

CAR

RESULT OF ANALYSIS

1	Name of WD	Baguio City
2	Date of Analysis	2-Jul-03
3	Area number	1 - CAR
4	Province	Benguet

1	Name of source	Ambiong - 1 Pump Station
2	Location	N 17° 36' 52.3" E 121° 42' 9.6" Baguio City WD, Brgy Ambiong Baguio City
3	Depth Borehole; meter	117
4	Discharge Flowrate; liters/sec	12.6
5	Date of Well Operation	No data
6	Disinfection Unit;	Gas Chlorinator Hypochlorinator No data

	PARAMETERS	UNIT	PNSDW Limit	CONCENTRATION	MDL		PARAMETERS	UNIT	PNSDW Limit	CONCENTRATION	MDL
1	Odor		U	U*	1	26	Potassium	mg/L		1.16	1.0
2	Temperature	°C		19.6*	0.10	27	Calcium	mg/L		41.96	0.3
3	pH		6.5-8.5	7.6*	0.10	28	Magnesium	mg/L		3.25	0.3
4	Color	Units	5	<5	4	29	Silica	mg/L		53	0.10
5	Turbidity	NTU	5	<5	0.10	30	Total Iron	mg/L	1	<MDL	0.09
6	Conductivity	µS/cm		212	0.10	31	Total Manganese	mg/L	0.5	<MDL	0.06
7	Total Dissolved Solids	mg/L	500	158	4.0	32	Aluminum	mg/L	0.2	<MDL	0.50
8	Total Solids	mg/L		188	4.0	33	Zinc	mg/L	5 [@]	<MDL	0.03
9	Chloride	mg/L	250	2	0.20	34	Copper	mg/L	1	<MDL	0.02
10	Total Alkalinity	mg/L		68	1.0	35	Arsenic	mg/L	0.01	<MDL	0.5
11	Acidity	mg/L		12	1.0	36	Chromium	mg/L	0.05	<MDL	0.005
12	Hardness (as CaCO ₃)	mg/L	300 [@]	118	0.20	37	Cadmium	mg/L	0.003	<MDL	0.02
13	Sulfate	mg/L	250	<MDL	0.40	38	Selenium	mg/L	0.01	<MDL	0.005
14	Phosphate	mg/L		<MDL	0.02	39	Lead	mg/L	0.01	<MDL	0.06
15	Nitrite	mg/L	3	0.01 ¹	0.006	40	Mercury	mg/L	0.001	<MDL	0.10
16	Nitrate	mg/L	50	2.35 ¹	0.02	41	Aldrin & Dieldrin	µg/L	0.03	<MDL	0.01
17	Ammonia-Nitrogen	mg/L		<MDL	0.02	42	Chlordane	µg/L	0.2	<MDL	0.20
18	Fluoride	mg/L	1	0.11	0.005	43	DDT	µg/L	2	<MDL	0.05
19	Cyanide	mg/L	0.07	<MDL	0.05	44	Endrin	µg/L	0.2	<MDL	0.01
20	Hydrogen Sulfide	mg/L	0.05	-	0.05	45	Heptachlor/Heptachlor Epoxide	µg/L	0.03	<MDL	0.01
21	DO (DO%)	mg/L		7	2.0	46	Lindane	µg/L	2	<MDL	0.01
22	COD	mg/L		<MDL	5.0	47	Methoxychlor	µg/L	20	<MDL	0.02
23	BOD	mg/L		<1	2.0	48	Toxaphene	µg/L		<MDL	0.50
24	Surfactant	mg/L		<MDL	0.05	49	Endosulfan I	µg/L		<MDL	0.03
25	Sodium	mg/L	200 [@]	3.82	1.0		II			<MDL	

Note: [@] Secondary Standard; compliance with the standard and analysis are not obligatory

* On Site Analysis (CEST Inc.)

U Unobjectionable Odor, O = Objectionable Odor

+ Re-examination result dated October 2003 (Intertek Laboratory)

MDL Method Detection Limit

As computed by Local Water Utilities Administration (LWUA).

¹ Estimation derived from gravimetric factor

² Estimation derived from major Cationic and Anionic constituents

³ Acidity value qualified

- No basis for determination

RESULT OF ANALYSIS

1	Name of WD	Lagansilang
2	Date of Analysis	6-Jun-03
3	Area number	1 - CAR
4	Province	Abra

1	Name of source	Asist Campus
2	Location	N 17° 36' 52.3" E 121° 42' 9.6" Lagansilang WD, Lagansilang, Abra
3	Depth Borehole; meter	No data
4	Discharge Flowrate; liters/sec	No data
5	Date of Well Operation	No data
6	Disinfection Unit;	Gas Chlorinator Hypochlorinator No data

PARAMETERS	UNIT	PNSDW Limit	CONCENTRATION	MDL	PARAMETERS	UNIT	PNSDW Limit	CONCENTRATION	MDL
1 Odor		U	U*		26 Potassium	mg/L		7.4	
2 Temperature	°C		28.7*		27 Calcium	mg/L		110.69	
3 pH		6.5-8.5	7.6*		28 Magnesium	mg/L		7.8	
4 Color	Units	5	<5		29 Silica	mg/L		76	
5 Turbidity	NTU	5	<5		30 Total Iron	mg/L	1	0.11	0.001
6 Conductivity	µS/cm		398 ²		31 Total Manganese	mg/L	0.5	0.03	0.006
7 Total Dissolved Solids	mg/L	500	255		32 Aluminum	mg/L	0.2	<MDL	0.01
8 Total Solids	mg/L		421		33 Zinc	mg/L	5 [@]	0.05	0.002
9 Chloride	mg/L	250	4		34 Copper	mg/L	1	<MDL	0.001
10 Total Alkalinity	mg/L		35		35 Arsenic	mg/L	0.01	<MDL	0.01
11 Acidity	mg/L		10		36 Chromium	mg/L	0.05	<MDL	0.003
12 Hardness (as CaCO ₃)	mg/L	300 [@]	308		37 Cadmium	mg/L	0.003	<MDL	0.003
13 Sulfate	mg/L	250	0		38 Selenium	mg/L	0.01	<MDL	0.001
14 Phosphate	mg/L		43	0.1	39 Lead	mg/L	0.01	<MDL	0.005
15 Nitrite	mg/L	3	0	0.001	40 Mercury	mg/L	0.001	<MDL	0.001
16 Nitrate	mg/L	50	1.09 ¹	0.001	41 Aldrin & Dieldrin	µg/L	0.03	<MDL	0.02
17 Ammonia-Nitrogen	mg/L		<MDL	0.20	42 Chlordane	µg/L	0.2	<MDL	0.02
18 Fluoride	mg/L	1	0.31		43 DDT	µg/L	2	<MDL	0.01
19 Cyanide	mg/L	0.07	0	0.002	44 Endrin	µg/L	0.2	<MDL	0.02
20 Hydrogen Sulfide	mg/L	0.05	-	0.01	45 Heptachlor/Heptachlor Epoxide	µg/L	0.03	<MDL	0.01
21 DO (DO%)	mg/L		3.1		46 Lindane	µg/L	2	<MDL	0.01
22 COD	mg/L		0		47 Methoxychlor	µg/L	20	<MDL	0.02
23 BOD	mg/L		2.0		48 Toxaphene	µg/L		<MDL	0.02
24 Surfactant	mg/L		<MDL	0.05	49 Endosulfan I	µg/L		<MDL	0.01
25 Sodium	mg/L	200 [@]	18.6		49 Endosulfan II	µg/L		<MDL	0.02

Note: @ Secondary Standard; compliance with the standard and analysis are not obligatory

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MDL Method Detection Limit

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¹ Estimation derived from gravimetric factor

