	262.1	1500	29.5	7.32	1,089	Non	Non	<1	<0.2	0.2	1	0.05			
	Yenangyaung	Indaw	Leigyinyoe	MG2-19-1	X-724077, Y-2266805	Deep well	278	4	134.1	1440	30.9	6.82	1,410	Non	Non	<1	<0.2	0.3	2	<0.02			
			Teipyinsakan	MG2-19-2	X-724896, Y-2268094	Deep well	248	6	142	2250	31.1	6.50	2,370	Iron smell	Non	<1	1.5	1.0	<1	<0.02		○	
	Myothit	Laytinesin	Laytinesin	MG2-20-1	X-732910, Y-2235168	Deep well	200	6	109.7	3500	31.6	7.18	705	Slightly iron	Non	<0.02	0.3	0.2		<0.02			
		Laytinesin	Tharmyar	MG2-21-1	X-736194, Y-2241244	Deep well	198		118.8	54000	32.1	6.91	666	Non	Non	<0.02	<0.2	0.1		<0.02			
		Laytinesin	Aungmyinthar	MG2-22-1	X-733075, Y-2231654	Deep well	104	4	55.1	700	36.6	7.87	993	Non	Non	<0.02	<0.2	0.3		<0.02			
		Wargyini	Ngwelay	MG2-23-1	X-738864, Y-2222537	Deep well	116	4	51.8	1500	38.5	7.51	863	Non	Non	<0.02	<0.2	0.3		<0.02			
		Htauksharkan	Indaw(N)	MG2-24-1	X-742446, Y-2229548	Deep well	110	2		800	41.5	8.13	928	Non	High turbidity	<0.02	<0.2	0.1		<0.02			
		Dantdalunbin	Htanaungkwin	MG2-25-1	X-770840, Y-2225170	Shallow well	11	2	9.7		29.4	7.34	1,085	Non	Non	<0.02	<0.2	0.1		<0.02		○	
		Manawtkone	Manawtkone	MG2-26-1	X-732002, Y-2222325	Deep well	128	6	24	2300	32.0	8.31	662	Non	Non	<0.02	<0.2	0.1		<0.02		○	
	Natmauk	Htonepoutchine	Htonepoutchine	MG2-28-1	X-730959, Y-2255652	Dug well					31.3	7.58	868	Non	Non	<0.02	<0.2	0.6		0.05	35		
		Sakyattaung	Sakyattaung	MG2-28-2	X-731705, Y-2255329	Deep well	107	2			33.3	8.21	701	Non	Non	<0.02	0.7	0		<0.02			
		Padaukngote	Padaukngote	MG2-29-1	X-737425, Y-2248858	Deep well	219			800	35.2	6.93	2,950	Iron smell	Non	<0.02	3.0	0.8		<0.02			
		Sellel	Sellel	MG2-30-1	X-783632, Y-2259197	Deep well					33.9	8.68	935	Non	Non	<1	0.2	0.2		<0.02			
		Tegyi	Ywartharlay	MG2-32-1	X-731373, Y-2275351	Deep well	177	2	67	750	33.5	7.29	3,840	Iron smell	Non	2	1.0	0.2		0.04		○	
		Wayonegone	Wayonegone	MG2-33-1	X-736518, Y-2267323	Deep well					33.6	7.35	5,330	Slightly iron	Non	<0.02	8.0	0.8		<0.02			
Htonepoutchine		Nyaunggone	MG2-34-1	X-732682, Y-2256117	Deep well					29.6	7.88	1,280	Non	Non	<0.02	<0.2	1.3		<0.02				
Taungdwingyi	Pantwinlay	Kokkohla	MG2-36-1	X-765957, Y-2218608	Dug well	15				28.9	7.04	1,335	Non	Non	<1	<0.2	0.3	20	<0.02				
		Kokkohla	MG2-36-2	X-766919, Y-2218218	Deep well	116	4	18.2	700	29.7	8.67	1,587	Muddy smell	Shallow yellow	<1	<0.2	2.0	<1	<0.02		○		
	Payatkyal	Kangyigone	MG2-37-1	X-762556, Y-2192933	Deep well	183		164.5	50	29.3	8.82	4,520	Non	High turbidity	<1	<0.2	3.0	<1	0.02		○		
		Payatkyal	MG2-37-2	X-757586, Y-2193879	Deep well	183	2	2.1		30.1	8.77	722	Non	Non	<1	<0.2	0.2	<1	<0.02				
	Warthonepyu	Htaukkyantgwin	MG2-38-1	X-772150, Y-2184875	Shallow well	15				28.7	7.48	1,615	Non	Non	<1	<0.2	0.6	3	<0.02				
	Hlebwegyi	Hlebwegyi	MG2-39-1	X-747939, Y-2200787	Dug well	5					30.5	8.00	845	Non	Slightly turbidity	<1	<0.2	0.1	4	<0.02			
Yayhtwetgyi		MG2-40-1	X-743090, Y-2197425	Dug well						29.5	7.93	678	Non	Turbidity	<1	<0.2	0.2	1	<0.02				

5.3.2 現地水質測定状況

(1) ザガイン地域

Region	SAGAING		Date	2015/5/7
Township	Budalin		Reported by	YORITATE Toru
Village / ID	Yonedaw	SA2-1	Coordinate (WGS84 UTM)	X
			Y	

Information of Existing Water Sauce - 1				
Type	○ Deep Well		X	721184
	Shallow Well		Y	2468685
	Storage reservoir			
	Others			
Hydrogeological Information	Drilled Depth (m)	160	Sample ID	SA2-1-1
	Diameter (in)	6	Temperature (°C)	30.2
	S.W.L (m)	40	pH	7.95
	D.W.L (m)		EC (µs/cm)	1,230
	Yield (m³/hour)	5.5	Smell	Non
	No.of users (person/day)		Color	Non
	Supply facilities	Submergible pump	Mn (mg/l)	<0.02
	Remarks (Lithology , etc.)		Fe (mg/l)	<0.2
At the beginning of the operation Mono pump was used. However, submergible pump has installed now. Flat alluvial plane.		F (mg/l)	1.5	
		NO3- (mg/l)	20.0	
		NO2- (mg/l)	<0.02	
		Coliforms		

Information of Existing Water Sauce - 2				
Type	○ Deep Well		X	721013
	Shallow Well		Y	2468509
	Storage reservoir			
	Others			
Hydrogeological Information	Drilled Depth (m)	122	Sample ID	SA2-1-2
	Diameter (in)	2	Temperature (°C)	31.2
	S.W.L (m)	30	pH	8.13
	D.W.L (m)		EC (µs/cm)	1,425
	Yield (m³/hour)	3.6	Smell	Non
	No.of users (person/day)		Color	Non
	Supply facilities	Airlift	Mn (mg/l)	<0.02
	Remarks (Lithology , etc.)		Fe (mg/l)	<0.2
Constructed at 2007. Air lift pipe length 90m		F (mg/l)	0.2	
		NO3- (mg/l)	<1	
		NO2- (mg/l)	<0.02	
		Coliforms		



Region	SAGAING		Date	2015/5/7
Township	Budalin		Reported by	YORITATE Toru
Village / ID	Nyaungpinthar	SA2-2	Coordinate (WGS84 UTM)	X
			Y	

Information of Existing Water Sauce - 1				
Type	○ Deep Well		X	720877
	Shallow Well		Y	2486641
	Storage reservoir		/	
	Others			
Hydrogeological Information	Drilled Depth (m)	82	Sample ID	SA2-2-1
	Diameter (in)	2	Temperature (°C)	31.5
	S.W.L (m)	37	pH	7.84
	D.W.L (m)		EC (µs/cm)	1,475
	Yield (m ³ /hour)	3.6	Smell	Non
	No. of users (person/day)		Color	Non
	Supply facilities	Air lift	Mn (mg/l)	<0.02
	Remarks (Lithology, etc.)		Fe (mg/l)	<0.2
		F (mg/l)	0.4	
		NO3- (mg/l)	15.0	
		NO2- (mg/l)	<0.02	
		Coliforms		

Photo



Information of Existing Water Sauce - 2				
Type	Deep Well		X	721015
	Shallow Well		Y	2486402
	Storage reservoir		/	
	○ Others Dug Well			
Hydrogeological Information	Drilled Depth (m)	6.0	Sample ID	SA2-2-2
	Diameter (in)	1.0m	Temperature (°C)	29.2
	S.W.L (m)	5.7	pH	7.58
	D.W.L (m)		EC (µs/cm)	2,470
	Yield (m ³ /hour)		Smell	Non
	No. of users (person/day)		Color	Non
	Supply facilities		Mn (mg/l)	<0.02
	Remarks (Lithology, etc.)		Fe (mg/l)	<0.2
SWL in rainy season is 2.7m Target : 7200885/2486381		F (mg/l)	0.4	
		NO3- (mg/l)	45.0	
		NO2- (mg/l)	0.1	
		Coliforms	Too much	

Photo



Region	SAGAING		Date	2015/5/7
Township	Budalin		Reported by	YORITATE Toru
Village / ID	Maunghtaung	SA2-3	Coordinate (WGS84 UTM)	X
			Y	

Information of Existing Water Source - 1					
Type	○ Deep Well	Coordinate	X	712929	
	Shallow Well		Y	2487787	
	Storage reservoir				
	Others				
Hydrogeological Information	Drilled Depth (m)	73	Sample ID	SA2-3-1	
	Diameter (in)	2	Temperature (°C)	30.0	
	S.W.L (m)	>30	pH	8.36	
	D.W.L (m)		EC (µs/cm)	2,610	
	Yield (m ³ /hour)	9.1	Smell	Non	
	No.of users (person/day)		Color	Non	
	Supply facilities	Airlift	Mn (mg/l)	<0.02	
	Remarks (Lithology , etc.)			Fe (mg/l)	<0.2
Irawagi Formation			F (mg/l)	0.8	
Private Well			NO3- (mg/l)	45<	
280 TW exist 5-6 hour one well			NO2- (mg/l)	<0.02	
				Coliforms	2.0

Information of Existing Water Source - 2					
Type	○ Deep Well	Coordinate	X	712889	
	Shallow Well		Y	2488508	
	Storage reservoir				
	Others				
Hydrogeological Information	Drilled Depth (m)	122	Sample ID	SA2-3-2	
	Diameter (in)	2	Temperature (°C)	30.3	
	S.W.L (m)	37	pH	7.95	
	D.W.L (m)		EC (µs/cm)	620	
	Yield (m ³ /hour)	3.6	Smell	Non	
	No.of users (person/day)		Color	Non	
	Supply facilities	Airlift	Mn (mg/l)	<0.02	
	Remarks (Lithology , etc.)			Fe (mg/l)	<0.2
No electricity when we visited, therefore we could not get fresh water. The sample got from resouivre tank.			F (mg/l)	0.2	
				NO3- (mg/l)	<1
				NO2- (mg/l)	<0.02
				Coliforms	



Region	SAGAING		Date	2015/5/8
Township	Budalin		Reported by	YORITATE Toru
Village / ID	Kantawthar	SA2-4	Coordinate (WGS84 UTM)	X
			Y	

Information of Existing Water Source - 1				
Type	○ Deep Well	Coordinate	X	704411
	Shallow Well		Y	2487667
	Storage reservoir			
	Others			
Hydrogeological Information	Drilled Depth (m)	122	Sample ID	SA2-4-1
	Diameter (in)	2	Temperature (°C)	29.8
	S.W.L (m)	39	pH	8.14
	D.W.L (m)		EC (µs/cm)	534
	Yield (m ³ /hour)	5.5	Smell	Non
	No.of users (person/day)		Color	Non
	Supply facilities	Air lift	Mn (mg/l)	<0.02
	Remarks (Lithology , etc.)	Results of Simplified Water Quality Test		
Constructed in 2005 Public well	Fe (mg/l) <0.2			
	F (mg/l) 0.2			
	NO3- (mg/l) <1			
	NO2- (mg/l) <0.02			
	Coliforms			



Information of Existing Water Source - 2				
Type	○ Deep Well	Coordinate	X	704202
	Shallow Well		Y	2487722
	Storage reservoir			
	Others			
Hydrogeological Information	Drilled Depth (m)	62.0	Sample ID	SA2-4-2
	Diameter (in)	2	Temperature (°C)	30.4
	S.W.L (m)	32	pH	8.12
	D.W.L (m)		EC (µs/cm)	663
	Yield (m ³ /hour)	3.6	Smell	Non
	No.of users (person/day)		Color	Non
	Supply facilities		Mn (mg/l)	<0.02
	Remarks (Lithology , etc.)	Results of Simplified Water Quality Test		
Constructed in 2013 Enough for drinking water, however total amount is not enough. 10 private TW(61 m ave)	Fe (mg/l) <0.2			
	F (mg/l) 0.6			
	NO3- (mg/l) 5.0			
	NO2- (mg/l) <0.02			
	Coliforms			



Region	SAGAING		Date	2015/5/8
Township	Budalin		Reported by	YORITATE Toru
Village / ID	Mhonehtoo	SA2-5	Coordinate (WGS84 UTM)	X
			Y	

Information of Existing Water Source - 1				
Type	○ Deep Well		X	729667
	Shallow Well		Y	2470736
	Storage reservoir			
	Others			
Hydrogeological Information	Drilled Depth (m)	118	Sample ID	SA2-5-1
	Diameter (in)	4	Temperature (°C)	31.7
	S.W.L (m)	34	pH	7.91
	D.W.L (m)		EC (µs/cm)	628
	Yield (m ³ /hour)		Smell	Sulfur smell
	No.of users (person/day)		Color	Non
	Supply facilities		Mn (mg/l)	<0.02
	Remarks (Lithology , etc.)		Fe (mg/l)	<0.2
They could not drink. Target : 729874/2471014		F (mg/l)	0.6	
		NO3- (mg/l)	<1	
		NO2- (mg/l)	<0.02	
		Coliforms		
		Results of Simplified Water Quality Test		



Information of Existing Water Source - 2				
Type	Deep Well		X	729835
	Shallow Well		Y	2471196
	Storage reservoir			
	○ Others <i>Dug Well</i>			
Hydrogeological Information	Drilled Depth (m)	12.5	Sample ID	SA2-5-2
	Diameter (in)	1.7m	Temperature (°C)	30.6
	S.W.L (m)	8.1	pH	7.34
	D.W.L (m)		EC (µs/cm)	1,136
	Yield (m ³ /hour)		Smell	Non
	No.of users (person/day)		Color	Non
	Supply facilities		Mn (mg/l)	<0.02
	Remarks (Lithology , etc.)		Fe (mg/l)	<0.2
		F (mg/l)	0.6	
		NO3- (mg/l)	5.0	
		NO2- (mg/l)	<0.02	
		Coliforms	0	
		Results of Simplified Water Quality Test		



Region	SAGAING		Date	2015/5/7
Township	Budalin		Reported by	YORITATE Toru
Village / ID	Mhonehtoo	SA2-5	Coordinate (WGS84 UTM)	X
			Y	

Information of Existing Water Source - 1					
Type	<input type="radio"/> Deep Well	Coordinate	X	729847	
	<input type="radio"/> Shallow Well		Y	2470770	
	<input type="radio"/> Storage reservoir				
	<input type="radio"/> Others				
Hydrogeological Information	Drilled Depth (m)	146	Results of Simplified Water Quality Test	Sample ID	SA2-5-3
	Diameter (in)	2		Temperature (°C)	
	S.W.L (m)	36		pH	
	D.W.L (m)			EC (µs/cm)	
	Yield (m³/hour)	4.1		Smell	
	No.of users (person/day)			Color	
	Supply facilities			Mn (mg/l)	
	Remarks (Lithology , etc.)	DRD constructed. More salty Cannot operate now.		Fe (mg/l)	
			F (mg/l)		
			NO3- (mg/l)		
			NO2- (mg/l)		
			Coliforms		

Information of Existing Water Source - 2					
Type	<input type="radio"/> Deep Well	Coordinate	X	732022	
	<input type="radio"/> Shallow Well		Y	2470662	
	<input type="radio"/> Storage reservoir				
	<input type="radio"/> Others				
Hydrogeological Information	Drilled Depth (m)	115	Results of Simplified Water Quality Test	Sample ID	SA2-5-4
	Diameter (in)	4		Temperature (°C)	31.1
	S.W.L (m)	28		pH	7.53
	D.W.L (m)			EC (µs/cm)	1,700
	Yield (m³/hour)			Smell	Non
	No.of users (person/day)			Color	Non
	Supply facilities	Airlift		Mn (mg/l)	<0.02
	Remarks (Lithology , etc.)	Twegi village's well. Almost top of the hill. In the monestry compound.		Fe (mg/l)	<0.2
			F (mg/l)	0.6	
			NO3- (mg/l)	<1	
			NO2- (mg/l)	<0.02	
			Coliforms		



Region	SAGAING		Date	2015/5/8
Township	Budalin		Reported by	YORITATE Toru
Village / ID	Watluu-I	SA2-6	Coordinate (WGS84 UTM)	X Y

Information of Existing Water Source - 1					
Type	○ Deep Well		X	700719	
	Shallow Well		Y	2482574	
	Storage reservoir				
	Others				
Hydrogeological Information	Drilled Depth (m)	70	Sample ID	SA2-6-1	
	Diameter (in)	2	Temperature (°C)	30.3	
	S.W.L (m)	32	pH	7.94	
	D.W.L (m)		EC (µs/cm)	949	
	Yield (m ³ /hour)	4.5	Smell	Non	
	No.of users (person/day)		Color	Non	
	Supply facilities		Mn (mg/l)	<0.02	
	Remarks (Lithology, etc.)			Fe (mg/l)	<0.2
Private well 20 Airlift well (private) in this 3 years				F (mg/l)	0.8
				NO3- (mg/l)	30.0
				NO2- (mg/l)	<0.02
				Coliforms	

Information of Existing Water Source - 2					
Type	Deep Well		X	700290	
	Shallow Well		Y	2482117	
	Storage reservoir				
	○ Others <i>Dug Well</i>				
Hydrogeological Information	Drilled Depth (m)	9.1	Sample ID	SA2-6-2	
	Diameter (in)	1.4m	Temperature (°C)	28.6	
	S.W.L (m)	8.7	pH	7.04	
	D.W.L (m)		EC (µs/cm)	663	
	Yield (m ³ /hour)		Smell	Non	
	No.of users (person/day)		Color	Non	
	Supply facilities		Mn (mg/l)	<0.02	
	Remarks (Lithology, etc.)			Fe (mg/l)	<0.2
Use for drinking.				F (mg/l)	0.4
				NO3- (mg/l)	4.0
				NO2- (mg/l)	<0.02
				Coliforms	Too much



Region	SAGAING		Date	2015/5/6
Township	Chaungoo		Reported by	YORITATE Toru
Village / ID	Thanbinkan	SA2-07	Coordinate (WGS84 UTM)	X Y

Information of Existing Water Sauce - 1				
Type	<input type="radio"/> Deep Well	Coordinate	X	742454
	<input type="radio"/> Shallow Well		Y	2430600
	<input type="radio"/> Storage reservoir			
	<input type="radio"/> Others			
Hydrogeological Information	Drilled Depth (m)	192	Sample ID	SA2-07-1
	Diameter (in)	4	Temperature (°C)	30.6
	S.W.L (m)	72.2	pH	8.68
	D.W.L (m)		EC (µs/cm)	1,224
	Yield (m³/hour)		Smell	Non
	No.of users (person/day)		Color	Non
	Supply facilities		Mn (mg/l)	<0.02
	Remarks (Lithology , etc.)		Fe (mg/l)	<0.2
			F (mg/l)	0.8
			NO3- (mg/l)	10.0
			NO2- (mg/l)	< 0.02
			Coliforms	

Information of Existing Water Sauce - 2				
Type	<input type="radio"/> Deep Well	Coordinate	X	742361
	<input type="radio"/> Shallow Well		Y	2430401
	<input type="radio"/> Storage reservoir			
	<input type="radio"/> Others			
Hydrogeological Information	Drilled Depth (m)	152	Sample ID	SA2-07-2
	Diameter (in)	6	Temperature (°C)	36.7
	S.W.L (m)	70	pH	7.52
	D.W.L (m)		EC (µs/cm)	1,245
	Yield (m³/hour)	11.4	Smell	Non
	No.of users (person/day)		Color	Non
	Supply facilities		Mn (mg/l)	<0.02
	Remarks (Lithology , etc.)		Fe (mg/l)	<0.2
			F (mg/l)	0.8
			NO3- (mg/l)	10.0
			NO2- (mg/l)	<0.02
			Coliforms	

Photo



Photo



Region	SAGAING		Date	2015/5/6	
Township	Chaungoo		Reported by	YORITATE Toru	
Village / ID	Natyaygan	SA2-08	Coordinate (WGS84 UTM)	X	743883
			Y	2426853	

Information of Existing Water Source - 1						
Type	○ Deep Well		Coordinate	X	743872	
	Shallow Well			Y	2426840	
	Storage reservoir					
	Others					
Hydrogeological Information	Drilled Depth (m)	173	Results of Simplified Water Quality Test	Sample ID	SA2-08-1	
	Diameter (in)	6		Temperature (°C)	37.9	
	S.W.L (m)	61		pH	7.81	
	D.W.L (m)			EC (µs/cm)	2,820	
	Yield (m ³ /hour)	9.1		Smell	Non	
	No.of users (person/day)			Color	Non	
	Supply facilities			Mn (mg/l)	<0.02	
	Remarks (Lithology , etc.)			Fe (mg/l)	<0.2	
- Mono Pump system - They have another well. Unfortunately,solar pump system(80W x 30 panels) which is using Grundfos SQL pump has broken for a week. However, water amount is still no problem. -116m TW donated UNICEF in 2012, cannot operate cause of moter pump trouble		F (mg/l)	0.8			
		NO3- (mg/l)	<1			
		NO2- (mg/l)	< 0.02			
		Colifoms				



Information of Existing Water Source - 2						
Type	Deep Well		Coordinate	X	743809	
	Shallow Well			Y	2426699	
	○ Storage reservoir					
	Others					
Hydrogeological Information	Drilled Depth (m)		Results of Simplified Water Quality Test	Sample ID	SA2-08-2	
	Diameter (in)			Temperature (°C)	36.5	
	S.W.L (m)			pH	8.80	
	D.W.L (m)			EC (µs/cm)	311	
	Yield (m ³ /hour)			Smell	Non	
	No.of users (person/day)			Color	Shallow Yellow	
	Supply facilities			Mn (mg/l)	<0.02	
	Remarks (Lithology , etc.)			Fe (mg/l)	0.2	
Water taste is better than well, therefore many people use pond water for drinking. Target : 743821- 2426594		F (mg/l)	0.2			
		NO3- (mg/l)	<1			
		NO2- (mg/l)	<0.02			
		Colifoms	60<			



Region	SAGAING		Date	2015/5/21
Township	Ayadaw		Reported by	YORITATE Toru
Village / ID	Sithar	SA2-9	Coordinate (WGS84 UTM)	X Y

Information of Existing Water Source - 1					Information of Existing Water Source - 2						
Type	○ Deep Well		Coordinate	X	742923	Type	○ Deep Well		Coordinate	X	742829
	Shallow Well			Y	2472596		Shallow Well			Y	2472777
	Storage reservoir						Storage reservoir				
	Others						Others				
Hydrogeological Information	Drilled Depth (m)	97	Results of Simplified Water Quality Test	Sample ID	SA2-9-1	Hydrogeological Information	Drilled Depth (m)	102	Results of Simplified Water Quality Test	Sample ID	SA2-9-2
	Diameter (in)	4		Temperature (°C)	30.7		Diameter (in)	2		Temperature (°C)	31.8
	S.W.L (m)	42		pH	7.66		S.W.L (m)			pH	7.83
	D.W.L (m)			EC (µs/cm)	1,302		D.W.L (m)			EC (µs/cm)	648
	Yield (m³/hour)	4.5		Smell	Non		Yield (m³/hour)	4.5		Smell	Non
	No. of users (person/day)			Color	Non		No. of users (person/day)			Color	Non
	Supply facilities	Submersible pump		Mn (mg/l)	<0.02		Supply facilities	Air lift		Mn (mg/l)	<0.02
	Remarks (Lithology, etc.)	Public well. 34 years ago it was constructed.		Fe (mg/l)	<0.2		Remarks (Lithology, etc.)	Target : 742840 / 2472680 Private Well (picture) Monastery well (96m)		Fe (mg/l)	<0.2
		F (mg/l)	0.6			F (mg/l)	0.2				
		NO3- (mg/l)	2.0			NO3- (mg/l)	1.0				
		NO2- (mg/l)	<0.02			NO2- (mg/l)	<0.02				
		Coliforms				Coliforms					
Photo					Photo						
											
											

Region	SAGAING		Date	2015/5/21
Township	Ayadaw		Reported by	YORITATE Toru
Village / ID	Oakkan	SA2-10	Coordinate (WGS84 UTM)	X
			Y	

Information of Existing Water Source - 1				
Type	○ Deep Well	Coordinate	X	747982
	Shallow Well		Y	2482474
	Storage reservoir			
	Others			
Hydrogeological Information	Drilled Depth (m)	224	Sample ID	SA2-10-1
	Diameter (in)	2	Temperature (°C)	31.3
	S.W.L (m)	+3m	pH	7.05
	D.W.L (m)		EC (µs/cm)	861.0
	Yield (m ³ /hour)	350g/h	Smell	Non
	No.of users (person/day)		Color	Non
	Supply facilities	Artesian	Mn (mg/l)	<0.02
	Remarks (Lithology , etc.)		Results of Simplified Water Quality Test	
Water supplied to 100HH from this surface tank. 2 public well - 224m 2 private well - 91m (2015 constructed)s		Fe (mg/l)	<0.2	
		F (mg/l)	0.0	
		NO3- (mg/l)	<1	
		NO2- (mg/l)	<0.02	
		Coliforms		



Information of Existing Water Source - 2				
Type	○ Deep Well	Coordinate	X	748057
	Shallow Well		Y	2482660
	Storage reservoir			
	Others			
Hydrogeological Information	Drilled Depth (m)	91	Sample ID	SA2-10-2
	Diameter (in)	2	Temperature (°C)	29.9
	S.W.L (m)	21	pH	8.13
	D.W.L (m)		EC (µs/cm)	1014.0
	Yield (m ³ /hour)	1200g/h	Smell	Non
	No.of users (person/day)		Color	Non
	Supply facilities	Air lift	Mn (mg/l)	<0.02
	Remarks (Lithology , etc.)		Results of Simplified Water Quality Test	
Target : 747838 / 2482552 0-61 m Fine sand 61m ~ Brown fine sand.		Fe (mg/l)	<0.2	
		F (mg/l)	0.2	
		NO3- (mg/l)	5.0	
		NO2- (mg/l)	<0.02	
		Coliforms		



Region	SAGAING		Date	2015/5/20
Township	Ayadaw		Reported by	YORITATE Toru
Village / ID	Warryaung	SA2-11	Coordinate (WGS84 UTM)	X Y

Information of Existing Water Source - 1				Information of Existing Water Source - 2					
Type	○ Deep Well		X	748212	Type	○ Deep Well		X	748297
	Shallow Well		Y	2458178		Shallow Well		Y	2458027
	Storage reservoir					Storage reservoir			
	Others								
Hydrogeological Information	Drilled Depth (m)	244	Sample ID	SA2-11-1	Hydrogeological Information	Drilled Depth (m)	61	Sample ID	SA2-11-2
	Diameter (in)	2	Temperature (°C)	30.6		Diameter (in)	2	Temperature (°C)	29.0
	S.W.L (m)	55	pH	7.64		S.W.L (m)	22	pH	7.67
	D.W.L (m)		EC (µs/cm)	920		D.W.L (m)		EC (µs/cm)	721
	Yield (m ³ /hour)	4.5	Smell	Non		Yield (m ³ /hour)	3.4	Smell	Non
	No.of users (person/day)		Color	Non		No.of users (person/day)		Color	Non
	Supply facilities	Air lift	Mn (mg/l)	<0.02		Supply facilities	Air lift	Mn (mg/l)	<0.02
	Remarks (Lithology , etc.)		Fe (mg/l)	<0.2		Remarks (Lithology , etc.)		Fe (mg/l)	<0.2
Donated by NGA MONO pump TW(1980) had broken		F (mg/l)	0.0	Private well Target : 748283/2458130		F (mg/l)	0.0		
		NO3- (mg/l)	5.0			NO3- (mg/l)	1.0		
		NO2- (mg/l)	<0.02			NO2- (mg/l)	<0.02		
		Coliforms				Coliforms			

Photo



Photo



Region	SAGAING		Date	2015/5/21
Township	Ayadaw		Reported by	YORITATE Toru
Village / ID	Warrtangkalay	SA2-12	Coordinate (WGS84 UTM)	X
			Y	

Information of Existing Water Source - 1					Information of Existing Water Source - 2						
Type	○ Deep Well		Coordinate	X	751008	Type	○ Deep Well		Coordinate	X	750726
	Shallow Well			Y	2470107		Shallow Well			Y	2470091
	Storage reservoir						Storage reservoir				
	Others						Others				
Hydrogeological Information	Drilled Depth (m)	97	Results of Simplified Water Quality Test	Sample ID	SA2-12-1	Hydrogeological Information	Drilled Depth (m)	305	Results of Simplified Water Quality Test	Sample ID	SA2-12-2
	Diameter (in)	6		Temperature (°C)	30.5		Diameter (in)	2		Temperature (°C)	30.9
	S.W.L (m)			pH	7.25		S.W.L (m)			pH	8.61
	D.W.L (m)			EC (µs/cm)	912		D.W.L (m)			EC (µs/cm)	1,155
	Yield (m³/hour)	31.8		Smell	Non		Yield (m³/hour)			Smell	Non
	No.of users (person/day)			Color	Non		No.of users (person/day)			Color	Non
	Supply facilities	Mono Pump		Mn (mg/l)	<0.02		Supply facilities	Air lift		Mn (mg/l)	<0.02
	Remarks (Lithology , etc.)	Irrawaddi formation. 1 Mono pump well 97m 3 Airlift Well -305m : public - 97m :Monastery -97m : Private		Fe (mg/l)	<0.2		Remarks (Lithology , etc.)	Constructed in 2003. They hoped to get artesian well, however couldn't reach. Target : 750823 / 2470044		Fe (mg/l)	<0.2
			F (mg/l)	0.0				F (mg/l)	1.0		
			NO3- (mg/l)	<1				NO3- (mg/l)	<1		
			NO2- (mg/l)	<0.02				NO2- (mg/l)	<0.02		
			Coliforms					Coliforms			



Region	SAGAING		Date	2015/5/21
Township	Ayadaw		Reported by	YORITATE Toru
Village / ID	Yathar	SA2-13	Coordinate (WGS84 UTM)	X
			Y	

Information of Existing Water Source - 1					Information of Existing Water Source - 2						
Type	○ Deep Well		Coordinate	X	766191	Type	○ Deep Well		Coordinate	X	766062
	Shallow Well			Y	2449689		Shallow Well			Y	2449698
	Storage reservoir						Storage reservoir				
	Others						Others				
Hydrogeological Information	Drilled Depth (m)	182	Results of Simplified Water Quality Test	Sample ID	SA2-13-1	Hydrogeological Information	Drilled Depth (m)	61	Results of Simplified Water Quality Test	Sample ID	SA2-13-2
	Diameter (in)	2		Temperature (°C)	31.7		Diameter (in)	2		Temperature (°C)	31.7
	S.W.L (m)			pH	7.92		S.W.L (m)			pH	8.48
	D.W.L (m)			EC (µs/cm)	4,470		D.W.L (m)			EC (µs/cm)	1,253
	Yield (m³/hour)	5.5		Smell	Non		Yield (m³/hour)	2.7		Smell	Non
	No.of users (person/day)			Color	Non		No.of users (person/day)			Color	Non
	Supply facilities	Air lift		Mn (mg/l)	<0.02		Supply facilities	Air lift		Mn (mg/l)	<0.02
	Remarks (Lithology , etc.)			Fe (mg/l)	<0.2		Remarks (Lithology , etc.)			Fe (mg/l)	<0.2
Q2 area. 107m TW (PDA)Cannot drink 60m~182mPrivate TW (total 28TWs) Shallow well's water quality is better than deep one.		F (mg/l)	0.8	Private Well Target- 766166/2449638		F (mg/l)	0.6				
		NO3- (mg/l)	<1			NO3- (mg/l)	2.0				
		NO2- (mg/l)	<0.02			NO2- (mg/l)	<0.02				
		Coliforms				Coliforms					
Photo					Photo						
											

Region	SAGAING		Date	2015/5/20
Township	Ayadaw		Reported by	YORITATE Toru
Village / ID	Zeepinlel	SA2-14	Coordinate (WGS84 UTM)	X
			Y	

Information of Existing Water Source - 1				
Type	○ Deep Well	Coordinate	X	751681
	Shallow Well		Y	2457462
	Storage reservoir			
	Others			
Hydrogeological Information	Drilled Depth (m)	115	Sample ID	SA2-14-1
	Diameter (in)	2	Temperature (°C)	29.6
	S.W.L (m)		pH	7.50
	D.W.L (m)		EC (µs/cm)	731
	Yield (m ³ /hour)	>4.5	Smell	Non
	No.of users (person/day)		Color	Non
	Supply facilities	Air lift	Mn (mg/l)	<0.02
	Remarks (Lithology , etc.)	Irrawaddi formation. Mostly sandy soil. Private 6 TW (107-137m) Shallow 28 well (All private)		Fe (mg/l)
			F (mg/l)	0.0
			NO3- (mg/l)	<1
			NO2- (mg/l)	<0.02
			Coliforms	

Information of Existing Water Source - 2				
Type	Deep Well	Coordinate	X	751521
	○ Shallow Well		Y	2457542
	Storage reservoir			
	Others			
Hydrogeological Information	Drilled Depth (m)	30	Sample ID	SA2-14-2
	Diameter (in)		Temperature (°C)	28.7
	S.W.L (m)	7.6m<	pH	7.04
	D.W.L (m)		EC (µs/cm)	954
	Yield (m ³ /hour)		Smell	Non
	No.of users (person/day)		Color	Non
	Supply facilities	Suction pump	Mn (mg/l)	<0.02
	Remarks (Lithology , etc.)	Coner of the school area Target : 751516/ 2457534		Fe (mg/l)
			F (mg/l)	0.2
			NO3- (mg/l)	5.0
			NO2- (mg/l)	<0.02
			Coliforms	Too much



Region	SAGAING		Date	2015/5/5	
Township	Sarlingyi		Reported by	YORITATE Toru	
Village / ID	Minntaw	SA2-16	Coordinate (WGS84 UTM)	Zone	X
				46Q	Y

Information of Existing Water Source - 1						
Type	Deep Well	Coordinate	X	9506514		
	Shallow Well		Y	2194759		
	Storage reservoir					
	○ Others(Dug well)					
Hydrogeological Information	Drilled Depth (m)	3	Results of Simplified Water Quality Test	Sample ID	SA2-16-1	
	Diameter (in)	0.8		Temperature (°C)	32.0	
	S.W.L (m)	2.3		pH	7.35	
	D.W.L (m)			EC (µs/cm)	935	
	Yield (m³/hour)			Smell	Non	
	No.of users (person/day)			Color	Non	
	Supply facilities			Mn (mg/l)	<0.02	
	Remarks (Lithology , etc.)	In the morning, water level is back to the ground level.		Fe (mg/l)	<0.2	
	F (mg/l)			1.5		
	NO3-(mg/l)			30.0		
	NO2-(mg/l)			<0.07		
	Coliforms					

Information of Existing Water Source - 2						
Type	Deep Well	Coordinate	X	9506526		
	Shallow Well		Y	2194751		
	Storage reservoir					
	○ Others(Dug well)					
Hydrogeological Information	Drilled Depth (m)	3.8	Results of Simplified Water Quality Test	Sample ID		
	Diameter (in)	1.45		Temperature (°C)		
	S.W.L (m)	3.8		pH		
	D.W.L (m)	0.6		EC (µs/cm)		
	Yield (m³/hour)			Smell		
	No.of users (person/day)			Color		
	Supply facilities			Mn (mg/l)		
	Remarks (Lithology , etc.)			Fe (mg/l)		
	F (mg/l)					
	NO3-(mg/l)					
	NO2-(mg/l)					
	Coliforms					



Region	SAGAING		Date	2015/5/5	
Township	Sarlingyi		Reported by	YORITATE Toru	
Village / ID	Minntaw	SA2-16	Coordinate (WGS84 UTM)	Zone X	46Q Y

Information of Existing Water Source - 3						
Type	Deep Well	Coordinate	X	712670		
	Shallow Well		Y	2428751		
	Storage reservoir					
	Others					
Hydrogeological Information	Drilled Depth (m)	8	Sample ID	SA2-16-2		
	Diameter (in)	1.1	Temperature (°C)	31.6		
	S.W.L (m)	5.9	pH	7.56		
	D.W.L (m)		EC (µs/cm)	1,337		
	Yield (m ³ /hour)		Smell			
	No.of users (person/day)		Color			
	Supply facilities		Mn (mg/l)	<0.02		
			Fe (mg/l)	0.2		
Remarks (Lithology , etc.) - 2" riser pipe, Air lift. Small water. - High salinity. Can not drink.			F (mg/l)	1.5		
			NO3- (mg/l)	3.0		
			NO2- (mg/l)	<0.02		
			Coliforms	0		
			Results of Simplified Water Quality Test			

Information of Existing Water Source -						
Type	Deep Well	Coordinate	X	9505791		
	Shallow Well		Y	2105791		
	Storage reservoir					
	Others					
Hydrogeological Information	Drilled Depth (m)	121	Sample ID	SA2-16-3		
	Diameter (in)	2	Temperature (°C)	32.2		
	S.W.L (m)		pH	7.42		
	D.W.L (m)		EC (µs/cm)	4,830		
	Yield (m ³ /hour)		Smell	No		
	No.of users (person/day)		Color	No		
	Supply facilities		Mn (mg/l)	<0.02		
			Fe (mg/l)	1.5		
Remarks (Lithology , etc.) 2"riser pipe, Air lift. Small water. High salinity. Can not drink.			F (mg/l)	<0.2		
			NO3- (mg/l)	1.0		
			NO2- (mg/l)	<0.02		
			Coliforms			
			Results of Simplified Water Quality Test			



Region	SAGAING		Date	2015/5/5	
Township	Sarlingyi		Reported by	YORITATE Toru	
Village / ID	Kine	SA2-17	Coordinate (WGS84 UTM)	Zone X	711531
				46Q Y	2437798

Information of Existing Water Source - 1								
Type	Deep Well	Coordinate	X	711613				
	Shallow Well		Y	2437746				
	○ Storage reservoir							
	Others							
Hydrogeological Information	Drilled Depth (m)	91	Sample ID	SA2-17-1				
	Diameter (in)	4	Temperature (°C)	33.9				
	S.W.L (m)	19	pH	8.82				
	D.W.L (m)		EC (µs/cm)	640				
	Yield (m ³ /hour)	4.5	Smell	Non				
	No.of users (person/day)	305	Color	Shallow Yellow				
	Supply facilities		Mn (mg/l)	<0.02				
	Remarks (Lithology , etc.)	Results of Simplified Water Quality Test						
Pond is only one source of water. Lower Peg formation. Edge of pond crop up sand and silt stone alternation. Hardly weathered.								
	Fe (mg/l)						<0.2	
	F (mg/l)						1.5	
	NO3- (mg/l)						2.0	
	NO2- (mg/l)						0.1	
	Coliforms	2						



Information of Existing Water Source - 2								
Type	Deep Well	Coordinate	X					
	Shallow Well		Y					
	Storage reservoir							
	Others							
Hydrogeological Information	Drilled Depth (m)		Sample ID					
	Diameter (in)		Temperature (°C)					
	S.W.L (m)		pH					
	D.W.L (m)		EC (µs/cm)					
	Yield (m ³ /hour)		Smell					
	No.of users (person/day)		Color					
	Supply facilities		Mn (mg/l)					
	Remarks (Lithology , etc.)	Results of Simplified Water Quality Test						
Target: 711640 / 2437561								
	Fe (mg/l)							
	F (mg/l)							
	NO3- (mg/l)							
	NO2- (mg/l)							
	Coliforms							



Region	SAGAING		Date	2015/5/10	
Township	Myinmu		Reported by	YORITATE Toru	
Village / ID	Kalarpyan	SA2-18	Coordinate (WGS84 UTM)	X	749917
				Y	2421805

Information of Existing Water Source - 1						
Type	Deep Well	Coordinate	X	749919		
	Shallow Well		Y	2422162		
	Storage reservoir					
	Others					
Hydrogeological Information	Drilled Depth (m)	55	Results of Simplified Water Quality Test	Sample ID	SA2-18-1	
	Diameter (in)	4		Temperature (°C)		
	S.W.L (m)	21		pH		
	D.W.L (m)			EC (µs/cm)		
	Yield (m³/hour)			Smell		
	No.of users (person/day)			Color		
	Supply facilities	Mono		Mn (mg/l)		
	Remarks (Lithology , etc.)			Fe (mg/l)		
Irrawaddi formation area. Drive shaft has broken. Well also too old, can not reuse. Constructed by RUD			F (mg/l)			
			NO3- (mg/l)			
			NO2- (mg/l)			
			Coliforms			



Information of Existing Water Source - 2						
Type	Deep Well	Coordinate	X	749919		
	Shallow Well		Y	2422594		
	Storage reservoir					
	Others					
Hydrogeological Information	Drilled Depth (m)	167	Results of Simplified Water Quality Test	Sample ID	SA2-18-2	
	Diameter (in)	4		Temperature (°C)	32.2	
	S.W.L (m)	36		pH	8.24	
	D.W.L (m)			EC (µs/cm)	3,600	
	Yield (m³/hour)			Smell	Non	
	No.of users (person/day)			Color	Non	
	Supply facilities	Air lift		Mn (mg/l)	<0.02	
	Remarks (Lithology , etc.)			Fe (mg/l)	<0.2	
Target : 749957/2422670			F (mg/l)	1.5		
			NO3- (mg/l)	<1		
			NO2- (mg/l)	<0.02		
			Coliforms			



Region	SAGAING		Date	2015/5/10	
Township	Myinmu		Reported by	YORITATE Toru	
Village / ID	Kalarpyan	SA2-18	Coordinate (WGS84 UTM)	X	749917
				Y	2421805

Information of Existing Water Source - 1						
Type	Deep Well	Coordinate	X	750050		
	Shallow Well		Y	2422676		
	○ Storage reservoir					
	Others					
Hydrogeological Information	Drilled Depth (m)	Results of Simplified Water Quality Test	Sample ID	SA2-18-3		
	Diameter (in)		Temperature (°C)	37.9		
	S.W.L (m)		pH	9.13		
	D.W.L (m)		EC (µs/cm)	244		
	Yield (m ³ /hour)		Smell	Non		
	No.of users (person/day)		Color	Non		
	Supply facilities		Mn (mg/l)	<0.02		
	Remarks (Lithology , etc.)		Fe (mg/l)	<0.2		
Retention pond.	F (mg/l)	0.2				
	NO3-(mg/l)	<1				
	NO2-(mg/l)	<0.02				
	Coliforms					



Information of Existing Water Source - 2						
Type	Deep Well	Coordinate	X	750132		
	○ Shallow Well		Y	2421633		
	Storage reservoir					
	Others					
Hydrogeological Information	Drilled Depth (m)	Results of Simplified Water Quality Test	Sample ID	SA2-18-4		
	Diameter (in)		Temperature (°C)	31.3		
	S.W.L (m)		pH	7.98		
	D.W.L (m)		EC (µs/cm)	2190		
	Yield (m ³ /hour)		Smell	Non		
	No.of users (person/day)		Color	Non		
	Supply facilities		Mn (mg/l)	<0.02		
	Remarks (Lithology , etc.)		Fe (mg/l)	<0.2		
	F (mg/l)	0.8				
	NO3-(mg/l)	5.0				
	NO2-(mg/l)	0.05				
Coliforms						



Region	SAGAING		Date	2015/5/10
Township	Myinmu		Reported by	YORITATE Toru
Village / ID	Hlayookan	SA2-19	Coordinate (WGS84 UTM)	X Y

Information of Existing Water Source - 1				
Type	○ Deep Well	Coordinate	X	758105
	Shallow Well		Y	2439332
	Storage reservoir			
	Others			
Hydrogeological Information	Drilled Depth (m)	152	Sample ID	SA2-19-1
	Diameter (in)	2	Temperature (°C)	30.9
	S.W.L (m)	115	pH	8.2
	D.W.L (m)		EC (µs/cm)	1,050
	Yield (m ³ /hour)	2.0	Smell	Non
	No.of users (person/day)	580	Color	Non
	Supply facilities	Air lift	Mn (mg/l)	<0.02
	Remarks (Lithology , etc.)		Fe (mg/l)	<0.2
Alluvial plane Target place is X=758109, Y=2439343 0.47m : Clay sand 49-55m : Sticky clay (yellow) 55-61m : Clay sand 61-152m : Blue sand -Irawadi formation 67-69, 98-101 : Hard rock		F (mg/l)	1.5	
		NO3- (mg/l)	1.0	
		NO2- (mg/l)	0.02	
		Coliforms		
		Results of Simplified Water Quality Test		

Information of Existing Water Source - 2				
Type	Deep Well	Coordinate	X	757753
	○ Shallow Well		Y	2489582
	Storage reservoir			
	Others			
Hydrogeological Information	Drilled Depth (m)	7	Sample ID	SA2-19-2
	Diameter (in)		Temperature (°C)	29.7
	S.W.L (m)	3	pH	7.35
	D.W.L (m)		EC (µs/cm)	1,178
	Yield (m ³ /hour)		Smell	Non
	No.of users (person/day)		Color	Non
	Supply facilities	Handpump	Mn (mg/l)	<0.02
	Remarks (Lithology , etc.)		Fe (mg/l)	<0.2
		F (mg/l)	0.6	
		NO3- (mg/l)	20.0	
		NO2- (mg/l)	<0.02	
		Coliforms		
		Results of Simplified Water Quality Test		



Region	SAGAING 3		Date	2015/5/10
Township	Myinmu		Reported by	YORITATE Toru
Village / ID	Hlayookan	SA2-19	Coordinate (WGS84 UTM)	X Y

Information of Existing Water Source - 1					
Type	Deep Well	Coordinate	X	758776	
	Shallow Well		Y	2438782	
	Storage reservoir				
	Others				
Hydrogeological Information	Drilled Depth (m)	Results of Simplified Water Quality Test	Sample ID	SA2-19-3	
	Diameter (in)		Temperature (°C)	29.7	
	S.W.L (m)		pH	7.3	
	D.W.L (m)		EC (µs/cm)	1084	
	Yield (m ³ /hour)		Smell	Non	
	No.of users (person/day)		Color	Non	
	Supply facilities		Handpump	Mn (mg/l)	<0.02
	Remarks (Lithology , etc.)		Fe (mg/l)	<0.2	
	F (mg/l)	0.4			
	NO3- (mg/l)	5.0			
	NO2- (mg/l)	<0.02			
	Coliforms				

Information of Existing Water Source - 2				
Type	Deep Well	Coordinate	X	
	Shallow Well		Y	
	Storage reservoir			
	Others			
Hydrogeological Information	Drilled Depth (m)	Results of Simplified Water Quality Test	Sample ID	SA2-19
	Diameter (in)		Temperature (°C)	
	S.W.L (m)		pH	
	D.W.L (m)		EC (µs/cm)	
	Yield (m ³ /hour)		Smell	
	No.of users (person/day)		Color	
	Supply facilities		Mn (mg/l)	
	Remarks (Lithology , etc.)		Fe (mg/l)	
	F (mg/l)			
	NO3- (mg/l)			
	NO2- (mg/l)			
	Coliforms			



Region	SAGAIN		Date	2015/5/11
Township	Myinmu		Reported by	YORITATE Toru
Village / ID	Makyeekan	SA2-20	Coordinate (WGS84 UTM)	X Y

Information of Existing Water Source - 1				
Type	Deep Well	Coordinate	X	773591
	○ Shallow Well		Y	2437376
	Storage reservoir			
	Others (River)			
Hydrogeological Information	Drilled Depth (m)	24	Sample ID	SA2-20-1
	Diameter (in)		Temperature (°C)	31.6
	S.W.L (m)		pH	7.31
	D.W.L (m)		EC (µs/cm)	676
	Yield (m ³ /hour)	13.6	Smell	Non
	No.of users (person/day)		Color	Non
	Supply facilities		Mn (mg/l)	<0.02
	Remarks (Lithology , etc.)			Fe (mg/l)
Q2. 2 shallow wels combine with suction pump system. Water is sent to the over head tank and distributed to each house. This system constructed last year and water amount is enough. 105 houses are connect this system and pay 300 kyats/m3.		Results of Simplified Water Quality Test	F (mg/l)	0.0
			NO3- (mg/l)	<1
			NO2- (mg/l)	<0.02
			Coliforms	



Information of Existing Water Source - 2				
Type	Deep Well	Coordinate	X	773839
	○ Shallow Well		Y	2437211
	Storage reservoir			
	Others			
Hydrogeological Information	Drilled Depth (m)	24	Sample ID	SA2-20-2
	Diameter (in)		Temperature (°C)	30.4
	S.W.L (m)	10	pH	6.86
	D.W.L (m)		EC (µs/cm)	3,800
	Yield (m ³ /hour)		Smell	Non
	No.of users (person/day)		Color	Non
	Supply facilities	Hand Pump	Mn (mg/l)	<0.02
	Remarks (Lithology , etc.)			Fe (mg/l)
More than 100 household have like this shallow well. However every shallow well can not use for drinking cause of salty water.		Results of Simplified Water Quality Test	F (mg/l)	0.0
			NO3- (mg/l)	45<
			NO2- (mg/l)	0.1
			Coliforms	



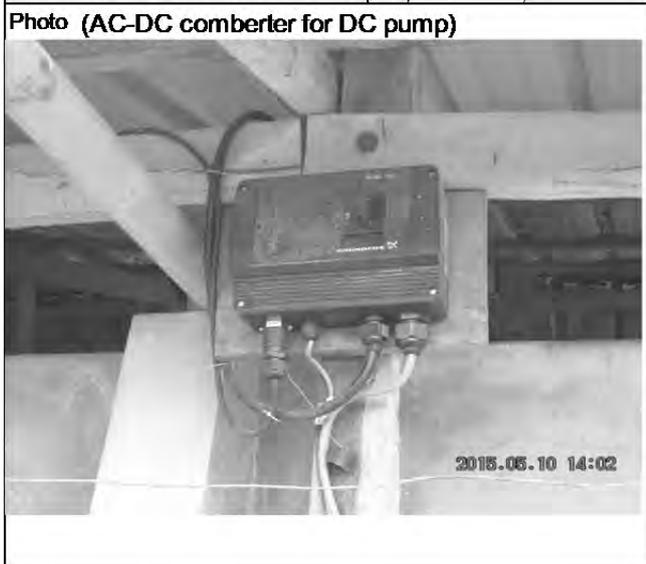
Region	SAGAIN		Date	2015/5/11
Township	Myinmu		Reported by	YORITATE Toru
Village / ID	Makyeekan	SA2-20	Coordinate (WGS84 UTM)	X
			Y	

Information of Existing Water Source - 1					Information of Existing Water Source - 2						
Type	Deep Well	Coordinate	X	773945	Type	Deep Well	Coordinate	X			
	○ Shallow Well		Y	2437327		Shallow Well		Y			
	Storage reservoir					Storage reservoir					
	Others (River)					Others					
Hydrogeological Information	Drilled Depth (m)	8	Results of Simplified Water Quality Test	Sample ID	SA2-20-3	Hydrogeological Information	Drilled Depth (m)		Results of Simplified Water Quality Test	Sample ID	SA2-20
	Diameter (in)	1.1 m		Temperature (°C)			Diameter (in)			Temperature (°C)	
	S.W.L (m)	7.3		pH			S.W.L (m)			pH	
	D.W.L (m)			EC (µs/cm)			D.W.L (m)			EC (µs/cm)	
	Yield (m ³ /hour)			Smell			Yield (m ³ /hour)			Smell	
	No.of users (person/day)			Color			No.of users (person/day)			Color	
	Supply facilities			Mn (mg/l)			Supply facilities	Hand Pump		Mn (mg/l)	
	Remarks (Lithology , etc.)			Fe (mg/l)			Remarks (Lithology , etc.)			Fe (mg/l)	
Dry season can not use. In the rainy season water comes up and they use it for other things (can not use for drinking)				F (mg/l)		Dry season can not use. In the rainy season water comes up and they use it for other things (can not use for drinking)				F (mg/l)	
				NO3- (mg/l)						NO3- (mg/l)	
				NO2- (mg/l)						NO2- (mg/l)	
				Coliforms						Coliforms	
Photo					Photo						

Region	SAGAING		Date	2015/5/10
Township	Myinmu		Reported by	YORITATE Toru
Village / ID	Watkya	SA2-21	Coordinate (WGS84 UTM)	X Y

Information of Existing Water Source - 1				
Type	o Deep Well	Coordinate	X	745604
	Shallow Well		Y	2447822
	Storage reservoir			
	Others			
Hydrogeological Information	Drilled Depth (m)	167	Sample ID	SA2-21-1
	Diameter (in)	4	Temperature (°C)	
	S.W.L (m)	36	pH	
	D.W.L (m)		EC (µs/cm)	
	Yield (m ³ /hour)		Smell	
	No.of users (person/day)		Color	
	Supply facilities	Submergible	Mn (mg/l)	
	Remarks (Lithology , etc.)	Results of Simplified Water Quality Test		
Water supply system 2 wells - SA2-21-1 and 2 used for the system. (Solar+Generator, Hiblid and Grundfos DC pump) 800m ³ / month suppling. 300 kyats/m ³ .				