² Estimation derived from major Cationic and Anionic constituents

³ Acidity value qualified

- No basis for determination

RESULT OF ANALYSIS

1	Name of WD	Dolores
2	Date of Analysis	6-Jun-03
3	Area number	1 - CAR
4	Province	Abra

1	Name of source	Bayaan Dolores Pump Station #1
2	Location	N 17° 36' 52.3" E 121° 42' 9.6" Dolores WD, Bayaan, Dolores, Abra
3	Depth Borehole; meter	20
4	Discharge Flowrate; liters/sec	3
5	Date of Well Operation	No data
6	Disinfection Unit;	Gas Chlorinator Hypochlorinator No data

PARAMETERS	UNIT	PNSDW Limit	CONCENTRATION	MDL	PARAMETERS	UNIT	PNSDW Limit	CONCENTRATION	MDL
1 Odor		U	U*		26 Potassium	mg/L		5.7	
2 Temperature	°C		29.6*		27 Calcium	mg/L		64.26	
3 pH		6.5-8.5	7.6*		28 Magnesium	mg/L		3.12	
4 Color	Units	5	<5		29 Silica	mg/L		41	
5 Turbidity	NTU	5	<5		30 Total Iron	mg/L	1	0.11	0.001
6 Conductivity	µS/cm		308		31 Total Manganese	mg/L	0.5	<MDL	0.006
7 Total Dissolved Solids	mg/L	500	140 ⁺		32 Aluminum	mg/L	0.2	<MDL	0.01
8 Total Solids	mg/L		201		33 Zinc	mg/L	5 [@]	0.02	0.002
9 Chloride	mg/L	250	4		34 Copper	mg/L	1	<MDL	0.001
10 Total Alkalinity	mg/L		18		35 Arsenic	mg/L	0.01	<MDL	0.01
11 Acidity	mg/L		8		36 Chromium	mg/L	0.05	<MDL	0.003
12 Hardness (as CaCO ₃)	mg/L	300 [@]	173		37 Cadmium	mg/L	0.003	<MDL	0.003
13 Sulfate	mg/L	250	0		38 Selenium	mg/L	0.01	<MDL	0.001
14 Phosphate	mg/L		20	0.1	39 Lead	mg/L	0.01	<MDL	0.005
15 Nitrite	mg/L	3	0.01 ¹	0.001	40 Mercury	mg/L	0.001	<MDL	0.001
16 Nitrate	mg/L	50	0.09 ¹	0.001	41 Aldrin & Dieldrin	µg/L	0.03	<MDL	0.02
17 Ammonia-Nitrogen	mg/L		<MDL	0.20	42 Chlordane	µg/L	0.2	<MDL	0.02
18 Fluoride	mg/L	1	0.16		43 DDT	µg/L	2	<MDL	0.01
19 Cyanide	mg/L	0.07	0	0.002	44 Endrin	µg/L	0.2	<MDL	0.02
20 Hydrogen Sulfide	mg/L	0.05	0	0.01	45 Heptachlor/Heptachlor Epoxide	µg/L	0.03	<MDL	0.01
21 DO (DO%)	mg/L		3		46 Lindane	µg/L	2	<MDL	0.01
22 COD	mg/L		0		47 Methoxychlor	µg/L	20	<MDL	0.02
23 BOD	mg/L		5		48 Toxaphene	µg/L		<MDL	0.02
24 Surfactant	mg/L		0.09	0.05	49 Endosulfan I	µg/L		<MDL	0.01
25 Sodium	mg/L	200 [@]	3.3		II			<MDL	0.02

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² Estimation derived from major Cationic and Anionic constituents

³ Acidity value qualified

- No basis for determination

RESULT OF ANALYSIS

1	Name of WD	La Trinidad
2	Date of Analysis	July 03 - 17, 2003
3	Area number	1 - CAR
4	Province	Benguet

1	Name of source	Pump Station #9
2	Location	N 17° 36' 52.3" E 121° 42' 9.6" La Trinidad WD, La Trinidad, Benguet
3	Depth Borehole; meter	153
4	Discharge Flowrate; liters/sec	No data
5	Date of Well Operation	No data
6	Disinfection Unit;	Gas Chlorinator Hypochlorinator No data

PARAMETERS	UNIT	PNSDW Limit	CONCENTRATION	MDL	PARAMETERS	UNIT	PNSDW Limit	CONCENTRATION	MDL
1 Odor		U	U*		26 Potassium	mg/L		1.41	
2 Temperature	°C		22.6*		27 Calcium	mg/L		40.86	
3 pH		6.5-8.5	7.9*		28 Magnesium	mg/L		1.82	
4 Color	Units	5	<5		29 Silica	mg/L		63	
5 Turbidity	NTU	5	<5		30 Total Iron	mg/L	1	<MDL	0.001
6 Conductivity	μ S/cm		244 ²		31 Total Manganese	mg/L	0.5	<MDL	0.006
7 Total Dissolved Solids	mg/L	500	156 ⁺		32 Aluminum	mg/L	0.2	<MDL	0.01
8 Total Solids	mg/L		200		33 Zinc	mg/L	5 [@]	<MDL	0.002
9 Chloride	mg/L	250	4		34 Copper	mg/L	1	<MDL	0.001
10 Total Alkalinity	mg/L		61		35 Arsenic	mg/L	0.01	<MDL	0.01
11 Acidity	mg/L		8		36 Chromium	mg/L	0.05	<MDL	0.003
12 Hardness (as CaCO ₃)	mg/L	300 [@]	110		37 Cadmium	mg/L	0.003	<MDL	0.003
13 Sulfate	mg/L	250	0		38 Selenium	mg/L	0.01	<MDL	0.001
14 Phosphate	mg/L		0.002	0.1	39 Lead	mg/L	0.01	<MDL	0.005
15 Nitrite	mg/L	3	0.01 ¹	0.001	40 Mercury	mg/L	0.001	<MDL	0.001
16 Nitrate	mg/L	50	13 ¹	0.001	41 Aldrin & Dieldrin	μ g/L	0.03	<MDL	0.02
17 Ammonia-Nitrogen	mg/L		<MDL	0.20	42 Chlordane	μ g/L	0.2	<MDL	0.02
18 Fluoride	mg/L	1	0.08		43 DDT	μ g/L	2	<MDL	0.01
19 Cyanide	mg/L	0.07	0	0.002	44 Endrin	μ g/L	0.2	<MDL	0.02
20 Hydrogen Sulfide	mg/L	0.05	-	0.01	45 Heptachlor/Heptachlor Epoxide	μ g/L	0.03	<MDL	0.01
21 DO (DO%)	mg/L		5		46 Lindane	μ g/L	2	<MDL	0.01
22 COD	mg/L		0		47 Methoxychlor	μ g/L	20	<MDL	0.02
23 BOD	mg/L		<1		48 Toxaphene	μ g/L		<MDL	0.02
24 Surfactant	mg/L		0.08	0.05	49 Endosulfan I	μ g/L		<MDL	0.01
25 Sodium	mg/L	200 [@]	4.42		II			<MDL	0.02

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MDL Method Detection Limit

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¹ Estimation derived from gravimetric factor

² Estimation derived from major Cationic and Anionic constituents

³ Acidity value qualified

- No basis for determination

RESULT OF ANALYSIS

1	Name of WD	La Trinidad
2	Date of Analysis	2-Jul-03
3	Area number	1 - CAR
4	Province	Benguet

1	Name of source	Pump Station #8
2	Location	N 17° 36' 52.3" E 121° 42' 9.6" La Trinidad WD, La Trinidad, Benguet
3	Depth Borehole, meter	131
4	Discharge Flowrate, liters/sec	No data
5	Date of Well Operation	No data
6	Disinfection Unit;	Gas Chlorinator Hypochlorinator No data

	PARAMETERS	UNIT	PNSDW Limit	CONCENTRATION	MDL		PARAMETERS	UNIT	PNSDW Limit	CONCENTRATION	MDL
1	Odor		U	U*		26	Potassium	mg/L		5.24	
2	Temperature	°C		22.7*		27	Calcium	mg/L		132.08	
3	pH		6.5-8.5	8.7*		28	Magnesium	mg/L		5.82	
4	Color	Units	5	<5		29	Silica	mg/L		76	
5	Turbidity	NTU	5	<5		30	Total Iron	mg/L	1	<MDL	0.001
6	Conductivity	uS/cm		364		31	Total Manganese	mg/L	0.5	0.14	0.006
7	Total Dissolved Solids	mg/L	500	192		32	Aluminum	mg/L	0.2	<MDL	0.01
8	Total Solids	mg/L		217		33	Zinc	mg/L	5 @	0.04	0.002
9	Chloride	mg/L	250	23		34	Copper	mg/L	1	<MDL	0.001
10	Total Alkalinity	mg/L		195		35	Arsenic	mg/L	0.01	<MDL	0.01
11	Acidity	mg/L		0 ³		36	Chromium	mg/L	0.05	<MDL	0.003
12	Hardness (as CaCO ₃)	mg/L	300 @	354		37	Cadmium	mg/L	0.003	<MDL	0.003
13	Sulfate	mg/L	250	0		38	Selenium	mg/L	0.01	<MDL	0.001
14	Phosphate	mg/L		<MDL	0.1	39	Lead	mg/L	0.01	<MDL	0.005
15	Nitrite	mg/L	3	0.01 ¹	0.001	40	Mercury	mg/L	0.001	<MDL	0.001
16	Nitrate	mg/L	50	13 ¹	0.001	41	Aldrin & Dieldrin	µg/L	0.03	<MDL	0.02
17	Ammonia-Nitrogen	mg/L		<MDL	0.20	42	Chlordane	µg/L	0.2	<MDL	0.02
18	Fluoride	mg/L	1	0.21		43	DDT	µg/L	2	<MDL	0.01
19	Cyanide	mg/L	0.07	0	0.002	44	Endrin	µg/L	0.2	<MDL	0.02
20	Hydrogen Sulfide	mg/L	0.05	-	0.01	45	Heptachlor/Heptachlor Epoxide	µg/L	0.03	<MDL	0.01
21	DO (DO%)	mg/L		3		46	Lindane	µg/L	2	<MDL	0.01
22	COD	mg/L		0		47	Methoxychlor	µg/L	20	<MDL	0.02
23	BOD	mg/L		1.0		48	Toxaphene	µg/L		<MDL	0.02
24	Surfactant	mg/L		0.05	0.05	49	Endosulfan I	µg/L		<MDL	0.01
25	Sodium	mg/L	200 @	6.14			II			<MDL	0.02

Note: @ Secondary Standard; compliance with the standard and analysis are not obligatory

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MDL Method Detection Limit

As computed by Local Water Utilities Administration (LWUA)

¹ Estimation derived from gravimetric factor

² Estimation derived from major Cationic and Anionic constituents

³ Acidity value qualified

- No basis for determination

RESULT OF ANALYSIS

1	Name of WD	Baguio City
2	Date of Analysis	3-Jul-03
3	Area number	1 - CAR
4	Province	Benguet

1	Name of source	Pinsao Pumping Station
2	Location	N 17° 36' 52.3" E 121° 42' 9.6" Baguio City WD, Brgy Pinsao Baguio City
3	Depth Borehole; meter	115
4	Discharge Flowrate; liters/sec	12.6
5	Date of Well Operation	No data
6	Disinfection Unit;	Gas Chlorinator Hypochlorinator No data

PARAMETERS	UNIT	PNSDW Limit	CONCENTRATION	MDL	PARAMETERS	UNIT	PNSDW Limit	CONCENTRATION	MDL
1 Odor		U	U*	1	26 Potassium	mg/L		<MDL	1.0
2 Temperature	°C		25*	0.10	27 Calcium	mg/L		39	0.3
3 pH		6.5-8.5	6.32*	0.10	28 Magnesium	mg/L		29	0.3
4 Color	Units	5	2	4	29 Silica	mg/L		13	0.10
5 Turbidity	NTU	5	0.7	0.10	30 Total Iron	mg/L	1	0.08	0.09
6 Conductivity	uS/cm		370 ³	0.10	31 Total Manganese	mg/L	0.5	<MDL	0.06
7 Total Dissolved Solids	mg/L	500	237	4.0	32 Aluminum	mg/L	0.2	<MDL	0.50
8 Total Solids	mg/L		304	4.0	33 Zinc	mg/L	5 [@]	0.04	0.03
9 Chloride	mg/L	250	13	0.20	34 Copper	mg/L	1	<MDL	0.02
10 Total Alkalinity	mg/L		122	1.0	35 Arsenic	mg/L	0.01	<MDL	0.5
11 Acidity	mg/L		20	1.0	36 Chromium	mg/L	0.05	<MDL	0.005
12 Hardness (as CaCO ₃)	mg/L	300 [@]	218	0.20	37 Cadmium	mg/L	0.003	<MDL	0.02
13 Sulfate	mg/L	250	<MDL	0.40	38 Selenium	mg/L	0.01	<MDL	0.005
14 Phosphate	mg/L		0.37	0.02	39 Lead	mg/L	0.01	<MDL	0.06
15 Nitrite	mg/L	3	0	0.006	40 Mercury	mg/L	0.001	<MDL	0.10
16 Nitrate	mg/L	50	91 ¹	0.02	41 Aldrin & Dieldrin	µg/L	0.03	<MDL	0.01
17 Ammonia-Nitrogen	mg/L		<MDL	0.02	42 Chlordane	µg/L	0.2	<MDL	0.20
18 Fluoride	mg/L	1	0.08	0.005	43 DDT	µg/L	2	<MDL	0.05
19 Cyanide	mg/L	0.07	<MDL	0.05	44 Endrin	µg/L	0.2	<MDL	0.01
20 Hydrogen Sulfide	mg/L	0.05	0	0.05	45 Heptachlor/Heptachlor Epoxide	µg/L	0.03	<MDL	0.01
21 DO (DO%)	mg/L		0	2.0	46 Lindane	µg/L	2	<MDL	0.01
22 COD	mg/L		<MDL	5.0	47 Methoxychlor	µg/L	20	<MDL	0.02
23 BOD	mg/L		2.2	2.0	48 Toxaphene	µg/L		<MDL	0.50
24 Surfactant	mg/L		0.1	0.05	49 Endosulfan I	µg/L		<MDL	0.03
25 Sodium	mg/L	200 [@]	<MDL	1.0	II			<MDL	0.03

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MDL Method Detection Limit

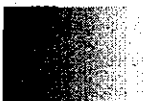
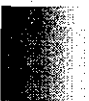
As computed by Local Water Utilities Administration (LWUA).

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² Estimation derived from major Cationic and Anionic constituents

³ Acidity value qualified

- No basis for determination



REGION 2

RESULT OF ANALYSIS

1	Name of WD	Aparri
2	Date of Analysis	July 28 - August 08, 2003
3	Area number	1 - Region 2
4	Province	Cagayan

1	Name of source	Pumping Station #3
2	Location	N 18° 21' 29.3"
		E 121° 38.563'
3	Depth Borehole; meter	210
4	Discharge Flowrate; liters/sec	30
5	Date of Well Operation	No data
6	Disinfection Unit;	Gas Chlorinator
		Hypochlorinator