Information of Existing Water Source - 2				
Type	o Deep Well	Coordinate	X	745617
	Shallow Well		Y	2447824
	Storage reservoir			
	Others			
Hydrogeological Information	Drilled Depth (m)	167	Sample ID	SA2-21-2
	Diameter (in)	4	Temperature (°C)	31.7
	S.W.L (m)	36	pH	7.39
	D.W.L (m)		EC (µs/cm)	2,310
	Yield (m ³ /hour)		Smell	Non
	No.of users (person/day)		Color	Non
	Supply facilities	Submergible pump	Mn (mg/l)	<0.02
	Remarks (Lithology , etc.)	Results of Simplified Water Quality Test		
AC pump Target : 745592/ 2447				



Region	SAGAING 3		Date	2015/5/10	
Township	Myinmu		Reported by	YORITATE Toru	
Village / ID	Thahtaykone	SA2-22	Coordinate (WGS84 UTM)	X	747889
				Y	2446223

Information of Existing Water Source - 1					
Type	○ Deep Well		Coordinate	X	747989
	Shallow Well			Y	2446283
	Storage reservoir				
	Others				
Hydrogeological Information	Drilled Depth (m)	161	Results of Simplified Water Quality Test	Sample ID	SA2-22-1
	Diameter (in)	2		Temperature (°C)	
	S.W.L (m)	55		pH	
	D.W.L (m)			EC (µs/cm)	
	Yield (m³/hour)	13.6		Smell	
	No.of users (person/day)			Color	
	Supply facilities	Mono		Mn (mg/l)	
	Remarks (Lithology , etc.)	Constructed in 1986. Pump trable. Can not operate.		Fe (mg/l)	
			F (mg/l)		
			NO3- (mg/l)		
			NO2- (mg/l)		
			Coliforms		

Information of Existing Water Source - 2					
Type	○ Deep Well		Coordinate	X	747929
	Shallow Well			Y	2446231
	Storage reservoir				
	Others				
Hydrogeological Information	Drilled Depth (m)	152	Results of Simplified Water Quality Test	Sample ID	SA2-22-2
	Diameter (in)	2		Temperature (°C)	32.6
	S.W.L (m)	55		pH	8.02
	D.W.L (m)			EC (µs/cm)	1,663
	Yield (m³/hour)	3.4		Smell	Non
	No.of users (person/day)			Color	Non
	Supply facilities	Handpump		Mn (mg/l)	<0.02
	Remarks (Lithology , etc.)	0-30 sand and clay 30-90 mad 90 ~ Hard stone		Fe (mg/l)	<0.2
			F (mg/l)	0.2	
			NO3- (mg/l)	5.0	
			NO2- (mg/l)	<0.02	
			Coliforms		

Photo



Photo



Region	SAGAING 3		Date	2015/5/10	
Township	Myinmu		Reported by	YORITATE Toru	
Village / ID	Thahtaykone	SA2-22	Coordinate (WGS84 UTM)	X	747889
			Y	2446223	

Information of Existing Water Source - 1						
Type	○ Deep Well		Coordinate	X	747853	
	Shallow Well			Y	2446360	
	Storage reservoir					
	Others					
Hydrogeological Information	Drilled Depth (m)	113	Results of Simplified Water Quality Test	Sample ID	SA2-22-3	
	Diameter (in)	4		Temperature (°C)	32.1	
	S.W.L (m)			pH	7.26	
	D.W.L (m)			EC (µs/cm)	1,582	
	Yield (m³/hour)	9.1		Smell	Non	
	No.of users (person/day)			Color	Non	
	Supply facilities	Submergible		Mn (mg/l)	<0.02	
	Remarks (Lithology , etc.)	Pump installed in 48m. Static Water Level is estimated around 30m.		Fe (mg/l)	<0.2	
			F (mg/l)	0.2		
			NO3- (mg/l)	10.0		
			NO2- (mg/l)	<0.02		
			Coliforms			

Information of Existing Water Source - 2						
Type	Deep Well		Coordinate	X	747673	
	Shallow Well			Y	2446221	
	Storage reservoir					
	Others					
Hydrogeological Information	Drilled Depth (m)		Results of Simplified Water Quality Test	Sample ID		
	Diameter (in)			Temperature (°C)		
	S.W.L (m)			pH		
	D.W.L (m)			EC (µs/cm)		
	Yield (m³/hour)			Smell		
	No.of users (person/day)			Color		
	Supply facilities			Mn (mg/l)		
	Remarks (Lithology , etc.)	Target X=747673, Y=2446441		Fe (mg/l)		
			F (mg/l)			
			NO3- (mg/l)			
			NO2- (mg/l)			
			Coliforms			



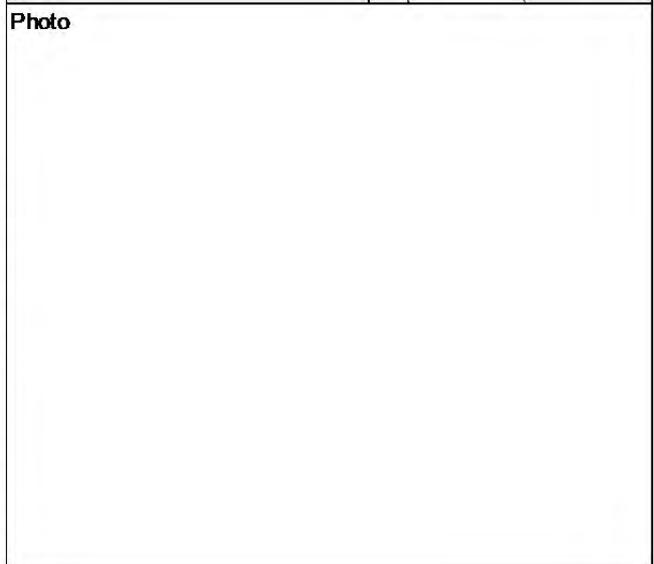
Region	SAGAING		Date	2015/5/11	
Township	Myinmu		Reported by	YORITATE Toru	
Village / ID	Magyidaw	SA2-23	Coordinate (WGS84 UTM)	X	774428
				Y	2444493

Information of Existing Water Source - 1						Information of Existing Water Source - 2					
Type	Deep Well		Coordinate	X	774423	Type	Deep Well		Coordinate	X	774560
	○ Shallow Well			Y	2444502		○ Shallow Well			Y	2444437
	Storage reservoir						Storage reservoir				
	Others						Others				
Hydrogeological Information	Drilled Depth (m)	15	Results of Simplified Water Quality Test	Sample ID	SA2-23-1	Hydrogeological Information	Drilled Depth (m)	24	Results of Simplified Water Quality Test	Sample ID	SA2-23-2
	Diameter (in)			Temperature (°C)	29.8		Diameter (in)	4		Temperature (°C)	31.9
	S.W.L (m)			pH	7.60		S.W.L (m)	3		pH	7.58
	D.W.L (m)			EC (µs/cm)	1,601		D.W.L (m)			EC (µs/cm)	1,838
	Yield (m³/hour)			Smell	Non		Yield (m³/hour)			Smell	Muddy smell
	No.of users (person/day)			Color	Non		No.of users (person/day)			Color	Shallow Yellow
	Supply facilities	Hand Pump		Mn (mg/l)	<0.02		Supply facilities	Suction		Mn (mg/l)	<0.02
				Fe (mg/l)	<0.2					Fe (mg/l)	<0.2
Remarks (Lithology , etc.)			F (mg/l)	0.8	Remarks (Lithology , etc.)			F (mg/l)	0.4	NO3- (mg/l)	1.5
Q2 area. Many house have such as shallow well. However they can not use for drinking cause of high salinity.			NO3- (mg/l)	20.0	5 well convine system. 10 system are operating in this area. It is mainly use for agriculture. 0-6m : silty clay 6m : Sand private well for agriculture			NO3- (mg/l)	1.5	NO2- (mg/l)	0.1
			NO2- (mg/l)	0.2				NO2- (mg/l)	0.1	Coliforms	
			Coliforms					Coliforms			
Photo											

Region	SAGAING		Date	2015/5/11	
Township	Myinmu		Reported by	YORITATE Toru	
Village / ID	Magyidaw	SA2-23	Coordinate (WGS84 UTM)	X	774428
			Y	2444493	

Information of Existing Water Source - 1						
Type	Deep Well	Coordinate	X	774727		
	Shallow Well		Y	2444435		
	Storage reservoir					
	○ Others (River)					
Hydrogeological Information	Drilled Depth (m)	Results of Simplified Water Quality Test	Sample ID	SA2-23-3		
	Diameter (in)		Temperature (°C)	32.1		
	S.W.L (m)		pH	8.66		
	D.W.L (m)		EC (µs/cm)	474		
	Yield (m ³ /hour)		Smell	Non		
	No.of users (person/day)		Color	Non		
	Supply facilities		Mn (mg/l)			
	Remarks (Lithology , etc.)		Fe (mg/l)	< 0.2		
Muu River water. Use it for drinking.	F (mg/l)	0.2				
	NO3- (mg/l)	<1				
	NO2- (mg/l)	<0.02				
	Coliforms					

Information of Existing Water Source - 2						
Type	Deep Well	Coordinate	X	750132		
	Shallow Well		Y	2421633		
	Storage reservoir					
	Others					
Hydrogeological Information	Drilled Depth (m)	Results of Simplified Water Quality Test	Sample ID			
	Diameter (in)		Temperature (°C)			
	S.W.L (m)		pH			
	D.W.L (m)		EC (µs/cm)			
	Yield (m ³ /hour)		Smell			
	No.of users (person/day)		Color			
	Supply facilities		Mn (mg/l)			
	Remarks (Lithology , etc.)		Fe (mg/l)			
	F (mg/l)					
	NO3- (mg/l)					
	NO2- (mg/l)					
	Coliforms					



Region	SAGAING		Date	2015/5/16
Township	Kanbalu		Reported by	YORITATE Toru
Village / ID	Thindaw	SA2-24	Coordinate (WGS84 UTM)	X Y

Information of Existing Water Source - 1					Information of Existing Water Source - 2						
Type	○ Deep Well		Coordinate	X	773446	Type	○ Deep Well		Coordinate	X	773526
	Shallow Well			Y	2612929		Shallow Well			Y	2612915
	Storage reservoir						Storage reservoir				
	Others						Others				
Hydrogeological Information	Drilled Depth (m)	82	Results of Simplified Water Quality Test	Sample ID	SA2-24-1	Hydrogeological Information	Drilled Depth (m)	116	Results of Simplified Water Quality Test	Sample ID	SA2-24-2
	Diameter (in)	2		Temperature (°C)	27.3		Diameter (in)	2		Temperature (°C)	27.1
	S.W.L (m)			pH	7.84		S.W.L (m)			pH	6.77
	D.W.L (m)			EC (µs/cm)	1,053		D.W.L (m)			EC (µs/cm)	34,800
	Yield (m ³ /hour)	3.2		Smell	Non		Yield (m ³ /hour)			Smell	Salty smell
	No.of users (person/day)			Color	Non		No.of users (person/day)			Color	Non
	Supply facilities			Mn (mg/l)	<0.02		Supply facilities			Mn (mg/l)	0.02
	Remarks (Lithology , etc.)			Fe (mg/l)	<0.2		Remarks (Lithology , etc.)			Fe (mg/l)	<0.2
Constructed in 2005.		F (mg/l)	0.2			F (mg/l)	0.2				
		NO3- (mg/l)	<1			NO3- (mg/l)	<1				
		NO2- (mg/l)	<0.02			NO2- (mg/l)	<0.02				
		Coliforms				Coliforms					

Photo



Photo



Region	SAGAING		Date	2015/5/16
Township	Kanbalu		Reported by	YORITATE Toru
Village / ID	Lwingyi	SA2-25	Coordinate (WGS84 UTM)	X
				Y

Information of Existing Water Source - 1					
Type	○ Deep Well	Coordinate	X	772025	
	Shallow Well		Y	2612947	
	Storage reservoir				
	Others				
Hydrogeological Information	Drilled Depth (m)	152	Results of Simplified Water Quality Test	Sample ID	SA2-25-1
	Diameter (in)	2		Temperature (°C)	28.1
	S.W.L (m)	30		pH	8.08
	D.W.L (m)			EC (µs/cm)	665
	Yield (m³/hour)	2.3		Smell	Non
	No.of users (person/day)			Color	Non
	Supply facilities			Mn (mg/l)	<0.02
	Remarks (Lithology , etc.)	Botton of 12m in Screen. 7 Dug wells and 7 Shallow wells 6 Tube Wells(3 public and 3 privatel)		Fe (mg/l)	<0.2
			F (mg/l)	0.2	
			NO3-(mg/l)	<1	
			NO2-(mg/l)	<0.02	
			Coliforms	0	

Information of Existing Water Source - 2					
Type	Deep Well	Coordinate	X	772013	
	Shallow Well		Y	2612839	
	Storage reservoir				
	Others				
Hydrogeological Information	Drilled Depth (m)		Results of Simplified Water Quality Test	Sample ID	SA2-25
	Diameter (in)			Temperature (°C)	
	S.W.L (m)			pH	
	D.W.L (m)			EC (µs/cm)	
	Yield (m³/hour)			Smell	
	No.of users (person/day)			Color	
	Supply facilities			Mn (mg/l)	
	Remarks (Lithology , etc.)	Target : 772013 / 2612839		Fe (mg/l)	
			F (mg/l)		
			NO3-(mg/l)		
			NO2-(mg/l)		
			Coliforms		



Region	SAGAING		Date	2015/5/16
Township	Kanbalu		Reported by	YORITATE Toru
Village / ID	Koetaungboh(Kyunkone)	SA2-26	Coordinate (WGS84 UTM)	X Y

Information of Existing Water Source - 1					Information of Existing Water Source - 2						
Type	○ Deep Well		Coordinate	X	773469	Type	○ Deep Well		Coordinate	X	773675
	Shallow Well			Y	2620861		Shallow Well			Y	2620875
	Storage reservoir						Storage reservoir				
	Others						Others				
Hydrogeological Information	Drilled Depth (m)	152	Results of Simplified Water Quality Test	Sample ID	SA2-26-1	Hydrogeological Information	Drilled Depth (m)	85	Results of Simplified Water Quality Test	Sample ID	SA2-26-2
	Diameter (in)	2		Temperature (°C)	27.0		Diameter (in)	2		Temperature (°C)	27.1
	S.W.L (m)			pH	7.60		S.W.L (m)			pH	7.27
	D.W.L (m)			EC (µs/cm)	1,113		D.W.L (m)			EC (µs/cm)	1,450
	Yield (m ³ /hour)	1.8		Smell	Sulfer smell		Yield (m ³ /hour)	3.0		Smell	Non
	No.of users (person/day)			Color	Shallow yellow		No.of users (person/day)			Color	Non
	Supply facilities	Air lift		Mn (mg/l)	0.01		Supply facilities	Air lift		Mn (mg/l)	<0.02
	Remarks (Lithology , etc.)			Fe (mg/l)	<0.2		Remarks (Lithology , etc.)			Fe (mg/l)	<0.2
73 Shallow wells with rope 20 Tubewells(1 public, 19 private) They don't like tube well water. They use pond water for drinking. Bottom of 18m in screen.			F (mg/l)	0.2	Target 2 : 773590 / 2620729 Target 1 is low priority. Bottom of 10m in screen.			F (mg/l)	0.0		
			NO3- (mg/l)	<1				NO3- (mg/l)	45.0		
			NO2- (mg/l)	<0.02				NO2- (mg/l)	<0.02		
			Coliforms					Coliforms			

Photo



Photo Target place



Region	SAGAING		Date	2015/5/16
Township	Kanbalu		Reported by	YORITATE Toru
Village / ID	Inngoteto	SA2-27	Coordinate (WGS84 UTM)	X Y

Information of Existing Water Source - 1				
Type	○ Deep Well	Coordinate	X	768435
	Shallow Well		Y	2598073
	Storage reservoir			
	Others			
Hydrogeological Information	Drilled Depth (m)	61	Sample ID	SA2-27-1
	Diameter (in)	2	Temperature (°C)	27.7
	S.W.L (m)		pH	7.31
	D.W.L (m)		EC (µs/cm)	796
	Yield (m ³ /hour)	1.1	Smell	Non
	No.of users (person/day)		Color	Non
	Supply facilities	Air lift	Mn (mg/l)	<0.02
	Remarks (Lithology , etc.)	Results of Simplified Water Quality Test		
Very low yield in Monastery 2 Tube wells (1 damaged, 1 monastery) 16 Shallow wells	Fe (mg/l) 0.2			
	F (mg/l) 0.2			
	NO3- (mg/l) 45<			
	NO2- (mg/l) <0.02			
	Coliforms			

Information of Existing Water Source - 2				
Type	Deep Well	Coordinate	X	768370
	○ Shallow Well		Y	2598171
	Storage reservoir			
	Others			
Hydrogeological Information	Drilled Depth (m)	21	Sample ID	SA2-27-2
	Diameter (in)	3	Temperature (°C)	28.6
	S.W.L (m)	17.8	pH	7.37
	D.W.L (m)		EC (µs/cm)	1,487
	Yield (m ³ /hour)		Smell	Non
	No.of users (person/day)		Color	Shallow white
	Supply facilities		Mn (mg/l)	<0.02
	Remarks (Lithology , etc.)	Results of Simplified Water Quality Test		
Private well Target : 768388 / 2598038 (Monastery)	Fe (mg/l) <0.2			
	F (mg/l) 3.0			
	NO3- (mg/l) <1			
	NO2- (mg/l) <0.02			
	Coliforms			



Region	SAGAING		Date	2015/5/15
Township	Kanbalu		Reported by	YORITATE Toru
Village / ID	Myayhtoo	SA2-28	Coordinate (WGS84 UTM)	X
			Y	

Information of Existing Water Source - 1					Information of Existing Water Source - 2						
Type	○ Deep Well		Coordinate	X	745074	Type	○ Deep Well		Coordinate	X	745102
	Shallow Well			Y	2565109		Shallow Well			Y	2565190
	Storage reservoir						Storage reservoir				
	Others						Others				
Hydrogeological Information	Drilled Depth (m)	82	Results of Simplified Water Quality Test	Sample ID	SA2-28-1	Hydrogeological Information	Drilled Depth (m)	76	Results of Simplified Water Quality Test	Sample ID	SA2-28-2
	Diameter (in)	2		Temperature (°C)	29.0		Diameter (in)	2		Temperature (°C)	28.8
	S.W.L (m)	67		pH	7.05		S.W.L (m)	61		pH	7.19
	D.W.L (m)			EC (µs/cm)	681		D.W.L (m)			EC (µs/cm)	858
	Yield (m³/hour)			Smell	Slightly certain smell		Yield (m³/hour)			Smell	Non
	No. of users (person/day)			Color	Shallow yellow		No. of users (person/day)			Color	Shallow white
	Supply facilities	Air lift		Mn (mg/l)	<0.02		Supply facilities	Air lift		Mn (mg/l)	<0.02
	Remarks (Lithology , etc.)	Operating by power, however target area does not have water. 17 Air lift TW (70m) Below 91 m can get good water.		Fe (mg/l)	0.2		Remarks (Lithology , etc.)	Sands came up with water.		Fe (mg/l)	<0.2
			F (mg/l)	0.0				F (mg/l)	0.0		
			NO3- (mg/l)	<1				NO3- (mg/l)	<1		
			NO2- (mg/l)	<0.02				NO2- (mg/l)	<0.02		
			Coliforms					Coliforms			

Photo



Photo



Region	SAGAING		Date	2015/5/15
Township	Kanbalu		Reported by	YORITATE Toru
Village / ID	Myayhtoo	SA2-28	Coordinate (WGS84 UTM)	X
			Y	

Information of Existing Water Source - 1				
Type	○ Deep Well	Coordinate	X	744822
	Shallow Well		Y	2565124
	Storage reservoir			
	Others			
Hydrogeological Information	Drilled Depth (m)	171	Sample ID	SA2-28-3
	Diameter (in)	2	Temperature (°C)	28.9
	S.W.L (m)	146.3	pH	7.24
	D.W.L (m)		EC (µs/cm)	981
	Yield (m ³ /hour)		Smell	Non
	No.of users (person/day)		Color	Shallow yellow
	Supply facilities	Air lift	Mn (mg/l)	<0.02
	Remarks (Lithology , etc.)		Results of Simplified Water Quality Test	
		Fe (mg/l)	<0.2	
		F (mg/l)	0.0	
		NO3- (mg/l)	1.0	
		NO2- (mg/l)	<0.02	
		Coliforms		

Information of Existing Water Source - 2				
Type	Deep Well	Coordinate	X	748784
	○ Shallow Well		Y	2565102
	Storage reservoir			
	Others			
Hydrogeological Information	Drilled Depth (m)	16	Sample ID	SA2-28-4
	Diameter (in)	3	Temperature (°C)	
	S.W.L (m)	8	pH	
	D.W.L (m)		EC (µs/cm)	
	Yield (m ³ /hour)		Smell	
	No.of users (person/day)		Color	
	Supply facilities		Mn (mg/l)	
	Remarks (Lithology , etc.)		Results of Simplified Water Quality Test	
		Fe (mg/l)		
		F (mg/l)		
		NO3- (mg/l)		
		NO2- (mg/l)		
		Coliforms		



Region	SAGAING		Date	2015/5/17
Township	Kanbalu		Reported by	YORITATE Toru
Village / ID	Khaowntar	SA2-29	Coordinate (WGS84 UTM)	X Y

Information of Existing Water Source - 1				
Type	<input type="radio"/> Deep Well	Coordinate	X	776703
	<input type="radio"/> Shallow Well		Y	2551428
	<input type="radio"/> Storage reservoir			
	<input type="radio"/> Others			
Hydrogeological Information	Drilled Depth (m)	116	Sample ID	SA2-29-1
	Diameter (in)	2	Temperature (°C)	28.7
	S.W.L (m)	30	pH	7.26
	D.W.L (m)		EC (µs/cm)	947
	Yield (m ³ /hour)		Smell	Non
	No.of users (person/day)		Color	Non
	Supply facilities		Mn (mg/l)	<0.02
	Remarks (Lithology , etc.)		Fe (mg/l)	<0.2
Private tubewell 30 Tube wells(29 privates) Half of them can drink.		Results of Simplified Water Quality Test	F (mg/l)	0.8
			NO3-(mg/l)	<1
			NO2-(mg/l)	<0.02
			Coliforms	



Information of Existing Water Source - 2				
Type	<input type="radio"/> Deep Well	Coordinate	X	776612
	<input type="radio"/> Shallow Well		Y	2551398
	<input type="radio"/> Storage reservoir			
	<input type="radio"/> Others			
Hydrogeological Information	Drilled Depth (m)	110	Sample ID	SA2-29-2
	Diameter (in)	2	Temperature (°C)	29.1
	S.W.L (m)		pH	7.74
	D.W.L (m)		EC (µs/cm)	1,423
	Yield (m ³ /hour)	4.5	Smell	Non
	No.of users (person/day)		Color	Non
	Supply facilities		Mn (mg/l)	<0.02
	Remarks (Lithology , etc.)		Fe (mg/l)	<0.2
Target : 776585 / 2551429 (In the monastery). Corner of the monastery.		Results of Simplified Water Quality Test	F (mg/l)	0.0
			NO3-(mg/l)	<1
			NO2-(mg/l)	<0.02
			Coliforms	



Region	SAGAING		Date	2015/5/18
Township	Kanbalu		Reported by	YORITATE Toru
Village / ID	Nyaungkanthar	SA2-30	Coordinate (WGS84 UTM)	X
			Y	

Information of Existing Water Source - 1				
Type	○ Deep Well	Coordinate	X	770617
	Shallow Well		Y	2587691
	Storage reservoir			
	Others			
Hydrogeological Information	Drilled Depth (m)	122	Sample ID	SA2-30-1
	Diameter (in)	2	Temperature (°C)	27.6
	S.W.L (m)		pH	7.53
	D.W.L (m)		EC (µs/cm)	1,905
	Yield (m ³ /hour)	75g/day	Smell	Non
	No.of users (person/day)		Color	Non
	Supply facilities	Air lift	Mn (mg/l)	<0.02
	Remarks (Lithology , etc.)		Results of Simplified Water Quality Test	
Public tube well. 3 tube well - can use for drinking. 2 public : 122m 1 private : 45m Very small yield , almost unsuccessful well		Fe (mg/l)	<0.2	
		F (mg/l)	0.0	
		NO3- (mg/l)	45.0	
		NO2- (mg/l)	<0.02	
		Coliforms		

Information of Existing Water Source - 2				
Type	Deep Well	Coordinate	X	770701
	○ Shallow Well		Y	2597767
	Storage reservoir			
	Others			
Hydrogeological Information	Drilled Depth (m)	45	Sample ID	SA2-30-2
	Diameter (in)	2	Temperature (°C)	28.1
	S.W.L (m)		pH	8.19
	D.W.L (m)		EC (µs/cm)	691
	Yield (m ³ /hour)	28g/day	Smell	Non
	No.of users (person/day)		Color	Non
	Supply facilities	Air lift	Mn (mg/l)	<0.02
	Remarks (Lithology , etc.)		Results of Simplified Water Quality Test	
Private Well. Target : 779771 / 2597741		Fe (mg/l)	<0.2	
		F (mg/l)	0.0	
		NO3- (mg/l)	<1	
		NO2- (mg/l)	<0.02	
		Coliforms	0	



Region	SAGAING		Date	2015/5/17
Township	Kanbalu		Reported by	YORITATE Toru
Village / ID	Myaymon	SA2-31	Coordinate (WGS84 UTM)	X Y

Information of Existing Water Source - 1					Information of Existing Water Source - 2						
Type	○ Deep Well		Coordinate	X	785078	Type	○ Deep Well		Coordinate	X	784990
	Shallow Well			Y	2543981		Shallow Well			Y	2544342
	Storage reservoir						Storage reservoir				
	Others						Others				
Hydrogeological Information	Drilled Depth (m)	98	Results of Simplified Water Quality Test	Sample ID	SA2-31-1	Hydrogeological Information	Drilled Depth (m)	73	Results of Simplified Water Quality Test	Sample ID	SA2-31-2
	Diameter (in)	2		Temperature (°C)	29.3		Diameter (in)	2		Temperature (°C)	29.1
	S.W.L (m)			pH	8.16		S.W.L (m)			pH	8.14
	D.W.L (m)			EC (µs/cm)	1,210		D.W.L (m)			EC (µs/cm)	3,210
	Yield (m³/hour)	4.5		Smell	Non		Yield (m³/hour)	1.4		Smell	Non
	No.of users (person/day)			Color	Non		No.of users (person/day)			Color	Non
	Supply facilities			Mn (mg/l)	<0.02		Supply facilities			Mn (mg/l)	<0.02
	Remarks (Lithology , etc.) South part of village. Overhead is already too old , cannot use. 44 Tube well - 1 is public in school.			Fe (mg/l)	<0.2		Remarks (Lithology , etc.) North part of village. Target 2 785110 / 2544263 Water quality is south part is better than north part. North wells are salt.			Fe (mg/l)	<0.2
F (mg/l)			0.2	F (mg/l)	1.5						
NO3- (mg/l)			1.0	NO3- (mg/l)	45<						
NO2- (mg/l)			<0.02	NO2- (mg/l)	<0.02						
Coliforms				Coliforms							

Photo



Region	SAGAING		Date	2015/5/17
Township	kanbalu		Reported by	YORITATE Toru
Village / ID	Layytwinzin	SA2-32	Coordinate (WGS84 UTM)	X
				Y

Information of Existing Water Source - 1				
Type	Deep Well	Coordinate	X	800278
	Shallow Well		Y	2549565
	Storage reservoir			
	○ Others <i>Dug Well</i>			
Hydrogeological Information	Drilled Depth (m)	2.4	Sample ID	SA2-32-1
	Diameter (in)	1.5m	Temperature (°C)	28.5
	S.W.L (m)	1.5	pH	7.40
	D.W.L (m)		EC (µs/cm)	880
	Yield (m ³ /hour)		Smell	Non
	No.of users (person/day)		Color	Shallow yellow
	Supply facilities		Mn (mg/l)	<0.02
	Remarks (Lithology , etc.)	Results of Simplified Water Quality Test		
Dug well constructed low area. This area will be below flow water in the rainy season. Therefore every year after rainy season they have to clean up the well to remove sand.	Fe (mg/l) <0.2			
	F (mg/l) 0.0			
	NO3- (mg/l) 1.0			
	NO2- (mg/l) <0.08			
	Coliforms Too much			

Information of Existing Water Source - 2				
Type	Deep Well	Coordinate	X	
	Shallow Well		Y	
	Storage reservoir			
	○ Others			
Hydrogeological Information	Drilled Depth (m)		Sample ID	
	Diameter (in)		Temperature (°C)	
	S.W.L (m)		pH	
	D.W.L (m)		EC (µs/cm)	
	Yield (m ³ /hour)		Smell	
	No.of users (person/day)		Color	
	Supply facilities		Mn (mg/l)	
	Remarks (Lithology , etc.)	Results of Simplified Water Quality Test		
Target : 800148 / 2549708	Fe (mg/l)			
They have two test experience.	F (mg/l)			
1. 116m (Dry well) (Target point)	NO3- (mg/l)			
2. 146m (small water 50g/h)	NO2- (mg/l)			
	Coliforms			



Region	SAGAING		Date	2015/5/16
Township	Kanbalu		Reported by	YORITATE Toru
Village / ID	Chaungchar	SA2-33	Coordinate (WGS84 UTM)	X
			Y	

Information of Existing Water Source - 1				
Type	Deep Well	Coordinate	X	762364
	○ Shallow Well		Y	2587378
	Storage reservoir			
	Others			
Hydrogeological Information	Drilled Depth (m)	38	Sample ID	SA2-33-1
	Diameter (in)	2	Temperature (°C)	29.4
	S.W.L (m)		pH	7.87
	D.W.L (m)		EC (µs/cm)	657
	Yield (m ³ /hour)	1.6	Smell	Non
	No.of users (person/day)		Color	Non
	Supply facilities	Air lift	Mn (mg/l)	<0.02
	Remarks (Lithology , etc.)		Results of Simplified Water Quality Test	
2 Tube wells -1 public, 1 monastery 27 Shallow wells with hand pump.		Fe (mg/l)	<0.2	
		F (mg/l)	0.0	
		NO3- (mg/l)	<1	
		NO2- (mg/l)	<0.02	
		Coliforms	0	

Information of Existing Water Source - 2				
Type	Deep Well	Coordinate	X	762527
	○ Shallow Well		Y	2587375
	Storage reservoir			
	Others			
Hydrogeological Information	Drilled Depth (m)	49	Sample ID	SA2-33-2
	Diameter (in)	2	Temperature (°C)	27.4
	S.W.L (m)	9	pH	8.03
	D.W.L (m)		EC (µs/cm)	621
	Yield (m ³ /hour)	2.5	Smell	Non
	No.of users (person/day)		Color	Non
	Supply facilities		Mn (mg/l)	<0.02
	Remarks (Lithology , etc.)		Results of Simplified Water Quality Test	
Monastery Operation cost : 1000 kyats -fuel/hour		Fe (mg/l)	<0.2	
		F (mg/l)	0.2	
		NO3- (mg/l)	<1	
		NO2- (mg/l)	<0.02	
		Coliforms	0	



Region	SAGAING		Date	2015/5/9
Township	Dabayin		Reported by	YORITATE Toru
Village / ID	Minyogone	SA2-34	Coordinate (WGS84 UTM)	X
			Y	

Information of Existing Water Source - 1					
Type	Deep Well	Coordinate	X	732024	
	Shallow Well		Y	2513022	
	Storage reservoir				
	○ Others <i>Dug Well</i>				
Hydrogeological Information	Drilled Depth (m)	8.9	Results of Simplified Water Quality Test	Sample ID	SA2-34-1
	Diameter (in)	1.6 m		Temperature (°C)	29.7
	S.W.L (m)	4.3		pH	6.95
	D.W.L (m)			EC (µs/cm)	477
	Yield (m³/hour)			Smell	Non
	No.of users (person/day)			Color	Non
	Supply facilities			Mn (mg/l)	<0.02
	Remarks (Lithology , etc.)	Only one dug well is water source in this village. Target : 731866/ 2513234 (Next to the abandoned dug well)		Fe (mg/l)	<0.2
			F (mg/l)	0.2	
			NO3- (mg/l)	<1	
			NO2- (mg/l)	<0.02	
			Coliforms	Too much	

Information of Existing Water Source - 2					
Type	○ Deep Well	Coordinate	X	732713	
	Shallow Well		Y	2512110	
	Storage reservoir				
	Others				
Hydrogeological Information	Drilled Depth (m)	103	Results of Simplified Water Quality Test	Sample ID	SA2-34-2
	Diameter (in)	4		Temperature (°C)	30.1
	S.W.L (m)	3.2		pH	7.9
	D.W.L (m)			EC (µs/cm)	1,224
	Yield (m³/hour)	6.8		Smell	Non
	No.of users (person/day)			Color	Non
	Supply facilities			Mn (mg/l)	<0.02
	Remarks (Lithology , etc.)	Next village 1 km from Minyogone village constructed in 1982.		Fe (mg/l)	0.3
			F (mg/l)	0.2	
			NO3- (mg/l)	<1	
			NO2- (mg/l)	<0.02	
			Coliforms		



Region	SAGAING		Date	2015/5/9
Township	Dabayin		Reported by	YORITATE Toru
Village / ID	Shandaw	SA2-35	Coordinate (WGS84 UTM)	X
			Y	

Information of Existing Water Source - 1				
Type	Deep Well	Coordinate	X	725732
	Shallow Well		Y	2501505
	Storage reservoir			
	Others (dug in canal)			
Hydrogeological Information	Drilled Depth (m)	Results of Simplified Water Quality Test	Sample ID	SA2-35-1
	Diameter (in)		Temperature (°C)	23.8
	S.W.L (m)		pH	7.09
	D.W.L (m)		EC (µs/cm)	438
	Yield (m ³ /hour)		Smell	muddy smell
	No.of users (person/day)		Color	Shallow milk yellow
	Supply facilities		Mn (mg/l)	<0.02
	Remarks (Lithology , etc.)		Fe (mg/l)	<0.2
People digging bottom of the canal and get the water for all useage. 2 tube wells 1.Constructed in 2005, 82m .Water amount reduced and stopped using in 2009. 2.Constructed in 1975 already useless. In the next village 247m artesian well exit.	F (mg/l)	0.2		
	NO3- (mg/l)	1.0		
	NO2- (mg/l)	<0.02		
	Coliforms	Too much		
	Photo			

Information of Existing Water Source - 2				
Type	Deep Well	Coordinate	X	725913
	Shallow Well		Y	2500405
	Storage reservoir			
	Others			
Hydrogeological Information	Drilled Depth (m)	Results of Simplified Water Quality Test	Sample ID	SA2-35-2
	Diameter (in)		Temperature (°C)	28.4
	S.W.L (m)		pH	7.55
	D.W.L (m)		EC (µs/cm)	748
	Yield (m ³ /hour)		Smell	Non
	No.of users (person/day)		Color	Non
	Supply facilities		Mn (mg/l)	<0.02
	Remarks (Lithology , etc.)		Fe (mg/l)	<0.2
Dug well with foot pump. Monestry between neighbor village.	F (mg/l)	0.8		
	NO3- (mg/l)	<1		
	NO2- (mg/l)	<0.02		
	Coliforms	Too much		
	Photo			



Region	SAGAING		Date	2015/5/9
Township	Dabayin		Reported by	YORITATE Toru
Village / ID	Shandaw	SA2-35	Coordinate (WGS84 UTM)	X Y

Information of Existing Water Source - 1				
Type	<input type="radio"/> Deep Well	Coordinate	X	728341
	<input type="radio"/> Shallow Well		Y	2501689
	<input type="radio"/> Storage reservoir			
	<input type="radio"/> Others			
Hydrogeological Information	Drilled Depth (m)	247	Sample ID	SA2-35-3
	Diameter (in)	2	Temperature (°C)	30.4
	S.W.L (m)		pH	7.87
	D.W.L (m)		EC (µs/cm)	1,564
	Yield (m ³ /hour)	9.1	Smell	Non
	No.of users (person/day)		Color	Non
	Supply facilities	Artesian	Mn (mg/l)	<0.02
	Remarks (Lithology , etc.)	Results of Simplified Water Quality Test		
Artesian well.		Fe (mg/l)	<0.2	
		F (mg/l)	0.2	
		NO3- (mg/l)	<1	
		NO2- (mg/l)	<0.02	
		Coliforms		

Information of Existing Water Source - 2				
Type	<input type="radio"/> Deep Well	Coordinate	X	725889
	<input type="radio"/> Shallow Well		Y	2500389
	<input type="radio"/> Storage reservoir			
	<input type="radio"/> Others			
Hydrogeological Information	Drilled Depth (m)		Sample ID	SA2-35-4
	Diameter (in)	2	Temperature (°C)	27.7
	S.W.L (m)		pH	8.38
	D.W.L (m)		EC (µs/cm)	1,004
	Yield (m ³ /hour)	5.5	Smell	Non
	No.of users (person/day)		Color	Non
	Supply facilities	Airlift	Mn (mg/l)	<0.02
	Remarks (Lithology , etc.)	Results of Simplified Water Quality Test		
Same monetry with SA2-35-2. Donated in 2013.		Fe (mg/l)	<0.2	
		F (mg/l)	0.2	
		NO3- (mg/l)	<1	
		NO2- (mg/l)	<0.02	
		Coliforms		



Region	SAGAING		Date	2015/5/9
Township	Dabayin		Reported by	YORITATE Toru
Village / ID	Kyuntaw (S)	SA2-36	Coordinate (WGS84 UTM)	X
				Y

Information of Existing Water Source - 1				
Type	Deep Well	Coordinate	X	728635
	Shallow Well		Y	2505308
	Storage reservoir			
	○ Others <i>Dug Well</i>			
Hydrogeological Information	Drilled Depth (m)	4.8	Sample ID	SA2-36-1
	Diameter (in)	1.1m	Temperature (°C)	27.6
	S.W.L (m)	3.6	pH	6.94
	D.W.L (m)		EC (µs/cm)	896
	Yield (m ³ /hour)		Smell	Non
	No.of users (person/day)		Color	Non
	Supply facilities		Mn (mg/l)	0.02
	Remarks (Lithology , etc.)	Results of Simplified Water Quality Test		
MONO pump tube well -100m damaged in 1995 (728646/2505196) Test well -61m does not have water.	Fe (mg/l) <0.2			
	F (mg/l) 0.2			
	NO3- (mg/l) <1			
	NO2- (mg/l) <0.02			
	Coliforms			

Information of Existing Water Source - 2				
Type	Deep Well	Coordinate	X	728715
	Shallow Well		Y	2505233
	Storage reservoir			
	○ Others <i>Dug Well</i>			
Hydrogeological Information	Drilled Depth (m)	4.3	Sample ID	SA2-36-2
	Diameter (in)	1.0m	Temperature (°C)	27.9
	S.W.L (m)	2.3	pH	7.30
	D.W.L (m)		EC (µs/cm)	2,230
	Yield (m ³ /hour)		Smell	Non
	No.of users (person/day)		Color	Non
	Supply facilities		Mn (mg/l)	<0.02
	Remarks (Lithology , etc.)	Results of Simplified Water Quality Test		
Targey: 728632 / 2505189	Fe (mg/l) <0.02			
	F (mg/l) 0.1			
	NO3- (mg/l) 10.0			
	NO2- (mg/l) 0.7			
	Coliforms			



Region	SAGAING		Date	2015/5/19
Township	Wetlet		Reported by	YORITATE Toru
Village / ID	Palae Thwe(Ywarhit)	SA2-37	Coordinate (WGS84 UTM)	X
				Y

Information of Existing Water Source - 1				
Type	○ Deep Well	Coordinate	X	798855
	Shallow Well		Y	2492654
	Storage reservoir			
	Others			
Hydrogeological Information	Drilled Depth (m)	109	Sample ID	SA2-37-1
	Diameter (in)		Temperature (°C)	31.4
	S.W.L (m)		pH	8.06
	D.W.L (m)		EC (µs/cm)	924
	Yield (m ³ /hour)	3.4	Smell	Non
	No.of users (person/day)		Color	Non
	Supply facilities		Mn (mg/l)	<0.02
	Remarks (Lithology , etc.)	Results of Simplified Water Quality Test		Fe (mg/l)
F (mg/l)				0.0
NO3-(mg/l)				<1
NO2-(mg/l)				<0.02
Coliforms				0



Information of Existing Water Source - 2				
Type	Deep Well	Coordinate	X	
	Shallow Well		Y	
	Storage reservoir			
	Others			
Hydrogeological Information	Drilled Depth (m)		Sample ID	
	Diameter (in)		Temperature (°C)	
	S.W.L (m)		pH	
	D.W.L (m)		EC (µs/cm)	
	Yield (m ³ /hour)		Smell	
	No.of users (person/day)		Color	
	Supply facilities		Mn (mg/l)	
	Remarks (Lithology , etc.)	Results of Simplified Water Quality Test		Fe (mg/l)
F (mg/l)				
NO3-(mg/l)				
NO2-(mg/l)				
Coliforms				



Region	SAGAING		Date	2015/5/
Township	Wetlet		Reported by	YORITATE Toru
Village / ID	Poukkan	SA2-38	Coordinate (WGS84 UTM)	X Y

Information of Existing Water Source - 1				Information of Existing Water Source - 2					
Type	Deep Well	Coordinate	X	796340	Type	Deep Well	Coordinate	X	796371
	○ Shallow Well		Y	2461884		Shallow Well		Y	2461780
	Storage reservoir					Storage reservoir			
	Others					○ Others (Dug well)			
Hydrogeological Information	Drilled Depth (m)	41	Sample ID	SA2-38-1	Hydrogeological Information	Drilled Depth (m)	13.4	Sample ID	SA2-38-2
	Diameter (in)		Temperature (°C)	29.2		Diameter (in)	1.1	Temperature (°C)	28.2
	S.W.L (m)		pH	7.5		S.W.L (m)	2.3	pH	7.5
	D.W.L (m)		EC (µs/cm)	1388.0		D.W.L (m)		EC (µs/cm)	595.0
	Yield (m ³ /hour)		Smell	Non		Yield (m ³ /hour)		Smell	Non
	No.of users (person/day)		Color	Non		No.of users (person/day)		Color	Non
	Supply facilities	Hand pump	Mn (mg/l)	<0.02		Supply facilities		Mn (mg/l)	<0.02
	Remarks (Lithology , etc.)		Fe (mg/l)	<0.2		Remarks (Lithology , etc.)		Fe (mg/l)	<0.2
Alluvial plane. People get drinking water from dugwell.		F (mg/l)	1.5	Constructed in 1994. Artesian well locating 2 to 3 km far from the village.		F (mg/l)	0.8		
		NO3- (mg/l)	2.0			NO3- (mg/l)	20.0		
		NO2- (mg/l)	<0.02			NO2- (mg/l)	<0.02		
		Coliforms	0			Coliforms	uncounted		

Photo



Photo



Region	SAGAING		Date	2015/5/19
Township	Wetlet		Reported by	YORITATE Toru
Village / ID	Poukkan	SA2-38	Coordinate (WGS84 UTM)	X
			Y	

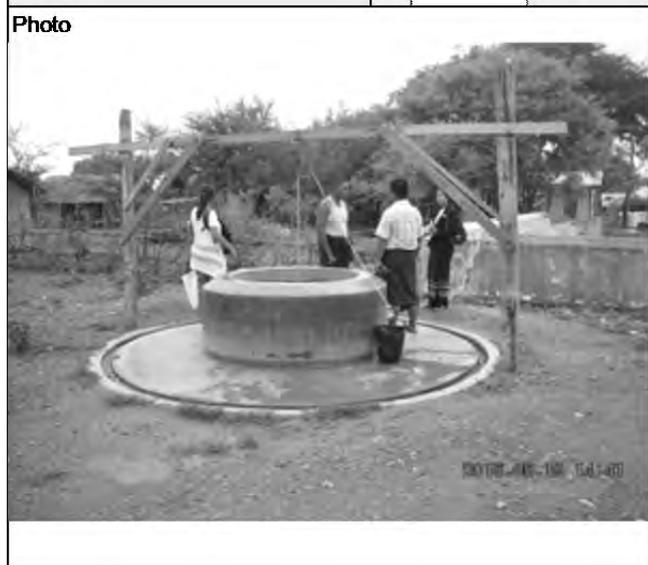
Information of Existing Water Source - 1				
Type	Deep Well	Coordinate	X	797690
	○ Shallow Well		Y	2462872
	Storage reservoir			
	Others			
Hydrogeological Information	Drilled Depth (m)	38	Sample ID	SA2-38-3
	Diameter (in)	2	Temperature (°C)	30.0
	S.W.L (m)		pH	7.9
	D.W.L (m)		EC (µs/cm)	1,500
	Yield (m ³ /hour)	1.4	Smell	Non
	No.of users (person/day)		Color	Non
	Supply facilities	Artesian	Mn (mg/l)	<0.02
	Remarks (Lithology , etc.)		Fe (mg/l)	<0.2
F (mg/l)			2.0	
NO3- (mg/l)			5.0	
NO2- (mg/l)			<0.02	
Coliforms			0	