	PARAMETERS	UNIT	PNSDW Limit	CONCENTRATION	MDL		PARAMETERS	UNIT	PNSDW Limit	CONCENTRATION	MDL
1	Odor		U	U*		26	Potassium	mg/L		18.03	
2	Temperature	°C		28.5*		27	Calcium	mg/L		22.65	
3	pH		6.5-8.5	8.5*		28	Magnesium	mg/L		29.44	
4	Color	Units	5	<5		29	Silica	mg/L		18	
5	Turbidity	NTU	5	<5		30	Total Iron	mg/L	1	<MDL	0.001
6	Conductivity	µS/cm		887		31	Total Manganese	mg/L	0.5	0.1	0.006
7	Total Dissolved Solids	mg/L	500	544		32	Aluminum	mg/L	0.2	<MDL	0.01
8	Total Solids	mg/L		632		33	Zinc	mg/L	5 [@]	<MDL	0.002
9	Chloride	mg/L	250	91		34	Copper	mg/L	1	<MDL	0.001
10	Total Alkalinity	mg/L		181		35	Arsenic	mg/L	0.01	<MDL	0.01
11	Acidity	mg/L		0 ³		36	Chromium	mg/L	0.05	<MDL	0.003
12	Hardness (as CaCO ₃)	mg/L	300 [@]	178		37	Cadmium	mg/L	0.003	<MDL	0.003
13	Sulfate	mg/L	250	0		38	Selenium	mg/L	0.01	<MDL	0.001
14	Phosphate	mg/L		<MDL	0.1	39	Lead	mg/L	0.01	<MDL	0.005
15	Nitrite	mg/L	3	0.43 ¹	0.001	40	Mercury	mg/L	0.001	<MDL	0.001
16	Nitrate	mg/L	50	43 ¹	0.001	41	Aldrin & Dieldrin	µg/L	0.03	<MDL	0.02
17	Ammonia-Nitrogen	mg/L		<MDL	0.20	42	Chlordane	µg/L	0.2	<MDL	0.02
18	Fluoride	mg/L	1	0.19		43	DDT	µg/L	2	<MDL	0.01
19	Cyanide	mg/L	0.07	0	0.002	44	Endrin	µg/L	0.2	<MDL	0.02
20	Hydrogen Sulfide	mg/L	0.05	-	0.01	45	Heptachlor/Heptachlor Epoxide	µg/L	0.03	<MDL	0.01
21	DO (DO%)	mg/L		2		46	Lindane	µg/L	2	<MDL	0.01
22	COD	mg/L		0		47	Methoxychlor	µg/L	20	<MDL	0.02
23	BOD	mg/L		2		48	Toxaphene	µg/L		<MDL	0.02
24	Surfactant	mg/L		0.07	0.05	49	Endosulfan I	µg/L		<MDL	0.01
25	Sodium	mg/L	200 [@]	35.9			II			<MDL	0.02

Note: [@] Secondary Standard; compliance with the standard and analysis are not obligatory

* On Site Analysis (CEST Inc.)

U Unobjectionable Odor, O = Objectionable Odor

+ Re-examination result dated October 2003 (Interfek Laboratory)

MDL Method Detection Limit

As computed by Local Water Utilities Administration (LWUA)

¹ Estimation derived from gravimetric factor

² Estimation derived from major Cationic and Anionic constituents

³ Acidity value qualified

- No basis for determination

RESULT OF ANALYSIS

1	Name of WD	Aparri
2	Date of Analysis	July 26 - August 08, 2003
3	Area number	1 - Region 2
4	Province	Cagayan

1	Name of source	Pumping Station #5
2	Location	N 18° 21' 56.3"
		E 121° 38.42'
3	Depth Borehole; meter	150
4	Discharge Flowrate; liters/sec	35
5	Date of Well Operation	No data
6	Disinfection Unit;	Gas Chlorinator
		Hypochlorinator
		No data

	PARAMETERS	UNIT	PNSDW Limit	CONCENTRATION	MDL		PARAMETERS	UNIT	PNSDW Limit	CONCENTRATION	MDL
1	Odor		U	U*		26	Potassium	mg/L		19.21	
2	Temperature	°C		30.2*		27	Calcium	mg/L		15.7	
3	pH		6.5-8.5	8.3*		28	Magnesium	mg/L		2.08	
4	Color	Units	5	<5		29	Silica	mg/L		20	
5	Turbidity	NTU	5	<5		30	Total Iron	mg/L	1	<MDL	0.001
6	Conductivity	μ S/cm		902		31	Total Manganese	mg/L	0.5	0.08	0.006
7	Total Dissolved Solids	mg/L	500	460		32	Aluminum	mg/L	0.2	<MDL	0.01
8	Total Solids	mg/L		585		33	Zinc	mg/L	5 [@]	<MDL	0.002
9	Chloride	mg/L	250	119		34	Copper	mg/L	1	<MDL	0.001
10	Total Alkalinity	mg/L		186		35	Arsenic	mg/L	0.01	<MDL	0.01
11	Acidity	mg/L		0 ³		36	Chromium	mg/L	0.05	<MDL	0.003
12	Hardness (as CaCO ₃)	mg/L	300 [@]	48		37	Cadmium	mg/L	0.003	<MDL	0.003
13	Sulfate	mg/L	250	0		38	Selenium	mg/L	0.01	<MDL	0.001
14	Phosphate	mg/L		<MDL	0.1	39	Lead	mg/L	0.01	<MDL	0.005
15	Nitrite	mg/L	3	0.6 ¹	0.001	40	Mercury	mg/L	0.001	<MDL	0.001
16	Nitrate	mg/L	50	52 ¹	0.001	41	Aldrin & Dieldrin	μ g/L	0.03	<MDL	0.02
17	Ammonia-Nitrogen	mg/L		<MDL	0.20	42	Chlordane	μ g/L	0.2	<MDL	0.02
18	Fluoride	mg/L	1	0.31		43	DDT	μ g/L	2	<MDL	0.01
19	Cyanide	mg/L	0.07	0	0.002	44	Endrin	μ g/L	0.2	<MDL	0.02
20	Hydrogen Sulfide	mg/L	0.05	-	0.01	45	Heptachlor	μ g/L	0.03	0.01	0.01
21	DO (DO%)	mg/L		3.0		46	Lindane	μ g/L	2	<MDL	0.01
22	COD	mg/L		0		47	Methoxychlor	μ g/L	20	<MDL	0.02
23	BOD	mg/L		2.0		48	Toxaphene	μ g/L		<MDL	0.02
24	Surfactant	mg/L		<MDL	0.05	49	Endosulfan I	μ g/L		<MDL	0.01
25	Sodium	mg/L	200 [@]	42.69			II			<MDL	0.02

Note: [@] - Secondary Standard; compliance with the standard and analysis are not obligatory

* - On Site Analysis (CEST Inc.)

U - Unobjectionable Odor, O = Objectionable Odor

+ - Re-examination result dated October 2003 (Intertek Laboratory)

MDL - Method Detection Limit

As computed by Local Water Utilities Administration (LWUA)

¹ Estimation derived from gravimetric factor

² Estimation derived from major Cationic and Anionic constituents

³ Acidity value qualified

- No basis for determination

RESULT OF ANALYSIS

1	Name of WD	Tuguegarao
2	Date of Analysis	September 2003
3	Area number	1 - Region 2
4	Province	Tuguegarao City

1	Name of source	Buntun Well Pumping Staion #2
2	Location	N 17° 36' 52.3"
		E 121° 42' 9.6"
3	Depth Borehole; meter	No data
4	Discharge Flowrate; liters/sec	No data
5	Date of Well Operation	No data
6	Disinfection Unit;	Gas Chlorinator
		Hypochlorinator
		No data