Information of Existing Water Source - 2				
Type	Deep Well	Coordinate	X	
	Shallow Well		Y	
	Storage reservoir			
	Others			
Hydrogeological Information	Drilled Depth (m)		Sample ID	
	Diameter (in)		Temperature (°C)	
	S.W.L (m)		pH	
	D.W.L (m)		EC (µs/cm)	
	Yield (m ³ /hour)		Smell	
	No.of users (person/day)		Color	
	Supply facilities		Mn (mg/l)	
	Remarks (Lithology , etc.)		Fe (mg/l)	
F (mg/l)				
NO3- (mg/l)				
NO2- (mg/l)				
Coliforms				



Region	SAGAING		Date	2015/5/19
Township	Wetlet		Reported by	YORITATE Toru
Village / ID	Shwenyaunglaw	SA2-39	Coordinate (WGS84 UTM)	X Y

Information of Existing Water Source - 1				
Type	Deep Well	Coordinate	X	803376
	Shallow Well		Y	2470865
	Storage reservoir			
	○ Others <i>Dug Well</i>			
Hydrogeological Information	Drilled Depth (m)	11.5	Sample ID	SA2-39-1
	Diameter (in)	1.2m	Temperature (°C)	29.0
	S.W.L (m)	5.10 - 0.70	pH	7.91
	D.W.L (m)		EC (µs/cm)	809
	Yield (m ³ /hour)		Smell	Non
	No.of users (person/day)		Color	Non
	Supply facilities		Mn (mg/l)	<0.02
	Remarks (Lithology , etc.)		Fe (mg/l)	<0.2
		Results of Simplified Water Quality Test	F (mg/l)	0.8
			NO3- (mg/l)	30.0
			NO2- (mg/l)	<0.02
			Coliforms	Too much



Information of Existing Water Source - 2				
Type	Deep Well	Coordinate	X	
	Shallow Well		Y	
	Storage reservoir			
	Others			
Hydrogeological Information	Drilled Depth (m)		Sample ID	
	Diameter (in)		Temperature (°C)	
	S.W.L (m)		pH	
	D.W.L (m)		EC (µs/cm)	
	Yield (m ³ /hour)		Smell	
	No.of users (person/day)		Color	
	Supply facilities		Mn (mg/l)	
	Remarks (Lithology , etc.)		Fe (mg/l)	
		Results of Simplified Water Quality Test	F (mg/l)	
			NO3- (mg/l)	
			NO2- (mg/l)	
			Coliforms	



Region	SAGAING		Date	2015/5/19
Township	Wetlet		Reported by	YORITATE Toru
Village / ID	Sabeidaw	SA2-40	Coordinate (WGS84 UTM)	X Y

Information of Existing Water Source - 1				
Type	Deep Well	Coordinate	X	786790
	○ Shallow Well		Y	2472040
	Storage reservoir			
	Others			
Hydrogeological Information	Drilled Depth (m)	10.6	Sample ID	SA2-40-1
	Diameter (in)		Temperature (°C)	27.4
	S.W.L (m)	1.5	pH	7.84
	D.W.L (m)		EC (µs/cm)	764
	Yield (m ³ /hour)		Smell	Non
	No.of users (person/day)		Color	Non
	Supply facilities		Mn (mg/l)	<0.02
	Remarks (Lithology , etc.)		Fe (mg/l)	<0.2
Results of Simplified Water Quality Test			F (mg/l)	0.6
			NO3- (mg/l)	10.0
			NO2- (mg/l)	<0.02
			Coliforms	0

Information of Existing Water Source - 2				
Type	Deep Well	Coordinate	X	786486
	○ Shallow Well		Y	2472202
	Storage reservoir			
	Others			
Hydrogeological Information	Drilled Depth (m)	10.6	Sample ID	SA2-40-2
	Diameter (in)		Temperature (°C)	28.3
	S.W.L (m)		pH	8.03
	D.W.L (m)		EC (µs/cm)	2,130
	Yield (m ³ /hour)		Smell	Non
	No.of users (person/day)		Color	Non
	Supply facilities		Mn (mg/l)	<0.02
	Remarks (Lithology , etc.)		Fe (mg/l)	<0.2
Results of Simplified Water Quality Test			F (mg/l)	3.0
			NO3- (mg/l)	5.0
			NO2- (mg/l)	<0.02
			Coliforms	Too much



Region	SAGAING		Date	2015/5/19
Township	Wetlet		Reported by	YORITATE Toru
Village / ID	Sabeidaw	SA2-40	Coordinate (WGS84 UTM)	X Y

Information of Existing Water Source - 1				
Type	○ Deep Well	Coordinate	X	786311
	Shallow Well		Y	2474369
	Storage reservoir			
	Others			
Hydrogeological Information	Drilled Depth (m)	122	Sample ID	SA2-40-3
	Diameter (in)	4	Temperature (°C)	29.0
	S.W.L (m)	1.5	pH	8.14
	D.W.L (m)		EC (µs/cm)	1,204
	Yield (m ³ /hour)	6.8	Smell	Non
	No.of users (person/day)		Color	Non
	Supply facilities	Artesian	Mn (mg/l)	<0.02
	Remarks (Lithology , etc.) Locating 2km out side of the village.		Results of Simplified Water Quality Test	
Fe (mg/l)			<0.2	
F (mg/l)			3.0	
NO3- (mg/l)			<1	
NO2- (mg/l)			<0.02	
		Coliforms		



Information of Existing Water Source - 2				
Type	Deep Well	Coordinate	X	
	Shallow Well		Y	
	Storage reservoir			
	Others			
Hydrogeological Information	Drilled Depth (m)		Sample ID	SA2-40
	Diameter (in)		Temperature (°C)	
	S.W.L (m)		pH	
	D.W.L (m)		EC (µs/cm)	
	Yield (m ³ /hour)		Smell	
	No.of users (person/day)		Color	
	Supply facilities		Mn (mg/l)	
	Remarks (Lithology , etc.) Target : 786537 / 2472238		Results of Simplified Water Quality Test	
Fe (mg/l)				
F (mg/l)				
NO3- (mg/l)				
NO2- (mg/l)				
		Coliforms		



(2) マンダレー地域

Region	Mandalay		Date	2015.5.24	
Township	Mahlaing		Reported by	Sasaki	
Village / ID	Htantawgyi	MA2-01	Coordinate (WGS84 UTM)	X	766932
			Y	2339178	

Information of Existing Water Sauce - 1						
Type	Deep Well	Coordinate	X	767026		
	Shallow Well		Y	2338930		
	Storage reservoir					
	○ Others <i>Dug Well</i>					
Hydrogeological Information	Drilled Depth (m)	15	Sample ID	MA2-01-1		
	Diameter (in)	1.5m	Temperature (°C)	30.3		
	S.W.L (m)	no data	pH	7.43		
	D.W.L (m)		EC (µs/cm)	2,310		
	Yield (m³/hour)		Smell	Non		
	No.of users (person/day)	480	Color	Non		
	Supply facilities		Mn (mg/l)	<0.02		
	Remarks (Lithology , etc.)	There are 4 shallow well in the village. But 3 of shallow well be come salty and villager can use only 1 well for drinking. That well is located near the irrigation channel. SWL is around GL-10m. And this village have another tube well (180 feet) to use some village event.		Fe (mg/l)	<0.2	
Results of Simplified Water Quality Test	F (mg/l)			0.4		
	NO3- (mg/l)			10		
	NO2- (mg/l)			<0.02		
	Coliforms			Too much		



Information of Existing Water Sauce - 2						
Type	Deep Well	Coordinate	X	767009		
	Shallow Well		Y	2339022		
	Storage reservoir					
	○ Others <i>Dug Well</i>					
Hydrogeological Information	Drilled Depth (m)	15	Sample ID	MA2-01-2		
	Diameter (in)	1.5m	Temperature (°C)	30.8		
	S.W.L (m)		pH	7.82		
	D.W.L (m)		EC (µs/cm)	3,560		
	Yield (m³/hour)		Smell	Non		
	No.of users (person/day)		Color	Non		
	Supply facilities		Mn (mg/l)			
	Remarks (Lithology , etc.)	Salty well. They don't use for drinking water. To use for laundry and bathing.		Fe (mg/l)		
Results of Simplified Water Quality Test	F (mg/l)					
	NO3- (mg/l)					
	NO2- (mg/l)					
	Coliforms					

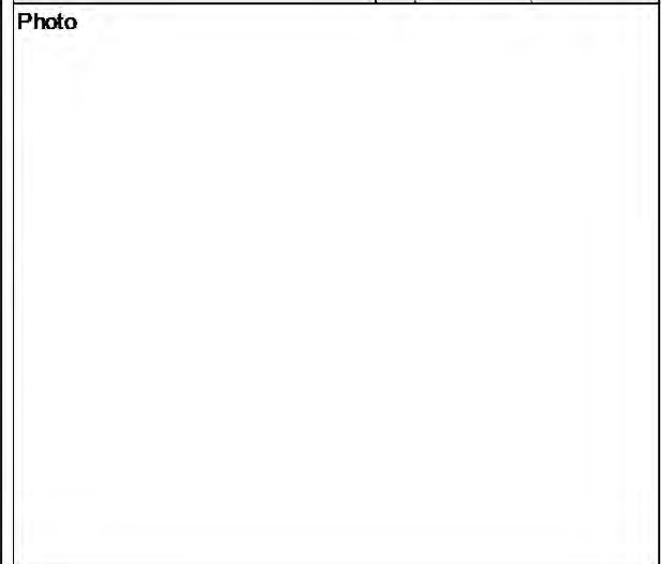


Region	Mandalay		Date	2015.5.19	
Township	Mahlaing		Reported by	Yamasaki	
Village / ID	Asone	MA2-02	Coordinate (WGS84 UTM)	X	769179
				Y	2329028

Information of Existing Water Source - 1						
Type	Deep Well	Coordinate	X	768727		
	Shallow Well		Y	2328337		
	Storage reservoir					
	○ Others <i>Dug Well</i>					
Hydrogeological Information	Drilled Depth (m)	6.1	Results of Simplified Water Quality Test	Sample ID	MA2-02-1	
	Diameter (in)	1.5m		Temperature (°C)	27.5	
	S.W.L (m)	1.8		pH	7.48	
	D.W.L (m)			EC (µs/cm)	1,472	
	Yield (m ³ /hour)			Smell	Non	
	No.of users (person/day)	650		Color	Non	
	Supply facilities			Mn (mg/l)	<0.02	
	Remarks (Lithology , etc.)	Electrical pole have already installed. But only some house can use electricity. This well is located around 1km from center of village. This village has some dug well. when they boil rice use these water, rice will become yellow. There are no deep well near this village.				
	Fe (mg/l)					<0.02
	F (mg/l)					0
	NO3- (mg/l)					<1
	NO2- (mg/l)					<0.02
	Coliforms					Too much



Information of Existing Water Source - 2						
Type	Deep Well	Coordinate	X			
	Shallow Well		Y			
	Storage reservoir					
	○ Others					
Hydrogeological Information	Drilled Depth (m)		Results of Simplified Water Quality Test	Sample ID		
	Diameter (in)			Temperature (°C)		
	S.W.L (m)			pH		
	D.W.L (m)			EC (µs/cm)		
	Yield (m ³ /hour)			Smell		
	No.of users (person/day)			Color		
	Supply facilities			Mn (mg/l)		
	Remarks (Lithology , etc.)					
	Fe (mg/l)					
	F (mg/l)					
	NO3- (mg/l)					
	NO2- (mg/l)					
	Coliforms					

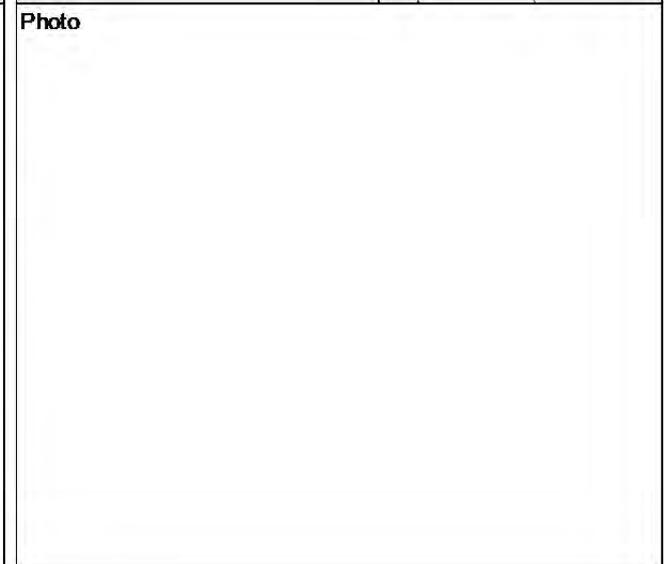


Region	Mandalay		Date	2015.5.19	
Township	Mahlaing		Reported by	Yamasaki	
Village / ID	Khinthar(S)	MA2-03	Coordinate (WGS84 UTM)	X	782188
				Y	2317148

Information of Existing Water Source - 1								
Type	Deep Well	Coordinate	X	781754				
	Shallow Well		Y	2317206				
	Storage reservoir							
	○ Others <i>Dug Well</i>							
Hydrogeological Information	Drilled Depth (m)	6.1	Sample ID	MA2-03-1				
	Diameter (in)		Temperature (°C)	27.6				
	S.W.L (m)	3.1	pH	7.41				
	D.W.L (m)		EC (µs/cm)	781				
	Yield (m ³ /hour)		Smell	Non				
	No.of users (person/day)	480	Color	Non				
	Supply facilities		Mn (mg/l)	<0.02				
	Remarks (Lithology , etc.)	This village is shared pond water with neighbor village in rainy season.						
	Fe (mg/l)						<0.2	
	F (mg/l)						0	
	NO3- (mg/l)						<1	
	NO2- (mg/l)						<0.02	
	Coliforms						7	



Information of Existing Water Source - 2								
Type	Deep Well	Coordinate	X					
	Shallow Well		Y					
	Storage reservoir							
	Others							
Hydrogeological Information	Drilled Depth (m)		Sample ID					
	Diameter (in)		Temperature (°C)					
	S.W.L (m)		pH					
	D.W.L (m)		EC (µs/cm)					
	Yield (m ³ /hour)		Smell					
	No.of users (person/day)		Color					
	Supply facilities		Mn (mg/l)					
	Remarks (Lithology , etc.)							
	Fe (mg/l)							
	F (mg/l)							
	NO3- (mg/l)							
	NO2- (mg/l)							
	Coliforms							



Region	Mandalay		Date	2015/5/24
Township	Myingyan		Reported by	Maruo
Village / ID	Chaysay	MA2-04	Coordinate (WGS84 UTM)	X
			Y	

Information of Existing Water Source - 1					Information of Existing Water Source - 2						
Type	○ Deep Well		Coordinate	X	753208	Type	Deep Well		Coordinate	X	753114
	Shallow Well			Y	2369050		○ Shallow Well			Y	2369048
	Storage reservoir						Storage reservoir				
	Others						Others				
Hydrogeological Information	Drilled Depth (m)	91.4	Results of Simplified Water Quality Test	Sample ID	MA2-4-1	Hydrogeological Information	Drilled Depth (m)	59.4	Results of Simplified Water Quality Test	Sample ID	MA2-4-2
	Diameter (in)	1		Temperature (°C)	31.1		Diameter (in)	3		Temperature (°C)	31.0
	S.W.L (m)	30.4		pH	8.06		S.W.L (m)	19.2		pH	8.11
	D.W.L (m)			EC (µs/cm)	2,880		D.W.L (m)			EC (µs/cm)	2,580
	Yield (m³/hour)			Smell	Non		Yield (m³/hour)			Smell	Non
	No.of users (person/day)			Color	Non		No.of users (person/day)			Color	Non
	Supply facilities	Compressor		Mn (mg/l)	<1		Supply facilities	Compressor		Mn (mg/l)	<1
	Remarks (Lithology , etc.)	DDA well 2013- inside the school compound.		Fe (mg/l)	0.2		Remarks (Lithology , etc.)	Another tube well in the clinic , drilled by DDA in 2000 X 2369051.62mN Y 753117.55mE		Fe (mg/l)	<0.2
			F (mg/l)	0				F (mg/l)	0		
			NO3- (mg/l)	<1				NO3- (mg/l)	<1		
			NO2- (mg/l)	<0.02				NO2- (mg/l)	<0.02		
			Coliforms					Coliforms			

Photo



Photo



Region	Mandalay		Date	2015/5/25
Township	Myingyan		Reported by	Maruo
Village / ID	Talgyi	MA2-05	Coordinate (WGS84 UTM)	X
			Y	

Information of Existing Water Source - 1					
Type	○ Deep Well	Coordinate	X	758959	
	Shallow Well		Y	2405065	
	Storage reservoir				
	Others				
Hydrogeological Information	Drilled Depth (m)	71.6	Results of Simplified Water Quality Test	Sample ID	MA2-5-1
	Diameter (in)	2		Temperature (°C)	30.9
	S.W.L (m)			pH	8.27
	D.W.L (m)			EC (µs/cm)	1,303
	Yield (m ³ /hour)			Smell	Non
	No.of users (person/day)			Color	Turbidity
	Supply facilities	compressor		Mn (mg/l)	<1
	Remarks (Lithology , etc.)			Fe (mg/l)	<0.2
Monastery well - water contain sand, Ayarwaddy river.		F (mg/l)	0.7		
		NO3- (mg/l)	1		
		NO2- (mg/l)	<0.02		
		Coliforms			



Information of Existing Water Source - 2					
Type	Deep Well	Coordinate	X	758815	
	○ Shallow Well		Y	2404938	
	Storage reservoir				
	Others				
Hydrogeological Information	Drilled Depth (m)	45.7	Results of Simplified Water Quality Test	Sample ID	MA2-5-2
	Diameter (in)	3		Temperature (°C)	30.5
	S.W.L (m)	8.2		pH	8.44
	D.W.L (m)			EC (µs/cm)	1,783
	Yield (m ³ /hour)			Smell	Non
	No.of users (person/day)			Color	Non
	Supply facilities	Compressor		Mn (mg/l)	<1
	Remarks (Lithology , etc.)			Fe (mg/l)	<0.2
Private tube well in the village. This house has a tractor and telephone. Family use the water for drilling.		F (mg/l)	1		
		NO3- (mg/l)	4		
		NO2- (mg/l)	<0.02		
		Coliforms			



Region	Mandalay		Date	2015/5/24
Township	Myingyan		Reported by	Maruo
Village / ID	Kuywar	MA2-06	Coordinate (WGS84 UTM)	X
			Y	

Information of Existing Water Source - 1					Information of Existing Water Source - 2						
Type	Deep Well		Coordinate	X	749780	Type	○ Deep Well		Coordinate	X	749809
	○ Shallow Well			Y	2369023		Shallow Well			Y	2369054
	Storage reservoir						Storage reservoir				
	Others						Others				
Hydrogeological Information	Drilled Depth (m)	59	Results of Simplified Water Quality Test	Sample ID	MA2-6-1	Hydrogeological Information	Drilled Depth (m)	79	Results of Simplified Water Quality Test	Sample ID	MA2-6-2
	Diameter (in)	3		Temperature (°C)	31.2		Diameter (in)	3		Temperature (°C)	31.8
	S.W.L (m)	16.7		pH	7.88		S.W.L (m)	19.2		pH	8.69
	D.W.L (m)			EC (µs/cm)	274		D.W.L (m)			EC (µs/cm)	2,450
	Yield (m³/hour)			Smell	Non		Yield (m³/hour)			Smell	Non
	No.of users (person/day)			Color	Turbidity		No.of users (person/day)			Color	Non
	Supply facilities	Compressor		Mn (mg/l)	0		Supply facilities	Compressor		Mn (mg/l)	<1
	Remarks (Lithology , etc.)	Private well - near DDA well, very salty . Possibly deeper could be better quality, 2008 drilled. X : 2369023.86mN Y : 749780.33mE		Fe (mg/l)	0.5		Remarks (Lithology , etc.)	300m from frist private well. Drill deeper quality may be better. Drilled in 2015- private well. X : 2369053.90mN Y : 749809.86mE		Fe (mg/l)	<0.2
			F (mg/l)	4				F (mg/l)	2		
			NO3- (mg/l)	1				NO3- (mg/l)	1.5		
			NO2- (mg/l)	<0.02				NO2- (mg/l)	0.1		
			Coliforms					Coliforms			

Photo



Photo



Region	Mandalay		Date	5/24/2015
Township	Myingyan		Reported by	Maruo
Village / ID	Yonehto	MA2-07	Coordinate (WGS84 UTM)	X
			Y	

Information of Existing Water Source - 1						
Type	○ Deep Well	Coordinate	X	762463		
	Shallow Well		Y	2384138		
	Storage reservoir					
	Others					
Hydrogeological Information	Drilled Depth (m)	98	Sample ID	MA2-7-1		
	Diameter (in)	3	Temperature (°C)	31.0		
	S.W.L (m)	46	pH	7.73		
	D.W.L (m)		EC (µs/cm)	7,960		
	Yield (m ³ /hour)		Smell	Non		
	No.of users (person/day)		Color	Non		
	Supply facilities	Compressor	Mn (mg/l)	<1		
	Remarks (Lithology , etc.)	Results of Simplified Water Quality Test				
Inside clinic compound behind monastery, drilled in 2014 by Gov Health Organization.						
	Fe (mg/l)					<0.2
	F (mg/l)					0
	NO3- (mg/l)					45
	NO2- (mg/l)					0
	Coliforms					

Information of Existing Water Source - 2						
Type	○ Deep Well	Coordinate	X	762698		
	Shallow Well		Y	2384434		
	Storage reservoir					
	Others					
Hydrogeological Information	Drilled Depth (m)	98	Sample ID	MA2-7-2		
	Diameter (in)	4	Temperature (°C)	30.9		
	S.W.L (m)		pH	7.58		
	D.W.L (m)		EC (µs/cm)	7,340		
	Yield (m ³ /hour)		Smell	Non		
	No.of users (person/day)		Color	Non		
	Supply facilities	Compressor	Mn (mg/l)	<1		
	Remarks (Lithology , etc.)	Results of Simplified Water Quality Test				
Private tube well Taste Slightly salty X : 2384434.60mN Y : 762698.30mE						
	Fe (mg/l)					<0.2
	F (mg/l)					0
	NO3- (mg/l)					20
	NO2- (mg/l)					0.02
	Coliforms					

Photo



Photo



Region	Mandalay		Date	2015/5/25
Township	Myingyan		Reported by	Maruo
Village / ID	Phatpin-I	MA2-08	Coordinate (WGS84 UTM)	X Y

Information of Existing Water Source - 1					Information of Existing Water Source - 2						
Type	○ Deep Well		Coordinate	X	766089	Type	○ Deep Well		Coordinate	X	766347
	Shallow Well			Y	2399238		Shallow Well			Y	2399645
	Storage reservoir						Storage reservoir				
	Others						Others				
Hydrogeological Information	Drilled Depth (m)	61	Results of Simplified Water Quality Test	Sample ID	MA2-8-1	Hydrogeological Information	Drilled Depth (m)	107	Results of Simplified Water Quality Test	Sample ID	MA2-8-2
	Diameter (in)	2		Temperature (°C)	30.3		Diameter (in)	3		Temperature (°C)	30.6
	S.W.L (m)			pH	8.24		S.W.L (m)			pH	8.46
	D.W.L (m)			EC (µs/cm)	6,160		D.W.L (m)			EC (µs/cm)	1,930
	Yield (m ³ /hour)			Smell	Non		Yield (m ³ /hour)	500g/h		Smell	Slightly certain smell
	No.of users (person/day)			Color	High turbidity		No.of users (person/day)			Color	Slightly muddy
	Supply facilities	Compressor		Mn (mg/l)	<1		Supply facilities			Mn (mg/l)	<1
	Remarks (Lithology , etc.)			Fe (mg/l)	<0.2		Remarks (Lithology , etc.)			Fe (mg/l)	<0.2
Private well. Water certain yellow sand and silt. Taste is salty and they use this water for animals. X : 2399238.43mN Y : 766089.93mE Nyaungwin village is next to the target village.		F (mg/l)	0	Monastery well - slightly salty X : 2399645.31mN Y : 766347.70mE		F (mg/l)	0.2				
		NO3- (mg/l)	<1			NO3- (mg/l)	<1				
		NO2- (mg/l)	<0.02			NO2- (mg/l)	<0.02				
		Coliforms				Coliforms					

Photo



Photo



Region	MANDALAY		Date	2015/5/25
Township	Ngazon		Reported by	YORITATE Toru
Village / ID	Konelel	MA2-9	Coordinate (WGS84 UTM)	X Y

Information of Existing Water Source - 1					
Type	Deep Well	Coordinate	X	758753	
	Shallow Well		Y	2410571	
	Storage reservoir				
	○ Others <i>Dug Well</i>				
Hydrogeological Information	Drilled Depth (m)	11	Sample ID	MA2-9 -1	
	Diameter (in)	1.0m	Temperature (°C)	29.1	
	S.W.L (m)	9.4	pH	8.33	
	D.W.L (m)		EC (µs/cm)	6,020	
	Yield (m ³ /hour)		Smell	Non	
	No.of users (person/day)		Color	Non	
	Supply facilities		Mn (mg/l)	<0.02	
	Remarks (Lithology , etc.)	Results of Simplified Water Quality Test			
Dug well. Can not drink water. Other 11 dugwells are also high salinity water can not drink. Monestry TW (189m) and DDA drilled TW (128m) are also high salinity therefore, nnow not uder the operation. Pego Formation area.					
	Fe (mg/l)				<0.2
	F (mg/l)				5.0
	NO3- (mg/l)				8.0
	NO2- (mg/l)				<0.02
	Coliforms				

Information of Existing Water Source - 2					
Type	○ Deep Well	Coordinate	X	758200	
	Shallow Well		Y	2410349	
	Storage reservoir				
	Others				
Hydrogeological Information	Drilled Depth (m)	61	Sample ID	MA2-9 -2	
	Diameter (in)	2	Temperature (°C)	30.8	
	S.W.L (m)		pH	7.93	
	D.W.L (m)		EC (µs/cm)	6,360	
	Yield (m ³ /hour)	4.1	Smell	Non	
	No.of users (person/day)		Color	Non	
	Supply facilities		Mn (mg/l)	<0.02	
	Remarks (Lithology , etc.)	Results of Simplified Water Quality Test			
Private well. Can not drink water. Target : 758855 / 2410492					
	Fe (mg/l)				<0.2
	F (mg/l)				0.0
	NO3- (mg/l)				45<
	NO2- (mg/l)				0.2
	Coliforms				



Region	MANDALAY		Date	2015/5/25
Township	Ngazon		Reported by	YORITATE Toru
Village / ID	Phaungkadaw	MA2-10	Coordinate (WGS84 UTM)	X Y

Information of Existing Water Source - 1				
Type	Deep Well	Coordinate	X	766115
	Shallow Well		Y	2416389
	Storage reservoir			
	○ Others <i>Dug Well</i>			
Hydrogeological Information	Drilled Depth (m)	18m×3	Sample ID	MA2-10-1
	Diameter (in)	2	Temperature (°C)	29.8
	S.W.L (m)	2.0	pH	7.12
	D.W.L (m)		EC (µs/cm)	6,470
	Yield (m ³ /hour)		Smell	Non
	No.of users (person/day)		Color	Non
	Supply facilities	Suction Pump	Mn (mg/l)	0.02
	Remarks (Lithology , etc.)	Upper Pego Formation.N45W,60S 3 shallow well (18m×3) combination system for suction pump. While pumping, close (10m distance) dug well's water also draw down.		
		Results of Simplified Water Quality Test	Fe (mg/l)	<0.2
			F (mg/l)	0.0
			NO3- (mg/l)	8.0
			NO2- (mg/l)	<0.02
			Coliforms	



Information of Existing Water Source - 2				
Type	Deep Well	Coordinate	X	
	Shallow Well		Y	
	Storage reservoir			
	Others			
Hydrogeological Information	Drilled Depth (m)		Sample ID	MA2-10-2
	Diameter (in)		Temperature (°C)	
	S.W.L (m)		pH	
	D.W.L (m)		EC (µs/cm)	
	Yield (m ³ /hour)		Smell	
	No.of users (person/day)		Color	
	Supply facilities		Mn (mg/l)	
	Remarks (Lithology , etc.)	Target : 766378 / 2416431 Pond water is using for drinking.		
		Results of Simplified Water Quality Test	Fe (mg/l)	
			F (mg/l)	
			NO3- (mg/l)	
			NO2- (mg/l)	
			Coliforms	



Region	MANDALAY		Date	2015/5/25
Township	Ngazon		Reported by	YORITATE Toru
Village / ID	Kaungzin	MA2-11	Coordinate (WGS84 UTM)	X
			Y	

Information of Existing Water Source - 1				
Type	○ Deep Well	Coordinate	X	765457
	Shallow Well		Y	2403617
	Storage reservoir			
	Others <i>Dug Well</i>			
Hydrogeological Information	Drilled Depth (m)	152	Sample ID	MA2-11 -1
	Diameter (in)	2	Temperature (°C)	30.4
	S.W.L (m)	unknown	pH	7.86
	D.W.L (m)		EC (µs/cm)	2,340
	Yield (m ³ /hour)	3.2	Smell	Non
	No.of users (person/day)		Color	Non
	Supply facilities	Airlift	Mn (mg/l)	<0.02
	Remarks (Lithology , etc.)	Private well belong to the Monestry. Upper Peg formation Sand Silt rock alternation. N10E, 60 ~ 90N		
		Results of Simplified Water Quality Test	Fe (mg/l)	<0.2
			F (mg/l)	0.6
			NO3- (mg/l)	8.0
			NO2- (mg/l)	<0.02
			Coliforms	



Information of Existing Water Source - 2				
Type	Deep Well	Coordinate	X	768899
	○ Shallow Well		Y	2402581
	Storage reservoir			
	Others			
Hydrogeological Information	Drilled Depth (m)	10	Sample ID	MA2-11 -2
	Diameter (in)	2	Temperature (°C)	pump broken can not get water
	S.W.L (m)		pH	
	D.W.L (m)		EC (µs/cm)	
	Yield (m ³ /hour)		Smell	
	No.of users (person/day)		Color	
	Supply facilities		Mn (mg/l)	
	Remarks (Lithology , etc.)	Private well.(3 well conivation) but now pump does not work. Can not get water anyway, water can not drink. Target : 764970 / 2403461 Now stopin sxc		
		Results of Simplified Water Quality Test	Fe (mg/l)	
			F (mg/l)	
			NO3- (mg/l)	
			NO2- (mg/l)	
			Coliforms	



Region	MANDALAY		Date	2015/5/25
Township	Ngazon		Reported by	YORITATE Toru
Village / ID	Ywarsite	MA2-12	Coordinate (WGS84 UTM)	X
			Y	

Information of Existing Water Source - 1				
Type	<input type="radio"/> Deep Well	Coordinate	X	768195
	Shallow Well		Y	2402362
	Storage reservoir			
	Others <i>Dug Well</i>			
Hydrogeological Information	Drilled Depth (m)	213	Sample ID	MA2-12-1
	Diameter (in)	2	Temperature (°C)	31.7
	S.W.L (m)		pH	7.91
	D.W.L (m)		EC (µs/cm)	11,680
	Yield (m ³ /hour)	3.2	Smell	Non
	No.of users (person/day)		Color	Non
	Supply facilities	Airlift	Mn (mg/l)	<0.02
	Remarks (Lithology , etc.)		Fe (mg/l)	<0.2
Private well. Upper Peg formation Sand Silt rock alternation. N10E, 60 ~ 90N		F (mg/l)	5.0	
		NO3- (mg/l)	8.0	
		NO2- (mg/l)	1<	
		Coliforms		



Information of Existing Water Source - 2				
Type	<input type="radio"/> Deep Well	Coordinate	X	768899
	Shallow Well		Y	2402581
	Storage reservoir			
	Others <i>Dug Well</i>			
Hydrogeological Information	Drilled Depth (m)	6	Sample ID	MA2-12-2
	Diameter (in)	1.4 m	Temperature (°C)	27.8
	S.W.L (m)	3.1	pH	7.28
	D.W.L (m)		EC (µs/cm)	3,340
	Yield (m ³ /hour)		Smell	Non
	No.of users (person/day)		Color	Non
	Supply facilities		Mn (mg/l)	0.05
	Remarks (Lithology , etc.)		Fe (mg/l)	<0.2
Public dug well Target : 768301 / 2402220		F (mg/l)	0.4	
		NO3- (mg/l)	<1	
		NO2- (mg/l)	<0.02	
		Coliforms		



Region	MANDALAY		Date	2015/5/24
Township	Natogyi		Reported by	YORITATE Toru
Village / ID	Kyaungnan	MA2-13	Coordinate (WGS84 UTM)	X
			Y	

Information of Existing Water Source - 1				
Type	Deep Well	Coordinate	X	767771
	Shallow Well		Y	2376174
	Storage reservoir			
	Others			
Hydrogeological Information	Drilled Depth (m)	18m×4	Sample ID	MA2-13-1
	Diameter (in)	2	Temperature (°C)	32.8
	S.W.L (m)	7	pH	7.51
	D.W.L (m)		EC (µs/cm)	1,342
	Yield (m ³ /hour)		Smell	Slightly certain smell
	No.of users (person/day)		Color	Shallow Yellow
	Supply facilities		Mn (mg/l)	<0.02
	Remarks (Lithology , etc.)	UNICEF Donation. This system will covered several villages.		
		Results of Simplified Water Quality Test	Fe (mg/l)	<0.2
			F (mg/l)	0.4
			NO3- (mg/l)	<1
			NO2- (mg/l)	<0.02
			Coliforms	

Information of Existing Water Source - 2				
Type	Deep Well	Coordinate	X	767555
	Shallow Well		Y	2375350
	Storage reservoir			
	Others			
Hydrogeological Information	Drilled Depth (m)	78	Sample ID	MA2-13-2
	Diameter (in)	2	Temperature (°C)	30.8
	S.W.L (m)	21	pH	7.8
	D.W.L (m)		EC (µs/cm)	11,800
	Yield (m ³ /hour)		Smell	Non
	No.of users (person/day)		Color	Turbidity
	Supply facilities	Airlift	Mn (mg/l)	<0.02
	Remarks (Lithology , etc.)	Target: 767494 / 2375884		
		Results of Simplified Water Quality Test	Fe (mg/l)	<0.2
			F (mg/l)	2.0
			NO3- (mg/l)	3.0
			NO2- (mg/l)	<0.02
			Coliforms	



Region	MANDALAY		Date	2015/5/6	
Township	Natogyi		Reported by	YORITATE Toru	
Village / ID	Kyaungkan	MA2-14	Coordinate (WGS84 UTM)	X	743883
				Y	2426853

Information of Existing Water Sauce - 1						Information of Existing Water Sauce - 2					
Type	○ Deep Well		Coordinate	X	757384	Type	○ Deep Well		Coordinate	X	757248
	Shallow Well			Y	2368882		Shallow Well			Y	2368842
	Storage reservoir						Storage reservoir				
	Others						Others				
Hydrogeological Information	Drilled Depth (m)	234	Results of Simplified Water Quality Test	Sample ID	MA2-14-1	Hydrogeological Information	Drilled Depth (m)	127	Results of Simplified Water Quality Test	Sample ID	MA2-14-2
	Diameter (in)	4		Temperature (°C)	31.2		Diameter (in)	2		Temperature (°C)	30.8
	S.W.L (m)			pH	7.58		S.W.L (m)			pH	7.86
	D.W.L (m)			EC (µs/cm)	6,540		D.W.L (m)			EC (µs/cm)	2,120
	Yield (m³/hour)	8.2		Smell	Non		Yield (m³/hour)	1.4		Smell	Non
	No.of users (person/day)			Color	Shallow White		No.of users (person/day)			Color	Non
	Supply facilities			Mn (mg/l)	<0.02		Supply facilities			Mn (mg/l)	<0.02
	Remarks (Lithology , etc.)						Fe (mg/l)	<0.2		Remarks (Lithology , etc.)	
Constructed by DRD in 2015.2				F (mg/l)	0.8	Private well Target : 757400 / 2368579				F (mg/l)	0.4
				NO3- (mg/l)	1.0					NO3- (mg/l)	<1
				NO2- (mg/l)	<0.01					NO2- (mg/l)	<0.02
				Coliforms						Coliforms	

Photo



Photo



Region	MANDALAY		Date	2015/5/24
Township	Natogyi		Reported by	YORITATE Toru
Village / ID	Nyaunggone	MA2-15	Coordinate (WGS84 UTM)	X
			Y	

Information of Existing Water Source - 1				
Type	o Deep Well	Coordinate	X	772147
	Shallow Well		Y	2368696
	Storage reservoir			
	Others			
Hydrogeological Information	Drilled Depth (m)	91	Sample ID	MA2-15-1
	Diameter (in)	2	Temperature (°C)	34.4
	S.W.L (m)	30	pH	8.48
	D.W.L (m)		EC (µs/cm)	2,800
	Yield (m ³ /hour)	3.4	Smell	Non
	No.of users (person/day)		Color	Non
	Supply facilities	Airlift	Mn (mg/l)	<0.02
	Remarks (Lithology , etc.)	Private Well.		
		Results of Simplified Water Quality Test	Fe (mg/l)	<0.2
			F (mg/l)	1.5
			NO3- (mg/l)	1.0
			NO2- (mg/l)	<0.02
			Coliforms	

Information of Existing Water Source - 2				
Type	o Deep Well	Coordinate	X	772036
	Shallow Well		Y	2368666
	Storage reservoir			
	Others			
Hydrogeological Information	Drilled Depth (m)	61	Sample ID	MA2-15-2
	Diameter (in)	2	Temperature (°C)	30.6
	S.W.L (m)		pH	7.86
	D.W.L (m)		EC (µs/cm)	1,192
	Yield (m ³ /hour)		Smell	Non
	No.of users (person/day)		Color	Shallow Yellow
	Supply facilities		Mn (mg/l)	<0.02
	Remarks (Lithology , etc.)	Drilled in dugwell to use suction pump. *Target : 772248 / 2368667		
		Results of Simplified Water Quality Test	Fe (mg/l)	<0.2
			F (mg/l)	0.6
			NO3- (mg/l)	<1
			NO2- (mg/l)	<0.02
			Coliforms	

Photo



Photo



Region	Mandalay		Date	2015.5.24	
Township	Taungthar		Reported by	Sasaki	
Village / ID	Chaungnar	MA2-16	Coordinate (WGS84 UTM)	X	751816
				Y	2357948

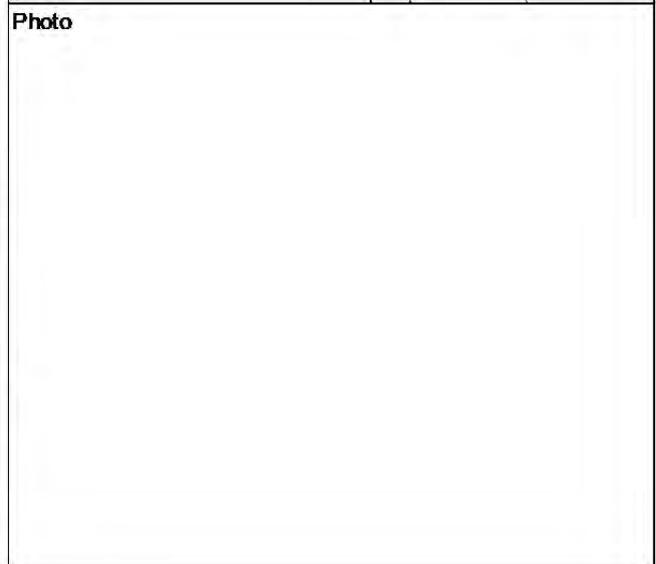
Information of Existing Water Source - 1						Information of Existing Water Source - 2					
Type	Deep Well		Coordinate	X	751878	Type	Deep Well		Coordinate	X	751799
	Shallow Well			Y	2358123		Shallow Well			Y	2357810
	Storage reservoir						Storage reservoir				
	○ Others <i>Dug Well</i>						○ Others <i>Dug Well</i>				
Hydrogeological Information	Drilled Depth (m)	15	Results of Simplified Water Quality Test	Sample ID	MA2-16-1	Hydrogeological Information	Drilled Depth (m)	5	Results of Simplified Water Quality Test	Sample ID	MA2-16-2
	Diameter (in)	1.5 m		Temperature (°C)	30.0		Diameter (in)	1.0 m		Temperature (°C)	29.4
	S.W.L (m)	5		pH	8.16		S.W.L (m)			pH	7.38
	D.W.L (m)			EC (µs/cm)	2,030		D.W.L (m)			EC (µs/cm)	3,450
	Yield (m³/hour)			Smell	Slightly sour		Yield (m³/hour)			Smell	Non
	No.of users (person/day)	450		Color	slightly brown		No.of users (person/day)			Color	Slightly turbidity
	Supply facilities			Mn (mg/l)	<0.02		Supply facilities			Mn (mg/l)	<0.02
	Remarks (Lithology , etc.) This well is located near small stream. The stream water and is almost dry up, so that villagers wait long time for recharge. Almost villagers use only this well for drinking.			Fe (mg/l)	<0.2		Remarks (Lithology , etc.) This well is located near small stream. Water is salty, they don't use for drinking.			Fe (mg/l)	<0.2
F (mg/l)			3~8	F (mg/l)	0.2						
NO3- (mg/l)			5~10	NO3- (mg/l)	<1						
NO2- (mg/l)			<0.02	NO2- (mg/l)	<0.02						
Coliforms			Too much	Coliforms	5						
Photo						Photo					
											

Region	Mandalay		Date	2015.5.25	
Township	Taungthar		Reported by	Sasaki	
Village / ID	Chaungstone (La)	MA2-17	Coordinate (WGS84 UTM)	X	735423
			Y	2354667	

Information of Existing Water Source - 1						
Type	○ Deep Well		Coordinate	X	735397	
	Shallow Well			Y	2354670	
	Storage reservoir					
	Others					
Hydrogeological Information	Drilled Depth (m)	137	Results of Simplified Water Quality Test	Sample ID	MA2-17-1	
	Diameter (in)	4		Temperature (°C)	34.7	
	S.W.L (m)	98		pH	7.33	
	D.W.L (m)			EC (µs/cm)	1483	
	Yield (m ³ /hour)	16.4		Smell	Non	
	No.of users (person/day)	800		Color	Non	
	Supply facilities	monopump		Mn (mg/l)	<0.02	
	Remarks (Lithology , etc.)			Fe (mg/l)	<0.2	
Located in monastery. This well was drilled at 35 years ago. And Villagers repaired clogging by themselves at 2 years ago. Pumping up is 3 times per day.			F (mg/l)	0.2		
			NO3- (mg/l)	<1		
			NO2- (mg/l)	<0.02		
			Coliforms			



Information of Existing Water Source - 2						
Type	Deep Well		Coordinate	X		
	Shallow Well			Y		
	Storage reservoir					
	Others					
Hydrogeological Information	Drilled Depth (m)		Results of Simplified Water Quality Test	Sample ID		
	Diameter (in)			Temperature (°C)		
	S.W.L (m)			pH		
	D.W.L (m)			EC (µs/cm)		
	Yield (m ³ /hour)			Smell		
	No.of users (person/day)			Color		
	Supply facilities			Mn (mg/l)		
	Remarks (Lithology , etc.)			Fe (mg/l)		
			F (mg/l)			
			NO3- (mg/l)			
			NO2- (mg/l)			
			Coliforms			

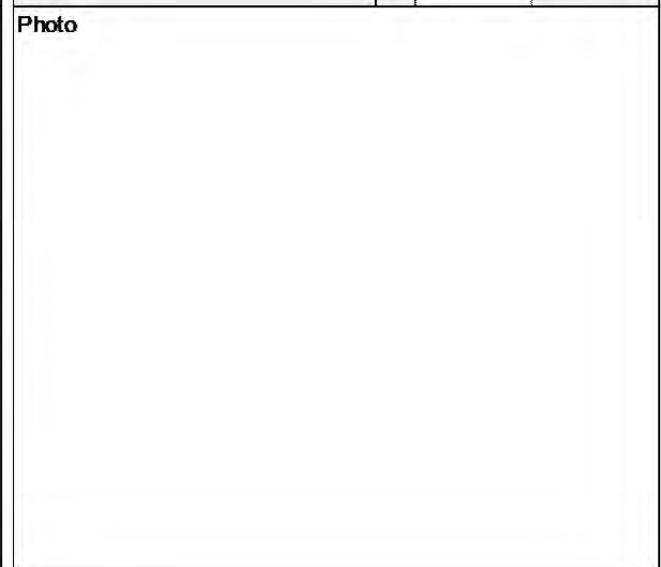


Region	Mandalay		Date	2015.5.24	
Township	Taungthar		Reported by	Sasaki	
Village / ID	Kyaukkartaungkone	MA2-18	Coordinate (WGS84 UTM)	X	748923
				Y	2341631

Information of Existing Water Source - 1								
Type	Deep Well	Coordinate	X	748843				
	Shallow Well		Y	2341588				
	Storage reservoir							
	○ Others <i>Dug Well</i>							
Hydrogeological Information	Drilled Depth (m)	5	Sample ID	MA2-18-1				
	Diameter (in)	1.0 m	Temperature (°C)	31.0				
	S.W.L (m)		pH	8.02				
	D.W.L (m)		EC (µs/cm)	794				
	Yield (m ³ /hour)		Smell	Non				
	No.of users (person/day)		Color	Non				
	Supply facilities		Mn (mg/l)	<0.02				
	Remarks (Lithology , etc.)	Villagers wait long time for recharge and villagers use only this well for drinking. In dry season, sometime region will supply the drinking water. but that is not regullary.This village has electric line and alomost house can use it. this village is located in Pegu area, so it is difficult to drill the deep well.						
	Fe (mg/l)						<0.2	
	F (mg/l)						0.2	
	NO3- (mg/l)						5~10	
	NO2- (mg/l)						<0.02	
	Coliforms						14	



Information of Existing Water Source - 2								
Type	Deep Well	Coordinate	X					
	Shallow Well		Y					
	Storage reservoir							
	Others							
Hydrogeological Information	Drilled Depth (m)		Sample ID					
	Diameter (in)		Temperature (°C)					
	S.W.L (m)		pH					
	D.W.L (m)		EC (µs/cm)					
	Yield (m ³ /hour)		Smell					
	No.of users (person/day)		Color					
	Supply facilities		Mn (mg/l)					
	Remarks (Lithology , etc.)							
	Fe (mg/l)							
	F (mg/l)							
	NO3- (mg/l)							
	NO2- (mg/l)							
	Coliforms							

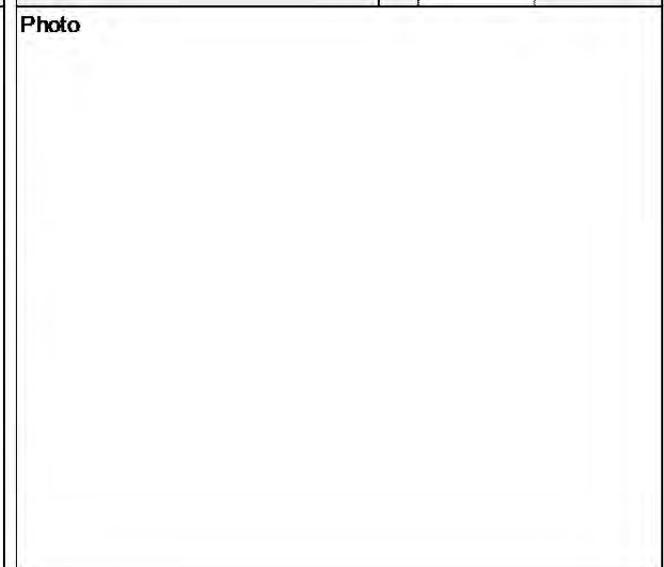


Region	Mandalay		Date	2015.5.25	
Township	Taungthar		Reported by	Sasaki	
Village / ID	Tharzi	MA2-19	Coordinate (WGS84 UTM)	X	740022
				Y	2346931