	PARAMETERS	UNIT	PNSDW Limit	CONCENTRATION	MDL		PARAMETERS	UNIT	PNSDW Limit	CONCENTRATION	MDL
1	Odor		U	O*		26	Potassium	mg/L		3.15	
2	Temperature	°C		29.2*		27	Calcium	mg/L		22.92	
3	pH		6.5-8.5	7.8*		28	Magnesium	mg/L		8.28	
4	Color	Units	5	<5		29	Silica	mg/L		29	
5	Turbidity	NTU	5	<5		30	Total Iron	mg/L	1	0.07	0.001
6	Conductivity	uS/cm		404		31	Total Manganese	mg/L	0.5	0.86	0.006
7	Total Dissolved Solids	mg/L	500	238		32	Aluminum	mg/L	0.2	<MDL	0.01
8	Total Solids	mg/L		242		33	Zinc	mg/L	5 [@]	<MDL	0.002
9	Chloride	mg/L	250	15		34	Copper	mg/L	1	<MDL	0.001
10	Total Alkalinity	mg/L		195		35	Arsenic	mg/L	0.01	<MDL	0.01
11	Acidity	mg/L		4		36	Chromium	mg/L	0.05	<MDL	0.003
12	Hardness (as CaCO ₃)	mg/L	300 [@]	91		37	Cadmium	mg/L	0.003	<MDL	0.003
13	Sulfate	mg/L	250	0		38	Selenium	mg/L	0.01	<MDL	0.001
14	Phosphate	mg/L		<MDL	0.1	39	Lead	mg/L	0.01	<MDL	0.005
15	Nitrite	mg/L	3	0.03 ¹	0.001	40	Mercury	mg/L	0.001	<MDL	0.001
16	Nitrate	mg/L	50	0	0.001	41	Aldrin & Dieldrin	µg/L	0.03	<MDL	0.02
17	Ammonia-Nitrogen	mg/L		<MDL	0.20	42	Chlordane	µg/L	0.2	<MDL	0.02
18	Fluoride	mg/L	1	0.16		43	DDT	µg/L	2	<MDL	0.01
19	Cyanide	mg/L	0.07	0	0.002	44	Endrin	µg/L	0.2	<MDL	0.02
20	Hydrogen Sulfide	mg/L	0.05	0.09 ¹	0.01	45	Heptachlor/Heptachlor Epoxide	µg/L	0.03	<MDL	0.01
21	DO (DO%)	mg/L		2.0		46	Lindane	µg/L	2	<MDL	0.01
22	COD	mg/L		0		47	Methoxychlor	µg/L	20	<MDL	0.02
23	BOD	mg/L		2.0		48	Toxaphene	µg/L		<MDL	0.02
24	Surfactant	mg/L		0.13	0.05	49	Endosulfan I	µg/L		<MDL	0.01
25	Sodium	mg/L	200 [@]	12.47			II			<MDL	0.02

Note: [@] Secondary Standard; compliance with the standard and analysis are not obligatory

* On Site Analysis (CEST Inc.)

U Unobjectionable Odor, O = Objectionable Odor

+ Re-examination result dated October 2003 (Intertek Laboratory)

MDL Method Detection Limit

As computed by Local Water Utilities Administration (LWUA)

¹ Estimation derived from gravimetric factor

² Estimation derived from major Cationic and Anionic constituents

³ Acidity value qualified

- No basis for determination

RESULT OF ANALYSIS

1	Name of WD	Peñablanca
2	Date of Analysis	24-Jul-03
3	Area number	1 - Region 2
4	Province	Cagayan

1	Name of source	Dodan Pumping Station	
2	Location	N 17° 38.165'	Peñablanca WD, Dodan,
		E 121° 45.561'	Peñablanca, Cagayan
3	Depth Borehole; meter	220	
4	Discharge Flowrate; liters/sec	15	
5	Date of Well Operation	No data	
6	Disinfection Unit;	Gas Chlorinator	No data
		Hypochlorinator	

	PARAMETERS	UNIT	PNSDW Limit	CONCENTRATION	MDL		PARAMETERS	UNIT	PNSDW Limit	CONCENTRATION	MDL
1	Odor		U	U*		26	Potassium	mg/L		2.08	
2	Temperature	°C		27.7*		27	Calcium	mg/L		10.09	
3	pH		6.5-8.5	7.9*		28	Magnesium	mg/L		3.09	
4	Color	Units	5	<5		29	Silica	mg/L		27	
5	Turbidity	NTU	5	<5		30	Total Iron	mg/L	1	<MDL	0.001
6	Conductivity	μ S/cm		195		31	Total Manganese	mg/L	0.5	<MDL	0.006
7	Total Dissolved Solids	mg/L	500	125 ²		32	Aluminum	mg/L	0.2	<MDL	0.01
8	Total Solids	mg/L		202		33	Zinc	mg/L	5 [@]	<MDL	0.002
9	Chloride	mg/L	250	3		34	Copper	mg/L	1	<MDL	0.001
10	Total Alkalinity	mg/L		67		35	Arsenic	mg/L	0.01	<MDL	0.01
11	Acidity	mg/L		6		36	Chromium	mg/L	0.05	<MDL	0.003
12	Hardness (as CaCO ₃)	mg/L	300 [@]	38		37	Cadmium	mg/L	0.003	<MDL	0.003
13	Sulfate	mg/L	250	0		38	Selenium	mg/L	0.01	<MDL	0.001
14	Phosphate	mg/L		<MDL	0.1	39	Lead	mg/L	0.01	<MDL	0.005
15	Nitrite	mg/L	3	0.74 ¹	0.001	40	Mercury	mg/L	0.001	<MDL	0.001
16	Nitrate	mg/L	50	0.03 ¹	0.001	41	Aldrin & Dieldrin	μ g/L	0.03	<MDL	0.02
17	Ammonia-Nitrogen	mg/L		<MDL	0.20	42	Chlordane	μ g/L	0.2	<MDL	0.02
18	Fluoride	mg/L	1	0.15		43	DDT	μ g/L	2	<MDL	0.01
19	Cyanide	mg/L	0.07	0	0.002	44	Endrin	μ g/L	0.2	<MDL	0.02
20	Hydrogen Sulfide	mg/L	0.05	-	0.01	45	Heptachlor/Heptachlor Epoxide	μ g/L	0.03	<MDL	0.01
21	DO (DO%)	mg/L		5.0		46	Lindane	μ g/L	2	<MDL	0.01
22	COD	mg/L		0		47	Methoxychlor	μ g/L	20	<MDL	0.02
23	BOD	mg/L		3.0		48	Toxaphene	μ g/L		<MDL	0.02
24	Surfactant	mg/L		0.09	0.05	49	Endosulfan I	μ g/L		<MDL	0.01
25	Sodium	mg/L	200 [@]	5.53			II			<MDL	0.02

Note: [@] Secondary Standard; compliance with the standard and analysis are not obligatory

* On Site Analysis (CEST Inc.)

U Unobjectionable Odor, O = Objectionable Odor

+ Re-examination result dated October 2003 (Intertek Laboratory)

MDL Method Detection Limit

As computed by Local Water Utilities Administration (LWUA)

¹ Estimation derived from gravimetric factor

² Estimation derived from major Cationic and Anionic constituents

³ Acidity value qualified

- No basis for determination

RESULT OF ANALYSIS

1	Name of WD	Gattaran
2	Date of Analysis	August 2003
3	Area number	1 - Region 2
4	Province	Cagayan

1	Name of source	Pumping Station #1
2	Location	N 18° 21' 3.68"
		E 121° 38.537'
3	Depth Borehole; meter	150
4	Discharge Flowrate; liters/sec	20
5	Date of Well Operation	No data
6	Disinfection Unit;	Gas Chlorinator
		Hypochlorinator

	PARAMETERS	UNIT	PNSDW Limit	CONCENTRATION	MDL		PARAMETERS	UNIT	PNSDW Limit	CONCENTRATION	MDL
1	Odor		U	U*		26	Potassium	mg/L		5.32	
2	Temperature	°C		27.4*		27	Calcium	mg/L		21.94	
3	pH		6.5-8.5	8*		28	Magnesium	mg/L		21.48	
4	Color	Units	5	<5		29	Silica	mg/L		38	
5	Turbidity	NTU	5	<5		30	Total Iron	mg/L	1	0.54	0.001
6	Conductivity	μ S/cm		715		31	Total Manganese	mg/L	0.5	0.16	0.006
7	Total Dissolved Solids	mg/L	500	367		32	Aluminum	mg/L	0.2	<MDL	0.01
8	Total Solids	mg/L		484		33	Zinc	mg/L	5 [®]	0.16	0.002
9	Chloride	mg/L	250	20		34	Copper	mg/L	1	<MDL	0.001
10	Total Alkalinity	mg/L		364		35	Arsenic	mg/L	0.01	<MDL	0.01
11	Acidity	mg/L		15		36	Chromium	mg/L	0.05	<MDL	0.003
12	Hardness (as CaCO ₃)	mg/L	300 [®]	143		37	Cadmium	mg/L	0.003	<MDL	0.003
13	Sulfate	mg/L	250	0		38	Selenium	mg/L	0.01	<MDL	0.001
14	Phosphate	mg/L		0.86	0.1	39	Lead	mg/L	0.01	<MDL	0.005
15	Nitrite	mg/L	3	0.13 ¹	0.001	40	Mercury	mg/L	0.001	<MDL	0.001
16	Nitrate	mg/L	50	4.35 ¹	0.001	41	Aldrin & Dieldrin	μ g/L	0.03	<MDL	0.02
17	Ammonia-Nitrogen	mg/L		<MDL	0.20	42	Chlordane	μ g/L	0.2	<MDL	0.02
18	Fluoride	mg/L	1	0.42		43	DDT	μ g/L	2	<MDL	0.01
19	Cyanide	mg/L	0.07	0	0.002	44	Endrin	μ g/L	0.2	<MDL	0.02
20	Hydrogen Sulfide	mg/L	0.05	-	0.01	45	Heptachlor/Heptachlor Epoxide	μ g/L	0.03	<MDL	0.01
21	DO (DO%)	mg/L		4.0		46	Lindane	μ g/L	2	<MDL	0.01
22	COD	mg/L		0		47	Methoxychlor	μ g/L	20	<MDL	0.02
23	BOD	mg/L		3.0		48	Toxaphene	μ g/L		<MDL	0.02
24	Surfactant	mg/L		<MDL	0.05	49	Endosulfan I	μ g/L		<MDL	0.01
25	Sodium	mg/L	200 [®]	64.42			II			<MDL	0.02

Note: [®] Secondary Standard; compliance with the standard and analysis are not obligatory

* On Site Analysis (CEST Inc.)

U Unobjectionable Odor, O = Objectionable Odor

+ Re-examination result dated October 2003 (Intertek Laboratory)

MDL Method Detection Limit

As computed by Local Water Utilities Administration (LWUA)

¹ Estimation derived from gravimetric factor

² Estimation derived from major Cationic and Anionic constituents

³ Acidity value qualified

- No basis for determination

RESULT OF ANALYSIS

1	Name of WD	Gattaran
2	Date of Analysis	6-Aug-03
3	Area number	1 - Region 2
4	Province	Cagayan

1	Name of source	Pumping Station #2
2	Location	N 18° 21' 3.853"
		E 121° 38.633'
3	Depth Borehole; meter	120
4	Discharge Flowrate; liters/sec	10
5	Date of Well Operation	No data
6	Disinfection Unit;	Gas Chlorinator
		Hypochlorinator
		No data

	PARAMETERS	UNIT	PNSDW Limit	CONCENTRATION	MDL		PARAMETERS	UNIT	PNSDW Limit	CONCENTRATION	MDL
1	Odor		U	U*		26	Potassium	mg/L		3.1	
2	Temperature	°C		28.7*		27	Calcium	mg/L		19.34	
3	pH		6.5-8.5	8.4*		28	Magnesium	mg/L		4.42	
4	Color	Units	5	<5		29	Silica	mg/L		38	
5	Turbidity	NTU	5	<5		30	Total Iron	mg/L	1	<MDL	0.001
6	Conductivity	µS/cm		598		31	Total Manganese	mg/L	0.5	<MDL	0.006
7	Total Dissolved Solids	mg/L	500	284 ⁺		32	Aluminum	mg/L	0.2	<MDL	0.01
8	Total Solids	mg/L		346 ⁺		33	Zinc	mg/L	5 [@]	0.19	0.002
9	Chloride	mg/L	250	15		34	Copper	mg/L	1	<MDL	0.001
10	Total Alkalinity	mg/L		304		35	Arsenic	mg/L	0.01	<MDL	0.01
11	Acidity	mg/L		0 ³		36	Chromium	mg/L	0.05	0.01	0.003
12	Hardness (as CaCO ₃)	mg/L	300 [@]	66		37	Cadmium	mg/L	0.003	<MDL	0.003
13	Sulfate	mg/L	250	0		38	Selenium	mg/L	0.01	<MDL	0.001
14	Phosphate	mg/L		<MDL	0.1	39	Lead	mg/L	0.01	<MDL	0.005
15	Nitrite	mg/L	3	0	0.001	40	Mercury	mg/L	0.001	<MDL	0.001
16	Nitrate	mg/L	50	4.35 ¹	0.001	41	Aldrin & Dieldrin	µg/L	0.03	<MDL	0.02
17	Ammonia-Nitrogen	mg/L		<MDL	0.20	42	Chlordane	µg/L	0.2	<MDL	0.02
18	Fluoride	mg/L	1	0.18		43	DDT	µg/L	2	<MDL	0.01
19	Cyanide	mg/L	0.07	0	0.002	44	Endrin	µg/L	0.2	<MDL	0.02
20	Hydrogen Sulfide	mg/L	0.05	-	0.01	45	Heptachlor/Heptachlor Epoxide	µg/L	0.03	<MDL	0.01
21	DO (DO%)	mg/L		1.0		46	Lindane	µg/L	2	<MDL	0.01
22	COD	mg/L		0		47	Methoxychlor	µg/L	20	<MDL	0.02
23	BOD	mg/L		<1		48	Toxaphene	µg/L		<MDL	0.02
24	Surfactant	mg/L		<MDL	0.05	49	Endosulfan I	µg/L		<MDL	0.01
25	Sodium	mg/L	200 [@]	19.14			II			<MDL	0.02

Note: [@] Secondary Standard; compliance with the standard and analysis are not obligatory

• On Site Analysis (CEST Inc.)

U Unobjectionable Odor, O = Objectionable Odor

+ Re-examination result dated October 2003 (Intertek Laboratory)

MDL Method Detection Limit

As computed by Local Water Utilities Administration (LWUA)

RESULT OF ANALYSIS

1	Name of WD	Santiago
2	Date of Analysis	July 2003
3	Area number	1 - Region 2
4	Province	Isabela

1	Name of source	Lumidao Pumping Staion
2	Location	N 16° 41.758'
		E 121° 33.881'
3	Depth Borehole; meter	210
4	Discharge Flowrate; liters/sec	30
5	Date of Well Operation	No data
6	Disinfection Unit;	Gas Chlorinator
		Hypochlorinator

	PARAMETERS	UNIT	PNSDW Limit	CONCENTRATION	MDL		PARAMETERS	UNIT	PNSDW Limit	CONCENTRATION	MDL
1	Odor		U	O*		26	Potassium	mg/L		2.74	
2	Temperature	°C		29.2*		27	Calcium	mg/L		3.78	
3	pH		6.5-8.5	9.3*		28	Magnesium	mg/L		1.52	
4	Color	Units	5	25		29	Silica	mg/L		17	
5	Turbidity	NTU	5	<5		30	Total Iron	mg/L	1	<MDL	0.001
6	Conductivity	μ S/cm		435		31	Total Manganese	mg/L	0.5	<MDL	0.006
7	Total Dissolved Solids	mg/L	500	206		32	Aluminum	mg/L	0.2	<MDL	0.01
8	Total Solids	mg/L		223		33	Zinc	mg/L	5 [@]	<MDL	0.002
9	Chloride	mg/L	250	6		34	Copper	mg/L	1	<MDL	0.001
10	Total Alkalinity	mg/L		204		35	Arsenic	mg/L	0.01	<MDL	0.01
11	Acidity	mg/L		0 ³		36	Chromium	mg/L	0.05	<MDL	0.003
12	Hardness (as CaCO ₃)	mg/L	300 [@]	16		37	Cadmium	mg/L	0.003	<MDL	0.003
13	Sulfate	mg/L	250	0		38	Selenium	mg/L	0.01	<MDL	0.001
14	Phosphate	mg/L		<MDL	0.1	39	Lead	mg/L	0.01	<MDL	0.005
15	Nitrite	mg/L	3	0.03 ¹	0.001	40	Mercury	mg/L	0.001	<MDL	0.001
16	Nitrate	mg/L	50	3.13 ¹	0.001	41	Aldrin & Dieldrin	μ g/L	0.03	<MDL	0.02
17	Ammonia-Nitrogen	mg/L		<MDL	0.20	42	Chlordane	μ g/L	0.2	<MDL	0.02
18	Fluoride	mg/L	1	<MDL		43	DDT	μ g/L	2	<MDL	0.01
19	Cyanide	mg/L	0.07	0	0.002	44	Endrin	μ g/L	0.2	<MDL	0.02
20	Hydrogen Sulfide	mg/L	0.05	0	0.01	45	Heptachlor/Heptachlor Epoxide	μ g/L	0.03	<MDL	0.01
21	DO (DO%)	mg/L		1		46	Lindane	μ g/L	2	<MDL	0.01
22	COD	mg/L		0		47	Methoxychlor	μ g/L	20	<MDL	0.02
23	BOD	mg/L		11		48	Toxaphene	μ g/L		<MDL	0.02
24	Surfactant	mg/L		0.2	0.05	49	Endosulfan I	μ g/L		<MDL	0.01
25	Sodium	mg/L	200 [@]	81.22			II			<MDL	0.02

Note: [@] Secondary Standard; compliance with the standard and analysis are not obligatory

* On Site Analysis (CEST Inc.)