Information of Existing Water Source - 1					
Type	○ Deep Well		Coordinate	X	740016
	Shallow Well			Y	2346893
	Storage reservoir				
	Others				
Hydrogeological Information	Drilled Depth (m)	259	Results of Simplified Water Quality Test	Sample ID	MA2-19-1
	Diameter (in)	4		Temperature (°C)	38.0
	S.W.L (m)	153		pH	7.38
	D.W.L (m)			EC (µs/cm)	1,609
	Yield (m ³ /hour)	3.6		Smell	Slightly sour
	No.of users (person/day)	950		Color	Non
	Supply facilities	monopump		Mn (mg/l)	<0.02
	Remarks (Lithology , etc.)			Fe (mg/l)	<0.2
Drilled in around 1980. BAJ maintained in 2010. Water is not enough in dry season. Neighbor vilage also has same depth well.		F (mg/l)	<0		
		NO3- (mg/l)	<1		
		NO2- (mg/l)	<0.02		
		Coliforms			



Information of Existing Water Source - 2					
Type	Deep Well		Coordinate	X	
	Shallow Well			Y	
	Storage reservoir				
	Others				
Hydrogeological Information	Drilled Depth (m)		Results of Simplified Water Quality Test	Sample ID	
	Diameter (in)			Temperature (°C)	
	S.W.L (m)			pH	
	D.W.L (m)			EC (µs/cm)	
	Yield (m ³ /hour)			Smell	
	No.of users (person/day)			Color	
	Supply facilities			Mn (mg/l)	
	Remarks (Lithology , etc.)			Fe (mg/l)	
		F (mg/l)			
		NO3- (mg/l)			
		NO2- (mg/l)			
		Coliforms			



Region	Mandalay		Date	2015.5.25	
Township	Taungthar		Reported by	Sasaki	
Village / ID	Kanaye	MA2-20	Coordinate (WGS84 UTM)	X	740499
				Y	2349023

Information of Existing Water Source - 1						Information of Existing Water Source - 2					
Type	○ Deep Well		Coordinate	X	740499	Type	Deep Well		Coordinate	X	
	Shallow Well			Y	2349023		Shallow Well			Y	
	Storage reservoir						Storage reservoir				
	Others						Others				
Hydrogeological Information	Drilled Depth (m)	244	Results of Simplified Water Quality Test	Sample ID	MA2-20-1	Hydrogeological Information	Drilled Depth (m)		Results of Simplified Water Quality Test	Sample ID	
	Diameter (in)	4		Temperature (°C)	34.5		Diameter (in)			Temperature (°C)	
	S.W.L (m)	105		pH	7.33		S.W.L (m)			pH	
	D.W.L (m)			EC (µs/cm)	1,516		D.W.L (m)			EC (µs/cm)	
	Yield (m³/hour)	3.2		Smell	Non		Yield (m³/hour)			Smell	
	No.of users (person/day)	1150		Color	Non		No.of users (person/day)			Color	
	Supply facilities	monopump		Mn (mg/l)	<0.02		Supply facilities			Mn (mg/l)	
	Remarks (Lithology , etc.)			Fe (mg/l)	<0.2		Remarks (Lithology , etc.)			Fe (mg/l)	
Drilled in 1981. Village repaired by own budget when pump and generator was broken. Tharzi village (MA2-19) is very near. Using same aquifer?		F (mg/l)	0			F (mg/l)					
		NO3- (mg/l)	<1			NO3- (mg/l)					
		NO2- (mg/l)	<0.02			NO2- (mg/l)					
		Coliforms	19			Coliforms					

Photo



Photo



Region	Mandalay		Date	2015.5.25	
Township	Taungthar		Reported by	Sasaki	
Village / ID	ThayarMyaing	MA2-21	Coordinate (WGS84 UTM)	X	745680
				Y	2342452

Information of Existing Water Source - 1						
Type	Deep Well	Coordinate	X	745668		
	○ Shallow Well		Y	2342355		
	Storage reservoir					
	Others					
Hydrogeological Information	Drilled Depth (m)	36	Results of Simplified Water Quality Test	Sample ID	MA2-21-1	
	Diameter (in)	2		Temperature (°C)	29.8	
	S.W.L (m)			pH	8.41	
	D.W.L (m)			EC (µs/cm)	4,440	
	Yield (m ³ /hour)	3.6		Smell	Non	
	No.of users (person/day)			Color	Non	
	Supply facilities	motor pump		Mn (mg/l)	<0.02	
	Remarks (Lithology , etc.)			Fe (mg/l)	<0.2	
Village has 12 shallow well and all of well depth is around 36 - 54m. They used to share with neighboring house. some house can use electricity and pump up by motor. But sometime electricity can't use during several hours by brack out.			F (mg/l)	1.5~3		
			NO3- (mg/l)	45<		
			NO2- (mg/l)	0.5~1		
			Coliforms	7		



Information of Existing Water Source - 2						
Type	Deep Well	Coordinate	X	745625		
	○ Shallow Well		Y	2342444		
	Storage reservoir					
	Others					
Hydrogeological Information	Drilled Depth (m)	54	Results of Simplified Water Quality Test	Sample ID	MA2-21-2	
	Diameter (in)	2		Temperature (°C)	29.1	
	S.W.L (m)			pH	8.15	
	D.W.L (m)			EC (µs/cm)	3,460	
	Yield (m ³ /hour)	3.6		Smell	Non	
	No.of users (person/day)			Color	Non	
	Supply facilities	motor pump		Mn (mg/l)	<0.02	
	Remarks (Lithology , etc.)			Fe (mg/l)	<0.2	
all of well have small tank. They request big tank. In 1980, 100m depth well was drilled. but that well became salty aroud 4 - 5 years. they already stoped to use now. Simple water quality test is carried out 6 well. all of them have high flouride.			F (mg/l)	1.5		
			NO3- (mg/l)	45<		
			NO2- (mg/l)	<0.2		
			Coliforms	Too much		



Region	Mandalay		Date	2015.5.18	
Township	Yamethin		Reported by	Yamasaki	
Village / ID	Oakpo	MA2-22	Coordinate (WGS84 UTM)	X	826577
				Y	2270843

Information of Existing Water Source - 1						Information of Existing Water Source - 2					
Type	○ Deep Well		Coordinate	X	826855	Type	○ Deep Well		Coordinate	X	826620
	Shallow Well			Y	2270738		Shallow Well			Y	2271085
	Storage reservoir						Storage reservoir				
	Others						Others				
Hydrogeological Information	Drilled Depth (m)	235	Results of Simplified Water Quality Test	Sample ID	MA2-22-1	Hydrogeological Information	Drilled Depth (m)	82	Results of Simplified Water Quality Test	Sample ID	MA2-22-2
	Diameter (in)	2		Temperature (°C)	35.1		Diameter (in)	2		Temperature (°C)	28.7
	S.W.L (m)			pH	8.18		S.W.L (m)			pH	8.20
	D.W.L (m)			EC (µs/cm)	635		D.W.L (m)			EC (µs/cm)	919
	Yield (m³/hour)	4.5		Smell	Non		Yield (m³/hour)			Smell	Non
	No.of users (person/day)			Color	Non		No.of users (person/day)			Color	Non
	Supply facilities	compressor		Mn (mg/l)	<0.02		Supply facilities	compressor		Mn (mg/l)	<0.02
	Remarks (Lithology , etc.)	There is residents suffering from kidney stones after 5 years start to drinking. Under repairing due to the engine trouble.		Fe (mg/l)	<0.2		Remarks (Lithology , etc.)	Located in monastery.		Fe (mg/l)	<0.2
			F (mg/l)	0.2				F (mg/l)	0.2		
			NO3- (mg/l)	<1				NO3- (mg/l)	<1		
			NO2- (mg/l)	<0.02				NO2- (mg/l)	<0.02		
			Coliforms					Coliforms			

Photo



Photo



Region	Mandalay		Date	2015.5.18	
Township	Yamethin		Reported by	Yamasaki	
Village / ID	Kangyi	MA2-23	Coordinate (WGS84 UTM)	X	828701
				Y	2246082

Information of Existing Water Source - 1						
Type	Deep Well		Coordinate	X	828635	
	Shallow Well			Y	2246064	
	Storage reservoir					
	Others					
Hydrogeological Information	Drilled Depth (m)	55	Results of Simplified Water Quality Test	Sample ID	MA2-23-1	
	Diameter (in)	2		Temperature (°C)	30.0	
	S.W.L (m)			pH	8.09	
	D.W.L (m)			EC (µs/cm)	2,020	
	Yield (m ³ /hour)	2.2		Smell	Non	
	No.of users (person/day)	20HH		Color	Slightly muddy	
	Supply facilities	compresser		Mn (mg/l)	<0.02	
	Remarks (Lithology , etc.)			Fe (mg/l)	<0.2	
a bit salty and included sand. But this water can use to drinking. Pump displacement is not so much, and also the number of using households is not much.			F (mg/l)	0.8		
			NO3- (mg/l)	<1		
			NO2- (mg/l)	<0.02		
			Coliforms	5		



Information of Existing Water Source - 2						
Type	Deep Well		Coordinate	X	829123	
	Shallow Well			Y	2246062	
	Storage reservoir					
	Others					
Hydrogeological Information	Drilled Depth (m)	220	Results of Simplified Water Quality Test	Sample ID	MA2-23-2	
	Diameter (in)	2		Temperature (°C)	31.3	
	S.W.L (m)	200		pH	8.51	
	D.W.L (m)			EC (µs/cm)	1,983	
	Yield (m ³ /hour)	3.6		Smell	Non	
	No.of users (person/day)	50HH		Color	Non	
	Supply facilities	compresser		Mn (mg/l)	<0.02	
	Remarks (Lithology , etc.)			Fe (mg/l)	<0.2	
this village has 2 deep well. Another one is not used much due to the pumping cost. Some house can use this water by distributed pipe.			F (mg/l)	1.5		
			NO3- (mg/l)	<1		
			NO2- (mg/l)	<0.02		
			Coliforms			



Region	Mandalay		Date	2015.5.18	
Township	Pyawbwe		Reported by	Yamasaki	
Village / ID	HtaneKan	MA2-24	Coordinate (WGS84 UTM)	X	804515
			Y	2275435	

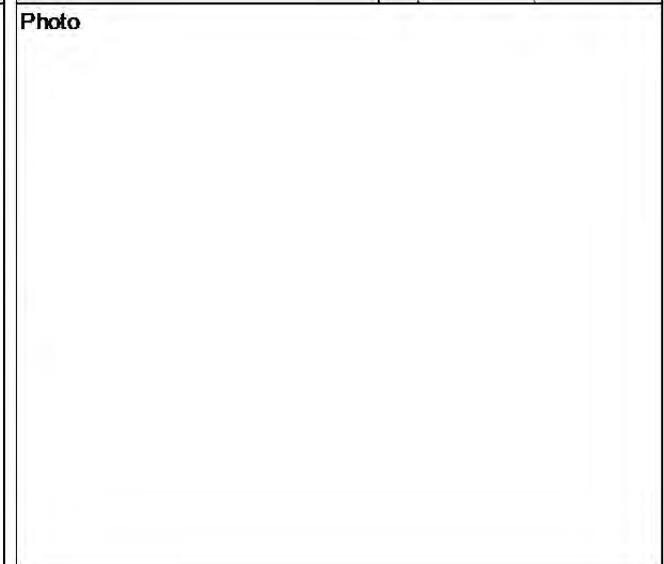
Information of Existing Water Source - 1						Information of Existing Water Source - 2																																																																	
Type	○ Deep Well		Coordinate	X	804392	Type	Deep Well		Coordinate	X		Type	Shallow Well		Coordinate	Y	2275367	Type	Shallow Well		Coordinate	Y																																																	
	Shallow Well			Y	2275367		Storage reservoir			Storage reservoir			Storage reservoir			Storage reservoir			Storage reservoir			Storage reservoir		Storage reservoir		Storage reservoir																																													
	Storage reservoir																																																																						
	Others																																																																						
Hydrogeological Information	Drilled Depth (m)		Results of Simplified Water Quality Test	Sample ID	MA2-24-1	Hydrogeological Information	Drilled Depth (m)		Results of Simplified Water Quality Test	Sample ID		Hydrogeological Information	Drilled Depth (m)		Results of Simplified Water Quality Test	Temperature (°C)	30.1	Hydrogeological Information	Diameter (in)		Results of Simplified Water Quality Test	Temperature (°C)		Hydrogeological Information	S.W.L (m)		Results of Simplified Water Quality Test	pH	8.36	Hydrogeological Information	D.W.L (m)		Results of Simplified Water Quality Test	EC (µs/cm)	4,140	Hydrogeological Information	Yield (m³/hour)		Results of Simplified Water Quality Test	Smell	Non	Hydrogeological Information	No.of users (person/day)		Results of Simplified Water Quality Test	Color	Non	Hydrogeological Information	Supply facilities		Results of Simplified Water Quality Test	Mn (mg/l)	<0.02	Remarks (Lithology , etc.)	Fe (mg/l)	<0.2	Remarks (Lithology , etc.)	F (mg/l)	0	Remarks (Lithology , etc.)	NO3- (mg/l)	<1	Remarks (Lithology , etc.)	NO2- (mg/l)	<0.02	Remarks (Lithology , etc.)	Coliforms		Remarks (Lithology , etc.)	Coliforms	
	Diameter (in)			Temperature (°C)	30.1		Diameter (in)			Temperature (°C)			Diameter (in)			Temperature (°C)			Diameter (in)			Temperature (°C)			Diameter (in)			Temperature (°C)			Diameter (in)			Temperature (°C)			Diameter (in)			Temperature (°C)			Diameter (in)			Temperature (°C)			Diameter (in)			Temperature (°C)																			
	S.W.L (m)			pH	8.36		S.W.L (m)			pH			S.W.L (m)			pH			S.W.L (m)			pH			S.W.L (m)			pH			S.W.L (m)			pH			S.W.L (m)			pH			S.W.L (m)			pH			S.W.L (m)			pH																			
	D.W.L (m)			EC (µs/cm)	4,140		D.W.L (m)			EC (µs/cm)			D.W.L (m)			EC (µs/cm)			D.W.L (m)			EC (µs/cm)			D.W.L (m)			EC (µs/cm)			D.W.L (m)			EC (µs/cm)			D.W.L (m)			EC (µs/cm)			D.W.L (m)			EC (µs/cm)			D.W.L (m)			EC (µs/cm)																			
	Yield (m³/hour)			Smell	Non		Yield (m³/hour)			Smell			Yield (m³/hour)			Smell			Yield (m³/hour)			Smell			Yield (m³/hour)			Smell			Yield (m³/hour)			Smell			Yield (m³/hour)			Smell			Yield (m³/hour)			Smell			Yield (m³/hour)			Smell																			
	No.of users (person/day)			Color	Non		No.of users (person/day)			Color			No.of users (person/day)			Color			No.of users (person/day)			Color			No.of users (person/day)			Color			No.of users (person/day)			Color			No.of users (person/day)			Color			No.of users (person/day)			Color			No.of users (person/day)			Color																			
	Supply facilities			Mn (mg/l)	<0.02		Supply facilities			Mn (mg/l)			Supply facilities			Mn (mg/l)			Supply facilities			Mn (mg/l)			Supply facilities			Mn (mg/l)			Supply facilities			Mn (mg/l)			Supply facilities			Mn (mg/l)			Supply facilities			Mn (mg/l)			Supply facilities			Mn (mg/l)																			
	Remarks (Lithology , etc.)						Remarks (Lithology , etc.)						Remarks (Lithology , etc.)						Remarks (Lithology , etc.)						Remarks (Lithology , etc.)						Remarks (Lithology , etc.)						Remarks (Lithology , etc.)						Remarks (Lithology , etc.)						Remarks (Lithology , etc.)																						
Photo						Photo																																																																	

Region	Mandalay		Date	2015.5.18	
Township	Pyawbwe		Reported by	Yamasaki	
Village / ID	Wayronesu	MA2-25	Coordinate (WGS84 UTM)	X	804877
				Y	2275454

Information of Existing Water Source - 1						
Type	○ Deep Well		Coordinate	X	804775	
	Shallow Well			Y	2275467	
	Storage reservoir					
	Others					
Hydrogeological Information	Drilled Depth (m)	116	Results of Simplified Water Quality Test	Sample ID	MA2-25-1	
	Diameter (in)	2		Temperature (°C)	30.0	
	S.W.L (m)	11		pH	8.40	
	D.W.L (m)			EC (µs/cm)	1,986	
	Yield (m ³ /hour)	1.4		Smell	Non	
	No.of users (person/day)	100		Color	Non	
	Supply facilities	compressor		Mn (mg/l)	<0.02	
	Remarks (Lithology , etc.)			Fe (mg/l)	<0.2	
Concrete tank(W=2.5m,L=1m,H=1m) water is supplied by hose.		F (mg/l)	0			
		NO3- (mg/l)	<1			
		NO2- (mg/l)	<0.02			
		Coliforms				



Information of Existing Water Source - 2						
Type	Deep Well		Coordinate	X		
	Shallow Well			Y		
	Storage reservoir					
	Others					
Hydrogeological Information	Drilled Depth (m)		Results of Simplified Water Quality Test	Sample ID		
	Diameter (in)			Temperature (°C)		
	S.W.L (m)			pH		
	D.W.L (m)			EC (µs/cm)		
	Yield (m ³ /hour)			Smell		
	No.of users (person/day)			Color		
	Supply facilities			Mn (mg/l)		
	Remarks (Lithology , etc.)			Fe (mg/l)		
		F (mg/l)				
		NO3- (mg/l)				
		NO2- (mg/l)				
		Coliforms				



Region	Mandalay		Date	
Township	Nyaungoo		Reported by	Maruo
Village / ID	Talkone	MA2-26	Coordinate (WGS84 UTM)	X
			Y	

Information of Existing Water Source - 1					Information of Existing Water Source - 2						
Type	Deep Well	Coordinate	X	721221	Type	Deep Well	Coordinate	X			
	Shallow Well		Y	2347331		Shallow Well		Y			
	Storage reservoir					Storage reservoir					
	Others					Others					
Hydrogeological Information	Drilled Depth (m)	Results of Simplified Water Quality Test	Sample ID	MA2-26	Hydrogeological Information	Drilled Depth (m)	Results of Simplified Water Quality Test	Sample ID			
	Diameter (in)		Temperature (°C)			Diameter (in)		Temperature (°C)			
	S.W.L (m)		pH			S.W.L (m)		pH			
	D.W.L (m)		EC (µs/cm)			D.W.L (m)		EC (µs/cm)			
	Yield (m ³ /hour)		Smell			Yield (m ³ /hour)		Smell			
	No.of users (person/day)		Color			No.of users (person/day)		Color			
	Supply facilities		Mn (mg/l)			Supply facilities		Mn (mg/l)			
	Remarks (Lithology , etc.)		Fe (mg/l)			Remarks (Lithology , etc.)		Fe (mg/l)			
Khetlankan is northern part of the target village. There have 500ft deep borehole and two tube wells.one from BAJ last 10 years ago(300-500gph) and another from DRD last one year ago(480ft, 2000gph). Legyi is the eastern part of target village and there have JICA tube well from 2008.Water taste is good.	F (mg/l)			F (mg/l)							
	NO3- (mg/l)			NO3- (mg/l)							
	NO2- (mg/l)			NO2- (mg/l)							
	Coliforms			Coliforms							
	Photo					Photo					

Region	Mandalay		Date	
Township	Nyaungoo		Reported by	Maruo
Village / ID	Tawbyar	MA2-27	Coordinate (WGS84 UTM)	X
			Y	

Information of Existing Water Source - 1				
Type	Deep Well	Coordinate	X	726339
	Shallow Well		Y	2345861
	Storage reservoir			
	Others			
Hydrogeological Information	Drilled Depth (m)	183	Sample ID	MA2-27
	Diameter (in)		Temperature (°C)	
	S.W.L (m)		pH	
	D.W.L (m)		EC (µs/cm)	
	Yield (m ³ /hour)		Smell	
	No.of users (person/day)		Color	
	Supply facilities		Mn (mg/l)	
	Remarks (Lithology , etc.)	Results of Simplified Water Quality Test		Fe (mg/l)
Thanattin village is next to the target village DRD drilled a borehole, 244m and met sand stone(very hard), but layer not thick. 183m depth, good yield and taste good.	F (mg/l)			
	NO3- (mg/l)			
	NO2- (mg/l)			
	Coliforms			

Photo

Information of Existing Water Source - 2				
Type	Deep Well	Coordinate	X	
	Shallow Well		Y	
	Storage reservoir			
	Others			
Hydrogeological Information	Drilled Depth (m)		Sample ID	
	Diameter (in)		Temperature (°C)	
	S.W.L (m)		pH	
	D.W.L (m)		EC (µs/cm)	
	Yield (m ³ /hour)		Smell	
	No.of users (person/day)		Color	
	Supply facilities		Mn (mg/l)	
	Remarks (Lithology , etc.)	Results of Simplified Water Quality Test		Fe (mg/l)
	F (mg/l)			
	NO3- (mg/l)			
	NO2- (mg/l)			
	Coliforms			

Photo

Region	Mandalay		Date	
Township	Nyaungoo		Reported by	Maruo
Village / ID	Setsetyo	MA2-28	Coordinate (WGS84 UTM)	X
			Y	

Information of Existing Water Source - 1					Information of Existing Water Source - 2				
Type	Deep Well	Coordinate	X		Type	Deep Well	Coordinate	X	
	Shallow Well		Y			Shallow Well		Y	
	Storage reservoir					Storage reservoir			
	Others					Others			
Hydrogeological Information	Drilled Depth (m)	Results of Simplified Water Quality Test	Sample ID	MA2-28	Hydrogeological Information	Drilled Depth (m)	Results of Simplified Water Quality Test	Sample ID	
	Diameter (in)		Temperature (°C)			Diameter (in)		Temperature (°C)	
	S.W.L (m)		pH			S.W.L (m)		pH	
	D.W.L (m)		EC (µs/cm)			D.W.L (m)		EC (µs/cm)	
	Yield (m³/hour)		Smell			Yield (m³/hour)		Smell	
	No.of users (person/day)		Color			No.of users (person/day)		Color	
	Supply facilities		Mn (mg/l)			Supply facilities		Mn (mg/l)	
	Remarks (Lithology , etc.)		Fe (mg/l)			Remarks (Lithology , etc.)		Fe (mg/l)	
Existing tube well but low yield, another tube well drilled by BAJ(900 gph).	F (mg/l)			F (mg/l)					
	NO3- (mg/l)			NO3- (mg/l)					
	NO2- (mg/l)			NO2- (mg/l)					
	Coliforms			Coliforms					

Photo



Photo

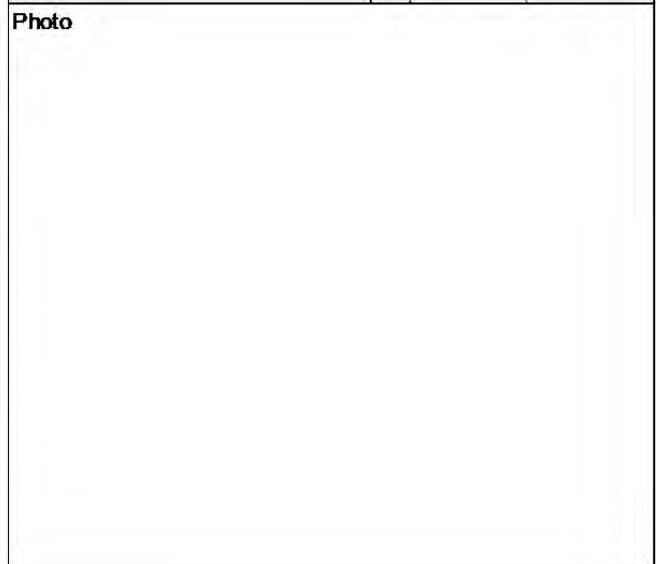


Region	Mandalay		Date	2015/5/7
Township	Nyaungoo		Reported by	Maruo
Village / ID	Kanzauk	MA2-29	Coordinate (WGS84 UTM)	X
			Y	

Information of Existing Water Source - 1					
Type	<input type="radio"/> Deep Well	Coordinate	X	709762	
	<input type="radio"/> Shallow Well		Y	2328729	
	<input type="radio"/> Storage reservoir				
	<input type="radio"/> Others				
Hydrogeological Information	Drilled Depth (m)	200	Results of Simplified Water Quality Test	Sample ID	MA2-29-1
	Diameter (in)	6		Temperature (°C)	35.7
	S.W.L (m)			pH	7.06
	D.W.L (m)			EC (µs/cm)	1,036
	Yield (m³/hour)	5.9		Smell	Non
	No.of users (person/day)			Color	Non
	Supply facilities	Submersible pump		Mn (mg/l)	<0.02
	Remarks (Lithology , etc.)	Drilled by BAJ in 2003		Fe (mg/l)	<0.2
			F (mg/l)	0.1	
			NO3-(mg/l)		
			NO2-(mg/l)	<0.02	
			Coliforms		



Information of Existing Water Source - 2					
Type	<input type="radio"/> Deep Well	Coordinate	X		
	<input type="radio"/> Shallow Well		Y		
	<input type="radio"/> Storage reservoir				
	<input type="radio"/> Others				
Hydrogeological Information	Drilled Depth (m)		Results of Simplified Water Quality Test	Sample ID	
	Diameter (in)			Temperature (°C)	
	S.W.L (m)			pH	
	D.W.L (m)			EC (µs/cm)	
	Yield (m³/hour)			Smell	
	No.of users (person/day)			Color	
	Supply facilities			Mn (mg/l)	
	Remarks (Lithology , etc.)			Fe (mg/l)	
			F (mg/l)		
			NO3-(mg/l)		
			NO2-(mg/l)		
			Coliforms		



Region	Mandalay		Date	2015/5/7
Township	Nyaungoo		Reported by	Maruo
Village / ID	Talbindel	MA2-30	Coordinate (WGS84 UTM)	X
			Y	

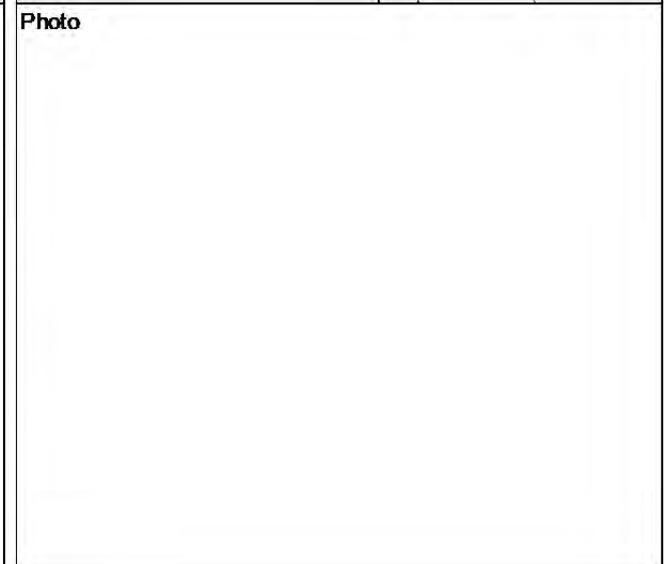
Information of Existing Water Source - 1					Information of Existing Water Source - 2						
Type	○ Deep Well		Coordinate	X	719325	Type	Deep Well		Coordinate	X	
	Shallow Well			Y	2332051		Shallow Well			Y	
	Storage reservoir						Storage reservoir				
	Others						Others				
Hydrogeological Information	Drilled Depth (m)	280	Results of Simplified Water Quality Test	Sample ID	MA2-30-1	Hydrogeological Information	Drilled Depth (m)		Results of Simplified Water Quality Test	Sample ID	
	Diameter (in)	4		Temperature (°C)	36.3		Diameter (in)			Temperature (°C)	
	S.W.L (m)	219		pH	6.77		S.W.L (m)			pH	
	D.W.L (m)			EC (µs/cm)	1,239		D.W.L (m)			EC (µs/cm)	
	Yield (m³/hour)	3.6		Smell	Iron smell		Yield (m³/hour)			Smell	
	No.of users (person/day)			Color	Shallow whie		No.of users (person/day)			Color	
	Supply facilities			Mn (mg/l)	<0.02		Supply facilities			Mn (mg/l)	
	Remarks (Lithology , etc.)				Fe (mg/l)		1	Remarks (Lithology , etc.)			Fe (mg/l)
Pump position 830ft, BAJ just rehabilitated cleaned element.			F (mg/l)	0.5				F (mg/l)			
			NO3- (mg/l)				NO3- (mg/l)				
			NO2- (mg/l)	<0.02			NO2- (mg/l)				
			Coliforms				Coliforms				
Photo					Photo						
											

Region	Mandalay		Date	2015/5/6
Township	Nyaungoo		Reported by	Maruo
Village / ID	Mongywettaw	MA2-31	Coordinate (WGS84 UTM)	X
			Y	

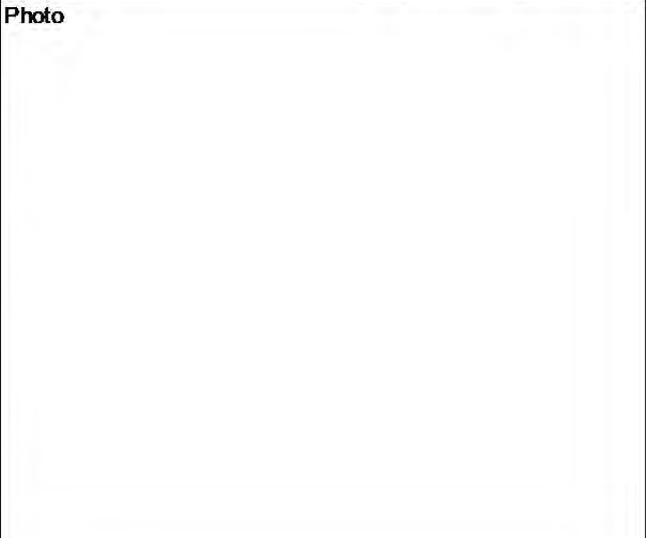
Information of Existing Water Source - 1				
Type	Deep Well	Coordinate	X	724266
	Shallow Well		Y	2337196
	Storage reservoir			
	○ Others(Dug Well)			
Hydrogeological Information	Drilled Depth (m)	Results of Simplified Water Quality Test	Sample ID	MA2-31-1
	Diameter (in)		Temperature (°C)	27.5
	S.W.L (m)		pH	8.05
	D.W.L (m)		EC (µs/cm)	500
	Yield (m ³ /hour)		Smell	Non
	No.of users (person/day)		Color	Non
	Supply facilities		Mn (mg/l)	<0.02
	Remarks (Lithology , etc.)		Fe (mg/l)	<0.02
Dug well in the pond. Oyintaungyartan is next to the target village.	F (mg/l)	0		
	NO3-(mg/l)			
	NO2-(mg/l)	<0.02		
	Coliforms			



Information of Existing Water Source - 2				
Type	Deep Well	Coordinate	X	
	Shallow Well		Y	
	Storage reservoir			
	Others			
Hydrogeological Information	Drilled Depth (m)	Results of Simplified Water Quality Test	Sample ID	
	Diameter (in)		Temperature (°C)	
	S.W.L (m)		pH	
	D.W.L (m)		EC (µs/cm)	
	Yield (m ³ /hour)		Smell	
	No.of users (person/day)		Color	
	Supply facilities		Mn (mg/l)	
	Remarks (Lithology , etc.)		Fe (mg/l)	
	F (mg/l)			
	NO3-(mg/l)			
	NO2-(mg/l)			
	Coliforms			



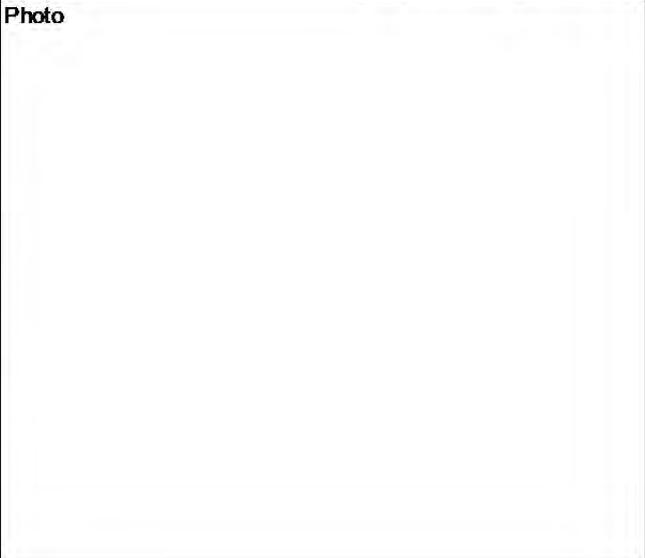
Region	Mandalay		Date	2015/5/7
Township	Nyaungoo		Reported by	Maruo
Village / ID	Phoenekan	MA2-32	Coordinate (WGS84 UTM)	X
			Y	

Information of Existing Water Source - 1					Information of Existing Water Source - 2						
Type	○ Deep Well		Coordinate	X	703729	Type	Deep Well		Coordinate	X	
	Shallow Well			Y	2334750		Shallow Well			Y	
	Storage reservoir						Storage reservoir				
	Others						Others				
Hydrogeological Information	Drilled Depth (m)	152	Results of Simplified Water Quality Test	Sample ID	MA2-32-1	Hydrogeological Information	Drilled Depth (m)		Results of Simplified Water Quality Test	Sample ID	
	Diameter (in)			Temperature (°C)	31.6		Diameter (in)			Temperature (°C)	
	S.W.L (m)	37		pH	7.33		S.W.L (m)			pH	
	D.W.L (m)	Big		EC (µs/cm)	1,043		D.W.L (m)			EC (µs/cm)	
	Yield (m³/hour)			Smell	Non		Yield (m³/hour)			Smell	
	No.of users (person/day)			Color	Non		No.of users (person/day)			Color	
	Supply facilities	Submarsible pump		Mn (mg/l)	<0.02		Supply facilities			Mn (mg/l)	
	Remarks (Lithology , etc.)			Fe (mg/l)	<0.2		Remarks (Lithology , etc.)			Fe (mg/l)	
Pump position - 440 ft About 1.5 miles from Phonenekan village. Taungpon village is next to the target village.			F (mg/l)	0.7				F (mg/l)			
			NO3- (mg/l)					NO3- (mg/l)			
			NO2- (mg/l)	<0.02				NO2- (mg/l)			
			Coliforms					Coliforms			
Photo					Photo						
											

Region	Mandalay		Date	
Township	Nyaungoo		Reported by	Maruo
Village / ID	Nyaungbinthar	MA2-33	Coordinate (WGS84 UTM)	X
			Y	

Information of Existing Water Source - 1					Information of Existing Water Source - 2				
Type	Deep Well	Coordinate	X	712483	Type	Deep Well	Coordinate	X	
	Shallow Well		Y	2322525		Shallow Well		Y	
	Storage reservoir					Storage reservoir			
	Others					Others			
Hydrogeological Information	Drilled Depth (m)	Results of Simplified Water Quality Test	Sample ID	MA2-33	Hydrogeological Information	Drilled Depth (m)	Results of Simplified Water Quality Test	Sample ID	
	Diameter (in)		Temperature (°C)			Diameter (in)		Temperature (°C)	
	S.W.L (m)		pH			S.W.L (m)		pH	
	D.W.L (m)		EC (µs/cm)			D.W.L (m)		EC (µs/cm)	
	Yield (m ³ /hour)		Smell			Yield (m ³ /hour)		Smell	
	No.of users (person/day)		Color			No.of users (person/day)		Color	
	Supply facilities		Mn (mg/l)			Supply facilities		Mn (mg/l)	
	Remarks (Lithology , etc.)		Fe (mg/l)			Remarks (Lithology , etc.)		Fe (mg/l)	
<p>There is one pond at Khwaypyout village 5 miles far away from target village. Damaged well site WP 170 drilled in 1983, used about 10 years by WRUD(high iron and ground water quality of this area is not good).</p>	F (mg/l)			F (mg/l)					
	NO3- (mg/l)			NO3- (mg/l)					
	NO2- (mg/l)			NO2- (mg/l)					
	Coliforms			Coliforms					
Photo					Photo				

Region	Mandalay		Date	2015/5/6
Township	Nyaungoo		Reported by	Maruo
Village / ID	Saingkan(Tetide)	MA2-34	Coordinate (WGS84 UTM)	X
				Y

Information of Existing Water Source - 1					Information of Existing Water Source - 2						
Type	○ Deep Well		Coordinate	X	725695	Type	Deep Well		Coordinate	X	
	Shallow Well			Y	2329987		Shallow Well			Y	
	Storage reservoir						Storage reservoir				
	Others						Others				
Hydrogeological Information	Drilled Depth (m)	365	Results of Simplified Water Quality Test	Sample ID	MA2-34-1	Hydrogeological Information	Drilled Depth (m)		Results of Simplified Water Quality Test	Sample ID	
	Diameter (in)			Temperature (°C)	34.6		Diameter (in)			Temperature (°C)	
	S.W.L (m)			pH	7.37		S.W.L (m)			pH	
	D.W.L (m)			EC (µs/cm)	814		D.W.L (m)			EC (µs/cm)	
	Yield (m³/hour)			Smell	Iron smell		Yield (m³/hour)			Smell	
	No.of users (person/day)			Color	Non		No.of users (person/day)			Color	
	Supply facilities	Pump		Mn (mg/l)	<0.02		Supply facilities			Mn (mg/l)	
				Fe (mg/l)	0.6					Fe (mg/l)	
Remarks (Lithology , etc.) JICA well. Kudaw village is next to the target village.		F (mg/l)	0.2	Remarks (Lithology , etc.)		F (mg/l)					
		NO3- (mg/l)				NO3- (mg/l)					
		NO2- (mg/l)	<0.02			NO2- (mg/l)					
		Coliforms				Coliforms					
Photo					Photo						
											

Region	Mandalay		Date	2015/5/6
Township	Nyaungoo		Reported by	Maruo
Village / ID	Byugyi	MA2-35	Coordinate (WGS84 UTM)	X
			Y	

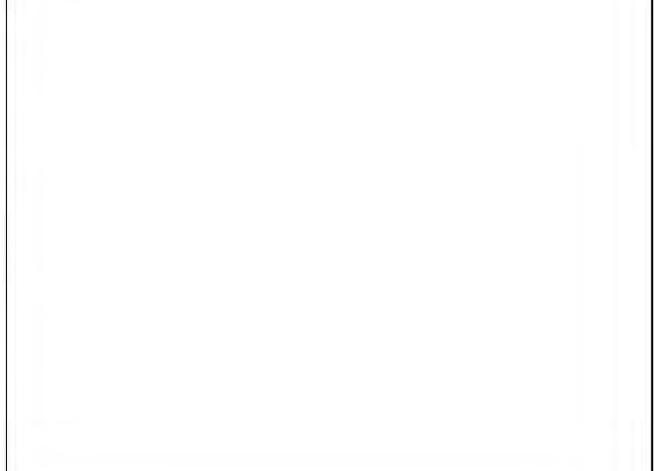
Information of Existing Water Source - 1					
Type	○ Deep Well	Coordinate	X	724027	
	Shallow Well		Y	2324767	
	Storage reservoir				
	Others				
Hydrogeological Information	Drilled Depth (m)	309	Results of Simplified Water Quality Test	Sample ID	MA2-35-1
	Diameter (in)	6		Temperature (°C)	
	S.W.L (m)	236		pH	7.61
	D.W.L (m)	239		EC (µs/cm)	908
	Yield (m³/hour)	8.2		Smell	Non
	No.of users (person/day)			Color	Non
	Supply facilities	Mono pump		Mn (mg/l)	<0.02
	Remarks (Lithology , etc.)			Fe (mg/l)	<0.2
		F (mg/l)	0.1		
		NO3- (mg/l)			
		NO2- (mg/l)	<0.02		
		Coliforms			

Information of Existing Water Source - 2					
Type	Deep Well	Coordinate	X		
	Shallow Well		Y		
	Storage reservoir				
	Others				
Hydrogeological Information	Drilled Depth (m)		Results of Simplified Water Quality Test	Sample ID	
	Diameter (in)			Temperature (°C)	
	S.W.L (m)			pH	
	D.W.L (m)			EC (µs/cm)	
	Yield (m³/hour)			Smell	
	No.of users (person/day)			Color	
	Supply facilities			Mn (mg/l)	
	Remarks (Lithology , etc.)			Fe (mg/l)	
		F (mg/l)			
		NO3- (mg/l)			
		NO2- (mg/l)			
		Coliforms			

Photo



Photo



Region	Mandalay		Date	2015/5/5
Township	Kyaukpadaung		Reported by	Maruo
Village / ID	Aleywar-2	MA2-36	Coordinate (WGS84 UTM)	X Y

Information of Existing Water Sauce - 1				Information of Existing Water Sauce - 2					
Type	○ Deep Well		X	718697	Type	○ Deep Well		X	718334
	Shallow Well		Y	2309611		Shallow Well		Y	2309805
	Storage reservoir					Storage reservoir			
	Others					Others			
Hydrogeological Information	Drilled Depth (m)	270	Sample ID	MA2-36-1	Hydrogeological Information	Drilled Depth (m)	270	Sample ID	MA2-36-2
	Diameter (in)		Temperature (°C)	32.8		Diameter (in)	4	Temperature (°C)	34.7
	S.W.L (m)		pH	6.20		S.W.L (m)	150	pH	6.00
	D.W.L (m)		EC (µs/cm)	1,907		D.W.L (m)		EC (µs/cm)	1,343
	Yield (m ³ /hour)		Smell	Iron smell		Yield (m ³ /hour)	6.8	Smell	Slightly iron
	No.of users (person/day)		Color	Non		No.of users (person/day)		Color	Non
	Supply facilities		Mn (mg/l)	3		Supply facilities		Mn (mg/l)	1
	Remarks (Lithology , etc.) Iron contents is very high and a little sour.		Results of Simplified Water Quality Test			Fe (mg/l)	>10	Remarks (Lithology , etc.) Dagagayi is northern part of Aleyawa 2 and 2 km far . Drilled 33 years ago. This tube well is slightly deeper than other well 4-6 deeper.	
			F (mg/l)	0.6					
			NO3- (mg/l)						
			NO2- (mg/l)	<0.02					
			Coliforms						

Photo



Photo



Region	Mandalay		Date	2015/5/26
Township	Kyaukpadaung		Reported by	Maruo
Village / ID	Tanganan	MA2-37	Coordinate (WGS84 UTM)	X
			Y	

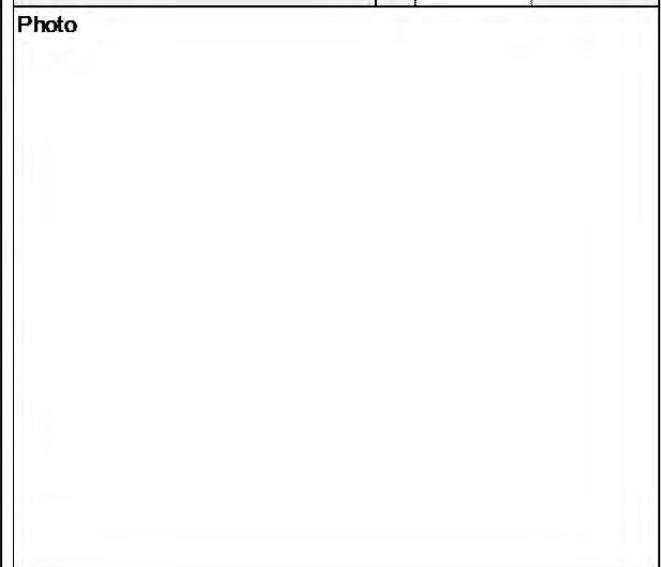
Information of Existing Water Sauce - 1					Information of Existing Water Sauce - 2						
Type	○ Deep Well		Coordinate	X	719320	Type	○ Deep Well		Coordinate	X	719095
	Shallow Well			Y	2309491		Shallow Well			Y	2309562
	Storage reservoir						Storage reservoir				
	Others						Others				
Hydrogeological Information	Drilled Depth (m)		Results of Simplified Water Quality Test	Sample ID	MA2-37-1	Hydrogeological Information	Drilled Depth (m)		Results of Simplified Water Quality Test	Sample ID	MA2-37-2
	Diameter (in)			Temperature (°C)	30.3		Diameter (in)			Temperature (°C)	37.4
	S.W.L (m)			pH	6.35		S.W.L (m)			pH	6.32
	D.W.L (m)			EC (µs/cm)	950		D.W.L (m)			EC (µs/cm)	584
	Yield (m ³ /hour)			Smell	Slightly iron		Yield (m ³ /hour)			Smell	Iron smell
	No.of users (person/day)			Color	Non		No.of users (person/day)			Color	Non
	Supply facilities			Mn (mg/l)	<1		Supply facilities			Mn (mg/l)	<1
	Remarks (Lithology , etc.)						Fe (mg/l)	10		Remarks (Lithology , etc.)	
People get water from Kanni Pond.				F (mg/l)	0.8	Kanni well DRD-035 wp 311 Water temperature always high / different from Tanganan well.				F (mg/l)	1
				NO3- (mg/l)	<1					NO3- (mg/l)	<1
				NO2- (mg/l)	<0.02					NO2- (mg/l)	<0.02
				Coliforms						Coliforms	
Photo					Photo						

Region	Mandalay		Date	2015/5/5
Township	Kyautpadaung		Reported by	Maruo
Village / ID	Lelgyi(Ma)	MA2-38	Coordinate (WGS84 UTM)	X
			Y	

Information of Existing Water Source - 1					
Type	○ Deep Well	Coordinate	X	734592	
	Shallow Well		Y	2325518	
	Storage reservoir				
	Others				
Hydrogeological Information	Drilled Depth (m)	300	Results of Simplified Water Quality Test	Sample ID	MA2-38-1
	Diameter (in)	4		Temperature (°C)	31.5
	S.W.L (m)	52		pH	7.48
	D.W.L (m)			EC (µs/cm)	1,203
	Yield (m³/hour)	10.2		Smell	Sulfur smell
	No.of users (person/day)			Color	Slightly muddy
	Supply facilities			Mn (mg/l)	<0.02
	Remarks (Lithology , etc.)	7 years ago (2009) developed by air lifting by JICA project and a year ago		Fe (mg/l)	5
			F (mg/l)	0.6	
			NO3- (mg/l)		
			NO2- (mg/l)	<0.02	
			Coliforms		



Information of Existing Water Source - 2					
Type	Deep Well	Coordinate	X		
	Shallow Well		Y		
	Storage reservoir				
	Others				
Hydrogeological Information	Drilled Depth (m)		Results of Simplified Water Quality Test	Sample ID	
	Diameter (in)			Temperature (°C)	
	S.W.L (m)			pH	
	D.W.L (m)			EC (µs/cm)	
	Yield (m³/hour)			Smell	
	No.of users (person/day)			Color	
	Supply facilities			Mn (mg/l)	
	Remarks (Lithology , etc.)			Fe (mg/l)	
			F (mg/l)		
			NO3- (mg/l)		
			NO2- (mg/l)		
			Coliforms		

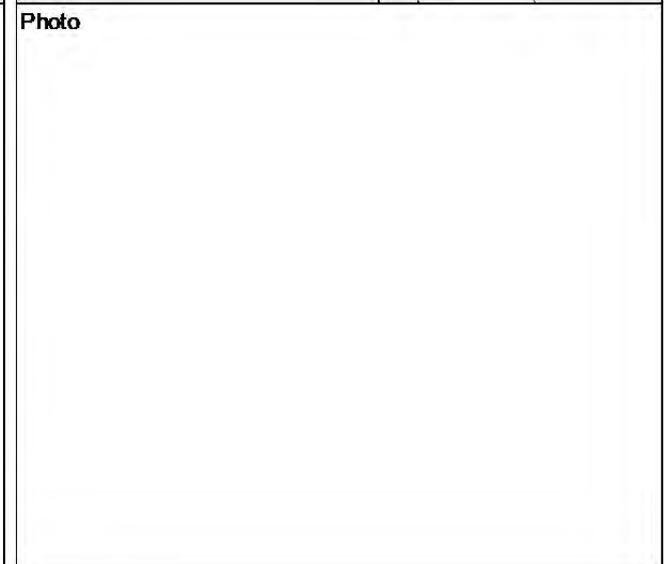


Region	Mandalay		Date	2015/5/5
Township	Kyaukpadaung		Reported by	Maruo
Village / ID	Thayattaw	MA2-39	Coordinate (WGS84 UTM)	X
			Y	

Information of Existing Water Source - 1				
Type	○ Deep Well		X	729384
	Shallow Well		Y	2325075
	Storage reservoir			
	Others			
Hydrogeological Information	Drilled Depth (m)	300	Sample ID	MA2-39-1
	Diameter (in)	4	Temperature (°C)	32.8
	S.W.L (m)	226	pH	7.11
	D.W.L (m)		EC (µs/cm)	947
	Yield (m ³ /hour)	2.7	Smell	Non
	No.of users (person/day)		Color	Non
	Supply facilities		Mn (mg/l)	<1
	Remarks (Lithology , etc.)		Fe (mg/l)	<0.2
		Results of Simplified Water Quality Test		
		F (mg/l)	<0.1	
		NO3- (mg/l)		
		NO2- (mg/l)	<0.02	
		Coliforms		