U Unobjectionable Odor, O = Objectionable Odor

+ Re-examination result dated October 2003 (Intertek Laboratory)

MDL Method Detection Limit

As computed by Local Water Utilities Administration (LWUA)

¹ Estimation derived from gravimetric factor

² Estimation derived from major Cationic and Anionic constituents

³ Acidity value qualified

- No basis for determination

RESULT OF ANALYSIS

1	Name of WD	Maddela
2	Date of Analysis	July 2003
3	Area number	1 - Region 2
4	Province	Quirino

1	Name of source	Pumping Station #1
2	Location	N 16° 20.396'
		E 121° 40.995'
3	Depth Borehole; meter	150
4	Discharge Flowrate; liters/sec	10
5	Date of Well Operation	No data
6	Disinfection Unit;	Gas Chlorinator
		Hypochlorinator

	PARAMETERS	UNIT	PNSDW Limit	CONCENTRATION	MDL		PARAMETERS	UNIT	PNSDW Limit	CONCENTRATION	MDL
1	Odor		U	U*		26	Potassium	mg/L		5.83	
2	Temperature	°C		27.8*		27	Calcium	mg/L		8.98	
3	pH		6.5-8.5	6.8*		28	Magnesium	mg/L		5.86	
4	Color	Units	5	<5		29	Silica	mg/L		33	
5	Turbidity	NTU	5	<5		30	Total Iron	mg/L	1	<MDL	0.001
6	Conductivity	uS/cm		442		31	Total Manganese	mg/L	0.5	<MDL	0.006
7	Total Dissolved Solids	mg/L	500	256		32	Aluminum	mg/L	0.2	<MDL	0.01
8	Total Solids	mg/L		296		33	Zinc	mg/L	5 [@]	0.04	0.002
9	Chloride	mg/L	250	74		34	Copper	mg/L	1	<MDL	0.001
10	Total Alkalinity	mg/L		62		35	Arsenic	mg/L	0.01	<MDL	0.01
11	Acidity	mg/L		32		36	Chromium	mg/L	0.05	<MDL	0.003
12	Hardness (as CaCO ₃)	mg/L	300 [@]	47		37	Cadmium	mg/L	0.003	<MDL	0.003
13	Sulfate	mg/L	250	0		38	Selenium	mg/L	0.01	<MDL	0.001
14	Phosphate	mg/L		<MDL	0.1	39	Lead	mg/L	0.01	<MDL	0.005
15	Nitrite	mg/L	3	0.03 ¹	0.001	40	Mercury	mg/L	0.001	<MDL	0.001
16	Nitrate	mg/L	50	1.3 ¹	0.001	41	Aldrin & Dieldrin	µg/L	0.03	<MDL	0.02
17	Ammonia-Nitrogen	mg/L		<MDL	0.20	42	Chlordane	µg/L	0.2	<MDL	0.02
18	Fluoride	mg/L	1	0.3		43	DDT	µg/L	2	<MDL	0.01
19	Cyanide	mg/L	0.07	0	0.002	44	Endrin	µg/L	0.2	<MDL	0.02
20	Hydrogen Sulfide	mg/L	0.05	0	0.01	45	Heptachlor/Heptachlor Epoxide	µg/L	0.03	<MDL	0.01
21	DO (DO%)	mg/L		2		46	Lindane	µg/L	2	<MDL	0.01
22	COD	mg/L		0		47	Methoxychlor	µg/L	20	<MDL	0.02
23	BOD	mg/L		<1		48	Toxaphene	µg/L		<MDL	0.02
24	Surfactant	mg/L		<MDL	0.05	49	Endosulfan I	µg/L		<MDL	0.01
25	Sodium	mg/L	200 [@]	34.44			II			<MDL	0.02

Note: [@] Secondary Standard; compliance with the standard and analysis are not obligatory

* On Site Analysis (CEST Inc.)

U Unobjectionable Odor, O = Objectionable Odor

+ Re-examination result dated October 2003 (Intertek Laboratory)

MDL Method Detection Limit

As computed by Local Water Utilities Administration (LWUA)

¹ Estimation derived from gravimetric factor

² Estimation derived from major Cationic and Anionic constituents

³ Acidity value qualified

- No basis for determination

RESULT OF ANALYSIS

1	Name of WD	Maddela
2	Date of Analysis	July 2003
3	Area number	1 - Region 2
4	Province	Quirino

1	Name of source	Pumping Station #2
2	Location	N 16° 20.389'
		E 121° 40.926'
3	Depth Borehole; meter	120
4	Discharge Flowrate; liters/sec	6
5	Date of Well Operation	No data
6	Disinfection Unit;	No data
	Gas Chlorinator Hypochlorinator	

	PARAMETERS	UNIT	PNSDW Limit	CONCENTRATION	MDL		PARAMETERS	UNIT	PNSDW Limit	CONCENTRATION	MDL
1	Odor		U	U*		26	Potassium	mg/L		5.94	
2	Temperature	°C		27.1*		27	Calcium	mg/L		19.2	
3	pH		6.5-8.5	6.7*		28	Magnesium	mg/L		9.24	
4	Color	Units	5	<5		29	Silica	mg/L		60	
5	Turbidity	NTU	5	<5		30	Total Iron	mg/L	1	0.07	0.001
6	Conductivity	µS/cm		620		31	Total Manganese	mg/L	0.5	0.08	0.006
7	Total Dissolved Solids	mg/L	500	382		32	Aluminum	mg/L	0.2	<MDL	0.01
8	Total Solids	mg/L		416		33	Zinc	mg/L	5 @	0.34	0.002
9	Chloride	mg/L	250	90		34	Copper	mg/L	1	<MDL	0.001
10	Total Alkalinity	mg/L		144		35	Arsenic	mg/L	0.01	<MDL	0.01
11	Acidity	mg/L		31		36	Chromium	mg/L	0.05	<MDL	0.003
12	Hardness (as CaCO ₃)	mg/L	300 @	86		37	Cadmium	mg/L	0.003	<MDL	0.003
13	Sulfate	mg/L	250	0		38	Selenium	mg/L	0.01	<MDL	0.001
14	Phosphate	mg/L		<MDL	0.1	39	Lead	mg/L	0.01	<MDL	0.005
15	Nitrite	mg/L	3	0.03 ¹	0.001	40	Mercury	mg/L	0.001	<MDL	0.001
16	Nitrate	mg/L	50	13.04 ¹	0.001	41	Aldrin & Dieldrin	µg/L	0.03	<MDL	0.02
17	Ammonia-Nitrogen	mg/L		<MDL	0.20	42	Chlordane	µg/L	0.2	<MDL	0.02
18	Fluoride	mg/L	1	0.27		43	DDT	µg/L	2	<MDL	0.01
19	Cyanide	mg/L	0.07	0	0.002	44	Endrin	µg/L	0.2	<MDL	0.02
20	Hydrogen Sulfide	mg/L	0.05	0	0.01	45	Heptachlor/Heptachlor Epoxide	µg/L	0.03	<MDL	0.01
21	DO (DO%)	mg/L		2		46	Lindane	µg/L	2	<MDL	0.01
22	COD	mg/L		0		47	Methoxychlor	µg/L	20	<MDL	0.02
23	BOD	mg/L		3		48	Toxaphene	µg/L		<MDL	0.02
24	Surfactant	mg/L		0.16	0.05	49	Endosulfan I	µg/L		<MDL	0.01
25	Sodium	mg/L	200 @	42.19			II			<MDL	0.02

Note: @ Secondary Standard; compliance with the standard and analysis are not obligatory

* On Site Analysis (CEST Inc.)