Information of Existing Water Source - 2				
Type	Deep Well		X	
	Shallow Well		Y	
	Storage reservoir			
	Others			
Hydrogeological Information	Drilled Depth (m)		Sample ID	
	Diameter (in)		Temperature (°C)	
	S.W.L (m)		pH	
	D.W.L (m)		EC (µs/cm)	
	Yield (m ³ /hour)		Smell	
	No.of users (person/day)		Color	
	Supply facilities		Mn (mg/l)	
	Remarks (Lithology , etc.)		Fe (mg/l)	
		Results of Simplified Water Quality Test		
		F (mg/l)		
		NO3- (mg/l)		
		NO2- (mg/l)		
		Coliforms		



Region	Mandalay		Date	2015/5/5
Township	Kyaukpadaung		Reported by	Maruo
Village / ID	Nakyatkhawl	MA2-40	Coordinate (WGS84 UTM)	X
			Y	

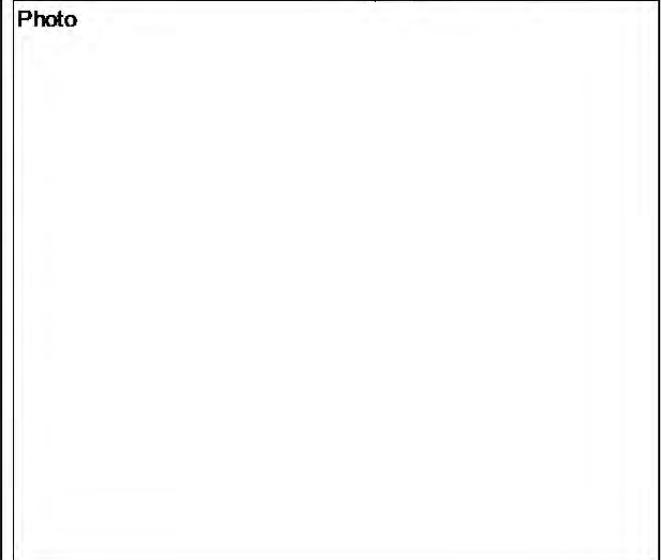
Information of Existing Water Source - 1					Information of Existing Water Source - 2						
Type	○ Deep Well		Coordinate	X	719978	Type	Deep Well		Coordinate	X	
	Shallow Well			Y	2312255		Shallow Well			Y	
	Storage reservoir						Storage reservoir				
	Others						Others				
Hydrogeological Information	Drilled Depth (m)	293	Results of Simplified Water Quality Test	Sample ID	MA2-40-1	Hydrogeological Information	Drilled Depth (m)		Results of Simplified Water Quality Test	Sample ID	
	Diameter (in)	4		Temperature (°C)	32.7		Diameter (in)			Temperature (°C)	
	S.W.L (m)	67		pH	7.07		S.W.L (m)			pH	
	D.W.L (m)			EC (µs/cm)	791		D.W.L (m)			EC (µs/cm)	
	Yield (m ³ /hour)	6.8		Smell	Non		Yield (m ³ /hour)			Smell	
	No.of users (person/day)			Color	Non		No.of users (person/day)			Color	
	Supply facilities			Mn (mg/l)	<1		Supply facilities			Mn (mg/l)	
	Remarks (Lithology , etc.)			Fe (mg/l)	<0.2		Remarks (Lithology , etc.)			Fe (mg/l)	
drilled in 1992		F (mg/l)	0.2			F (mg/l)					
		NO3- (mg/l)				NO3- (mg/l)					
		NO2- (mg/l)	<0.2			NO2- (mg/l)					
		Coliforms				Coliforms					
Photo					Photo						

(3) マグウェー地域

Region	Magway		Date	2015/5/13
Township	Magway		Reported by	Maruo
Village / ID	Natkan	MG2-01	Coordinate (WGS84 UTM)	X
			Y	

Information of Existing Water Sauce - 1					
Type	○ Deep Well	Coordinate	X	706494	
	Shallow Well		Y	2234069	
	Storage reservoir				
	Others				
Hydrogeological Information	Drilled Depth (m)	174	Results of Simplified Water Quality Test	Sample ID	MG2-1-1
	Diameter (in)	4		Temperature (°C)	31.4
	S.W.L (m)	73		pH	7.16
	D.W.L (m)			EC (µs/cm)	988
	Yield (m³/hour)	5.0		Smell	Non
	No.of users (person/day)			Color	Non
	Supply facilities	Pump		Mn (mg/l)	0
	Remarks (Lithology , etc.)	Drilled by DDA in 2014		Fe (mg/l)	0.4
			F (mg/l)	0.4	
			NO3-(mg/l)		
			NO2-(mg/l)	<0.02	
			Coliforms		

Information of Existing Water Sauce - 2					
Type	Deep Well	Coordinate	X		
	Shallow Well		Y		
	Storage reservoir				
	Others				
Hydrogeological Information	Drilled Depth (m)		Results of Simplified Water Quality Test	Sample ID	
	Diameter (in)			Temperature (°C)	
	S.W.L (m)			pH	
	D.W.L (m)			EC (µs/cm)	
	Yield (m³/hour)			Smell	
	No.of users (person/day)			Color	
	Supply facilities			Mn (mg/l)	
	Remarks (Lithology , etc.)			Fe (mg/l)	
			F (mg/l)		
			NO3-(mg/l)		
			NO2-(mg/l)		
			Coliforms		

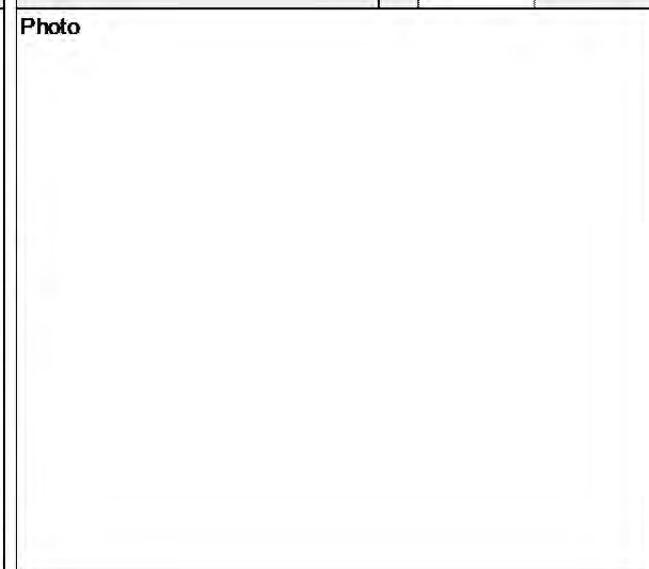


Region	Magway		Date	2015/5/19
Township	Magway		Reported by	Maruo
Village / ID	Thanbo(Ywarthit)	MG2-02	Coordinate (WGS84 UTM)	X
				Y

Information of Existing Water Source - 1				
Type	○ Deep Well	Coordinate	X	776115
	Shallow Well		Y	2216165
	Storage reservoir			
	Others			
Hydrogeological Information	Drilled Depth (m)	120.3	Sample ID	MG2-2-1
	Diameter (in)	4	Temperature (°C)	32.0
	S.W.L (m)	84	pH	7.16
	D.W.L (m)		EC (µs/cm)	1,494
	Yield (m ³ /hour)		Smell	Non
	No.of users (person/day)		Color	Non
	Supply facilities	Pump	Mn (mg/l)	<1
	Remarks (Lithology , etc.)		Results of Simplified Water Quality Test	
Slightly salty Borehole drilled in 1999 by SPDC.		Fe (mg/l)	<0.2	
		F (mg/l)	0.6	
		NO3- (mg/l)	3.0	
		NO2- (mg/l)	0.1	
		Coliforms		



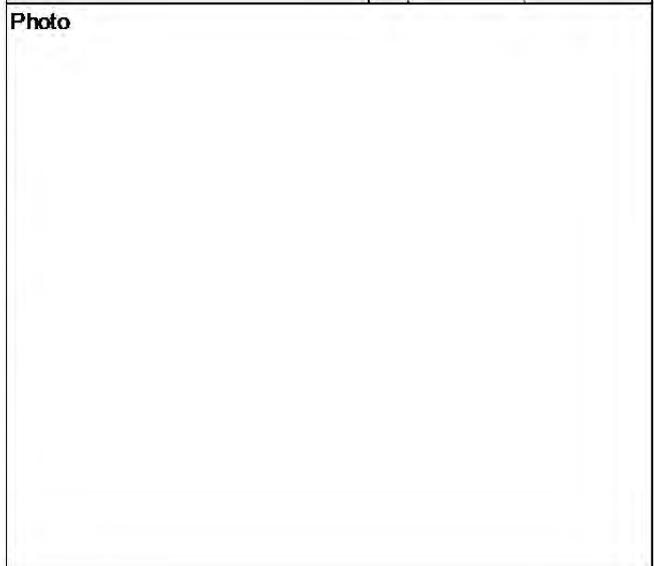
Information of Existing Water Source - 2				
Type	Deep Well	Coordinate	X	
	Shallow Well		Y	
	Storage reservoir			
	Others			
Hydrogeological Information	Drilled Depth (m)		Sample ID	
	Diameter (in)		Temperature (°C)	
	S.W.L (m)		pH	
	D.W.L (m)		EC (µs/cm)	
	Yield (m ³ /hour)		Smell	
	No.of users (person/day)		Color	
	Supply facilities		Mn (mg/l)	
	Remarks (Lithology , etc.)		Results of Simplified Water Quality Test	
		Fe (mg/l)		
		F (mg/l)		
		NO3- (mg/l)		
		NO2- (mg/l)		
		Coliforms		



Region	Magway		Date	2015/5/12
Township	Magway		Reported by	Maruo
Village / ID	Nyaungbinthar	MG2-03	Coordinate (WGS84 UTM)	X
			Y	

Information of Existing Water Source - 1				
Type	○ Deep Well	Coordinate	X	736944
	Shallow Well		Y	2243982
	Storage reservoir			
	Others			
Hydrogeological Information	Drilled Depth (m)	120	Sample ID	MG2-3-1
	Diameter (in)	4	Temperature (°C)	32.6
	S.W.L (m)	154	pH	7.30
	D.W.L (m)		EC (µs/cm)	1,067
	Yield (m ³ /hour)	6.4	Smell	Non
	No.of users (person/day)		Color	Non
	Supply facilities		Mn (mg/l)	<1
	Remarks (Lithology , etc.)		Fe (mg/l)	<0.02
		F (mg/l)	0.1	
		NO3- (mg/l)		
		NO2- (mg/l)	<0.02	
		Coliforms		

Information of Existing Water Source - 2				
Type	Deep Well	Coordinate	X	
	Shallow Well		Y	
	Storage reservoir			
	Others			
Hydrogeological Information	Drilled Depth (m)		Sample ID	
	Diameter (in)		Temperature (°C)	
	S.W.L (m)		pH	
	D.W.L (m)		EC (µs/cm)	
	Yield (m ³ /hour)		Smell	
	No.of users (person/day)		Color	
	Supply facilities		Mn (mg/l)	
	Remarks (Lithology , etc.)		Fe (mg/l)	
		F (mg/l)		
		NO3- (mg/l)		
		NO2- (mg/l)		
		Coliforms		

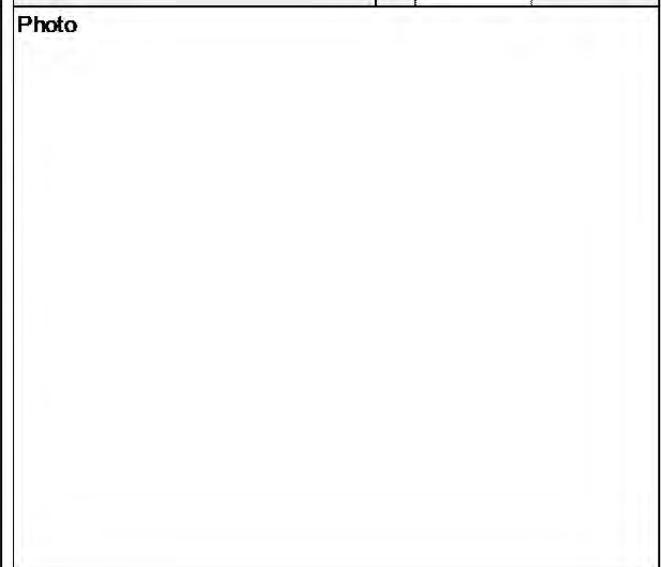


Region	Magway		Date	2015/5/15
Township	Magway		Reported by	Maruo
Village / ID	Konegyi	MG2-04	Coordinate (WGS84 UTM)	X
			Y	

Information of Existing Water Source - 1				
Type	○ Deep Well	Coordinate	X	718611
	Shallow Well		Y	2237657
	Storage reservoir			
	Others			
Hydrogeological Information	Drilled Depth (m)	220	Sample ID	MG2-4-1
	Diameter (in)	6	Temperature (°C)	33.0
	S.W.L (m)	134	pH	7.11
	D.W.L (m)		EC (µs/cm)	1,010
	Yield (m ³ /hour)	9.1	Smell	Slightly iron
	No.of users (person/day)		Color	Non
	Supply facilities	Mono pump	Mn (mg/l)	<1
	Remarks (Lithology , etc.) Drilled originally in 1978 Repaired in 2004. Again in 2014 by BAJ.		Fe (mg/l)	0.3
F (mg/l)			0.3	
NO3- (mg/l)			<1	
NO2- (mg/l)			<0.02	
Coliforms				



Information of Existing Water Source - 2				
Type	Deep Well	Coordinate	X	
	Shallow Well		Y	
	Storage reservoir			
	Others			
Hydrogeological Information	Drilled Depth (m)		Sample ID	
	Diameter (in)		Temperature (°C)	
	S.W.L (m)		pH	
	D.W.L (m)		EC (µs/cm)	
	Yield (m ³ /hour)		Smell	
	No.of users (person/day)		Color	
	Supply facilities		Mn (mg/l)	
	Remarks (Lithology , etc.)		Fe (mg/l)	
F (mg/l)				
NO3- (mg/l)				
NO2- (mg/l)				
Coliforms				

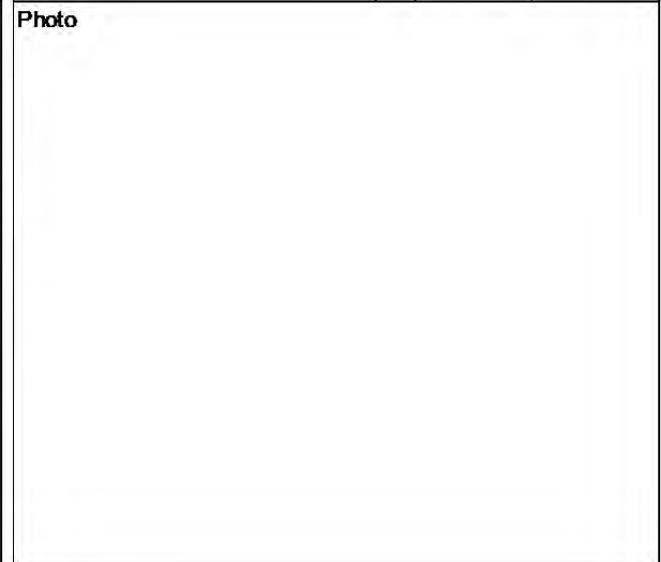


Region	Magway		Date	2015/5/16
Township	Magway		Reported by	Maruo
Village / ID	Sainggya	MG2-05	Coordinate (WGS84 UTM)	X
			Y	

Information of Existing Water Source - 1				
Type	<input type="radio"/> Deep Well	Coordinate	X	725131
	<input type="radio"/> Shallow Well		Y	2213520
	<input type="radio"/> Storage reservoir			
	<input type="radio"/> Others			
Hydrogeological Information	Drilled Depth (m)	200	Sample ID	MG2-5-1
	Diameter (in)	4	Temperature (°C)	33.4
	S.W.L (m)	153	pH	7.23
	D.W.L (m)		EC (µs/cm)	1,460
	Yield (m ³ /hour)	5.5	Smell	Slightly iron
	No.of users (person/day)		Color	Non
	Supply facilities		Mn (mg/l)	<1
	Remarks (Lithology , etc.)		Results of Simplified Water Quality Test	
BAJ replaced Mono pump Bore hole drilled in 1985 by WRUD.		Fe (mg/l)	0.7	
		F (mg/l)	0.3	
		NO3- (mg/l)	<1	
		NO2- (mg/l)	<0.02	
		Coliforms		



Information of Existing Water Source - 2				
Type	<input type="radio"/> Deep Well	Coordinate	X	
	<input type="radio"/> Shallow Well		Y	
	<input type="radio"/> Storage reservoir			
	<input type="radio"/> Others			
Hydrogeological Information	Drilled Depth (m)		Sample ID	
	Diameter (in)		Temperature (°C)	
	S.W.L (m)		pH	
	D.W.L (m)		EC (µs/cm)	
	Yield (m ³ /hour)		Smell	
	No.of users (person/day)		Color	
	Supply facilities		Mn (mg/l)	
	Remarks (Lithology , etc.)		Results of Simplified Water Quality Test	
		Fe (mg/l)		
		F (mg/l)		
		NO3- (mg/l)		
		NO2- (mg/l)		
		Coliforms		

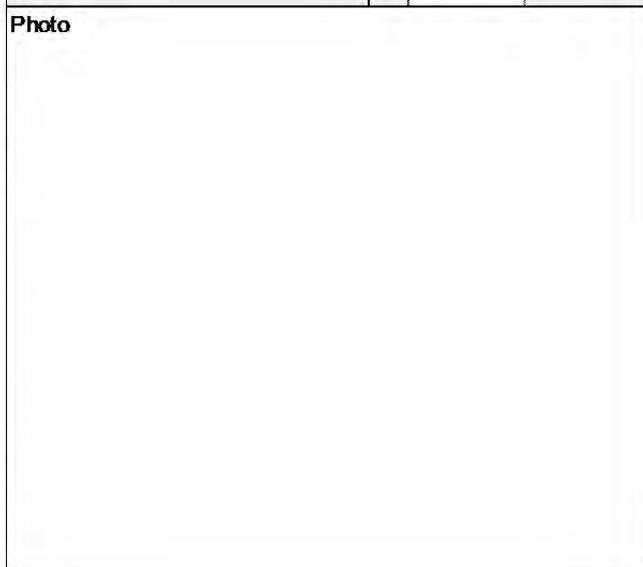


Region	Magway		Date	2015/5/15
Township	Magway		Reported by	Maruo
Village / ID	Thapyaysan(N)	MG2-06	Coordinate (WGS84 UTM)	X
			Y	

Information of Existing Water Source - 1				
Type	○ Deep Well	Coordinate	X	712184
	Shallow Well		Y	2227130
	Storage reservoir			
	Others			
Hydrogeological Information	Drilled Depth (m)	189	Sample ID	MG2-6-1
	Diameter (in)	6	Temperature (°C)	35.5
	S.W.L (m)	97	pH	7.32
	D.W.L (m)		EC (µs/cm)	1,108
	Yield (m ³ /hour)	9.1	Smell	Slightly iron
	No.of users (person/day)		Color	Non
	Supply facilities		Mn (mg/l)	<1
	Remarks (Lithology , etc.)	Results of Simplified Water Quality Test		Fe (mg/l)
Chinese generator with MONO 640-A- Pump	F (mg/l)			0.5
	NO3- (mg/l)			2.0
	NO2- (mg/l)			<0.02
	Coliforms			



Information of Existing Water Source - 2				
Type	Deep Well	Coordinate	X	
	Shallow Well		Y	
	Storage reservoir			
	Others			
Hydrogeological Information	Drilled Depth (m)		Sample ID	
	Diameter (in)		Temperature (°C)	
	S.W.L (m)		pH	
	D.W.L (m)		EC (µs/cm)	
	Yield (m ³ /hour)		Smell	
	No.of users (person/day)		Color	
	Supply facilities		Mn (mg/l)	
	Remarks (Lithology , etc.)	Results of Simplified Water Quality Test		Fe (mg/l)
	F (mg/l)			
	NO3- (mg/l)			
	NO2- (mg/l)			
	Coliforms			



Region	Magway		Date	2015/5/16
Township	Magway		Reported by	Maruo
Village / ID	Shwekyaw	MG2-07	Coordinate (WGS84 UTM)	X
			Y	

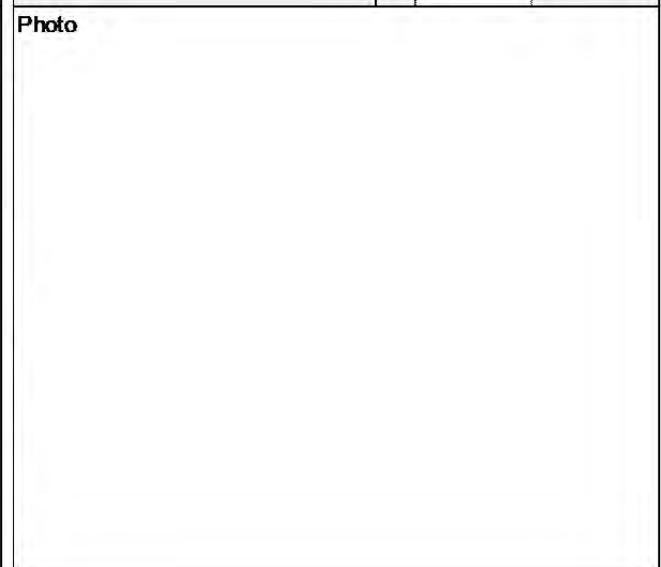
Information of Existing Water Source - 1					Information of Existing Water Source - 2						
Type	○ Deep Well		Coordinate	X	733928	Type	Deep Well		Coordinate	X	
	Shallow Well			Y	2207547		Shallow Well			Y	
	Storage reservoir						Storage reservoir				
	Others						Others				
Hydrogeological Information	Drilled Depth (m)	198	Results of Simplified Water Quality Test	Sample ID	MG2-7-1	Hydrogeological Information	Drilled Depth (m)		Results of Simplified Water Quality Test	Sample ID	
	Diameter (in)	4		Temperature (°C)	33.7		Diameter (in)			Temperature (°C)	
	S.W.L (m)	82		pH	7.57		S.W.L (m)			pH	
	D.W.L (m)			EC (µs/cm)	1,352		D.W.L (m)			EC (µs/cm)	
	Yield (m ³ /hour)	6.8		Smell	Non		Yield (m ³ /hour)			Smell	
	No.of users (person/day)			Color	Non		No.of users (person/day)			Color	
	Supply facilities			Mn (mg/l)	<1		Supply facilities			Mn (mg/l)	
	Remarks (Lithology , etc.)			Fe (mg/l)	0.2		Remarks (Lithology , etc.)			Fe (mg/l)	
Tunk is sealed - Water analysis from the tunk. UNICEF constructed in1986.		F (mg/l)	0.6			F (mg/l)					
		NO3- (mg/l)	<1			NO3- (mg/l)					
		NO2- (mg/l)	<0.02			NO2- (mg/l)					
		Coliforms				Coliforms					
Photo					Photo						

Region	Magway		Date	2015/5/12
Township	Magway		Reported by	Maruo
Village / ID	Leikkan	MG2-08	Coordinate (WGS84 UTM)	X
			Y	

Information of Existing Water Source - 1					
Type	<input type="radio"/> Deep Well	Coordinate	X	726925	
	<input type="radio"/> Shallow Well		Y	2239707	
	<input type="radio"/> Storage reservoir				
	<input type="radio"/> Others				
Hydrogeological Information	Drilled Depth (m)	114	Results of Simplified Water Quality Test	Sample ID	MG2-8-1
	Diameter (in)	6		Temperature (°C)	31.8
	S.W.L (m)			pH	7.0
	D.W.L (m)			EC (µs/cm)	872
	Yield (m³/hour)	5.9		Smell	Slightly iron
	No.of users (person/day)			Color	Non
	Supply facilities	Pump		Mn (mg/l)	<1
	Remarks (Lithology , etc.)			Fe (mg/l)	0.3
Drilled by WRUD in 1981 BAJ cleaned element of MONO pump Villagers replaced generator 2014		F (mg/l)	0.2		
		NO3- (mg/l)			
		NO2- (mg/l)	<0.02		
		Coliforms			



Information of Existing Water Source - 2					
Type	<input type="radio"/> Deep Well	Coordinate	X		
	<input type="radio"/> Shallow Well		Y		
	<input type="radio"/> Storage reservoir				
	<input type="radio"/> Others				
Hydrogeological Information	Drilled Depth (m)		Results of Simplified Water Quality Test	Sample ID	
	Diameter (in)			Temperature (°C)	
	S.W.L (m)			pH	
	D.W.L (m)			EC (µs/cm)	
	Yield (m³/hour)			Smell	
	No.of users (person/day)			Color	
	Supply facilities			Mn (mg/l)	
	Remarks (Lithology , etc.)			Fe (mg/l)	
		F (mg/l)			
		NO3- (mg/l)			
		NO2- (mg/l)			
		Coliforms			

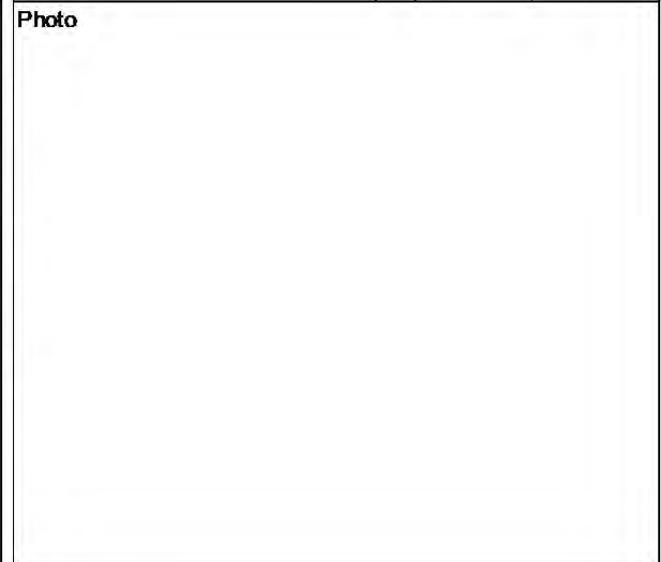


Region	Magway		Date	2015/5/15
Township	Magway		Reported by	Maruo
Village / ID	Ywarthitgyi	MG2-09	Coordinate (WGS84 UTM)	X
			Y	

Information of Existing Water Source - 1					
Type	○ Deep Well	Coordinate	X	722084	
	Shallow Well		Y	2237682	
	Storage reservoir				
	Others				
Hydrogeological Information	Drilled Depth (m)	177	Results of Simplified Water Quality Test	Sample ID	MG2-9-1
	Diameter (in)			Temperature (°C)	32.2
	S.W.L (m)	104		pH	7.04
	D.W.L (m)			EC (µs/cm)	805
	Yield (m³/hour)	6.8		Smell	Non
	No.of users (person/day)			Color	Non
	Supply facilities			Mn (mg/l)	<1
	Remarks (Lithology , etc.)			Fe (mg/l)	<0.2
Drilled in 2010 by SPDC. Chinese engine with Mono pump SPDC : State peace and Development Council.			F (mg/l)	0.1	
			NO3- (mg/l)	<1	
			NO2- (mg/l)	<0.02	
			Coliforms		



Information of Existing Water Source - 2					
Type	Deep Well	Coordinate	X		
	Shallow Well		Y		
	Storage reservoir				
	Others				
Hydrogeological Information	Drilled Depth (m)		Results of Simplified Water Quality Test	Sample ID	
	Diameter (in)			Temperature (°C)	
	S.W.L (m)			pH	
	D.W.L (m)			EC (µs/cm)	
	Yield (m³/hour)			Smell	
	No.of users (person/day)			Color	
	Supply facilities			Mn (mg/l)	
	Remarks (Lithology , etc.)			Fe (mg/l)	
			F (mg/l)		
			NO3- (mg/l)		
			NO2- (mg/l)		
			Coliforms		

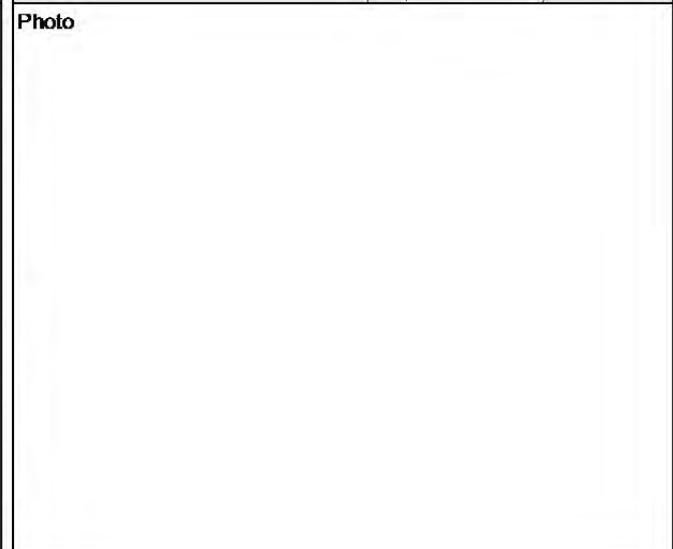


Region	Magway		Date	2015/5/20
Township	Chauk		Reported by	Maruo
Village / ID	Kanyaygyi	MG2-10	Coordinate (WGS84 UTM)	X
			Y	

Information of Existing Water Sauce - 1				
Type	○ Deep Well	Coordinate	X	702708
	Shallow Well		Y	2281908
	Storage reservoir			
	Others			
Hydrogeological Information	Drilled Depth (m)	327	Sample ID	MG2-10-1
	Diameter (in)	4		
	S.W.L (m)	210		
	D.W.L (m)			
	Yield (m³/hour)	4.1		
	No.of users (person/day)			
	Supply facilities			
	Remarks (Lithology , etc.)	Originally drilled by WRUD in 1981. BAJ replaced elements of MONO pump in 2007.		
Results of Simplified Water Quality Test		Temperature (°C)	29.4	
		pH	7.37	
		EC (µs/cm)	1,013	
		Smell	Iron smell	
		Color	Non	
		Mn (mg/l)	<1	
		Fe (mg/l)	2	
		F (mg/l)	0.8	
Results of Simplified Water Quality Test		NO3- (mg/l)	<1	
		NO2- (mg/l)	<0.02	
		Coliforms		



Information of Existing Water Sauce - 2				
Type	Deep Well	Coordinate	X	
	Shallow Well		Y	
	Storage reservoir			
	Others			
Hydrogeological Information	Drilled Depth (m)		Sample ID	
	Diameter (in)			
	S.W.L (m)			
	D.W.L (m)			
	Yield (m³/hour)			
	No.of users (person/day)			
	Supply facilities			
	Remarks (Lithology , etc.)			
Results of Simplified Water Quality Test		Temperature (°C)		
		pH		
		EC (µs/cm)		
		Smell		
		Color		
		Mn (mg/l)		
		Fe (mg/l)		
		F (mg/l)		
Results of Simplified Water Quality Test		NO3- (mg/l)		
		NO2- (mg/l)		
		Coliforms		



Region	Magway		Date	2015/5/20
Township	Chauk		Reported by	Maruo
Village / ID	Myaysoon(Ywarthit)	MG2-11	Coordinate (WGS84 UTM)	X
			Y	

Information of Existing Water Source - 1				
Type	○ Deep Well	Coordinate	X	699118
	Shallow Well		Y	2278070
	Storage reservoir			
	Others			
Hydrogeological Information	Drilled Depth (m)	259	Sample ID	MG2-11-1
	Diameter (in)		Temperature (°C)	31.6
	S.W.L (m)		pH	7.42
	D.W.L (m)		EC (µs/cm)	1,109
	Yield (m ³ /hour)	6.8	Smell	Iron smell
	No.of users (person/day)		Color	Non
	Supply facilities		Mn (mg/l)	<1
	Remarks (Lithology , etc.)	Results of Simplified Water Quality Test		Fe (mg/l)
Myaysoon(W) is 1.5mle from Myaysoon (Ywarthit). Chinese engin and Mono pump drilled in 1971 by WRUD. To lift water by pump it takes 10 minutes.	F (mg/l)			1.2
	NO3- (mg/l)			<1
	NO2- (mg/l)			<0.02
	Coliforms			

Photo

Information of Existing Water Source - 2				
Type	Deep Well	Coordinate	X	
	Shallow Well		Y	
	Storage reservoir			
	Others			
Hydrogeological Information	Drilled Depth (m)		Sample ID	
	Diameter (in)		Temperature (°C)	
	S.W.L (m)		pH	
	D.W.L (m)		EC (µs/cm)	
	Yield (m ³ /hour)		Smell	
	No.of users (person/day)		Color	
	Supply facilities		Mn (mg/l)	
	Remarks (Lithology , etc.)	Results of Simplified Water Quality Test		Fe (mg/l)
	F (mg/l)			
	NO3- (mg/l)			
	NO2- (mg/l)			
	Coliforms			

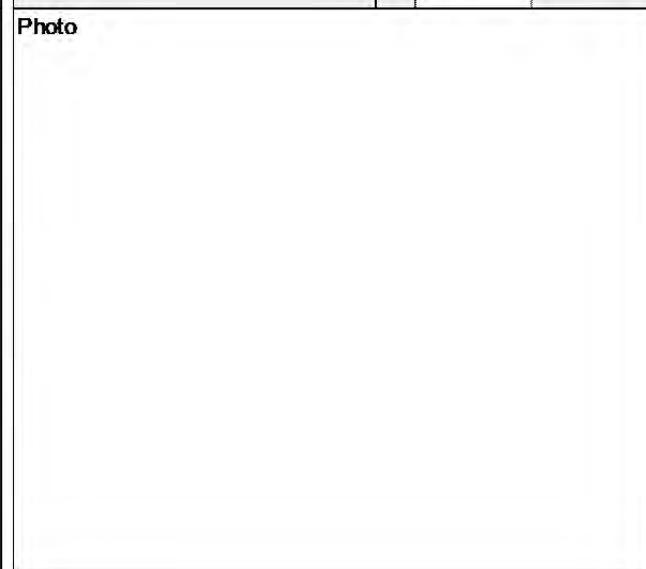
Photo

Region	Magway		Date	2015/5/20
Township	Chauk		Reported by	Maruo
Village / ID	Zeebwar	MG2-12	Coordinate (WGS84 UTM)	X
			Y	

Information of Existing Water Source - 1				
Type	○ Deep Well	Coordinate	X	711611
	Shallow Well		Y	2298972
	Storage reservoir			
	Others			
Hydrogeological Information	Drilled Depth (m)	152	Sample ID	MG2-12-1
	Diameter (in)	4	Temperature (°C)	28.2
	S.W.L (m)		pH	7.86
	D.W.L (m)		EC (µs/cm)	1,409
	Yield (m ³ /hour)	7.3	Smell	Non
	No.of users (person/day)		Color	Non
	Supply facilities		Mn (mg/l)	<1
	Remarks (Lithology , etc.)	Results of Simplified Water Quality Test		Fe (mg/l)
Existing well owned by a Monastery	F (mg/l)			2
High fluoride	NO3- (mg/l)			1
Electrified submersible pump.	NO2- (mg/l)			<0.02
	Coliforms			



Information of Existing Water Source - 2				
Type	Deep Well	Coordinate	X	
	Shallow Well		Y	
	Storage reservoir			
	Others			
Hydrogeological Information	Drilled Depth (m)		Sample ID	
	Diameter (in)		Temperature (°C)	
	S.W.L (m)		pH	
	D.W.L (m)		EC (µs/cm)	
	Yield (m ³ /hour)		Smell	
	No.of users (person/day)		Color	
	Supply facilities		Mn (mg/l)	
	Remarks (Lithology , etc.)	Results of Simplified Water Quality Test		Fe (mg/l)
	F (mg/l)			
	NO3- (mg/l)			
	NO2- (mg/l)			
	Coliforms			

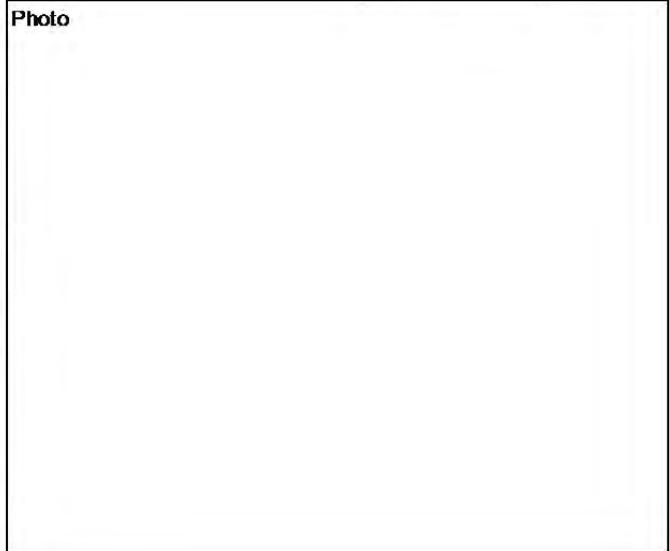


Region	Magway		Date	2015/5/21
Township	Chauk		Reported by	Maruo
Village / ID	Yarpyay	MG2-13	Coordinate (WGS84 UTM)	X
			Y	

Information of Existing Water Sauce - 1					
Type	○ Deep Well		Coordinate	X	690042
	Shallow Well			Y	2301200
	Storage reservoir				
	Others				
Hydrogeological Information	Drilled Depth (m)	148	Results of Simplified Water Quality Test	Sample ID	MG2-13-1
	Diameter (in)	6		Temperature (°C)	31.8
	S.W.L (m)			pH	7.42
	D.W.L (m)			EC (µs/cm)	2,150
	Yield (m³/hour)	4.5		Smell	Iron smell
	No.of users (person/day)			Color	Non
	Supply facilities			Mn (mg/l)	<1
	Remarks (Lithology , etc.)			Fe (mg/l) 0.5	
Htaukshaykan village is next to the target village. Drilled in 1985 by WRUD.		F (mg/l) 0.1			
		NO3- (mg/l) <1			
		NO2- (mg/l) <0.02			
		Coliforms			



Information of Existing Water Sauce - 2					
Type	Deep Well		Coordinate	X	
	Shallow Well			Y	
	Storage reservoir				
	Others				
Hydrogeological Information	Drilled Depth (m)		Results of Simplified Water Quality Test	Sample ID	
	Diameter (in)			Temperature (°C)	
	S.W.L (m)			pH	
	D.W.L (m)			EC (µs/cm)	
	Yield (m³/hour)			Smell	
	No.of users (person/day)			Color	
	Supply facilities			Mn (mg/l)	
	Remarks (Lithology , etc.)			Fe (mg/l)	
		F (mg/l)			
		NO3- (mg/l)			
		NO2- (mg/l)			
		Coliforms			



Region	Magway		Date	2015/5/21
Township	Chauk		Reported by	Maruo
Village / ID	Kyatesu(N)	MG2-14	Coordinate (WGS84 UTM)	X
				Y

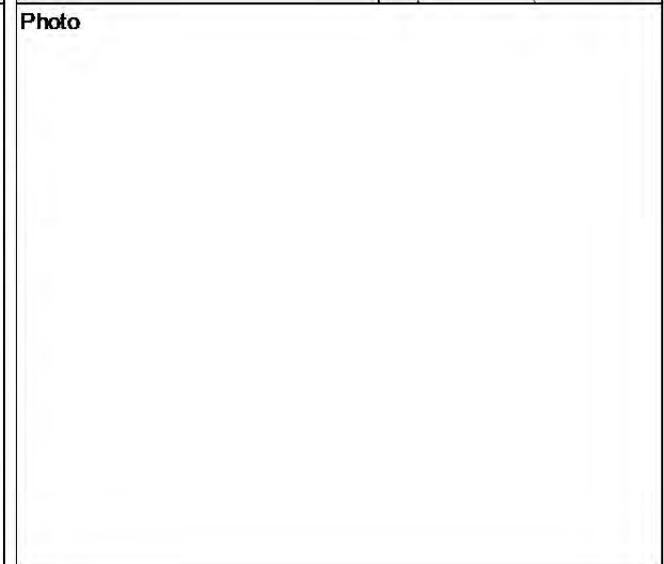
Information of Existing Water Source - 1					Information of Existing Water Source - 2						
Type	○ Deep Well		Coordinate	X	665497	Type	Deep Well		Coordinate	X	
	Shallow Well			Y	2292703		Shallow Well			Y	
	Storage reservoir						Storage reservoir				
	Others						Others				
Hydrogeological Information	Drilled Depth (m)	67	Results of Simplified Water Quality Test	Sample ID	MG2-14-1	Hydrogeological Information	Drilled Depth (m)		Results of Simplified Water Quality Test	Sample ID	
	Diameter (in)	2		Temperature (°C)	37.8		Diameter (in)			Temperature (°C)	
	S.W.L (m)			pH	8.15		S.W.L (m)			pH	
	D.W.L (m)			EC (µs/cm)	3,090		D.W.L (m)			EC (µs/cm)	
	Yield (m³/hour)	3.4		Smell	Non		Yield (m³/hour)			Smell	
	No.of users (person/day)			Color	Non		No.of users (person/day)			Color	
	Supply facilities			Mn (mg/l)	<1		Supply facilities			Mn (mg/l)	
	Remarks (Lithology , etc.)			Fe (mg/l)	<0.2		Remarks (Lithology , etc.)			Fe (mg/l)	
Private tube well - salty water Compressor well - water is always hot.		F (mg/l)	0			F (mg/l)					
		NO3- (mg/l)	1			NO3- (mg/l)					
		NO2- (mg/l)	<0.02			NO2- (mg/l)					
		Coliforms				Coliforms					
Photo					Photo						
											

Region	Magway		Date	2015/5/21
Township	Chauk		Reported by	Maruo
Village / ID	Winkabar	MG2-15	Coordinate (WGS84 UTM)	X
			Y	

Information of Existing Water Source - 1				
Type	○ Deep Well	Coordinate	X	684440
	Shallow Well		Y	2287209
	Storage reservoir			
	Others			
Hydrogeological Information	Drilled Depth (m)	110	Sample ID	MG2-15-1
	Diameter (in)	4	Temperature (°C)	30.5
	S.W.L (m)	30	pH	8.37
	D.W.L (m)		EC (µs/cm)	703
	Yield (m ³ /hour)	4.1	Smell	Non
	No.of users (person/day)		Color	Non
	Supply facilities	Compressor	Mn (mg/l)	<1
	Remarks (Lithology , etc.)	Compressor well drilled in 2015 by regional government.		
		Results of Simplified Water Quality Test	Fe (mg/l)	<0.2
			F (mg/l)	0.2
			NO3- (mg/l)	1.5
			NO2- (mg/l)	0.1
			Coliforms	



Information of Existing Water Source - 2				
Type	Deep Well	Coordinate	X	
	Shallow Well		Y	
	Storage reservoir			
	Others			
Hydrogeological Information	Drilled Depth (m)		Sample ID	
	Diameter (in)		Temperature (°C)	
	S.W.L (m)		pH	
	D.W.L (m)		EC (µs/cm)	
	Yield (m ³ /hour)		Smell	
	No.of users (person/day)		Color	
	Supply facilities		Mn (mg/l)	
	Remarks (Lithology , etc.)			
		Results of Simplified Water Quality Test	Fe (mg/l)	
			F (mg/l)	
			NO3- (mg/l)	
			NO2- (mg/l)	
			Coliforms	

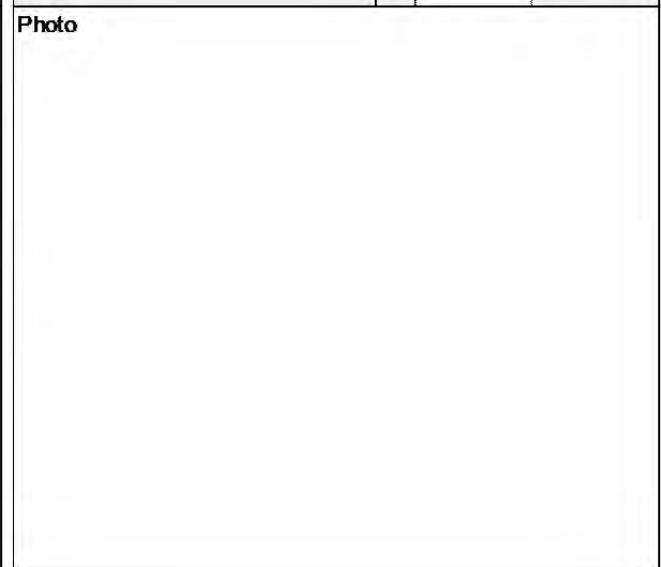


Region	Magway		Date	2015/5/21
Township	Chauk		Reported by	Maruo
Village / ID	Kyatkan	MG2-16	Coordinate (WGS84 UTM)	X
			Y	

Information of Existing Water Source - 1				
Type	○ Deep Well	Coordinate	X	690394
	Shallow Well		Y	2296166
	Storage reservoir			
	Others			
Hydrogeological Information	Drilled Depth (m)	171	Sample ID	MG2-16-1
	Diameter (in)		Temperature (°C)	40.2
	S.W.L (m)		pH	8.50
	D.W.L (m)		EC (µs/cm)	1,571
	Yield (m ³ /hour)	1.4	Smell	Oilly smell
	No.of users (person/day)		Color	Non
	Supply facilities		Mn (mg/l)	<1
	Remarks (Lithology , etc.) Existing well just by a pond at the edge of the village.	Results of Simplified Water Quality Test		Fe (mg/l)
F (mg/l)				0.3
NO3- (mg/l)				<1
NO2- (mg/l)				<0.02
Coliforms				



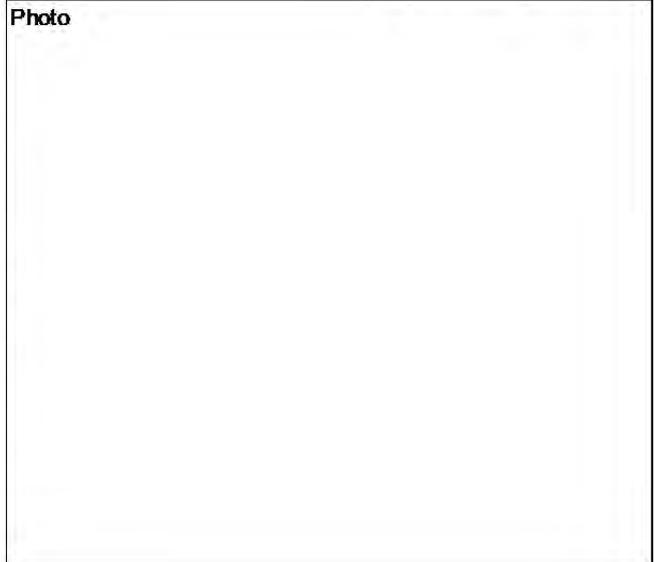
Information of Existing Water Source - 2				
Type	Deep Well	Coordinate	X	
	Shallow Well		Y	
	Storage reservoir			
	Others			
Hydrogeological Information	Drilled Depth (m)		Sample ID	
	Diameter (in)		Temperature (°C)	
	S.W.L (m)		pH	
	D.W.L (m)		EC (µs/cm)	
	Yield (m ³ /hour)		Smell	
	No.of users (person/day)		Color	
	Supply facilities		Mn (mg/l)	
	Remarks (Lithology , etc.)	Results of Simplified Water Quality Test		Fe (mg/l)
F (mg/l)				
NO3- (mg/l)				
NO2- (mg/l)				
Coliforms				



Region	Magway		Date	2015/5/20
Township	Chauk		Reported by	Maruo
Village / ID	Sudat	MG2-17	Coordinate (WGS84 UTM)	X
			Y	

Information of Existing Water Source - 1						
Type	○ Deep Well	Coordinate	X	707065		
	Shallow Well		Y	2285476		
	Storage reservoir					
	Others					
Hydrogeological Information	Drilled Depth (m)	365	Sample ID	MG2-17-1		
	Diameter (in)	4	Temperature (°C)	29.5		
	S.W.L (m)	262	pH	7.32		
	D.W.L (m)		EC (µs/cm)	1,089		
	Yield (m ³ /hour)	6.8	Smell	Non		
	No.of users (person/day)		Color	Non		
	Supply facilities		Mn (mg/l)	<1		
	Remarks (Lithology , etc.)	Results of Simplified Water Quality Test				
Mono pump - Electricity powered. Gwaypin(DRD-001) is next to the target Village.						
	Fe (mg/l)					<0.2
	F (mg/l)					0.2
	NO3- (mg/l)					1
	NO2- (mg/l)					0.05
	Coliforms					

Information of Existing Water Source - 2						
Type	Deep Well	Coordinate	X			
	Shallow Well		Y			
	Storage reservoir					
	Others					
Hydrogeological Information	Drilled Depth (m)		Sample ID			
	Diameter (in)		Temperature (°C)			
	S.W.L (m)		pH			
	D.W.L (m)		EC (µs/cm)			
	Yield (m ³ /hour)		Smell			
	No.of users (person/day)		Color			
	Supply facilities		Mn (mg/l)			
	Remarks (Lithology , etc.)	Results of Simplified Water Quality Test				
	Fe (mg/l)					
	F (mg/l)					
	NO3- (mg/l)					
	NO2- (mg/l)					
	Coliforms					



Region	Magway		Date	
Township	Chauk		Reported by	Maruo
Village / ID	Myaynilain	MG2-18	Coordinate (WGS84 UTM)	X
			Y	

Information of Existing Water Source - 1				
Type	Deep Well	Coordinate	X	698834
	Shallow Well		Y	2287047
	Storage reservoir			
	Others			
Hydrogeological Information	Drilled Depth (m)	244	Sample ID	MG2-18
	Diameter (in)	4	Temperature (°C)	
	S.W.L (m)	146	pH	
	D.W.L (m)		EC (µs/cm)	
	Yield (m ³ /hour)	7.3	Smell	
	No.of users (person/day)		Color	
	Supply facilities		Mn (mg/l)	
	Remarks (Lithology , etc.)	Results of Simplified Water Quality Test		Fe (mg/l)
No tube well and no dug well.Nearest tube well at Nyaungzin village 3 miles far from target village by WRUD in 1981. Water quality is very good.	F (mg/l)			
	NO3- (mg/l)			
	NO2- (mg/l)			
	Coliforms			

Photo

Information of Existing Water Source - 2				
Type	Deep Well	Coordinate	X	
	Shallow Well		Y	
	Storage reservoir			
	Others			
Hydrogeological Information	Drilled Depth (m)		Sample ID	
	Diameter (in)		Temperature (°C)	
	S.W.L (m)		pH	
	D.W.L (m)		EC (µs/cm)	
	Yield (m ³ /hour)		Smell	
	No.of users (person/day)		Color	
	Supply facilities		Mn (mg/l)	
	Remarks (Lithology , etc.)	Results of Simplified Water Quality Test		Fe (mg/l)
	F (mg/l)			
	NO3- (mg/l)			
	NO2- (mg/l)			
	Coliforms			

Photo

Region	Magway		Date	2015/5/19
Township	Yenangyaung		Reported by	Maruo
Village / ID	Lelgyinyoe	MG2-19	Coordinate (WGS84 UTM)	X
			Y	

Information of Existing Water Sauce - 1					Information of Existing Water Sauce - 2						
Type	○ Deep Well		Coordinate	X	724077	Type	Deep Well		Coordinate	X	
	Shallow Well			Y	2266805		Shallow Well			Y	
	Storage reservoir						Storage reservoir				
	Others						Others				
Hydrogeological Information	Drilled Depth (m)	278	Results of Simplified Water Quality Test	Sample ID	MG2-19-1	Hydrogeological Information	Drilled Depth (m)		Results of Simplified Water Quality Test	Sample ID	
	Diameter (in)	4		Temperature (°C)	30.9		Diameter (in)			Temperature (°C)	
	S.W.L (m)	134		pH	6.82		S.W.L (m)			pH	
	D.W.L (m)			EC (µs/cm)	1,410		D.W.L (m)			EC (µs/cm)	
	Yield (m ³ /hour)	6.5		Smell	Non		Yield (m ³ /hour)			Smell	
	No.of users (person/day)			Color	Non		No.of users (person/day)			Color	
	Supply facilities			Mn (mg/l)	<1		Supply facilities			Mn (mg/l)	
	Remarks (Lithology , etc.)			Fe (mg/l)	<0.2		Remarks (Lithology , etc.)			Fe (mg/l)	
Water with sand Slightly salty Existing well drilled in 1981 by WRUD.		F (mg/l)	0.3			F (mg/l)					
		NO3- (mg/l)	1.5			NO3- (mg/l)					
		NO2- (mg/l)	<0.02			NO2- (mg/l)					
		Coliforms				Coliforms					
Photo					Photo						
											

Region	Magway		Date	2015/5/19
Township	Yenangyaung		Reported by	Maruo
Village / ID	Teipyinsakan	MG2-19	Coordinate (WGS84 UTM)	X
				Y

Information of Existing Water Source - 1						
Type	○ Deep Well	Coordinate	X	724896		
	Shallow Well		Y	2268094		
	Storage reservoir					
	Others					
Hydrogeological Information	Drilled Depth (m)	248	Sample ID	MG2-19-2		
	Diameter (in)	6	Temperature (°C)	31.1		
	S.W.L (m)	142	pH	6.50		
	D.W.L (m)	148	EC (µs/cm)	2,370		
	Yield (m ³ /hour)	10.2	Smell	Iron smell		
	No.of users (person/day)		Color	Non		
	Supply facilities		Mn (mg/l)	<1		
	Remarks (Lithology , etc.)	Results of Simplified Water Quality Test				
Next to Lelgyinyoe village . BAJ well - 2014						
	Fe (mg/l)					1.5
	F (mg/l)					1.0
	NO3- (mg/l)					<1
	NO2- (mg/l)					<0.02
	Coliforms					

Information of Existing Water Source - 2						
Type	Deep Well	Coordinate	X			
	Shallow Well		Y			
	Storage reservoir					
	Others					
Hydrogeological Information	Drilled Depth (m)		Sample ID			
	Diameter (in)		Temperature (°C)			
	S.W.L (m)		pH			
	D.W.L (m)		EC (µs/cm)			
	Yield (m ³ /hour)		Smell			
	No.of users (person/day)		Color			
	Supply facilities		Mn (mg/l)			
	Remarks (Lithology , etc.)	Results of Simplified Water Quality Test				
	Fe (mg/l)					
	F (mg/l)					
	NO3- (mg/l)					
	NO2- (mg/l)					
	Coliforms					



Region	Magway		Date	2015/5/8
Township	Myothit		Reported by	Maruo
Village / ID	Laytinesin(S)	MG2-20	Coordinate (WGS84 UTM)	X
				Y

Information of Existing Water Source - 1				
Type	○ Deep Well	Coordinate	X	732910
	Shallow Well		Y	2235168
	Storage reservoir			
	Others			
Hydrogeological Information	Drilled Depth (m)	200	Sample ID	MG2-20-1
	Diameter (in)	6	Temperature (°C)	31.6
	S.W.L (m)	110	pH	7.18
	D.W.L (m)		EC (µs/cm)	705
	Yield (m ³ /hour)	15.9	Smell	Slightly iron
	No.of users (person/day)		Color	Non
	Supply facilities		Mn (mg/l)	<0.02
	Remarks (Lithology , etc.)	Results of Simplified Water Quality Test		Fe (mg/l)
2003 - JICA Technical Cooperation drilled.	F (mg/l)			0.2
	NO3- (mg/l)			
	NO2- (mg/l)			<0.02
	Coliforms			

Photo

Information of Existing Water Source - 2				
Type	Deep Well	Coordinate	X	
	Shallow Well		Y	
	Storage reservoir			
	Others			
Hydrogeological Information	Drilled Depth (m)		Sample ID	
	Diameter (in)		Temperature (°C)	
	S.W.L (m)		pH	
	D.W.L (m)		EC (µs/cm)	
	Yield (m ³ /hour)		Smell	
	No.of users (person/day)		Color	
	Supply facilities		Mn (mg/l)	
	Remarks (Lithology , etc.)	Results of Simplified Water Quality Test		Fe (mg/l)
	F (mg/l)			
	NO3- (mg/l)			
	NO2- (mg/l)			
	Coliforms			

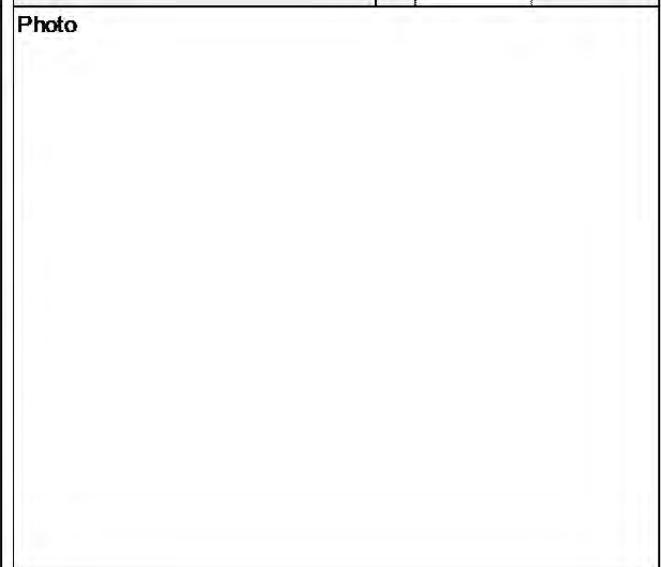
Photo

Region	Magway		Date	2015/5/10
Township	Myothit		Reported by	Maruo
Village / ID	Tharmyar	MG2-21	Coordinate (WGS84 UTM)	X
			Y	

Information of Existing Water Source - 1				
Type	○ Deep Well	Coordinate	X	736194
	Shallow Well		Y	2241244
	Storage reservoir			
	Others			
Hydrogeological Information	Drilled Depth (m)	198	Sample ID	MG2-21-1
	Diameter (in)		Temperature (°C)	32.1
	S.W.L (m)	119	pH	6.91
	D.W.L (m)		EC (µs/cm)	666
	Yield (m ³ /hour)	245.5	Smell	Non
	No.of users (person/day)		Color	Non
	Supply facilities	Pump	Mn (mg/l)	<0.02
	Remarks (Lithology , etc.)		Results of Simplified Water Quality Test	
Drilled in 2002 by JICA- working well.		Fe (mg/l)	<0.2	
		F (mg/l)	0.1	
		NO3- (mg/l)		
		NO2- (mg/l)	<0.02	
		Coliforms		



Information of Existing Water Source - 2				
Type	Deep Well	Coordinate	X	
	Shallow Well		Y	
	Storage reservoir			
	Others			
Hydrogeological Information	Drilled Depth (m)		Sample ID	
	Diameter (in)		Temperature (°C)	
	S.W.L (m)		pH	
	D.W.L (m)		EC (µs/cm)	
	Yield (m ³ /hour)		Smell	
	No.of users (person/day)		Color	
	Supply facilities		Mn (mg/l)	
	Remarks (Lithology , etc.)		Results of Simplified Water Quality Test	
		Fe (mg/l)		
		F (mg/l)		
		NO3- (mg/l)		
		NO2- (mg/l)		
		Coliforms		

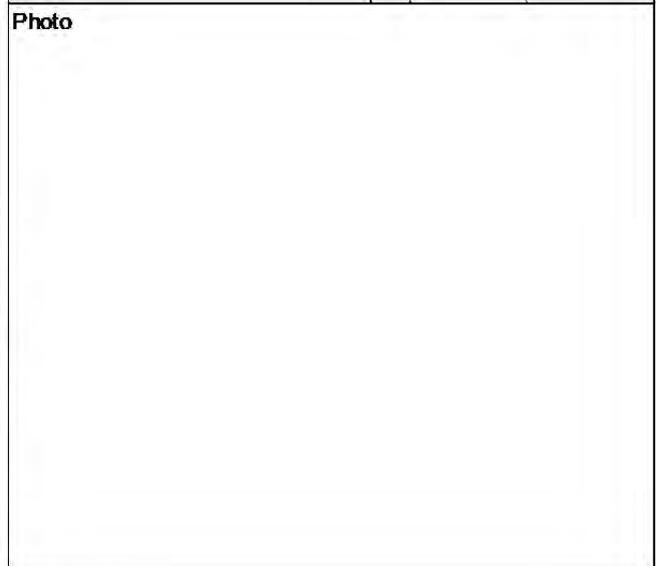


Region	Magway		Date	2015/5/8
Township	Myothit		Reported by	Maruo
Village / ID	Aungmyinthar	MG2-22	Coordinate (WGS84 UTM)	X
				Y

Information of Existing Water Source - 1					
Type	○ Deep Well		Coordinate	X	733075
	Shallow Well			Y	2231654
	Storage reservoir				
	Others				
Hydrogeological Information	Drilled Depth (m)	104	Results of Simplified Water Quality Test	Sample ID	MG2-22-1
	Diameter (in)	4		Temperature (°C)	36.6
	S.W.L (m)	55		pH	7.87
	D.W.L (m)			EC (µs/cm)	993
	Yield (m³/hour)	3.2		Smell	Non
	No.of users (person/day)			Color	Non
	Supply facilities			Mn (mg/l)	<0.02
	Remarks (Lithology , etc.) Drilled by WRUD in 1981 210 - House hold, 1150 - Populations.			Fe (mg/l)	<0.2
F (mg/l)			0.3		
NO3- (mg/l)					
NO2- (mg/l)			<0.02		
Coliforms					



Information of Existing Water Source - 2					
Type	Deep Well		Coordinate	X	
	Shallow Well			Y	
	Storage reservoir				
	Others				
Hydrogeological Information	Drilled Depth (m)		Results of Simplified Water Quality Test	Sample ID	
	Diameter (in)			Temperature (°C)	
	S.W.L (m)			pH	
	D.W.L (m)			EC (µs/cm)	
	Yield (m³/hour)			Smell	
	No.of users (person/day)			Color	
	Supply facilities			Mn (mg/l)	
	Remarks (Lithology , etc.)			Fe (mg/l)	
F (mg/l)					
NO3- (mg/l)					
NO2- (mg/l)					
Coliforms					

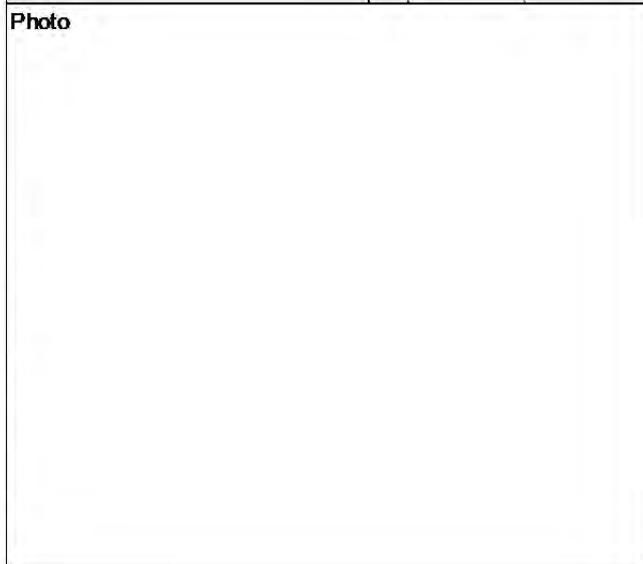


Region	Magway		Date	2015/5/9
Township	Myothit		Reported by	Maruo
Village / ID	Ngwelay	MG2-23	Coordinate (WGS84 UTM)	X
			Y	

Information of Existing Water Source - 1					
Type	○ Deep Well	Coordinate	X	738864	
	Shallow Well		Y	2222537	
	Storage reservoir				
	Others				
Hydrogeological Information	Drilled Depth (m)	116	Sample ID	MG2-23-1	
	Diameter (in)	4	Temperature (°C)	38.5	
	S.W.L (m)	52	pH	7.51	
	D.W.L (m)		EC (µs/cm)	863	
	Yield (m ³ /hour)	6.8	Smell	Non	
	No.of users (person/day)		Color	Non	
	Supply facilities		Mn (mg/l)	<0.02	
	Remarks (Lithology , etc.)	Results of Simplified Water Quality Test			
Drilled by WRUD in 1980. There is a new well at the edge of the village . Pump was broken and has been repaired.					
	Fe (mg/l)				<0.2
	F (mg/l)				0.3
	NO3- (mg/l)				
	NO2- (mg/l)	<0.02			
	Coliforms				



Information of Existing Water Source - 2					
Type	Deep Well	Coordinate	X		
	Shallow Well		Y		
	Storage reservoir				
	Others				
Hydrogeological Information	Drilled Depth (m)		Sample ID		
	Diameter (in)		Temperature (°C)		
	S.W.L (m)		pH		
	D.W.L (m)		EC (µs/cm)		
	Yield (m ³ /hour)		Smell		
	No.of users (person/day)		Color		
	Supply facilities		Mn (mg/l)		
	Remarks (Lithology , etc.)	Results of Simplified Water Quality Test			
	Fe (mg/l)				
	F (mg/l)				
	NO3- (mg/l)				
	NO2- (mg/l)				
	Coliforms				

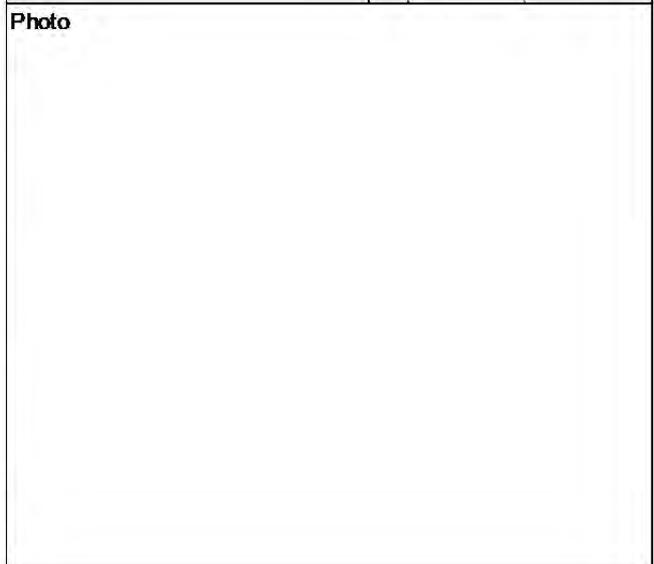


Region	Magway		Date	2015/5/9
Township	Myothit		Reported by	Maruo
Village / ID	Indaw(N)	MG2-24	Coordinate (WGS84 UTM)	X
			Y	

Information of Existing Water Source - 1				
Type	○ Deep Well	Coordinate	X	742446
	Shallow Well		Y	2229548
	Storage reservoir			
	Others			
Hydrogeological Information	Drilled Depth (m)	110	Sample ID	MG2-24-1
	Diameter (in)	2	Temperature (°C)	41.5
	S.W.L (m)		pH	8.13
	D.W.L (m)		EC (µs/cm)	928
	Yield (m ³ /hour)	3.6	Smell	Non
	No.of users (person/day)		Color	High turbidity
	Supply facilities		Mn (mg/l)	<0.02
	Remarks (Lithology , etc.) Air lifting well. Only one well in this village. Drilled by DDA in 2011.		Results of Simplified Water Quality Test	Fe (mg/l)
F (mg/l)				0.1
NO3- (mg/l)				
NO2- (mg/l)				<0.02
Coliforms				



Information of Existing Water Source - 2				
Type	Deep Well	Coordinate	X	
	Shallow Well		Y	
	Storage reservoir			
	Others			
Hydrogeological Information	Drilled Depth (m)		Sample ID	
	Diameter (in)		Temperature (°C)	
	S.W.L (m)		pH	
	D.W.L (m)		EC (µs/cm)	
	Yield (m ³ /hour)		Smell	
	No.of users (person/day)		Color	
	Supply facilities		Mn (mg/l)	
	Remarks (Lithology , etc.)		Results of Simplified Water Quality Test	Fe (mg/l)
F (mg/l)				
NO3- (mg/l)				
NO2- (mg/l)				
Coliforms				

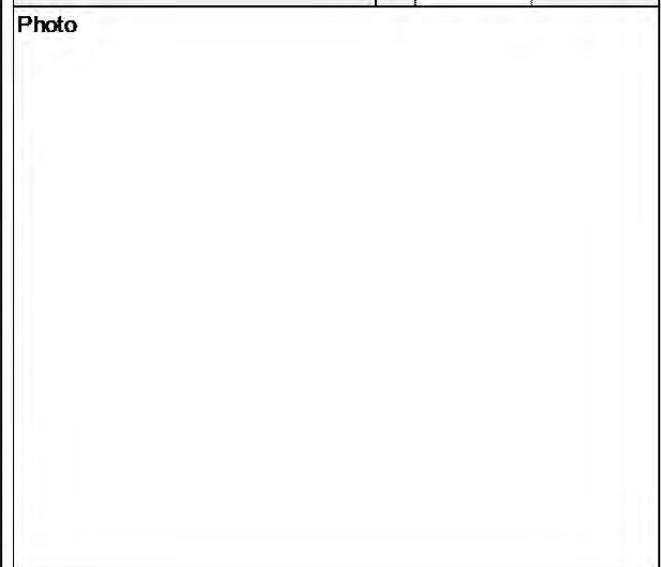


Region	Magway		Date	2015/5/9
Township	Myothit		Reported by	Maruo
Village / ID	Htanaungkwin	MG2-25	Coordinate (WGS84 UTM)	X
				Y

Information of Existing Water Source - 1				
Type	Deep Well	Coordinate	X	770840
	○ Shallow Well		Y	2225170
	Storage reservoir			
	Others			
Hydrogeological Information	Drilled Depth (m)	11	Sample ID	MG2-25-1
	Diameter (in)	2	Temperature (°C)	29.4
	S.W.L (m)	10	pH	7.34
	D.W.L (m)		EC (µs/cm)	1,085
	Yield (m ³ /hour)		Smell	Non
	No.of users (person/day)		Color	Non
	Supply facilities		Mn (mg/l)	<0.02
	Remarks (Lithology , etc.)	Results of Simplified Water Quality Test		Fe (mg/l)
Hand pump well near the Dam.	F (mg/l)			0.1
	NO3- (mg/l)			
	NO2- (mg/l)			<0.02
	Coliforms			



Information of Existing Water Source - 2				
Type	Deep Well	Coordinate	X	
	Shallow Well		Y	
	Storage reservoir			
	Others			
Hydrogeological Information	Drilled Depth (m)		Sample ID	
	Diameter (in)		Temperature (°C)	
	S.W.L (m)		pH	
	D.W.L (m)		EC (µs/cm)	
	Yield (m ³ /hour)		Smell	
	No.of users (person/day)		Color	
	Supply facilities		Mn (mg/l)	
	Remarks (Lithology , etc.)	Results of Simplified Water Quality Test		Fe (mg/l)
	F (mg/l)			
	NO3- (mg/l)			
	NO2- (mg/l)			
	Coliforms			



Region	Magway		Date	2015/5/9
Township	Myothit		Reported by	Maruo
Village / ID	Manawtgone	MG2-26	Coordinate (WGS84 UTM)	X
			Y	

Information of Existing Water Source - 1				
Type	○ Deep Well	Coordinate	X	732002
	Shallow Well		Y	2222325
	Storage reservoir			
	Others			
Hydrogeological Information	Drilled Depth (m)	128	Sample ID	MG2-26-1
	Diameter (in)	6	Temperature (°C)	32.0
	S.W.L (m)	24	pH	8.31
	D.W.L (m)		EC (µs/cm)	662
	Yield (m ³ /hour)	10.5	Smell	Non
	No.of users (person/day)		Color	Non
	Supply facilities		Mn (mg/l)	<0.02
	Remarks (Lithology , etc.)			Fe (mg/l)
F (mg/l)				0.1
NO3- (mg/l)				
NO2- (mg/l)				<0.02
Coliforms				
Results of Simplified Water Quality Test				

Information of Existing Water Source - 2				
Type	Deep Well	Coordinate	X	
	Shallow Well		Y	
	Storage reservoir			
	Others			
Hydrogeological Information	Drilled Depth (m)		Sample ID	
	Diameter (in)		Temperature (°C)	
	S.W.L (m)		pH	
	D.W.L (m)		EC (µs/cm)	
	Yield (m ³ /hour)		Smell	
	No.of users (person/day)		Color	
	Supply facilities		Mn (mg/l)	
	Remarks (Lithology , etc.)			Fe (mg/l)
F (mg/l)				
NO3- (mg/l)				
NO2- (mg/l)				
Coliforms				
Results of Simplified Water Quality Test				

Photo



Photo



Region	Magway		Date	
Township	Natmauk		Reported by	Maruo
Village / ID	Kangyigone	MG2-27	Coordinate (WGS84 UTM)	X
			Y	

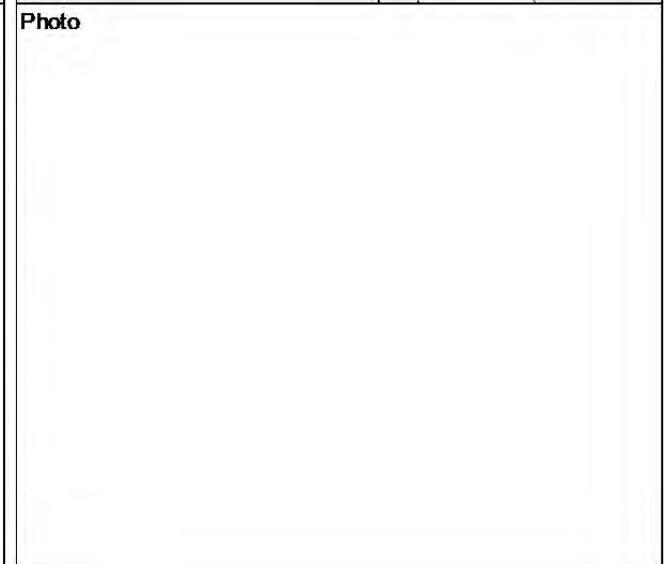
Information of Existing Water Source - 1					Information of Existing Water Source - 2				
Type	Deep Well	Coordinate	X	742461	Type	Deep Well	Coordinate	X	
	Shallow Well		Y	2259232		Shallow Well		Y	
	Storage reservoir					Storage reservoir			
	Others					Others			
Hydrogeological Information	Drilled Depth (m)	Results of Simplified Water Quality Test	Sample ID	MG2-27	Hydrogeological Information	Drilled Depth (m)	Results of Simplified Water Quality Test	Sample ID	
	Diameter (in)		Temperature (°C)			Diameter (in)		Temperature (°C)	
	S.W.L (m)		pH			S.W.L (m)		pH	
	D.W.L (m)		EC (µs/cm)			D.W.L (m)		EC (µs/cm)	
	Yield (m ³ /hour)		Smell			Yield (m ³ /hour)		Smell	
	No.of users (person/day)		Color			No.of users (person/day)		Color	
	Supply facilities		Mn (mg/l)			Supply facilities		Mn (mg/l)	
	Remarks (Lithology , etc.)		Fe (mg/l)			Remarks (Lithology , etc.)		Fe (mg/l)	
People get water from the river bed dug well.	F (mg/l)			F (mg/l)					
	NO3- (mg/l)			NO3- (mg/l)					
	NO2- (mg/l)			NO2- (mg/l)					
	Coliforms			Coliforms					
Photo					Photo				

Region	Magway		Date	2015/5/11
Township	Natmauk		Reported by	Maruo
Village / ID	Htonepoutchine	MG2-28	Coordinate (WGS84 UTM)	X
			Y	

Information of Existing Water Source - 1					
Type	Deep Well	Coordinate	X	730959	
	Shallow Well		Y	2255652	
	Storage reservoir				
	○ Others(Dug Well)				
Hydrogeological Information	Drilled Depth (m)	Results of Simplified Water Quality Test	Sample ID	MG2-28-1	
	Diameter (in)		Temperature (°C)	31.3	
	S.W.L (m)		pH	7.58	
	D.W.L (m)		EC (µs/cm)	868	
	Yield (m ³ /hour)		Smell	Non	
	No.of users (person/day)		Color		
	Supply facilities		Pump	Mn (mg/l)	<0.02
	Remarks (Lithology , etc.)		Fe (mg/l)	<0.2	
	F (mg/l)	0.6			
	NO3- (mg/l)				
	NO2- (mg/l)	0.05			
	Coliforms	35			



Information of Existing Water Source - 2				
Type	Deep Well	Coordinate	X	
	Shallow Well		Y	
	Storage reservoir			
	Others			
Hydrogeological Information	Drilled Depth (m)	Results of Simplified Water Quality Test	Sample ID	
	Diameter (in)		Temperature (°C)	
	S.W.L (m)		pH	
	D.W.L (m)		EC (µs/cm)	
	Yield (m ³ /hour)		Smell	
	No.of users (person/day)		Color	
	Supply facilities		Mn (mg/l)	
	Remarks (Lithology , etc.)		Fe (mg/l)	
	F (mg/l)			
	NO3- (mg/l)			
	NO2- (mg/l)			
	Coliforms			

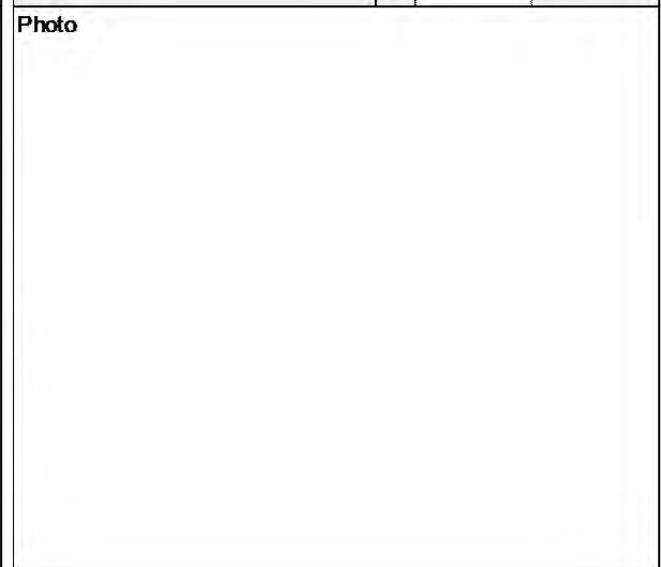


Region	Magway		Date	2015/5/11
Township	Natmauk		Reported by	Maruo
Village / ID	Satkyattaung (Monastery)	MG2-28	Coordinate (WGS84 UTM)	X
				Y

Information of Existing Water Source - 1				
Type	○ Deep Well		X	731705
	Shallow Well		Y	2255329
	Storage reservoir			
	Others			
Hydrogeological Information	Drilled Depth (m)	106.6	Sample ID	MG2-28-2
	Diameter (in)	2	Temperature (°C)	33.3
	S.W.L (m)		pH	8.21
	D.W.L (m)		EC (µs/cm)	701
	Yield (m ³ /hour)		Smell	Non
	No.of users (person/day)		Color	Non
	Supply facilities	Compressor	Mn (mg/l)	<0.02
	Remarks (Lithology , etc.) It drill more than 500ft, water became salty. This village is next to the target village.		Results of Simplified Water Quality Test	
Fe (mg/l)			0.7	
F (mg/l)			0	
NO3- (mg/l)				
NO2- (mg/l)			<0.02	
		Coliforms		



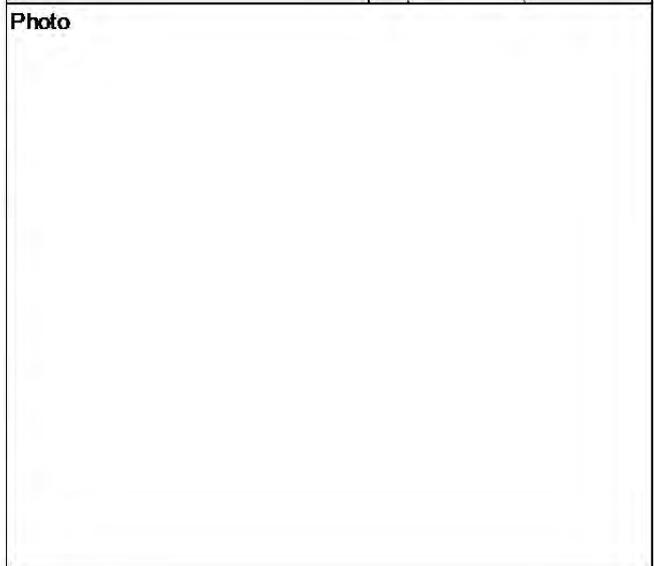
Information of Existing Water Source - 2				
Type	Deep Well		X	
	Shallow Well		Y	
	Storage reservoir			
	Others			
Hydrogeological Information	Drilled Depth (m)		Sample ID	
	Diameter (in)		Temperature (°C)	
	S.W.L (m)		pH	
	D.W.L (m)		EC (µs/cm)	
	Yield (m ³ /hour)		Smell	
	No.of users (person/day)		Color	
	Supply facilities		Mn (mg/l)	
	Remarks (Lithology , etc.)		Results of Simplified Water Quality Test	
Fe (mg/l)				
F (mg/l)				
NO3- (mg/l)				
NO2- (mg/l)				
		Coliforms		



Region	Magway		Date	2015/5/10
Township	Natmak		Reported by	Maruo
Village / ID	Padaukgote(Ywargyi)	MG2-29	Coordinate (WGS84 UTM)	X Y

Information of Existing Water Source - 1				
Type	○ Deep Well		X	737425
	Shallow Well		Y	2248858
	Storage reservoir			
	Others			
Hydrogeological Information	Drilled Depth (m)	219	Sample ID	MG2-29-1
	Diameter (in)		Temperature (°C)	35.2
	S.W.L (m)		pH	6.93
	D.W.L (m)		EC (µs/cm)	2,950
	Yield (m ³ /hour)	3.6	Smell	Iron smell
	No.of users (person/day)		Color	Non
	Supply facilities	Pump	Mn (mg/l)	<0.02
	Remarks (Lithology , etc.) EC very high		Fe (mg/l)	3
F (mg/l)			0.8	
NO3- (mg/l)				
NO2- (mg/l)			<0.02	
Coliforms				

Information of Existing Water Source - 2				
Type	Deep Well		X	
	Shallow Well		Y	
	Storage reservoir			
	Others			
Hydrogeological Information	Drilled Depth (m)		Sample ID	
	Diameter (in)		Temperature (°C)	
	S.W.L (m)		pH	
	D.W.L (m)		EC (µs/cm)	
	Yield (m ³ /hour)		Smell	
	No.of users (person/day)		Color	
	Supply facilities		Mn (mg/l)	
	Remarks (Lithology , etc.)		Fe (mg/l)	
F (mg/l)				
NO3- (mg/l)				
NO2- (mg/l)				
Coliforms				

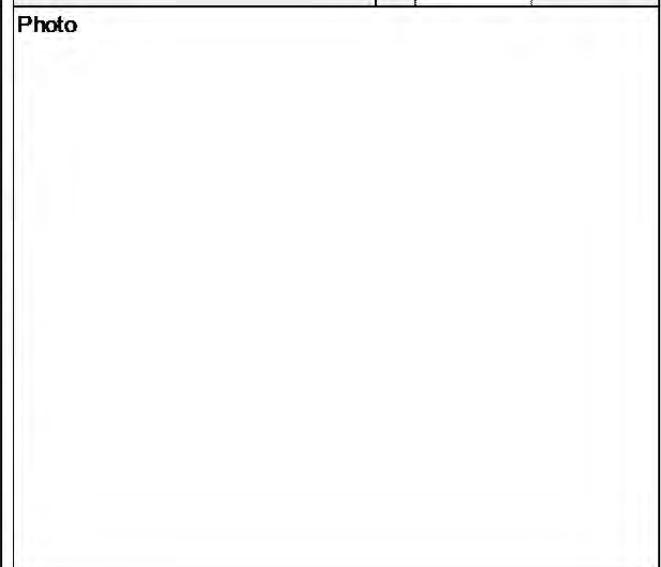


Region	Magway		Date	2015/5/12
Township	Natmauk		Reported by	Maruo
Village / ID	Sellel	MG2-30	Coordinate (WGS84 UTM)	X
			Y	

Information of Existing Water Source - 1					
Type	○ Deep Well	Coordinate	X	783632	
	Shallow Well		Y	2259197	
	Storage reservoir				
	Others				
Hydrogeological Information	Drilled Depth (m)	Results of Simplified Water Quality Test	Sample ID	MG2-30-1	
	Diameter (in)		Temperature (°C)	33.9	
	S.W.L (m)		pH	8.68	
	D.W.L (m)		EC (µs/cm)	935	
	Yield (m ³ /hour)		Smell	Non	
	No.of users (person/day)		Color	Non	
	Supply facilities		Pump	Mn (mg/l)	<1
				Fe (mg/l)	0.2
Remarks (Lithology , etc.)			F (mg/l)	0.2	
WP 220- Hand pump			NO3- (mg/l)		
			NO2- (mg/l)	<0.02	
			Coliforms		



Information of Existing Water Source - 2					
Type	Deep Well	Coordinate	X		
	Shallow Well		Y		
	Storage reservoir				
	Others				
Hydrogeological Information	Drilled Depth (m)	Results of Simplified Water Quality Test	Sample ID		
	Diameter (in)		Temperature (°C)		
	S.W.L (m)		pH		
	D.W.L (m)		EC (µs/cm)		
	Yield (m ³ /hour)		Smell		
	No.of users (person/day)		Color		
	Supply facilities			Mn (mg/l)	
				Fe (mg/l)	
Remarks (Lithology , etc.)			F (mg/l)		
			NO3- (mg/l)		
			NO2- (mg/l)		
			Coliforms		



Region	Magway		Date	2015/5/11
Township	Natmauk		Reported by	Maruo
Village / ID	Padaukgone	MG2-31	Coordinate (WGS84 UTM)	X
			Y	

Information of Existing Water Source - 1				
Type	Deep Well	Coordinate	X	
	Shallow Well		Y	
	Storage reservoir			
	Others			
Hydrogeological Information	Drilled Depth (m)	Results of Simplified Water Quality Test	Sample ID	MG2-31
	Diameter (in)		Temperature (°C)	
	S.W.L (m)		pH	
	D.W.L (m)		EC (µs/cm)	
	Yield (m ³ /hour)		Smell	
	No.of users (person/day)		Color	
	Supply facilities		Mn (mg/l)	
	Remarks (Lithology , etc.)		Fe (mg/l)	
People get water from 5 dug wells at the river bed, and no tube well. Some of the dug well are 50 years old.	F (mg/l)			
	NO3- (mg/l)			
	NO2- (mg/l)			
	Coliforms			
	Photo			

Information of Existing Water Source - 2				
Type	Deep Well	Coordinate	X	
	Shallow Well		Y	
	Storage reservoir			
	Others			
Hydrogeological Information	Drilled Depth (m)	Results of Simplified Water Quality Test	Sample ID	
	Diameter (in)		Temperature (°C)	
	S.W.L (m)		pH	
	D.W.L (m)		EC (µs/cm)	
	Yield (m ³ /hour)		Smell	
	No.of users (person/day)		Color	
	Supply facilities		Mn (mg/l)	
	Remarks (Lithology , etc.)		Fe (mg/l)	
	F (mg/l)			
	NO3- (mg/l)			
	NO2- (mg/l)			
	Coliforms			
	Photo			

Region	Magway		Date	2015/5/10
Township	Natmauk		Reported by	Maruo
Village / ID	Ywartharlay	MG2-32	Coordinate (WGS84 UTM)	X
				Y

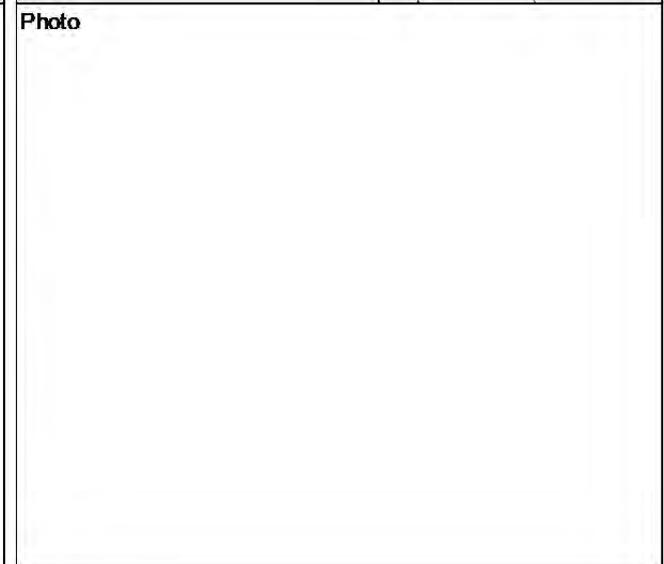
Information of Existing Water Source - 1					Information of Existing Water Source - 2						
Type	○ Deep Well		Coordinate	X	731373	Type	Deep Well		Coordinate	X	
	Shallow Well			Y	2275351		Shallow Well			Y	
	Storage reservoir						Shallow Well				
	Others						Others				
Hydrogeological Information	Drilled Depth (m)	177	Results of Simplified Water Quality Test	Sample ID	MG2-32-1	Hydrogeological Information	Drilled Depth (m)		Results of Simplified Water Quality Test	Sample ID	
	Diameter (in)	2		Temperature (°C)	33.5		Diameter (in)			Temperature (°C)	
	S.W.L (m)	67		pH	7.29		S.W.L (m)			pH	
	D.W.L (m)			EC (µs/cm)	3,840		D.W.L (m)			EC (µs/cm)	
	Yield (m³/hour)	3.4		Smell	Iron smell		Yield (m³/hour)			Smell	
	No.of users (person/day)			Color	Non		No.of users (person/day)			Color	
	Supply facilities	Airlift compressor		Mn (mg/l)	2		Supply facilities			Mn (mg/l)	
	Remarks (Lithology , etc.)			Fe (mg/l)	1		Remarks (Lithology , etc.)			Fe (mg/l)	
Now discharge only 500 g/d ,drilled in 2006. Natmauk Municipality funded the cost 2275000 kyats. There have DRD well 200 m far from the the target village by WRUD in Phankharsen village.(168m depth and SWL 85 m)		F (mg/l)	0.2			F (mg/l)					
		NO3- (mg/l)				NO3- (mg/l)					
		NO2- (mg/l)	0.0			NO2- (mg/l)					
		Coliforms				Coliforms					
Photo					Photo						
											

Region	Magway		Date	
Township	Natmak		Reported by	Maruo
Village / ID	Wayonegone	MG2-33	Coordinate (WGS84 UTM)	X
				Y

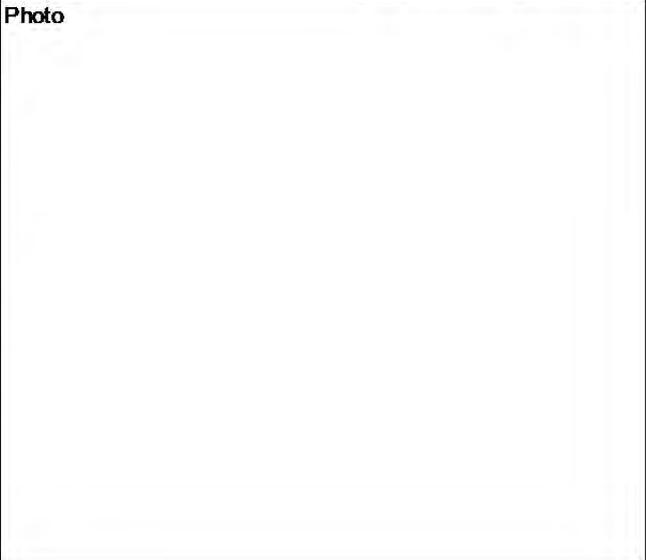
Information of Existing Water Source - 1				
Type	○ Deep Well	Coordinate	X	736518
	storage reservoir		Y	2267323
	Storage reservoir			
	Others			
Hydrogeological Information	Drilled Depth (m)	Results of Simplified Water Quality Test	Sample ID	MG2-33-1
	Diameter (in)		Temperature (°C)	34
	S.W.L (m)		pH	7.35
	D.W.L (m)		EC (µs/cm)	5,330
	Yield (m³/hour)		Smell	Slightly iron
	No.of users (person/day)		Color	Non
	Supply facilities		Mn (mg/l)	<0.02
			Fe (mg/l)	8
Remarks (Lithology , etc.) JICA well - drilled in 2014 by JICA Grant. Oakpho village is next to the target village.			F (mg/l)	0.8
			NO3- (mg/l)	
			NO2- (mg/l)	<0.02
			Coliforms	



Information of Existing Water Source - 2				
Type	Deep Well	Coordinate	X	
	Shallow Well		Y	
	Storage reservoir			
	Others			
Hydrogeological Information	Drilled Depth (m)	Results of Simplified Water Quality Test	Sample ID	
	Diameter (in)		Temperature (°C)	
	S.W.L (m)		pH	
	D.W.L (m)		EC (µs/cm)	
	Yield (m³/hour)		Smell	
	No.of users (person/day)		Color	
	Supply facilities		Mn (mg/l)	
			Fe (mg/l)	
Remarks (Lithology , etc.)			F (mg/l)	
			NO3- (mg/l)	
			NO2- (mg/l)	
			Coliforms	



Region	Magway		Date	2015/5/11
Township	Natmauk		Reported by	Maruo
Village / ID	Nyaunggone	MG2-34	Coordinate (WGS84 UTM)	X
			Y	

Information of Existing Water Source - 1					Information of Existing Water Source - 2				
Type	○ Deep Well	Coordinate	X	732682	Type	Deep Well	Coordinate	X	
	Shallow Well		Y	2256117		Shallow Well		Y	
	Storage reservoir					Storage reservoir			
	Others					Others			
Hydrogeological Information	Drilled Depth (m)	Results of Simplified Water Quality Test	Sample ID	MG2-34-1	Hydrogeological Information	Drilled Depth (m)	Results of Simplified Water Quality Test	Sample ID	
	Diameter (in)		Temperature (°C)	29.6		Diameter (in)		Temperature (°C)	
	S.W.L (m)		pH	7.88		S.W.L (m)		pH	
	D.W.L (m)		EC (µs/cm)	1,280		D.W.L (m)		EC (µs/cm)	
	Yield (m³/hour)		Smell	Non		Yield (m³/hour)		Smell	
	No.of users (person/day)		Color	Non		No.of users (person/day)		Color	
	Supply facilities		Mn (mg/l)	<0.02		Supply facilities		Mn (mg/l)	
	Remarks (Lithology , etc.) Dug well by a river. People say a bit salty and not salty, high fluoride.		Fe (mg/l)	<0.2		Remarks (Lithology , etc.)		Fe (mg/l)	
F (mg/l)		1.3	F (mg/l)						
NO3- (mg/l)			NO3- (mg/l)						
NO2- (mg/l)		<0.02	NO2- (mg/l)						
Coliforms			Coliforms						
Photo					Photo				
									

Region	Magway		Date	
Township	Natmauk		Reported by	Maruo
Village / ID	Kyugyaung	MG2-35	Coordinate (WGS84 UTM)	X
			Y	

Information of Existing Water Source - 1				
Type	Deep Well	Coordinate	X	744567
	Shallow Well		Y	2259271
	Storage reservoir			
	Others			
Hydrogeological Information	Drilled Depth (m)	Results of Simplified Water Quality Test	Sample ID	MG2-35
	Diameter (in)		Temperature (°C)	
	S.W.L (m)		pH	
	D.W.L (m)		EC (µs/cm)	
	Yield (m ³ /hour)		Smell	
	No.of users (person/day)		Color	
	Supply facilities		Mn (mg/l)	
	Remarks (Lithology , etc.)		Fe (mg/l)	
People get water from river under flow, and no other sources.	F (mg/l)			
	NO3- (mg/l)			
	NO2- (mg/l)			
	Coliforms			

Photo

Information of Existing Water Source - 2				
Type	Deep Well	Coordinate	X	
	Shallow Well		Y	
	Storage reservoir			
	Others			
Hydrogeological Information	Drilled Depth (m)	Results of Simplified Water Quality Test	Sample ID	
	Diameter (in)		Temperature (°C)	
	S.W.L (m)		pH	
	D.W.L (m)		EC (µs/cm)	
	Yield (m ³ /hour)		Smell	
	No.of users (person/day)		Color	
	Supply facilities		Mn (mg/l)	
	Remarks (Lithology , etc.)		Fe (mg/l)	
	F (mg/l)			
	NO3- (mg/l)			
	NO2- (mg/l)			
	Coliforms			

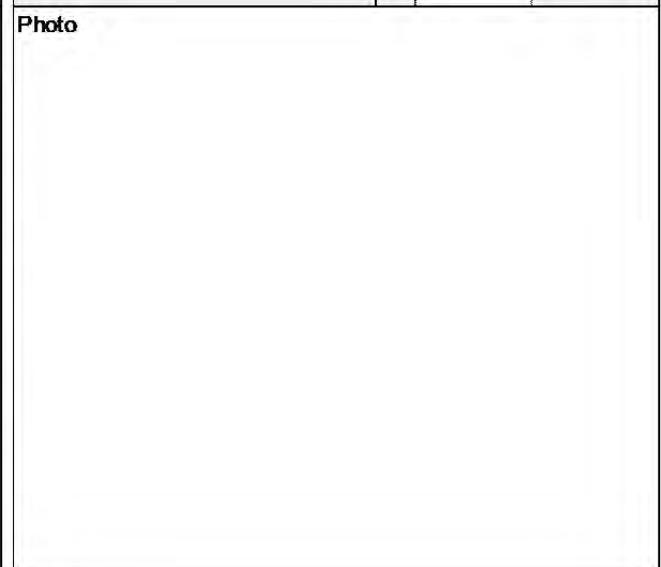
Photo

Region	Magway		Date	2015/5/18
Township	Taungdwingyi		Reported by	Maruo
Village / ID	Kokkohla	MG2-36	Coordinate (WGS84 UTM)	X
			Y	

Information of Existing Water Source - 1				
Type	Deep Well	Coordinate	X	765957
	Shallow Well		Y	2218608
	Storage reservoir			
	○ Others(Dug Well)			
Hydrogeological Information	Drilled Depth (m)	Results of Simplified Water Quality Test	Sample ID	MG2-36-1
	Diameter (in)		Temperature (°C)	28.9
	S.W.L (m)		pH	7.04
	D.W.L (m)		EC (µs/cm)	1,335
	Yield (m ³ /hour)		Smell	Non
	No.of users (person/day)		Color	Non
	Supply facilities		Mn (mg/l)	<1
	Remarks (Lithology , etc.)		Fe (mg/l)	<0.2
Dug well - 15m deep	F (mg/l)	0.3		
	NO3-(mg/l)	20		
	NO2-(mg/l)	0.1		
	Coliforms			



Information of Existing Water Source - 2				
Type	Deep Well	Coordinate	X	
	Shallow Well		Y	
	Storage reservoir			
	Others			
Hydrogeological Information	Drilled Depth (m)	Results of Simplified Water Quality Test	Sample ID	
	Diameter (in)		Temperature (°C)	
	S.W.L (m)		pH	
	D.W.L (m)		EC (µs/cm)	
	Yield (m ³ /hour)		Smell	
	No.of users (person/day)		Color	
	Supply facilities		Mn (mg/l)	
	Remarks (Lithology , etc.)		Fe (mg/l)	
	F (mg/l)			
	NO3-(mg/l)			
	NO2-(mg/l)			
	Coliforms			

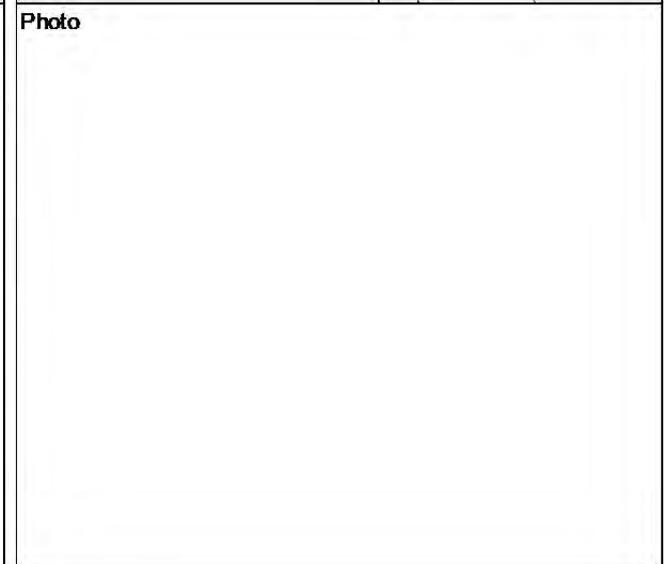


Region	Magway		Date	2015/5/18
Township	Taungdwingyi		Reported by	Maruo
Village / ID	Kokkohla	MG2-36	Coordinate (WGS84 UTM)	X
			Y	

Information of Existing Water Source - 1				
Type	○ Deep Well	Coordinate	X	766919
	Shallow Well		Y	2218218
	Storage reservoir			
	Others			
Hydrogeological Information	Drilled Depth (m)	116	Sample ID	MG2-36-2
	Diameter (in)	4	Temperature (°C)	29.7
	S.W.L (m)	18	pH	8.67
	D.W.L (m)		EC (µs/cm)	1,587
	Yield (m ³ /hour)	3.2	Smell	Muddy smell
	No.of users (person/day)		Color	Shallow yellow
	Supply facilities	Compressor	Mn (mg/l)	<1
	Remarks (Lithology , etc.)		Results of Simplified Water Quality Test	
Pantwinlay village is next to target village. WRUD well drilled in 2014.		Fe (mg/l)	<0.2	
		F (mg/l)	2.0	
		NO3- (mg/l)	<1	
		NO2- (mg/l)	<0.02	
		Coliforms		



Information of Existing Water Source - 2				
Type	Deep Well	Coordinate	X	
	Shallow Well		Y	
	Storage reservoir			
	Others			
Hydrogeological Information	Drilled Depth (m)		Sample ID	
	Diameter (in)		Temperature (°C)	
	S.W.L (m)		pH	
	D.W.L (m)		EC (µs/cm)	
	Yield (m ³ /hour)		Smell	
	No.of users (person/day)		Color	
	Supply facilities		Mn (mg/l)	
	Remarks (Lithology , etc.)		Results of Simplified Water Quality Test	
		Fe (mg/l)		
		F (mg/l)		
		NO3- (mg/l)		
		NO2- (mg/l)		
		Coliforms		

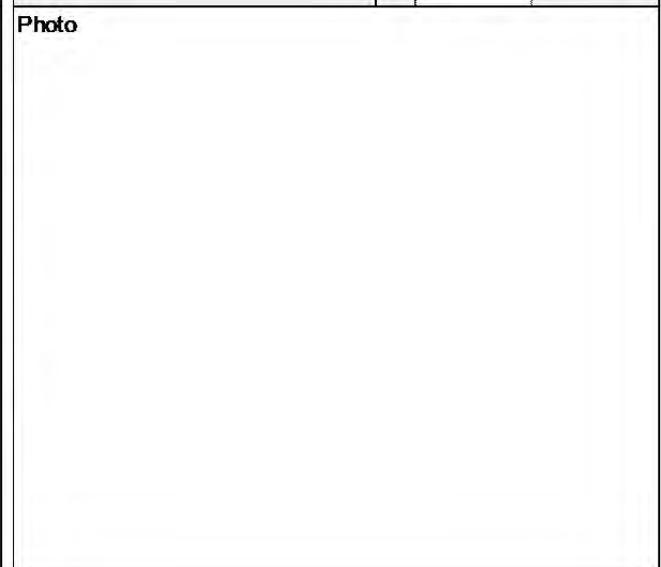


Region	Magway		Date	2015/5/17
Township	Taungdwingyi		Reported by	Maruo
Village / ID	Kangyigone	MG2-37	Coordinate (WGS84 UTM)	X
			Y	

Information of Existing Water Source - 1					
Type	○ Deep Well	Coordinate	X	762556	
	Shallow Well		Y	2192933	
	Storage reservoir				
	Others				
Hydrogeological Information	Drilled Depth (m)	183	Results of Simplified Water Quality Test	Sample ID	MG2-37-1
	Diameter (in)			Temperature (°C)	29.3
	S.W.L (m)	165		pH	8.82
	D.W.L (m)			EC (µs/cm)	4,520
	Yield (m³/hour)	0.2		Smell	Non
	No.of users (person/day)			Color	HighTurbidity
	Supply facilities	Compressor		Mn (mg/l)	<1
	Remarks (Lithology , etc.)	High fluoride		Fe (mg/l)	<0.2
			F (mg/l)	3.0	
			NO3-(mg/l)	<1	
			NO2-(mg/l)	<0.02	
			Coliforms		



Information of Existing Water Source - 2					
Type	Deep Well	Coordinate	X		
	Shallow Well		Y		
	Storage reservoir				
	Others				
Hydrogeological Information	Drilled Depth (m)		Results of Simplified Water Quality Test	Sample ID	
	Diameter (in)			Temperature (°C)	
	S.W.L (m)			pH	
	D.W.L (m)			EC (µs/cm)	
	Yield (m³/hour)			Smell	
	No.of users (person/day)			Color	
	Supply facilities			Mn (mg/l)	
	Remarks (Lithology , etc.)			Fe (mg/l)	
			F (mg/l)		
			NO3-(mg/l)		
			NO2-(mg/l)		
			Coliforms		

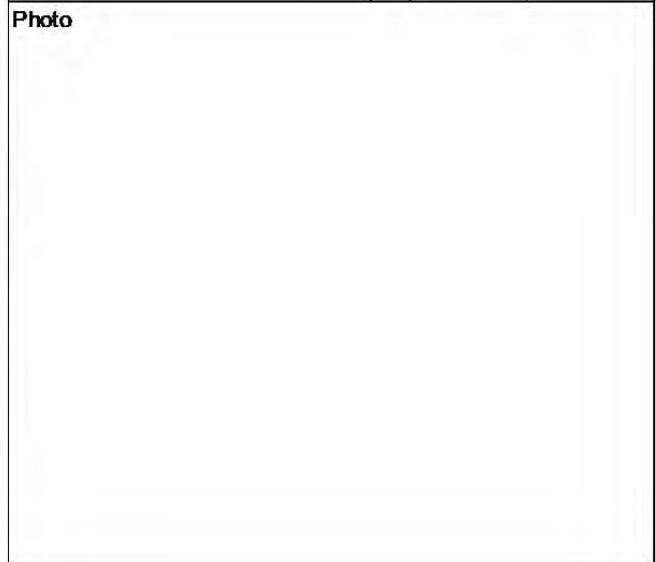


Region	Magway		Date	2015/5/17
Township	Taungdwingyi		Reported by	Maruo
Village / ID	Kangyigone	MG2-37	Coordinate (WGS84 UTM)	X
			Y	

Information of Existing Water Source - 1					
Type	○ Deep Well	Coordinate	X	757586	
	Shallow Well		Y	2193879	
	Storage reservoir				
	Others				
Hydrogeological Information	Drilled Depth (m)	183	Results of Simplified Water Quality Test	Sample ID	MG2-37-2
	Diameter (in)	2		Temperature (°C)	30.1
	S.W.L (m)	2		pH	8.77
	D.W.L (m)			EC (µs/cm)	722
	Yield (m ³ /hour)			Smell	Non
	No.of users (person/day)			Color	Non
	Supply facilities	Compressor		Mn (mg/l)	<1
	Remarks (Lithology , etc.)			Fe (mg/l)	<0.2
Payatkyal village is next to the target village along the main road.		F (mg/l)	0.2		
		NO3- (mg/l)	<1		
		NO2- (mg/l)	<0.02		
		Coliforms			



Information of Existing Water Source - 2					
Type	Deep Well	Coordinate	X		
	Shallow Well		Y		
	Storage reservoir				
	Others				
Hydrogeological Information	Drilled Depth (m)		Results of Simplified Water Quality Test	Sample ID	
	Diameter (in)			Temperature (°C)	
	S.W.L (m)			pH	
	D.W.L (m)			EC (µs/cm)	
	Yield (m ³ /hour)			Smell	
	No.of users (person/day)			Color	
	Supply facilities			Mn (mg/l)	
	Remarks (Lithology , etc.)			Fe (mg/l)	
		F (mg/l)			
		NO3- (mg/l)			
		NO2- (mg/l)			
		Coliforms			

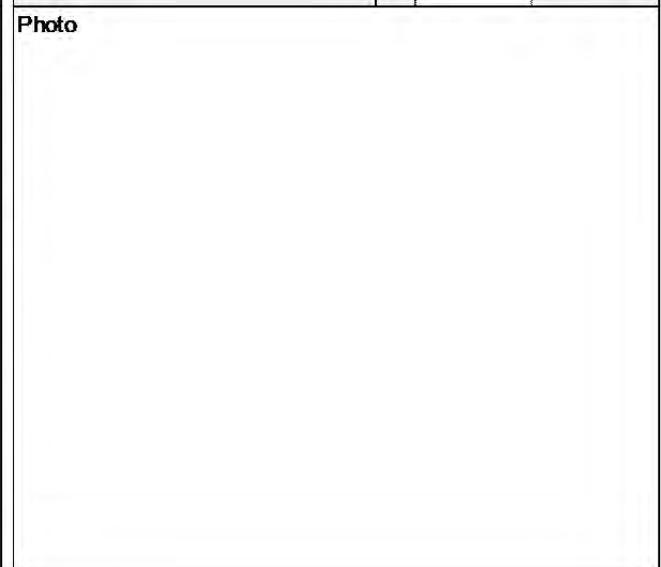


Region	Magway		Date	2015/5/18
Township	Taungdwingyi		Reported by	Maruo
Village / ID	Htaukkyantgwin	MG2-38	Coordinate (WGS84 UTM)	X
			Y	

Information of Existing Water Source - 1				
Type	Deep Well	Coordinate	X	772150
	○ Shallow Well		Y	2184875
	Storage reservoir			
	Others			
Hydrogeological Information	Drilled Depth (m)	15	Sample ID	MG2-38-1
	Diameter (in)		Temperature (°C)	28.7
	S.W.L (m)		pH	7.48
	D.W.L (m)		EC (µs/cm)	1,615
	Yield (m ³ /hour)		Smell	Non
	No.of users (person/day)		Color	Non
	Supply facilities		Mn (mg/l)	<1
	Remarks (Lithology , etc.)	Results of Simplified Water Quality Test		Fe (mg/l)
Hand pump	F (mg/l)			0.6
	NO3- (mg/l)			3
	NO2- (mg/l)			<0.02
	Coliforms			



Information of Existing Water Source - 2				
Type	Deep Well	Coordinate	X	
	Shallow Well		Y	
	Storage reservoir			
	Others			
Hydrogeological Information	Drilled Depth (m)		Sample ID	
	Diameter (in)		Temperature (°C)	
	S.W.L (m)		pH	
	D.W.L (m)		EC (µs/cm)	
	Yield (m ³ /hour)		Smell	
	No.of users (person/day)		Color	
	Supply facilities		Mn (mg/l)	
	Remarks (Lithology , etc.)	Results of Simplified Water Quality Test		Fe (mg/l)
	F (mg/l)			
	NO3- (mg/l)			
	NO2- (mg/l)			
	Coliforms			

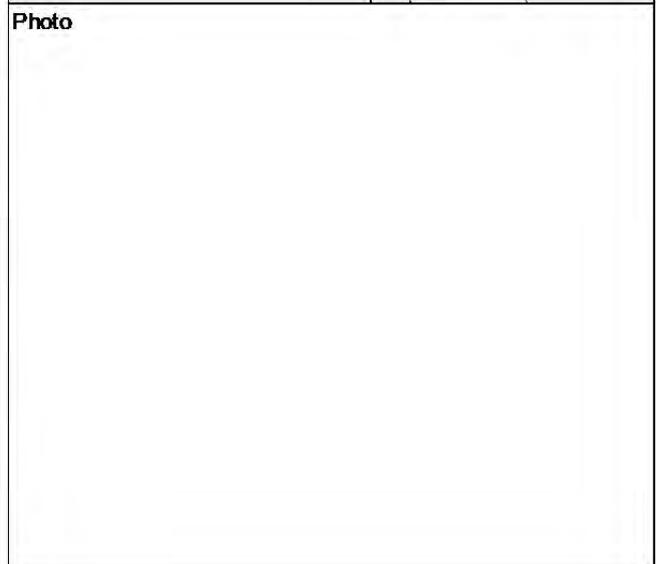


Region	Magway		Date	2015/5/17
Township	Taungdwingyi		Reported by	Maruo
Village / ID	Hlebwegyi	MG2-39	Coordinate (WGS84 UTM)	X
			Y	

Information of Existing Water Source - 1				
Type	Deep Well	Coordinate	X	747939
	Shallow Well		Y	2200787
	Storage reservoir			
	○ Others(Dug Well)			
Hydrogeological Information	Drilled Depth (m)	5	Sample ID	MG2-39-1
	Diameter (in)		Temperature (°C)	30.5
	S.W.L (m)		pH	8.00
	D.W.L (m)		EC (µs/cm)	845
	Yield (m ³ /hour)		Smell	Non
	No.of users (person/day)		Color	Slightly turbidity
	Supply facilities		Mn (mg/l)	<1
	Remarks (Lithology , etc.) Dug well- 5m deep.		Results of Simplified Water Quality Test	Fe (mg/l)
F (mg/l)				0.1
NO3-(mg/l)				4
NO2-(mg/l)				<0.02
Coliforms				



Information of Existing Water Source - 2				
Type	Deep Well	Coordinate	X	
	Shallow Well		Y	
	Storage reservoir			
	Others			
Hydrogeological Information	Drilled Depth (m)		Sample ID	
	Diameter (in)		Temperature (°C)	
	S.W.L (m)		pH	
	D.W.L (m)		EC (µs/cm)	
	Yield (m ³ /hour)		Smell	
	No.of users (person/day)		Color	
	Supply facilities		Mn (mg/l)	
	Remarks (Lithology , etc.)		Results of Simplified Water Quality Test	Fe (mg/l)
F (mg/l)				
NO3-(mg/l)				
NO2-(mg/l)				
Coliforms				

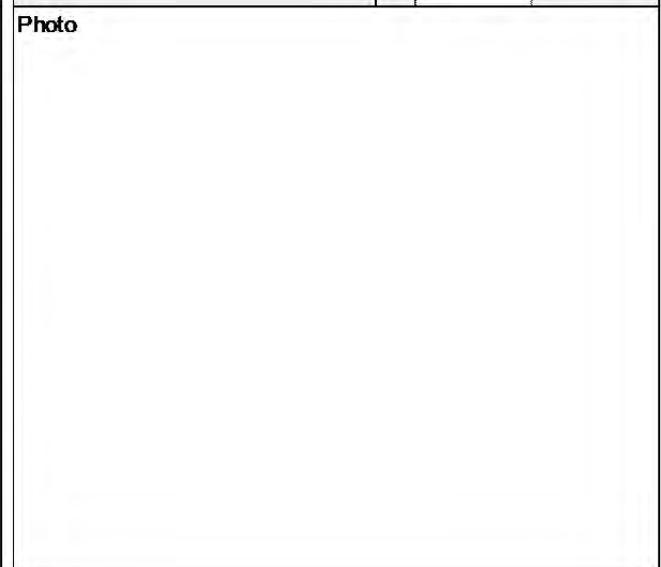


Region	Magway		Date	2015/5/17
Township	Taungdwingyi		Reported by	Maruo
Village / ID	YayHtwetgyi	MG2-40	Coordinate (WGS84 UTM)	X
			Y	

Information of Existing Water Source - 1				
Type	Deep Well	Coordinate	X	743090
	Shallow Well		Y	2197425
	Storage reservoir			
	○ Others(Dug Well)			
Hydrogeological Information	Drilled Depth (m)	Results of Simplified Water Quality Test	Sample ID	MG2-40-1
	Diameter (in)		Temperature (°C)	29.5
	S.W.L (m)		pH	7.93
	D.W.L (m)		EC (µs/cm)	678
	Yield (m ³ /hour)		Smell	Non
	No.of users (person/day)		Color	Turbidity
	Supply facilities		Mn (mg/l)	<1
	Remarks (Lithology , etc.)		Fe (mg/l)	<0.2
Dug well,one of thee in one place.	F (mg/l)	0.2		
	NO3-(mg/l)	1		
	NO2-(mg/l)	<0.02		
	Coliforms			



Information of Existing Water Source - 2				
Type	Deep Well	Coordinate	X	
	Shallow Well		Y	
	Storage reservoir			
	Others			
Hydrogeological Information	Drilled Depth (m)	Results of Simplified Water Quality Test	Sample ID	
	Diameter (in)		Temperature (°C)	
	S.W.L (m)		pH	
	D.W.L (m)		EC (µs/cm)	
	Yield (m ³ /hour)		Smell	
	No.of users (person/day)		Color	
	Supply facilities		Mn (mg/l)	
	Remarks (Lithology , etc.)		Fe (mg/l)	
	F (mg/l)			
	NO3-(mg/l)			
	NO2-(mg/l)			
Coliforms				



5.4 ステップ 5 における村落評価結果

(1) サガイン地域

地域	番号	タウンシップ	村落名	ID	調査手法 *1)	調査者 *2)	対象帯水層の推定結果				推定掘削深度 (m)	推定地下水水位 (m)	推奨スクリーン長	地下水開発の可能性 *3)
							分布深度 (m)	比抵抗値 (Ω-m)	層厚 (m)	備考				
Sagaing	1	Bucklin	Yonedaw	SA2-01	VES	DRD	>115	12.7	45	Drilling depth is decided by information of existing tube well.	160	40	18m	C
	2		Nyaungbinthar	SA2-02	VES	DRD	70 - 176	20.2	90	Drilling depth is decided by existing tube well which is located near the site.	160	40	12m	A
	3		Maunghtaug	SA2-03	VES	DRD	>120	42.9	30	Potential of upper aquifer(40.5-120.5m) is low, and water quality has little problem. (Sally)	150	40	12m	B
	4		Kantawthar	SA2-04	VES	DRD	>39	12.9 - 48.5	85	Drilling depth is decided by information of existing tube well.	125	39	18m	C
	5		Mihonethoo	SA2-05	VES	DRD	60 - 108	24.1	40	There is the possibility that the water quality worsens at 100m or lower.	100	30	12m	A
	6		Waihu-I	SA2-06	VES	DRD	36 - 101	11.7	64	It is expected that capacity of target aquifers is low.	100	36	18m	C
	7	Chaungoo	Thanbinkan	SA2-07	VES	DRD	49 - 200	37.2 - 17	101	Drilling depth is decided by information of existing tube well.	150	70	12m	A
	8		Natyaygan	SA2-08	VES	DRD	>170	16.8	30	Main selection basis of drilling depth is resistivity value.	200	61	18m	B
	9	Ayadaw	Sithar	SA2-09	VES	DRD	44 - 137	18.9	56	Drilling depth is decided by information of existing tube well.	100	44	12m	A
	10		Oakkan	SA2-10	VES	DRD	54 - 277	11.9	176	Drilling depth is decided by information of existing tube well.	230	3	18m	C
	11		Wanyang	SA2-11	VES	DRD	>165	18.2	85	Drilling depth is decided by information of existing tube well.	250	55	12m	A
	12		Wanlannkalay	SA2-12	VES	DRD	43 - 102	11.4	62	Drilling depth is decided by information of existing tube well.	105	43	18m	C
	13		Yathar	SA2-13	VES	DRD	-	<10	-	It has been excluded by low resistivity value. (Less than 10Ω-m)	-	-	-	D-2
	14		Zepintel	SA2-14	VES	DRD	75 - 129	25.2	55	It is expected that capacity of target aquifers is low.	130	50	18m	C
	15	Salingyi	Yonbinyoe	SA2-15	VES	DRD	-	<10	-	It has been excluded by low resistivity value. (Less than 10Ω-m)	-	-	-	D-2
	16		Mirmlaw	SA2-16	VES	DRD	74 - 172	40.5	96	It is assumed that water quality is not suitable for drinking at the shallow part of target aquifer.	170	40	12m	B
	17		Kine	SA2-17	VES/2D	DRD/ESS	>40	<10(8-10)	80	From comparison results of resistivity with existing data, it is estimated that low resistivity value shows mixed layer of thin sand layer(aquifer) and clay layer.	120	40	18m	D-1
	18	Myinmu	Kalapyan	SA2-18	VES	DRD	>161	21.6	39	It is assumed that water quality is not suitable for drinking at the shallow part of target aquifer.	200	36	12m	A
	19		Hlayookan	SA2-19	VES	DRD	121 - 197	14.3	74	From existing borehole, it is expected that capacity of target aquifers is low.	195	121	18m	C
	20		Makyeekan	SA2-20	-	DRD2	-	-	-	Based on evaluation of "step1", it has been excluded from target village.	-	-	-	-
	21		Watkya	SA2-21	VES	DRD	>168	11.4	32	Main selection basis of drilling depth is resistivity value.	200	36	18m	C
	22		Thaitaykone(Ywama)	SA2-22	VES	DRD	>144	12.5	36	Main selection basis of drilling depth is resistivity value.	180	55	18m	C
	23		Magyidaw	SA2-23	VES	DRD	-	<10	-	It has been excluded by low resistivity value. (Less than 10Ω-m)	-	-	-	D-2
	24	Kanbaku	Thindaw	SA2-24	VES	DRD	52 - 90	20.9	28	Main selection basis of drilling depth is resistivity value.	80	50	12m	A
	25		Lwingyi	SA2-25	VES	DRD	>184	41	36	From existing borehole, it is expected that capacity of upper aquifer(99-184m) is low.	220	31	12m	B
	26		Koetaungboh(Kyunkone)	SA2-26	VES	DRD	>144	37.9	41	From existing borehole, it is expected that capacity of target aquifers is low.	185	60	18m	C
	27		Inngotele	SA2-27	VES	DRD	<157	24 - 49	126	From existing borehole, it is expected that capacity of target aquifers is low.	150	50	18m	C
	28		Myayhtoo	SA2-28	VES	DRD	>150	<10(4.7)	35	From comparison results of resistivity with existing data, it is estimated that low resistivity value shows mixed layer of thin sand layer(aquifer) and clay layer.	200	150	18m	D-1
	29		Khaowntar	SA2-29	VES	DRD	>182	13	33	Main selection basis of drilling depth is resistivity value.	215	30	18m	C
	30		Nyungkanthar	SA2-30	VES	DRD	138 - 189	12.1	37	Main selection basis of drilling depth is resistivity value.	175	50	18m	C
	31		Myaymon	SA2-31	VES	DRD	>125	24.1	30	From information of existing tube well, it is assumed that upper aquifer (63-125m) has salinity. So, target aquifer is set to lower layer.(>125m)	155	80	12m	A
	32		Layytwinzin	SA2-32	VES	DRD	>181	22	29	From information of existing tube well, it is assumed that potential of upper aquifer (117-181m) is low. So, target aquifer is set to lower layer.(>181m)	210	120	18m	C
	33		Chaungchar	SA2-33	VES	DRD	>174	16.3	31	Main selection basis of drilling depth is resistivity value.	205	60	18m	B
	34	Dabayin	Minyogone	SA2-34	VES	DRD	42 - 159	12	68	Main selection basis of drilling depth is resistivity value.	110	3	18m	C
	35		Shandaw	SA2-35	VES	DRD	81 - 286	14.3	169	Drilling depth is decided by information of existing tube well.	250	0	18m	C
	36		Kyuntaw(S)	SA2-36	VES	DRD	68-183	12.4	32	Drilling depth is decided by information of existing tube well.	100	68	18m	C
	37	Wattet	PalasThwe(Ywarthit)	SA2-37	VES	DRD	102-163	38.5	28	Main selection basis of drilling depth is resistivity value.	130	55	12m	A
	38		Poukkan	SA2-38	VES	DRD	10-241	<10(9.2)	120	From comparison results of resistivity with existing data, it is estimated that low resistivity value shows mixed layer of thin sand layer(aquifer) and clay layer.	150	30	18m	D-1
	39		Shwenyaunglaw	SA2-39	VES	DRD	-	<10	-	It has been excluded by low resistivity value. (Less than 10Ω-m)	-	-	-	D-2
	40		Sabeidaw	SA2-40	VES	DRD	-	<10	-	It has been excluded by low resistivity value. (Less than 10Ω-m)	-	-	-	D-2

*1) VES: 垂直電気探査 2D: 2次元電気探査

*2) DRD: Department of Rural Development GH: Golden Hours Construction Co., Ltd. (ローカルコンサルタント) ESS: Earth System Science Co., Ltd. (調査団)

*3) 分類基準表

帯水層能力	比抵抗値から想定される層相 (地下水面下における)	比抵抗値 (Ohm-m)	地下水開発の可能性	推奨スクリーン長
低 ↑ 高 ↓ 低	未固結堆積物 粘性土主体層 ないし 塩分を含有する帯水層	10未満	D-2 困難	-
		10-15	D-1 低い-困難	18m
	未固結-半固結堆積物	15-17.5	C ¹⁾ 中位-低い	12m
		17.5-40	B 中位	
	半固結堆積物 ないし 礫混じりシルト・粘性土層	40-50	A 高い	18m
		50-60	C 中位-低い	
固結堆積物 (塊状の岩盤)	60超	D-2 困難	-	

*1) 既存資料より推定された、低いポテンシャルの帯水層はCに含む。(比抵抗値の大小問わず)

(2) マンダレー地域

地域	番号	タウンシップ	村落名	ID	調査手法 *1)	調査者 *2)	対象帯水層の推定結果				推定掘削深度 (m)	推定地下水位 (m)	A: 高い D-1: 中位 困難 スクリーン長	B: 中位 地下水開発 の可能性 *3)
							分布深度 (m)	比抵抗値 (Ω-m)	層厚 (m)	備考				
Mandalay	41	Mahaing	Hiantawgyi	MA2-01	2D	ESS	100 - 150	>11	50	Main selection basis of drilling depth are resistivity value and geological cross section.	150	60	18m	C
	42		Asone	MA2-02	VES	GH	125 - 265	15	25	Main selection basis of drilling depth is resistivity value.	150	60	18m	B
	43		Khintha(S)	MA2-03	VES	GH	>235	10.4	35	Main selection basis of drilling depth is resistivity value.	270	60	18m	C
	44	Myingyan	Chaysay	MA2-04	VES	DRD	>132	18.7	28	Main selection basis of drilling depth is resistivity value.	160	50	12m	A
	45		Talgyi	MA2-05	VES	DRD	>136	14	34	Main selection basis of drilling depth is resistivity value.	170	50	18m	C
	46		Kuywar	MA2-06	VES/2D	DRD/ESS	-	<10	-	It has been excluded by low resistivity value. (Less than 10Ω-m)	-	-	-	D-2
	47		Yonehto	MA2-07	VES	DRD1	>136	18.2	29	Main selection basis of drilling depth is resistivity value.	165	60	12m	A
	48		Nyaungkum	MA2-08	VES	GH	-	<10	-	-	-	-	-	D-2
	49	Ngazon	Konelel	MA2-09	-	-	-	-	-	Based on evaluation of "step1", it has been excluded from target village.	-	-	-	-
	50		Phaungkadaw	MA2-10	-	-	-	-	-	Based on evaluation of "step1", it has been excluded from target village.	-	-	-	-
	51		Kaungzin	MA2-11	2D	ESS	>200	>10	70	Main selection basis of drilling depth is resistivity value.	250	100	18m	C
	52	Ywarsite	MA2-12	-	-	-	-	-	-	Based on evaluation of "step1", it has been excluded from target village.	-	-	-	-
	53	Natogyi	Kyaungnan	MA2-13	-	-	-	-	-	Based on evaluation of "step1", it has been excluded from target village.	-	-	-	-
	54		Kyaungkangyibin	MA2-14	2D	ESS	167-200	10-11	33	Main selection basis of drilling depth is resistivity value.	200	167	18m	C
	55		Nyaunggone	MA2-15	2D	ESS	100 - 150	13-14	50	Main selection basis of drilling depth is resistivity value.	150	61	18m	C
	56	Taungtha	Chaungnar	MA2-16	2D	ESS	-	<10	-	It has been excluded by low resistivity value. (Less than 10Ω-m)	-	-	-	D-2
	57		Chaungone(La)	MA2-17	VES	GH	112-189	18.1	28	Drilling depth is decided by information of existing tube well.	140	98	12m	A
	58		Kyaukkaungkone	MA2-18	2D	ESS	-	<10	-	It has been excluded by low resistivity value. (Less than 10Ω-m)	-	-	-	D-2
	59		Tharzi	MA2-19	VES	GH	154-290	14.3	137	From information of existing tube well, it is assumed that potential of target aquifer is low.	290	154	18m	C
	60		Kanaye	MA2-20	VES	GH	105-268	17.8	160	From information of existing tube well, it is assumed that potential of target aquifer is low.	265	105	18m	C
	61		Tharyamyang	MA2-21	2D	ESS	150 - 250	16-17	50	Drilling depth is decided by information of existing tube well.	200	150	18m	B
	62	Yamethin	Oakpo	MA2-22	VES	DRD	126-263	11.1	134	From information of existing tube well, it is assumed that potential of target aquifer is low.	260	30	18m	C
	63		Kangyi	MA2-23	VES	DRD	>314	13.7	36	Main selection basis of drilling depth is resistivity value.	350	200	18m	C
	64	Pyawbwe	Htanekkan	MA2-24	VES	DRD	>236	11.7	34	Main selection basis of drilling depth is resistivity value.	270	30	18m	C
	65		Waryonesu	MA2-25	VES	DRD	>278	22.4	27	Main selection basis of drilling depth is resistivity value.	305	11	12m	A
	66		Talkone	MA2-26	VES	DRD	>245	21.9	30	Main selection basis of drilling depth is resistivity value.	275	150	12m	A
	67	Nyaungoo	Tawbyar	MA2-27	VES	DRD	176-265	40.9	89	Drilling depth is decided by information of existing tube well.	265	176	12m	B
	68		Setsetyo	MA2-28	VES	DRD	>363	31.2	27	Main selection basis of drilling depth is resistivity value.	390	269	12m	A
	69		Kanzauk	MA2-29	VES	DRD	>65	17.9-49.0	135?	Drilling depth is decided by information of existing tube well.	200	65	12m	A
	70		Talbindal	MA2-30	VES	DRD	211-300	26.9	90	Drilling depth is decided by information of existing tube well.	300	210	12m	A
	71		Mongywellaw	MA2-31	VES	DRD	>210	34.1	60	Drilling depth is decided by information of existing tube well.	270	210	12m	A
	72		Phoenekan	MA2-32	2D	ESS	<125	14-30	90	Drilling depth is decided by information of existing tube well.	125	35	18m	C
	73		Nyaungbinthar	MA2-33	2D	ESS	150-200 (<200)	19-20	50	Main selection basis of drilling depth is resistivity value.	200	100	12m	A
	74		Saangkan(Talide)	MA2-34	VES	DRD	>263	19.9	107	Drilling depth is decided by information of existing tube well.	370	263	12m	A
	75		Byugyi	MA2-35	VES	DRD	>231	23.6	79	Drilling depth is decided by information of existing tube well.	310	230	12m	A
	76		Kyaukpackaung	Aleywar-2	MA2-36	2D	ESS	<230	20-30	80	Drilling depth is decided by information of existing tube well.	230	150	12m
	77	Tangakan		MA2-37	-	DRD1	-	-	-	Based on evaluation of "step1", it has been excluded from target village.	-	-	-	-
	78	Ldgyi(Ma)		MA2-38	2D	ESS	>300	>13	50	Main selection basis of drilling depth is resistivity value.	350	51.5	18m	C
	79	Thayattaw		MA2-39	VES	DRD	>223	38.7	127	From information of existing tube well, it is assumed that potential of target aquifer is low.	350	223	18m	C
	80	Nakyalkhwal	MA2-40	VES	DRD	233-300	33.4	62	Drilling depth is decided by information of existing tube well.	295	67	12m	A	

*1) VES: 垂直電気探査 2D: 2次元電気探査

*2) DRD: Department of Rural Development GH: Golden Hours Construction Co., Ltd. (ローカルコンサルタント) ESS: Earth System Science Co., Ltd. (調査員)

*3) 分類基準表

帯水層能力	比抵抗値から想定される層相 (地下水面下における)	比抵抗値 (Ohm-m)	地下水開発の可能性		推奨 スクリーン長	
低 ↑ ↓ 高 ↑ ↓ 低	未固結堆積物	粘性土主体層 ないし 塩分を含有する帯水層	D-2	困難	-	
			D-1	低い-困難		
		粘土優勢互層 (砂の薄層が帯水層を形成)	10未満	C)	中位-低い	18m
	高	シルト優勢互層	10-15	B	中位	12m
			砂分優勢互層	15-17.5	A	
		砂質土主体層	17.5-40	B	中位	
低	未固結-半固結堆積物	40-50	C	中位-低い	18m	
	半固結堆積物 ないし 礫湿りシルト・粘性土層	50-60	D-2	困難	-	

* 既存資料より推定された、低いポテンシャルの帯水層はCに含む。(比抵抗値の大小問わず)

(3) マグウェー地域

地域	番号	タウンシップ	村落名	ID	調査手法 *1)	調査者 *2)	対象帯水層の推定結果				推定掘削深度 (m)	推定地下水位 (m)	推奨スクリーン長	地下水開発の可能性 *3)
							分布深度 (m)	比抵抗値 (Ω-m)	層厚 (m)	備考				
Magway	81	Magway	Natkan	MG2-01	VES	ESS	121-251	20.4	59	Drilling depth is decided by information of existing tube well.	180	75	12m	A
	82		Thanbo(Ywarhit)	MG2-02	VES	ESS	>73	14.9	47	Drilling depth is decided by information of existing tube well.	120	73	18m	C
	83		Nyaungbinthar	MG2-03	VES	ESS	>148	17.8	52	Drilling depth is decided by information of existing tube well.	200	150	12m	A
	84		Konegyi	MG2-04	VES	ESS	>213	36.4	27	Main selection basis of drilling depth is resistivity value.	240	134	12m	A
	85		Sainggya	MG2-05	VES	ESS	>162	15.8	38	Drilling depth is decided by information of existing tube well.	200	162	18m	B
	86		Thapyaysan(N)	MG2-06	VES	ESS	>139	29.1	51	Drilling depth is decided by information of existing tube well.	190	108	12m	A
	87		Shwekyaw	MG2-07	VES	ESS		18.2	111	Drilling depth is decided by information of existing tube well.	200	89	12m	A
	88		Leikkan	MG2-08	VES	ESS	95-206	39.6	25	Main selection basis of drilling depth is resistivity value.	120	100	12m	A
	89		Ywarhitgyi	MG2-09	VES	ESS	>107	19.2	73	Drilling depth is decided by information of existing tube well.	180	105	12m	A
	90	Chauk	Kanyaygyi	MG2-10	VES	GH	>212	56.2	118	It is assumed that potential of target aquifer is low.	330	212	18m	C
	91		Myaysoon(Ywarhit)	MG2-11	VES	GH	>150	31.2	110	Drilling depth is decided by information of existing tube well.	260	150	12m	A
	92		Zeebwar	MG2-12	2D	ESS	<135	15-21	55	Drilling depth is decided by information of existing tube well.	135	80	18m	B
	93		Yerpyay	MG2-13	VES	GH	>115	22.2	55	Drilling depth is decided by information of existing tube well.	170	115	12m	A
	94		Kyatesu(N)	MG2-14	VES	GH	>117	24.5	28	Main selection basis of drilling depth is resistivity value.	145	23	12m	A
	95		Winkabar	MG2-15	VES	GH	>71	22.9	39	Drilling depth is decided by information of existing tube well.	110	30	12m	A
	96		Kyalkan	MG2-16	VES	GH	>80	23.8	90	Drilling depth is decided by information of existing tube well.	170	100	12m	A
	97		Sudat	MG2-17	VES	GH	>270	39.2	100	Drilling depth is decided by information of existing tube well.	370	270	12m	A
	98		Myaynilan	MG2-18	VES	GH	160-268	44.9	89	Drilling depth is decided by information of existing tube well.	250	160	12m	B
	99	Yenangyaung	Legyinyo	MG2-19	2D	ESS	134-280	23-25	146	Drilling depth is decided by information of existing tube well.	280	134	12m	A
	100	Myolhit	Laytinesin(S)	MG2-20	VES	GH	>109	23.1	91	Drilling depth is decided by information of existing tube well.	200	109	12m	A
101	Tharmyar		MG2-21	VES	GH	170-362	33.1	30	Drilling depth is decided by information of existing tube well.	200	120	12m	A	
102	Aungmyinthar		MG2-22	VES	GH	55-124	16.5	65	From information of existing tube well, it is assumed that potential of target aquifer is low.	120	55	18m	C	
103	Ngwelay		MG2-23	VES	GH	52-112	46.9	63	Drilling depth is decided by information of existing tube well.	115	52	12m	B	
104	Indaw(N)		MG2-24	VES	GH	>110	17.8	30	From information of existing tube well, it is assumed that potential of target aquifer is low.	145	55	18m	C	
105	Htanaungkwin		MG2-25	-	-	-	-	-	Based on evaluation of "step1", it has been excluded from target village.	-	-	-	-	
106	Manawigone	MG2-26	VES	GH	98-305	28.5	32	Drilling depth is decided by information of existing tube well.	130	24	12m	A		
107	Natmauk	Kangyigone	MG2-27	VES	ESS	141-220	26.2	79	Drilling depth is decided by information of existing tube well.	220	141	12m	A	
108		Htonpoutchine	MG2-28	2D	ESS	60-110	15-17	50	Main selection basis of drilling depth is resistivity value.	110	70	18m	B	
109		Padaukgote(Ywargyi)	MG2-29	-	-	-	-	-	Based on evaluation of "step1", it has been excluded from target village.	-	-	-	-	
110		Sellel	MG2-30	2D	ESS	-	<10	-	It has been excluded by low resistivity value. (Less than 100-m)	-	-	-	D-2	
111		Padaukgone	MG2-31	-	-	-	-	-	Based on evaluation of "step1", it has been excluded from target village.	-	-	-	-	
112		Ywartharlay	MG2-32	VES	ESS	-	<10	-	It has been excluded by low resistivity value. (Less than 100-m)	-	-	-	D-2	
113		Wayongone	MG2-33	2D	ESS	<120	12-20	40?	Main selection basis of drilling depth is resistivity value.	120	70	18m	C	
114		Nyaunggone	MG2-34	VES	ESS	57-147	25.1	53?	Drilling depth is decided by information of existing tube well.	110	70	12m	A	
115		Kyugyaung	MG2-35	VES	ESS	>175	15.8	45	Drilling depth is decided by information of existing tube well.	220	140	18m	B	
116	Taungwingyi	Kokkohla	MG2-36	VES	ESS	>210	<10(8.4)	35	From comparison results of resistivity with existing data, it is estimated that low resistivity value shows mixed layer of thin sand layer(aquifer) and clay layer.	245	100	18m	D-1	
117		Kangyigone	MG2-37	2D	ESS	150-230	11	80	Drilling depth is decided by information of existing tube well.	230	70	18m	C	
118		Htaukkyanigwin	MG2-38	VES/2D	ESS/GH	290-477	18.7	30	Main selection basis of drilling depth is resistivity value.	320	100	12m	A	
119		Hlabwegyi	MG2-39	VES	ESS	>225	22	30	Main selection basis of drilling depth is resistivity value.	255	100	12m	A	
120		Yayhtwelgyi	MG2-40	VES	ESS	82-226	37.7	98	Drilling depth is decided by information of existing tube well.	180	40	12m	A	

*1) VES: 垂直電気探査 2D: 2次元電気探査

*2) DRD: Department of Rural Development GH: Golden House Construction Co., Ltd. (ローカルコンサルタント) ESS: Earth System Science Co., Ltd. (調査団)

*3) 分類基準表

帯水層能力	比抵抗値から想定される層相 (地下水面下における)	比抵抗値 (Ohm-m)	地下水開発の可能性	推奨スクリーン長	
低 ↑ 高 ↓ 低	粘性土主体層 ないし 塩分を含有する帯水層	10未満	D-2	困難	18m
	粘土優勢互層 (砂の薄層が帯水層を形成)		D-1	低い-困難	
	シルト優勢互層	10-15	C ^{*)}	中位-低い	
	砂分優勢互層	15-17.5	B	中位	
	砂質土主体層	17.5-40	A	高い	
	未固結-半固結堆積物	40-50	B	中位	
半固結堆積物 ないし 礫混じりシルト・粘性土層	50-60	C	中位-低い	18m	
固結堆積物 (塊状の岩盤)	60超	D-2	困難	-	

*) 既存資料より推定された、低いポテンシャルの帯水層はCに含む。(比抵抗値の大小問わず)

5.5 要請リグに関する諸検討

CDZ プロジェクト事務所は、フェーズ 2 における CDZ での井戸掘削に、5 台の既存リグ及び要請中の 2 台のリグの合計 7 台を投入する計画である。要請されている 2 台のリグ (TOP300 型および TOP500 型各 1 台) の必要性について、検討を加える。

1. 予定掘削本数

フェーズ 2 では、CDZ の 3 地域で、本プロジェクトで資機材を調達する 100 本を含め、深井戸を合計 717 本 (ザガイン地域 275 本、マンダレー地域 180 本、マグウェー地域 262 本) 掘削する予定である。DRD によれば、この内の約半数は民間委託により工事施工可能な井戸となる想定とのことである。そうした場合、上記の 5 年間に CDZ で 359 本 (ザガイン地域 138 本、マンダレー地域 90 本、マグウェー地域 131 本) の深井戸が建設されることになる。

現時点で、これらの井戸の掘削深度は確定されていない。しかし、地域及び地質の特性を考慮すると、おおむね今回の 120 村を対象とした現地調査において明らかになった掘削想定深度の分布割合と同等とみなして良いと考える。

表-5.5.1 は、今回 120 村を調査した結果、当初の井戸掘削検討対象となった 110 村における想定深度分布である。

表-5.5.1 フェーズ-2 で掘削予定井戸の地域毎・深度別集計

	200m 以下	250m 以下	300m 以下	300m 超	計
ザガイン	36 本(92%)	1 本(3%)	2 本(5%)	0 本(0%)	39 本(100%)
マンダレー	16 本(48%)	7 本(21%)	5 本(15%)	5 本(15%)	33 本(100%)
マグウェー	25 本(65%)	6 本(16%)	4 本(11%)	3 本(8%)	38 本(100%)
計	77 本(70%)	14 本(13%)	11 本(10%)	8 本(7%)	110 本(100%)
適用リグ	TOP300	TOP500	TOP750 (HR)		

この深度分布をもとに、フェーズ 2 で CDZ が掘削を予定している 359 本の深度別本数を想定したものが表-2 である。

表-5.5.2 フェーズ 2 で掘削予定井戸の地域毎・深度別集計

	200m 以下	250m 以下	300m 以下	300m 超	計
ザガイン	127 本	4 本	7 本	0 本	138 本
マンダレー	44 本	19 本	14 本	14 本	90 本
マグウェー	85 本	21 本	14 本	10 本	131 本
計	256 本	44 本	35 本	24 本	359 本
適用リグ	TOP300	TOP500	TOP750 (HR)		

2. 既存のCDZ保有リグによる年間掘削可能本数

投入される予定の5台の既存リグが1年間に掘削できる井戸数を評価するために、各リグの直近3か年の掘削実績を下表に示した。

表-5.5.3 CDZでの井戸掘削に投入予定リグの過去3年間の実績

リグ 年度	DRD001	DRD-002	DRD-005	DRD-010	DRD-011
	TOP300	TOP300	TOP300	TOP750HR	TOP750
導入年	1983	1983	1986	2013	2013
2012	7	6	2	-	-
2013	6	9	10	2	2
2014	3	8	14	9	6
合計	16	23	26	11	8

フェーズ2が開始される2017年からの5年間を想定し、各リグの掘削本数について以下のような検討を加えた。

前提となる各リグによる掘削深度は、以下のとおりである。

TOP300：深度200m迄の井戸

TOP500：深度250m迄の井戸

TOP750：深度250mを超える井戸

(1) DRD-001 (TOP300型) リグ (1983年導入)

直近3か年の実績は、2012年度に7本、2013年度に6本の井戸を掘削しているが、2014年度はメンテナンスのため、3本の掘削に留まっている。

CDZプロジェクト事務所は、一般的に一台のリグで平均年間8本の井戸が掘削可能であると主張している。しかし、導入以来すでに30年以上が経過したDRD-001の場合、最近の実績を考慮すると、あきらかに掘削効率の低下が見られる。2013年度の実績である年間6本程度が通常期待できる掘削本数とすることが妥当である。

さらに、記録を見ると同リグは2011年にも大きなメンテナンスを行ったことが伺われる。本リグに関しては、5年間に2回の大きなメンテナンスが必要となると考えておくべきであろう。このメンテナンスがある年度の掘削本数は、2014年度と同じ3本（通常年の掘削本数の1/2）と想定する。

この場合、5年間に掘削できる井戸数は次のようになる。

表-5.5.4 DRD-001リグによる掘削可能本数

区分	年数	年間掘削本数	計
通常年	3年	6本	18本
大きなメンテナンスがある年度	2年	3本	6本
計			24本

(2) DRD-002 (TOP300 型) リグ (1983 年導入)

DRD-002 リグは、DRD-001 同様 1983 年の導入であり、導入後 30 年以上が経過しているものの、機材の状況は DRD-001 よりも良好に保たれているものと思われ、3 年間で 23 本（年平均 7.7 本）の掘削を行っている（表-3）。特に、2013 年及び 2014 年には、それぞれ 9 本、8 本の掘削実績を有する。したがって、年間平均 8 本の掘削は可能と評価できる。

大きなメンテナンスについては、導入後 30 年以上が経過しているため、DRD-001 リグと同一条件と考えて良い。その場合、大きなメンテナンスがある年度は、（通常年の 1/2 程度である）4 本掘削できることとなる。

表-5.5.5 DRD-002 リグによる掘削可能本数

区分	年数	年間掘削本数	計
通常年	3 年	8 本	24 本
大きなメンテナンスがある年度	2 年	4 本	8 本
計			32 本

(3) DRD-005 (TOP300 型) リグ (1986 年導入)

DRD-005 リグは、1986 年の導入後 30 年弱が経過しているが、3 年間で 26 本（年平均 8.7 本）を掘削しており、1 年間に 8 本の掘削は十分可能である。記録を見ると、DRD-005 リグは、2009 年度および 2012 年度に大きなメンテナンスを行っていると思われる。このため、このリグもフェーズ-2 の 5 年間に 2 度の大きなメンテナンスを行うと想定する。この期間の掘削本数は、通常年の 1/2（4 本）とする。

表-5.5.6 DRD-005 リグによる掘削可能本数

区分	年数	年間掘削本数	計
通常年	3 年	8 本	24 本
大きなメンテナンスがある年度	2 年	4 本	8 本
計			32 本

(4) DRD-010 (TOP750 型)、DRD-011 (TOP750HR 型) リグ (2013 年導入)

DRD-010 および DRD-011 の 2 台のリグは、2013 年の導入から 2 年しか経過していないため、機材の状況も良好であり、深度 300m 迄の井戸であれば、CDZ プロジェクト事務所が想定する年間 8 本の掘削は十分可能である。

深度が 300m を超える井戸については、深度が深くなるためより多くの時間が必要となる。DRD-011 が通年を通して稼働した 2014 年の掘削数 6 本を年間の掘削数とするのが妥当であろう。これらの 2 台のリグについては、フェーズ-2 の期間中に 1 度の大きなメンテナンスを行うと想定する。その場合、これらのリグの 1 台がフェーズ-2 の期間中に掘削できる本数は次のようになる。

表-5.5.7 DRD-010 あるいは DRD-011 リグによる掘削本数（深度 300m まで）

区分	年数	年間掘削本数	計
通常年	4年	8本	32本
大きなメンテナンスがある年度	1年	4本	4本
計			36本

表-5.5.8 DRD-010 あるいは DRD-011 リグによる掘削本数（深度 300m 超）

区分	年数	年間掘削本数	計
通常年	4年	6本	24本
大きなメンテナンスがある年度	1年	3本	3本
計			27本

既存の5台のリグによる掘削可能本数は以上の通りである。

3. 既存保有リグによるフェーズ2実施の検討及び新規リグ投入の必要性

(再掲) 表-5.5.2 フェーズ2で掘削予定井戸の地域毎・深度別集計

	200m 以下	250m 以下	300m 以下	300m 超	計
ザガイン	127本	4本	7本	0本	138本
マンダレー	44本	19本	14本	14本	90本
マグウェー	85本	21本	14本	10本	131本
計	256本	44本	35本	24本	359本
適用リグ	TOP300	TOP500	TOP750 (HR)		

上記の井戸数を、DRD が投入予定のリグで掘削を行った場合、5年間で全数を掘削できるか否かの検討を行う。

- 深度 200m 以下の井戸（TOP300 で掘削）

表-3、表-4、表-5 から、フェーズ2の5年間でTOP300型3台により、88本の掘削が可能である。これは計画の256本を大幅に下廻り、168本の掘残しが発生する。

- 深度 250m 以下の井戸の場合（TOP500 型で掘削）

DRD は、TOP500型を1台有しているが、油圧システムの故障を修理したが、掘削能力が150m程度に低下したため、250m級の井戸の掘削には使用できない。したがって、TOP500型または同等以上の能力を有するリグの投入が必要となる。

- 深度 300m 以下の井戸の場合（TOP750 型・TOP750HR で掘削）

TOP750型およびTOP750HR各1台の合計2台で、5年間で72本（14.4本/年）の井戸掘削が可能である。この深度に該当する井戸数は35本であるため、2.4年で全数の掘削が完了する。そこで、残り2.6年に深度300mを超える井戸の掘削に投入することができる。

- 深度 300m を超える井戸の場合（TOP750 型・TOP750HR で掘削）

深度300mを超える井戸については、5年間で54本（10.8本/年）の掘削が可能であるから、300mを超える井戸24本は、2.22年となり、2.3年（<2.6年）で掘削が完了する。

<TOP500 型導入の必要性>

上記の検討から、フェーズ 2 では TOP500 型または同等以上の能力を有するリグが必要であることは明らかである。TOP500 型で掘削できない深度 250m を超える井戸については、DRD が既に保有している TOP750 型及び TOP750HR 型各 1 台（合計 2 台）で対応が可能であるため、TOP500 型を投入すれば良いことになる。

TOP500 型の稼働開始時期を 2017 年 9 月と想定すると、2022 年 3 月までの稼働期間は 4 年 7 ヶ月間（約 4.6 年間）となる。新規リグであるため、最も順調な掘削効率を維持できるものと考え 1 年間の掘削可能井戸数を 10 本、計画期間内の大きなメンテナンスは不要とする。

表-5.5.9 変更要請の TOP500 型リグによる掘削本数（深度 250m まで）

区分	年数	年間掘削本数	計
通常年	4.6 年	10 本	46 本
大きなメンテナンスがある年度	0 年	0 本	0 本
計			46 本

フェーズ 2 で想定されている深度 250m までの井戸数は 44 本であり、上記の検討結果から、目標を達成できることになる。

<TOP300 型導入の必要性>

深度 200m までの井戸について DRD の保有リグ 3 台で掘削した場合、フェーズ 2 終了時に 168 本の掘残しがでる計算になる。したがって、追加のリグの投入が必要となる。

要請されている TOP300 型を 1 台新規に調達して投入した場合、フェーズ 2 の期間中の掘削できる井戸数は次のようになる。新規リグであるため、1 年間の掘削可能井戸数を 10 本、計画期間内の大きなメンテナンスは不要とする。

表-5.5.10 変更要請の TOP300 型リグによる掘削本数（深度 200m まで）

区分	年数	年間掘削本数	計
通常年	4.6 年	10 本	46 本
大きなメンテナンスがある年度	0 年	0 本	0 本
計			46 本

表-5.5.10 に示すように新規に TOP300 型を調達すれば、期間中に 46 本の井戸を掘削できることになるが、依然として 122 本の掘残しが発生することになる。

以上の検討から、TOP300 型 1 台の調達の必要性は極めて高いが、そのみでは DRD の目標は達成できないことが明らかである。したがって、DRD がフェーズ 2 の目標を達成するためには、我が国に要請しているフェーズ 2 プロジェクト以外に、他のドナー、NGO 等からの支援を要請する必要がある。また、DDA から引き継いだ老朽化した UNICEF 供与のリグについても整備を行い、年間僅かな本数であっても掘削に充当することが必要と考えられる。

以上

<参考：掘削に要する日数>

DRD は、深度 300m 程度までの井戸の掘削に要する日数を概ね次のように想定している。

付表 井戸掘削の想定所要日数

掘削作業工種	想定所要日数	備考
準備作業	1 日	
泥水ピット準備他	5 日	
掘削	20 日	
ケーシング設置	1 日	
デベロプメント・揚水試験	3 日	揚水試験は、エアーリフトにより、水が清浄になるまで継続する
合計	30 日	

調査団は、孔内検層および水中ポンプによる揚水試験の実施を提言している。これらを実施した場合、上記日数に 3 日を加えた日数で 1 本の井戸掘削を終了できると想定される。したがって、深度 300m の井戸掘削所要日数を 33 日とする。これをベースに考えると、井戸深度毎の所要掘削日数は概ね次のように想定される。

深度 200m まで：27 日間

深度 250m まで：30 日間

深度 300m まで：33 日間

深度 400m まで：40 日間

これらの所要日数は、地質の状況その他の条件によって大きく変化する可能性があることに留意する必要がある。またこの所要日数は、現地での正味の工事期間であり、実際には現場への移動時間、工事終了後の機材洗浄・注油などの通常の保守作業などが必要とされる。その点を考慮すると、リグ 1 台で平均的に年間 8 本の井戸が掘削可能であるとの CDZ の主張は妥当なもの判断できる。

5.6 水中ポンプ一覧表

水中ポンプ一覧表（ザガイン地域）

地域	No.	タウンシップ	村落名	ID	想定掘削深度	想定静水位	DRD提案によるポンプ揚程	確定したポンプ揚程	3相公共電源の有無
Sagaing	1	Budalin	Yonedaw	SA2-01	160 m	40	150 m	100 m	
	2		Nyaungbinthar	SA2-02	160 m	40	150 m	100 m	
	3		Maungthaung	SA2-03	150 m	40	100 m	100 m	
	4		Kantawthar	SA2-04	125 m	39	150 m	100 m	
	5		Mhonehtoo	SA2-05	100 m	30	100 m	60 m	
	6		Watluu-I	SA2-06	100 m	36	60 m	60 m	
	7	Chaungoo	Thanbinkan	SA2-07	150 m	70	150 m	150 m	
	8		Natyaygan	SA2-08	200 m	61	100 m	150 m	
	9	Ayadaw	Sithar	SA2-09	100 m	44	100 m	100 m	
	10		Oakkan	SA2-10	230 m	3	200 m	100 m	有
	11		Warryaung	SA2-11	250 m	55	200 m	150 m	有
	12		Wartannkalay	SA2-12	105 m	43	100 m	100 m	
	13		Yathar	SA2-13	-	-			
	14		Zeepinlel	SA2-14	130 m	50	100 m	100 m	有
	15	Salingyi	Yonebinyoe	SA2-15	-	-			
	16		Minntaw	SA2-16	170 m	40	60 m	100 m	
	17		Kine	SA2-17	120 m	40	150 m	100 m	
	18	Myinmu	Kalarpyan	SA2-18	200 m	36	150 m	100 m	
	19		Hlayookan	SA2-19	195 m	121	150 m	150 m	
	20		Makyeekan	SA2-20	-	-			
	21		Watkya	SA2-21	200 m	36	150 m	100 m	
	22		(Ywarma)	SA2-22	180 m	55	150 m	150 m	
	23		Magyidaw	SA2-23	-	-			
	24	Kanbalu	Thindaw	SA2-24	80 m	50	60 m	60 m	
	25		Lwinyi	SA2-25	220 m	31	150 m	150 m	
	26		(Kyunkone)	SA2-26	185 m	60	150 m	150 m	
	27		Ingoteto	SA2-27	150 m	50	100 m	60 m	
	28		Myayhtoo	SA2-28	200 m	150	150 m	200 m	
	29		Khaowntar	SA2-29	215 m	30	100 m	100 m	
	30		Nyuangkanthar	SA2-30	175 m	50	100 m	150 m	
	31		Myaymon	SA2-31	155 m	80	100 m	100 m	有
	32		Layytwinzin	SA2-32	210 m	120	60 m	150 m	
	33		Chaungchar	SA2-33	205 m	60	100 m	150 m	
	34	Dabayin	Minyogone	SA2-34	110 m	3	100 m	60 m	有
	35		Shandaw	SA2-35	250 m	0	200 m	150 m	有
	36		Kyuntaw (S)	SA2-36	100 m	68	60 m	100 m	有
	37	Wetlet	(Ywarthit)	SA2-37	130 m	55	100 m	100 m	
	38		Poukkan	SA2-38	150 m	30	60 m	100 m	
	39		Shwenyaungtaw	SA2-39	-	-			
	40		Sabeidaw	SA2-40	-	-			

水中ポンプ一覧表（マンダレー地域）

地域	No.	タウンシップ	村落名	ID	想定掘削深度	想定静水位	DRD提案によるポンプ揚程	確定したポンプ揚程	3相公共電源の有無
Mandalay	41	Mahlaing	Htantawgyi	MA2-01	150 m	60	60 m	100 m	
	42		Ason	MA2-02	150 m	60	60 m	100 m	
	43		Khinthar(S)	MA2-03	270 m	60	60 m	100 m	
	44	Myingyan	Chaysay	MA2-04	160 m	50	100 m	100 m	
	45		Talgyi	MA2-05	170 m	50	60 m	100 m	
	46		Kuywar	MA2-06	-	-			有
	47		Yonehto	MA2-07	165 m	60	100 m	100 m	有
	48	Ngazon	Nyaungwum	MA2-08	-	-			
	49		Konelel	MA2-09	-	-			
	50		Phaungkadaw	MA2-10	-	-			
	51		Kaungzin	MA2-11	250 m	100	150 m	150 m	
	52	Natogyi	Ywarsite	MA2-12	-	-			
	53		Kyaungnan	MA2-13	-	-			
	54		Kyaungkangyibin	MA2-14	200 m	167	100 m	200 m	有
	55	Taungtha	Nyaunggone	MA2-15	150 m	61	60 m	100 m	
	56		Chaungnar	MA2-16	-	-			
	57		Chaungsone(La)	MA2-17	140 m	98	100 m	150 m	有
	58		Kyaukkartaungkone	MA2-18	-	-			
	59		Tharzi	MA2-19	290 m	154	200 m	200 m	
	60		Kanaye	MA2-20	265 m	105	200 m	200 m	
	61	Yamethin	Tharyarmaing	MA2-21	200 m	150	100 m	200 m	
	62		Oakpo	MA2-22	260 m	30	100 m	100 m	
	63	Pyawbwe	Kangyi	MA2-23	350 m	200	250 m	250 m	
	64		Htanekan	MA2-24	270 m	30	150 m	150 m	
	65		Waryonesu	MA2-25	305 m	11	100 m	100 m	
	66	Nyaungoo	Talkone	MA2-26	275 m	150	200 m	200 m	
	67		Tawbyar	MA2-27	265 m	176	200 m	200 m	
	68		Setsetyo	MA2-28	390 m	269	300 m	300 m	
	69		Kanzauk	MA2-29	200 m	65	200 m	150 m	
	70		Talbindel	MA2-30	300 m	210	250 m	250 m	
	71		Mongywettaw	MA2-31	270 m	210	250 m	250 m	
	72		Phoenekan	MA2-32	125 m	35	150 m	100 m	
	73		Nyaungbinthar	MA2-33	200 m	100	200 m	150 m	
	74		Saingan(Tetide)	MA2-34	370 m	263	300 m	300 m	
	75		Byugyi	MA2-35	310 m	230	300 m	300 m	
	76	Kyaukpadaung	Aleywar-2	MA2-36	230 m	150	200 m	200 m	
	77		Tangkan	MA2-37	-	-			有
	78		Lelgyi(Ma)	MA2-38	350 m	51.5	100 m	100 m	
	79		Thayattaw	MA2-39	350 m	223	250 m	300 m	
	80		Nakyatkhwai	MA2-40	295 m	67	300 m	250 m	有

水中ポンプ一覧表（マグウェー地域）

地域	No.	タウンシップ	村落名	ID	想定掘削深度	想定静水位	DRD提案によるポンプ揚程	確定したポンプ揚程	3相公共電源の有無
Magway	81	Magway	Natkan	MG2-01	180 m	75	150 m	100 m	有
	82		Thanbo(Ywarthit)	MG2-02	120 m	73	100 m	100 m	
	83		Nyaungbinthar	MG2-03	200 m	150	150 m	200 m	
	84		Konegyi	MG2-04	240 m	134	200 m	200 m	
	85		Sainggya	MG2-05	200 m	162	150 m	200 m	
	86		Thapyaysan(N)	MG2-06	190 m	108	150 m	150 m	
	87		Shwekyaw	MG2-07	200 m	89	150 m	150 m	
	88		Leikkan	MG2-08	120 m	100	100 m	100 m	
	89		Ywarthitgyi	MG2-09	180 m	105	150 m	150 m	
	90	Chauk	Kanyaygyi	MG2-10	330 m	212	300 m	300 m	
	91		(Ywarthit)	MG2-11	260 m	150	250 m	200 m	
	92		Zeebwar	MG2-12	135 m	80	150 m	100 m	
	93		Yenpyay	MG2-13	170 m	115	150 m	150 m	
	94		Kyatesu(N)	MG2-14	145 m	23	100 m	60 m	
	95		Winkabar	MG2-15	110 m	30	100 m	60 m	
	96		Kyatkan	MG2-16	170 m	100	150 m	100 m	
	97		Sudat	MG2-17	370 m	270	300 m	300 m	
	98		Myaynilain	MG2-18	250 m	160	200 m	200 m	
	99	Yenangyaung	Legyinyo	MG2-19	280 m	134	250 m	200 m	
	100	Myothit	Laytinesin(S)	MG2-20	200 m	109	200 m	150 m	
	101		Tharmyar	MG2-21	200 m	120	200 m	150 m	
	102		Aungmyinthar	MG2-22	120 m	55	100 m	100 m	
	103		Ngwelay	MG2-23	115 m	52	100 m	100 m	
	104		Indaw(N)	MG2-24	145 m	55	100 m	100 m	
	105		Htanaungkwin	MG2-25	-	-			
	106		Manawtgone	MG2-26	130 m	24	100 m	100 m	有
	107	Natmauk	Kangyigone	MG2-27	220 m	141	200 m	200 m	
	108		Htonepoutchine	MG2-28	110 m	70	100 m	100 m	
	109		Padaukngote(Ywargyi)	MG2-29	-	-			
	110		Sellel	MG2-30	-	-			
	111		Padaukgone	MG2-31	-	-			
	112		Ywartharlay	MG2-32	-	-			
	113		Wayonegone	MG2-33	120 m	70	100 m	100 m	
	114		Nyaunggone	MG2-34	110 m	70	100 m	100 m	
	115	Kyugyaung	MG2-35	220 m	140	200 m	200 m		
	116	Taungdwingyi	Kokkohla	MG2-36	245 m	100	100 m	200 m	有
	117		Kangyigone	MG2-37	230 m	70	150 m	150 m	
	118		Htaukkyantgwin	MG2-38	320 m	100	300 m	250 m	有
	119		Hlebwegyi	MG2-39	255 m	100	250 m	200 m	
	120		Yayhtwetgyi	MG2-40	180 m	40	150 m	150 m	

5.7 社会経済調査結果概要

地域	プロジェクトID	村落	人口	世帯数	世帯収入レベル別世帯数			世帯収入平均 (Kyat)	電化状況	村内主要産業		既存水源数		村落給水委員会							飲料用水源		生活用水		現況水料金単価 (MMK/gal)	水汲み時間 (分)		開発事業の優先度 (聞き取り結果)					1世帯当たりの年額O&Mコスト (MMK)	月額O&Mコストの平均世帯収入に対する割合		
					富裕	中間	貧困			第1位	第2位	稼働	非稼働	設立状況	男性委員	女性委員	O&M実施経緯	積立金	財務記録	運転委託	雨季	乾季	雨季	乾季		雨季	乾季	給水	保健	教育	電化	未定				
ザ ガイ ン	SA2-01	Yonedaw	450	96	30	50	16	131,500	接続	農業	日雇い	1	0	無し	0	0	有り	無し	無し	無し	無し	深井戸	深井戸	深井戸	深井戸	4	5	6	2	2				3	49,834	3.16%
	SA2-02	Nyaungbinthar	223	53	20	20	13	192,100	接続	農業	畜産	2	0	設立済み	6	0	有り	無し	無し	無し	無し	貯水池	深井戸	深井戸	深井戸	3	36	58	2		1			44,731	1.94%	
	SA2-03	MaungHtanng	4,303	1,010	300	550	160	247,000	接続	農業	畜産	1	0	無し	0	0	無し	無し	無し	無し	無し	深井戸	深井戸	深井戸	深井戸	0	3	4	6		1		1	45,293	1.53%	
	SA2-04	Kantawthar	450	110	33	43	34	133,000	未接続	農業		1	0	無し	0	0	無し	有り	有り	無し	無し	深井戸	深井戸	深井戸	深井戸	4	17	13	1	4		2		43,491	2.73%	
	SA2-05	Mhonehtoo	204	50	20	20	10	100,500	未接続	農業		1	0	設立済み	5	0	有り	無し	無し	無し	無し	深井戸	深井戸	深井戸	深井戸	0	11	10	3	1		1	3	43,376	3.60%	
	SA2-06	Wattuu I	860	220	90	90	40	204,000	未接続	農業	畜産	2	0	無し	0	0	有り	無し	無し	無し	無し	深井戸	深井戸	深井戸	深井戸	0	20	20	6	2	1	1		41,559	1.70%	
	SA2-07	Thann Pin Kan	935	198	80	90	28	145,000	未接続	農業	畜産	1	0	設立済み	9	0	無し	有り	有り	有り	有り	共同水栓	共同水栓	共同水栓	共同水栓	4	0	0	1	1	2	6		57,375	3.30%	
	SA2-08	Nat Yay Kan	900	171	60	80	31	158,000	未接続	農業	畜産	2	0	設立済み	9	4	有り	有り	有り	有り	有り	深井戸	深井戸	深井戸	深井戸	4	9	7			10		63,947	3.37%		
	SA2-09	Sithar	412	85	40	40	5	125,500	未接続	農業	畜産	1	0	設立済み	10	0	有り	無し	無し	無し	無し	深井戸	深井戸	深井戸	深井戸	0	8	10	7	1		1		51,530	3.42%	
	SA2-10	Oakkan	800	300	110	150	40	127,000	接続	農業		3	0	設立済み	11	0	有り	有り	有り	有り	有り	深井戸	深井戸	深井戸	深井戸	0	26	32	7	1		1		28,350	1.86%	
	SA2-11	Waryuang	4,000	920	300	500	120	241,000	未接続	農業	畜産	2	0	設立済み	6	0	有り	有り	有り	有り	有り	深井戸	深井戸	深井戸	深井戸	0	1	1	1	1		5		52,826	1.83%	
	SA2-12	WarTannKalay	1,000	100	30	40	30	182,000	未接続	農業	畜産	2	0	設立済み	0	4	有り	無し	無し	無し	有り	深井戸	深井戸	深井戸	深井戸	4	26	38	5			2		106,313	4.87%	
	SA2-13	Yathar	766	318	150	120	48	166,000	未接続	農業		1	0	設立済み	10	0	有り	有り	有り	有り	有り	深井戸	深井戸	深井戸	深井戸	0	9	10	3	2		3				
	SA2-14	Zeepinlae	1,879	350	100	200	50	162,500	未接続	農業	畜産	2	0	設立済み	10	0	有り	無し	無し	無し	無し	深井戸	深井戸	深井戸	深井戸	3	9	11	3	3	1			57,075	2.93%	
	SA2-15	Yonepinyoe	128	23	10	10	3	100,000	未接続	農業	畜産	1	0	設立済み	14	1	無し	無し	無し	無し	無し	深井戸	深井戸	深井戸	深井戸	3	48	44	8			1				
	SA2-16	MinDaw	1,100	280	100	120	60	405,000	未接続	農業		1	0	無し	0	0	有り	無し	無し	無し	無し	個人所有井戸	個人所有井戸	個人所有井戸	個人所有井戸	0	39	33	3	1		4	1	41,766	0.86%	
	SA2-17	Kine	280	72	30	30	12	112,000	未接続	農業		1	0	無し	0	0	無し	無し	無し	無し	無し	浅井戸	浅井戸	浅井戸	浅井戸	0	10	10	7	1		1	1	41,344	3.08%	
	SA2-18	Kalapyan	383	78	35	30	13	150,500	未接続	農業	畜産	1	0	無し	0	0	無し	無し	無し	無し	無し	深井戸	深井戸	深井戸	深井戸	4	16	12	7			2		52,202	2.89%	
	SA2-19	HlayOoKan	585	63	20	30	13	133,000	未接続	農業		2	0	設立済み	4	0	無し	無し	無し	無し	有り	保護無し湧水	保護無し湧水	保護無し湧水	保護無し湧水	3	28	44	8		1			112,821	7.07%	
	SA2-20	Magyikan	1,148	253	100	100	53	273,500	未接続	農業		1	0	設立済み	5	0	有り	無し	無し	無し	無し	浅井戸	浅井戸	浅井戸	浅井戸	3	7	8	2		2	5				
	SA2-21	Watkyia	748	153	50	70	33	202,000	未接続	農業		2	0	設立済み	5	0	有り	有り	有り	有り	有り	共同水栓	共同水栓	共同水栓	共同水栓	3	0	0	5	1	1			51,975	2.14%	
	SA2-22	ThaHtayKone	410	55	20	20	15	313,500	未接続	農業	畜産	1	0	無し	0	0	有り	無し	無し	無し	無し	深井戸	深井戸	深井戸	深井戸	3	6	4	6	1	1	1		90,573	2.41%	
	SA2-23	Magyitaw	161	39	15	15	9	186,500	未接続	農業	畜産	1	0	無し	0	0	有り	有り	有り	有り	有り	深井戸	深井戸	深井戸	深井戸	3	7	7			2	4	4			
	SA2-24	Thindaw	817	60	30	25	5	189,000	接続	農業	畜産	1	0	設立済み	3	0	有り	無し	無し	無し	無し	貯水池	深井戸	深井戸	深井戸	3	19	23	4	5				144,762	6.38%	
	SA2-25	LwinGyi	499	60	20	30	10	162,000	接続	農業		1	0	設立済み	5	0	有り	無し	無し	無し	無し	深井戸	深井戸	深井戸	深井戸	3	8	8	5	3				101,048	5.20%	
	SA2-26	Kyaunkone	1,171	253	100	100	53	211,000	接続	農業		1	0	無し	0	0	無し	無し	無し	無し	無し	貯水池	深井戸	深井戸	深井戸	3	6	6	6	4				56,236	2.22%	
	SA2-27	Inngototo	1,278	280	105	105	70	165,500	未接続	農業		1	1	無し	0	0	無し	無し	無し	無し	有り	深井戸	深井戸	深井戸	深井戸	0	11	75	2	6		1		48,524	2.44%	
	SA2-28	Myayhtoo	1,844	386	195	150	41	111,667	接続	農業	畜産	2	0	無し	0	0	無し	無し	無し	無し	無し	深井戸	深井戸	深井戸	深井戸	0	24	16	5	2	1	1		89,483	6.68%	
	SA2-29	Khnowntar	1,004	104	30	60	14	190,000	未接続	農業		2	0	無し	0	0	無し	無し	無し	無し	無し	深井戸	深井戸	深井戸	深井戸	0	6	6	2	1		4	2	102,632	4.50%	
	SA2-30	Nyaungkanthar	539	123	30	65	28	172,000	未接続	農業	畜産	1	0	無し	0	0	無し	無し	無し	無し	無し	貯水池	貯水池	貯水池	貯水池	0	18	42	8					53,243	2.58%	
	SA2-31	Myaymon	2,527	415	140	260	15	224,000	未接続	農業		1	0	無し	0	0	無し	無し	無し	無し	有り	深井戸	深井戸	深井戸	深井戸	0	10	22	2	1	1	3	1	64,735	2.41%	
	SA2-32	Laytwinzin	714	150	50	70	30	411,500	未接続	農業	畜産	1	0	無し	0	0	無し	有り	有り	有り	有り	貯水池	深井戸	深井戸	深井戸	4	15	23	4		1	2		57,834	1.17%	
	SA2-33	Chaugchar	513	102	30	55	17	203,000	未接続	農業		1	0	設立済み	5	0	無し	無し	無し	無し	無し	貯水池	その他	その他	その他	0	5	6		2		7		61,107	2.51%	
	SA2-34	Minyogone	445	79	30	30	19	164,000	未接続	農業		1	0	無し	0	0	有り	無し	無し	無し	無し	深井戸	深井戸	深井戸	深井戸	0	20	20	8					59,885	3.04%	
	SA2-35	Shandaw	415	70	25	35	10	230,100	未接続	農業		1	0	無し	0	0	有り	無し	無し	無し	無し	深井戸	深井戸	深井戸	深井戸	0	19	47	9					72,032	2.61%	
	SA2-36	Kyuntaw	420	100	30	40	30	144,500	未接続	農業		1	0	無し	0	0	無し	無し	無し	無し	無し	深井戸	深井戸	深井戸	深井戸	0	11	11	5			1	2	44,651	2.58%	
	SA2-37	Palae Thwe	250	63	30	30	3	131,000	未接続	農業	畜産	1	0	無し	0	0	有り	無し	無し	無し	無し	深井戸	深井戸	深井戸	深井戸	3	17	19	6	1			1	42,188	2.68%	
	SA2-38	Poukkan	1,500	267	100	100	67	144,000	未接続	農業	畜産	1	0	無し	0	0	無し	無し	無し	無し	無し	深井戸	深井戸	深井戸	深井戸	0	6	5	1	4		3		59,726	3.46%	
	SA2-39	Shwenyaungta w	270	70	25	30	15	129,500	未接続	農業	畜産	1	0	無し	0	0	無し	無し	無し	無し	無し	深井戸	深井戸	深井戸	深井戸	0	12	17	5	3		1				
	SA2-40	Sabeitaw	250	57	20	20	17	223,500	未接続	農業	畜産	2	0	無し	0	0	無し	無し	無し	無し	無し	深井戸	深井戸	深井戸	深井戸	0	14	19		3		6				
マン ダ ン グ レ ー	MA2-01	Htantawgy	284	100	35	45	20	335,455	未接続	農業		1	0	無し	0	0	無し	無し	無し	無し	深井戸	深井戸														

資料5. その他の資料・情報

地域	プロジェクトID	村落	人口	世帯数	世帯収入レベル別世帯数			世帯収入平均 (Kyat)	電化状況	村内主要産業		既存水源数		村落給水委員会								飲料用水源		生活用水		現況水料金単価 (MMK/ガロン)	水汲み時間 (分)		開発事業の優先度 (聞き取り結果)					1世帯当たりの年額O&Mコスト (MMK)	月額O&Mコストの平均世帯収入に対する割合
					富裕	中間	貧困			第1位	第2位	稼働	非稼働	設立状況	男性委員	女性委員	O&M実施経緯	積立金	財務記録	運転委託	雨季	乾季	雨季	乾季	雨季		乾季	給水	保健	教育	電化	未定			
マ グ ウ エ イ	MG2-01	Natkan	1,244	310	150	100	60	331,000	未接続	農業	畜産	1	0	設立済み	20	0	有り	無し	無し	有り	貯水池	貯水池	貯水池	貯水池	0	41	56	4			4		49,336	1.07%	
	MG2-02	Thanbo	297	64	25	35	4	238,000	接続	農業		1	0	設立済み	5	2	無し	無し	無し	有り	貯水池	貯水池	貯水池	貯水池	3	57	77	5	1			1	101,724	1.73%	
	MG2-03	Nyaungpinthar	1,450	267	95	150	22	198,500	未接続	農業		2	0	設立済み	10	0	有り	無し	無し	無し	貯水池	貯水池	共同水栓	共同水栓	3	21	29	3				1	87,535	4.27%	
	MG2-04	Konegyi	1,187	254	100	100	54	205,500	未接続	農業		2	0	設立済み	7	0	有り	無し	無し	有り	共同水栓	共同水栓	深井戸	深井戸	0	37	47	5					79,248	3.55%	
	MG2-05	Sainggya	1,760	416	150	200	66	275,500	未接続	農業	日雇い	2	0	設立済み	5	0	有り	無し	無し	有り	深井戸	深井戸	深井戸	深井戸	3	83	88	6			1	1	42,188	2.40%	
	MG2-06	Thapyaysan (N)	250	72	30	38	4	342,500	未接続	農業		1	0	設立済み	7	0	有り	有り	有り	有り	深井戸	深井戸	深井戸	深井戸	3	65	82	7					32,357	1.03%	
	MG2-07	Shwekyaw	253	95	35	40	20	113,000	未接続	農業		2	0	設立済み	5	2	無し	無し	無し	有り	深井戸	深井戸	深井戸	深井戸	0	31	55	7			1		52,876	2.39%	
	MG2-08	Leikkan	1,134	228	90	95	43	145,000	未接続	農業		2	0	設立済み	11	0	有り	無し	無し	有り	深井戸	深井戸	深井戸	深井戸	3	49	72	4	1				71,332	3.04%	
	MG2-09	Ywarthitgyi	1,820	310	140	140	30	176,000	未接続	農業	手芸品	1	0	設立済み	5	0	有り	無し	無し	有り	深井戸	深井戸	深井戸	深井戸	3	36	47	2		1	2		128,900	3.38%	
	MG2-10	Kanyaygyi	1,246	230	100	100	30	219,800	未接続	農業	畜産	2	0	設立済み	10	0	無し	無し	無し	有り	貯水池	貯水池	深井戸	深井戸	4	34	48	7					97,521	4.89%	
	MG2-11	Myaysoon	328	63	26	26	11	160,100	未接続	農業	畜産	1	0	無し	0	0	無し	無し	無し	有り	貯水池	深井戸	深井戸	深井戸	4	54	43	8					50,987	5.08%	
	MG2-12	Zeenwar	1,175	245	100	100	45	304,000	接続	農業		2	0	無し	0	0	無し	無し	無し	有り	深井戸	貯水池	深井戸	貯水池	0	39	64	4					52,313	1.40%	
	MG2-13	Yenpyay	155	36	10	20	6	104,500	未接続	農業	畜産	1	0	設立済み	12	0	無し	無し	無し	無し	貯水池	貯水池	個人所有井戸	個人所有井戸	3	26	130	7				1	46,391	4.17%	
	MG2-14	Kyatesu	720	165	80	80	5	129,500	未接続	農業	畜産	2	0	無し	0	0	有り	有り	有り	有り	貯水池	個人所有井戸	個人所有井戸	個人所有井戸	4	9	26	5				1	47,657	2.99%	
	MG2-15	Winkabar	2,600	580	200	320	60	98,000	未接続	農業	畜産	2	0	設立済み	5	0	無し	有り	有り	有り	個人所有井戸	個人所有井戸	個人所有井戸	個人所有井戸	3	7	9	1	4			2	1	43,808	4.05%
	MG2-16	Kyatkan	478	116	30	50	36	232,000	未接続	農業	畜産	2	0	無し	0	0	無し	無し	無し	無し	個人所有井戸	個人所有井戸	個人所有井戸	個人所有井戸	4	4	58	8					111,533	1.57%	
	MG2-17	Sudat	450	96	30	60	6	164,500	接続	農業		1	0	無し	0	0	無し	無し	無し	無し	貯水池	個人所有井戸	貯水池	個人所有井戸	3	26	42	4					115,838	5.65%	
	MG2-18	Myayinalin	235	38	12	16	10	125,800	未接続	農業		2	0	無し	0	0	無し	無し	無し	無し	貯水池	深井戸	深井戸	深井戸	3	23	151	8					94,602	7.67%	
	MG2-19	Lelkyinyoe	1,500	297	80	154	63	202,000	未接続	農業		2	0	設立済み	26	0	無し	有り	有り	無し	深井戸	深井戸	深井戸	深井戸	3	25	31	7			1		45,710	3.90%	
	MG2-20	Laytinesin	2,246	597	200	320	77	186,500	未接続	農業	畜産	2	0	設立済み	11	0	有り	無し	無し	有り	貯水池	深井戸	深井戸	深井戸	0	14	26	5		1	2		68,325	2.04%	
	MG2-21	Tharmyar	3,211	571	200	300	71	217,000	未接続	農業	畜産	2	0	設立済み	10	0	無し	有り	有り	有り	貯水池	深井戸	深井戸	深井戸	3	44	49	9				1	67,997	2.62%	
	MG2-22	Ayaungmyintha	1,260	197	100	65	32	174,000	未接続	農業	畜産	2	0	設立済み	5	0	有り	無し	無し	無し	貯水池	深井戸	深井戸	深井戸	0	38	36	9		1			28,454	3.26%	
	MG2-23	Ngwelay	910	340	100	200	40	212,000	未接続	農業	畜産	1	0	設立済み	10	0	有り	無し	無し	無し	貯水池	深井戸	深井戸	深井戸	0	38	39	7		1		1	25,662	1.12%	
	MG2-24	Indaw(N)	490	203	80	120	3	100,000	未接続	農業	畜産	1	0	設立済み	5	0	有り	無し	無し	無し	貯水池	貯水池	個人所有井戸	個人所有井戸	4	10	230	10						2.14%	
	MG2-25	Htanaungkwin	1,528	228	90	110	28	100,000	未接続	農業	畜産	1	0	無し	0	0	有り	無し	無し	有り	貯水池	貯水池	深井戸	深井戸	3	17	19	10					46,439		
	MG2-26	Manowtgone	795	182	70	100	12	100,000	未接続	農業		1	0	無し	0	0	無し	有り	有り	無し	貯水池	貯水池	個人所有井戸	個人所有井戸	3	10	230	10					100,861	3.87%	
	MG2-27	Kangyigone	350	65	20	30	15	242,000	接続	農業		1	0	無し	0	0	無し	有り	有り	無し	浅井戸	浅井戸	浅井戸	浅井戸	0	42	56	7	1				57,353	3.47%	
	MG2-28	Htonepouthchir	2,050	380	100	220	60	229,000	未接続	農業		2	0	無し	0	0	無し	無し	無し	有り	深井戸	深井戸	深井戸	深井戸	0	22	41	5	4					2.09%	
	MG2-29	Padaukngote	1,248	300	60	200	40	181,000	未接続	農業	日雇い	1	0	設立済み	7	0	無し	無し	無し	無し	貯水池	貯水池	個人所有井戸	個人所有井戸	0	35	78	8		1					
	MG2-30	Sellel	2,000	360	100	200	60	100,000	未接続	農業		1	0	無し	0	0	有り	無し	無し	有り	個人所有井戸	個人所有井戸	個人所有井戸	個人所有井戸	0	15	60	4	3	1					
	MG2-31	Podaukgone	820	152	40	100	12	100,000	未接続	農業		1	0	無し	0	0	有り	無し	無し	無し	貯水池	貯水池	個人所有井戸	個人所有井戸	4	10	230	10							
	MG2-32	Ywartharlay	410	81	30	40	11	178,300	未接続	農業	畜産	1	0	設立済み	10	0	有り	無し	無し	無し	貯水池	貯水池	個人所有井戸	個人所有井戸	4	45	39	6					51,526		
	MG2-33	Wayonegone	727	150	40	90	20	191,750	未接続	農業	畜産	2	0	設立済み	5	0	無し	無し	無し	無し	個人所有井戸	貯水池	貯水池	貯水池	4	57	81	8	1				40,889	2.24%	
	MG2-34	Nyaunggone	1,200	312	100	190	22	100,000	未接続	農業		1	0	無し	0	0	無し	有り	有り	有り	貯水池	貯水池	個人所有井戸	個人所有井戸	0	10	230	10					114,469	3.41%	
	MG2-35	Kyugyaung	550	90	30	50	10	108,444	未接続	農業		1	0	無し	0	0	無し	無し	無し	無し	浅井戸	浅井戸	浅井戸	浅井戸	0	24	66	6					76,968	8.80%	
	MG2-36	Ko kkhola	904	220	70	120	30	136,500	未接続	農業		3	0	無し	0	0	有り	無し	無し	無し	深井戸	深井戸	深井戸	深井戸	0	10	10	4	1				56,872	4.70%	
	MG2-37	Kangyigone	1,100	235	150	60	25	260,500	未接続	農業	日雇い	3	0	無し	0	0	有り	無し	無し	無し	個人所有井戸	深井戸	個人所有井戸	深井戸	3	16	62	3					106,768	1.82%	
	MG2-38	Htaukkyantgwin	1,539	270	100	100	70	126,000	未接続	農業		2	0	無し	0	0	無し	無し	無し	無し	貯水池	浅井戸	浅井戸	浅井戸	0	10	230	4					53,532	7.06%	
	MG2-39	Hlebwegyi	543	190	70	100	20	132,000	未接続	農業	畜産	2	0	無し	0	0	無し	無し	無し	無し	個人所有井戸	浅井戸	個人所有井戸	浅井戸	0	64	85	5	1				58,089	3.38%	
	MG2-40	Yayhtwetgyi	655	137	55	55	27	122,000	未接続	農業	畜産	2	0	無し	0	0	無し	無し	無し	有り	浅井戸	浅井戸	浅井戸	浅井戸	0	48	76	4		1			4,841	3.97%	

■ : 最終的に対象とならなかった村落

注: 「その他」は、給水車、隣接する地域等、外部からの水購入を示す。
水汲み時間0分は、パイプ給水の村落であるが、水量・水質の面で水へのニーズがあることが確認されている (資料5.1参)

資料 5.8 ミャンマー側負担経費の算出根拠

ミャンマー側負担経費については、第3章3.5の3.5.2に、調達機材の運営維持管理費については同3.5.4に記した。ミャンマー側負担経費および調達機材の運営維持管理費についてまとめた表を表1および表2として再掲する。

表1 ミャンマー側負担経費（再掲）

項目	費用（千 MMK）	円換算（千円）
A. 初年度にかかる費用（概算）		
1) B/A 及び A/P 費用	11,446	1,282
2) 井戸掘削費	162,500	18,200
3) 給水施設建設費	268,300	30,050
4) 調達資機材の維持管理費	25,075	2,808
5) ソフトコンポーネント参加費用（日当・交通費）	3,500	392
6) 水質分析費（試薬代、資料運搬費）	356	40
初年度合計 ①	471,177	52,772
B. 2年次以降にかかる年間費用（概算）		
1) 井戸掘削費	162,500	18,200
3) 給水施設建設費	268,300	30,050
3) 調達資機材の維持管理費	25,075	2,808
4) 水質分析費（試薬代。資料運搬費は除く）	356	40
2年次以降の年間費用合計 ②	456,231	51,098
2～5年次の合計 ③=②×4	1,824,924	204,391
全体の合計 ①+③	2,296,101	257,164

表2 調達機材の運営・維持管理費（再掲）

項目	台数	一機材あたり (MMK)	年間合計 (MMK)
井戸掘削リグ	2	5,800,000	11,600,000
クレーン付きトラック	2	5,500,000	11,000,000
エアーコンプレッサー	2	625,000	1,250,000
水中ポンプ [*]	2	150,000	300,000
発電機 [*]	1	625,000	625,000
孔内検層機	2	150,000	300,000
合計			25,075,000

1. 井戸掘削費

井戸掘削は、本プロジェクトで計画した100本の井戸について、5年間に毎年20本が掘削されるとして次のように算出した。

DRDの資料に記されている2016-2017年度の井戸掘削費を用いる。ただし、インフレ率は考慮しない。2016/2017年度に建設される7本の井戸掘削費48.5764百万MMKおよびポンプ設置費8.2950百万MMKの合計額48.5764+8.2950=56.8714百万MMKから、1本あたりの掘削費を

求めると、 $(48.5764+8.2950) \div 7 = 8.124$ (百万 MMK) となる。1 年間に掘削する 20 本分の掘削費は、 $8.124 \times 20 = 162.48$ (百万 MMK) $\approx 162,500$ (百万 MMK) となる。

2. 給水施設建設費

給水施設の建設費（井戸掘削費、ポンプハウス・給水タンク等の施設建設費）は、DRD が作成した当初計画の 120 村落分の建設費を記した資料によると、120 村落分で 2,587.83 百万 MMK である。これを 20 村落分にするると、 $2,587.83 \times 20/120 = 431.31$ (百万 MMK) である。

これから、上記 1. の井戸掘削費を差し引くと、ポンプハウス及び給水タンク等の建設費は、 $431.31 - 162.48 = 268.83$ (百万 MMK) $\approx 268,830$ (千 MMK) となる。

3. 調達機材の運営・維持管理費

調達機材の運営・維持管理費は、現時点で想定される費用を次の(1)～(6)に示す。しかしながら、実際は各機材の使用状況に応じて、修理・部品交換等を必要とする個所に大きな差が生じるのが通常であり、個別の部品交換等の積み上げを行っても、実際の維持管理費との間に大きな差が生じる可能性が高い。そのため、DRD により、今後発生する実際の運営・維持管理費を考慮して、項目、単価、数量等について適宜アップデートを行われることが望ましい。

(1) 井戸掘削リグ

井戸掘削リグの運営・維持管理費を表 2 に示す。井戸掘削リグは、一旦井戸掘削サイトへ到着した後は、井戸掘削が終了するまで移動することはない。このため、運営・維持管理は、最も摩耗が発生する可能性が高いマッドポンプ関連の部品の交換が中心となり、これにリグを搭載している車両についてのメンテナンスが加わる。

表 3 井戸掘削リグの運営・維持管理費

項目	単価 (MMK)	数量	単位	計 (MMK)	備考
マッドポンプ用パッキン	255,000	12	個	3,060,000	1 セット 4 個を 4 ヶ月毎に交換。
マッドポンプ用 V ベルト	4,500	16	個	72,000	1 セット 16 個を 1 年に 1 回交換。
油圧用オイル	500	1,800	L	900,000	300L を 2 ヶ月に 1 回交換。
タイヤ	480,000	2	本	960,000	1 組 10 本のタイヤを 5 年に 1 回交換するとして、1/5 の 2 本分を計上。
エンジンオイル	3,500	60	L	210,000	
エアフィルター	160,000	1	セット	160,000	
エレメントセット/オイルフィルター	85,000	1	個	85,000	
ガスケット/オイルフィルター	55,000	1	セット	55,000	
デフオイルフィルター	24,000	1	セット	24,000	
燃料フィルター	95,000	2	セット	190,000	
その他	84,000	1	式	84,000	
計				5,800,000	

(2) クレーン付きトラック

クレーン付きトラックの運営・維持管理費用を表4にまとめる。クレーン付きトラックは、重量物を積載して長距離に亘って、かつ主要道路以外では未舗装の悪路を頻繁に運行される。このため、タイヤの損耗が早いと想定する。それ以外では、エンジン用のオイル、エアフィルター・オイルフィルター等のフィルター類の交換が主なコストとなる。

表4 クレーン付きトラックの運営・維持管理費

項目	単価 (MMK)	数量	単位	計 (MMK)	備考
タイヤ	480,000	5	本	2,400,000	1組10本のタイヤを2年に1回交換するとして、1/2の5本分を計上。
エンジンオイル	3,500	180	L	630,000	
エアフィルター	160,000	4	セット	640,000	
エレメントセット/オイルフィルター	85,000	12	個	1,020,000	
ガスケット/オイルフィルター	55,000	2	セット	110,000	
デフオイルフィルター	24,000	2	個	48,000	
燃料フィルター	95,000	6	セット	570,000	
その他	82,000	1	式	82,000	
計				5,500,000	

(3) エアーコンプレッサー

エアーコンプレッサーのメンテナンス費用を表5にまとめる。エアーコンプレッサーのメンテナンスは、コンプレッサー用エンジンオイルの交換と、エアフィルターの交換が主なコストとなる。

表5 エアーコンプレッサーの運営・維持管理費

項目	単価(MMK)	数量	単位	計(MMK)
エンジンオイル	4,500	80	L	360,000
エアフィルター	250,000	1	セット	250,000
その他	15,000	1	式	15,000
計				625,000

(4) 水中ポンプ

水中ポンプは、通常の使用では、良く洗浄し、グリス塗布等の整備を行えば十分であるため、グリス費用として150,000MMKを計上した。

(5) 発電機

発電機のメンテナンス費用を表6にまとめる。発電機のメンテナンスは、エンジンオイルの交換と、エアフィルターの交換が主なコストとなる。

表6 発電機の運営・維持管理費

項目	単価(MMK)	数量	単位	計(MMK)
エンジンオイル	3,500	13	L	45,500
エアフィルター	210,000	2	セット	420,000
燃料フィルター	60,000	2	セット	120,000
その他	39,500	1	式	39,500
計				625,000

(6) 孔内検層機

孔内検層機は、通常の使用では、良く洗浄し、グリス塗布等の整備を行えば十分であるため、グリス費用として 150,000MMK を計上した。

4. ソフトコンポーネント参加費用

ソフトコンポーネント参加費用の算出に用いた各単価は、DRD との協議結果に基づくものである。DRD 側からソフトコンポーネントに参加するスタッフの人数は、孔内検層技術および揚水試験技術の双方とも DRD 本局から 3 名、ザガイン・マンダレー・マグウェーの 3 地域から各 4 名の合計 15 名である。期間は、各々 30 日間である。したがって、参加費用の合計は次のようになる。

ソフトコンポーネント 1 回分の参加費用

日当：3,000 MMK/人/日 x 15 人 x 30 日 = 1,350,000MMK

交通費：15,000 MMK x 15 人 = 225,000 MMK

計：1,575,000 MMK/回

ソフトコンポーネントは、孔内検層技術および揚水試験技術の 2 回実施するので、

1,575,000 MMK/回 x 2 回 = 3,150,000 MMK

予備費として、350,000 MMK を計上する。したがって、ソフトコンポーネント参加費用の合計は、3,500,000 MMK となる。

以上から、ソフトコンポーネントの参加費用として、3,500,000 MMK を計上する。

5. 水質分析費用

水質分析費用は、井戸掘削終了後に行う 1 回分の分析費用、および掘削サイトから DRD 本局の分析室があるネピドーまでの輸送費を見込む。表 7 に 100 試料分の分析に要する試薬の費用を示す。1 年間の分析数は 20 試料であるため、表 7 の 20% を計上する。

表7 100 試料分の分析用の試薬代

番号	項目	内容量	価格 (税別)	数量	合計金額 (税別)
1	ヒ素 (As)	100 回分	13,600 円	1	13,600 円
2	硬度	40 回分	4,600 円	3	13,800 円
3	フッ素 (F)	40 回分	4,600 円	3	13,800 円

資料5. その他の資料・情報

4	硝酸 (NO ₃)	30 回分	4,600 円	4	18,400 円
5	鉄 (Fe)	30 回分	4,600 円	4	18,400 円
6	塩化物 (Cl)	50 回分	4,600 円	2	9,200 円
				合計	87,200 円

1年間の試薬代：87,200 円 x 20% = 17,440 円 ≒ 156 千 MMK

各井戸掘削サイトからネピドーまでの輸送費を平均で 10,000 MMK と見込む。

試料の輸送費：10,000 MMK x 20 試料 = 200 千 MMK

したがって、1年間の水質分析に要する費用は、156+200= 356(千 MMK)となる。