U Unobjectionable Odor, O = Objectionable Odor

+ Re-examination result dated October 2003 (Intertek Laboratory)

MDL Method Detection Limit

As computed by Local Water Utilities Administration (LWUA)

¹ Estimation derived from gravimetric factor

² Estimation derived from major Cationic and Anionic constituents

³ Acidity value qualified

- No basis for determination

RESULT OF ANALYSIS

1	Name of WD	Peñablanca
2	Date of Analysis	30-Jul-03
3	Area number	1 - Region 2
4	Province	Cagayan

1	Name of source	Pumping Station #2	
2	Location	N 17° 37.616'	Peñablanca WD, Centro,
		E 121° 47.338'	Peñablanca, Cagayan
3	Depth Borehole; meter	180	
4	Discharge Flowrate; liters/sec	20	
5	Date of Well Operation	No data	
6	Disinfection Unit;	Gas Chlorinator	No data
		Hypochlorinator	

	PARAMETERS	UNIT	PNSDW Limit	CONCENTRATION	MDL		PARAMETERS	UNIT	PNSDW Limit	CONCENTRATION	MDL
1	Odor		U	U*		26	Potassium	mg/L		7.84	
2	Temperature	°C		27.9*		27	Calcium	mg/L		10.64	
3	pH		6.5-8.5	7.6*		28	Magnesium	mg/L		3.66	
4	Color	Units	5	<5		29	Silica	mg/L		29	
5	Turbidity	NTU	5	<5		30	Total Iron	mg/L	1	<MDL	0.001
6	Conductivity	µS/cm		243		31	Total Manganese	mg/L	0.5	<MDL	0.006
7	Total Dissolved Solids	mg/L	500	130 ⁺		32	Aluminum	mg/L	0.2	<MDL	0.01
8	Total Solids	mg/L		160		33	Zinc	mg/L	5 [@]	0.14	0.002
9	Chloride	mg/L	250	3		34	Copper	mg/L	1	<MDL	0.001
10	Total Alkalinity	mg/L		87		35	Arsenic	mg/L	0.01	<MDL	0.01
11	Acidity	mg/L		8		36	Chromium	mg/L	0.05	<MDL	0.003
12	Hardness (as CaCO ₃)	mg/L	300 [@]	42		37	Cadmium	mg/L	0.003	<MDL	0.003
13	Sulfate	mg/L	250	0		38	Selenium	mg/L	0.01	<MDL	0.001
14	Phosphate	mg/L		<MDL	0.1	39	Lead	mg/L	0.01	<MDL	0.005
15	Nitrite	mg/L	3	0	0.001	40	Mercury	mg/L	0.001	<MDL	0.001
16	Nitrate	mg/L	50	0.91 ¹	0.001	41	Aldrin & Dieldrin	µg/L	0.03	<MDL	0.02
17	Ammonia-Nitrogen	mg/L		<MDL	0.20	42	Chlordane	µg/L	0.2	<MDL	0.02
18	Fluoride	mg/L	1	<MDL		43	DDT	µg/L	2	<MDL	0.01
19	Cyanide	mg/L	0.07	0	0.002	44	Endrin	µg/L	0.2	<MDL	0.02
20	Hydrogen Sulfide	mg/L	0.05	-	0.01	45	Heptachlor/Heptachlor Epoxide	µg/L	0.03	<MDL	0.01
21	DO (DO%)	mg/L		3.0		46	Lindane	µg/L	2	<MDL	0.01
22	COD	mg/L		0		47	Methoxychlor	µg/L	20	<MDL	0.02
23	BOD	mg/L		3.0		48	Toxaphene	µg/L		<MDL	0.02
24	Surfactant	mg/L		<MDL	0.05	49	Endosulfan I	µg/L		<MDL	0.01
25	Sodium	mg/L	200 [@]	11.46			II			<MDL	0.02

Note: [@] Secondary Standard; compliance with the standard and analysis are not obligatory

* On Site Analysis (CEST Inc.)

U Unobjectionable Odor, O = Objectionable Odor

+ Re-examination result dated October 2003 (Intertek Laboratory)

MDL Method Detection Limit

As computed by Local Water Utilities Administration (LWUA)

¹ Estimation derived from gravimetric factor

² Estimation derived from major Cationic and Anionic constituents

³ Acidity value qualified

- No basis for determination

RESULT OF ANALYSIS

1	Name of WD	Ramon
2	Date of Analysis	July 2003
3	Area number	1 - Region 2
4	Province	Isabela

1	Name of source	Pumping Station #1
2	Location	N 16° 46.937'
		E 121° 32.008'
3	Depth Borehole; meter	110
4	Discharge Flowrate; liters/sec	11
5	Date of Well Operation	No data
6	Disinfection Unit;	No data
	Gas Chlorinator Hypochlorinator	

	PARAMETERS	UNIT	PNSDW Limit	CONCENTRATION	MDL		PARAMETERS	UNIT	PNSDW Limit	CONCENTRATION	MDL
1	Odor		U	U*		26	Potassium	mg/L		12.05	
2	Temperature	°C		28.9*		27	Calcium	mg/L		27.46	
3	pH		6.5-8.5	6.9*		28	Magnesium	mg/L		13.01	
4	Color	Units	5	<5		29	Silica	mg/L		93	
5	Turbidity	NTU	5	<5		30	Total Iron	mg/L	1	0.04	0.001
6	Conductivity	uS/cm		721		31	Total Manganese	mg/L	0.5	<MDL	0.006
7	Total Dissolved Solids	mg/L	500	476		32	Aluminum	mg/L	0.2	<MDL	0.01
8	Total Solids	mg/L		500		33	Zinc	mg/L	5 @	0.12	0.002
9	Chloride	mg/L	250	72		34	Copper	mg/L	1	<MDL	0.001
10	Total Alkalinity	mg/L		184		35	Arsenic	mg/L	0.01	<MDL	0.01
11	Acidity	mg/L		27		36	Chromium	mg/L	0.05	<MDL	0.003
12	Hardness (as CaCO ₃)	mg/L	300 @	122		37	Cadmium	mg/L	0.003	<MDL	0.003
13	Sulfate	mg/L	250	0		38	Selenium	mg/L	0.01	<MDL	0.001
14	Phosphate	mg/L		<MDL	0.1	39	Lead	mg/L	0.01	<MDL	0.005
15	Nitrite	mg/L	3	0.03 ¹	0.001	40	Mercury	mg/L	0.001	<MDL	0.001
16	Nitrate	mg/L	50	17.39 ¹	0.001	41	Aldrin & Dieldrin	µg/L	0.03	<MDL	0.02
17	Ammonia-Nitrogen	mg/L		<MDL	0.20	42	Chlordane	µg/L	0.2	<MDL	0.02
18	Fluoride	mg/L	1	0.12		43	DDT	µg/L	2	<MDL	0.01
19	Cyanide	mg/L	0.07	0	0.002	44	Endrin	µg/L	0.2	<MDL	0.02
20	Hydrogen Sulfide	mg/L	0.05	0	0.01	45	Heptachlor/Heptachlor Epoxide	µg/L	0.03	<MDL	0.01
21	DO (DO%)	mg/L		2		46	Lindane	µg/L	2	<MDL	0.01
22	COD	mg/L		0		47	Methoxychlor	µg/L	20	<MDL	0.02
23	BOD	mg/L		2		48	Toxaphene	µg/L		<MDL	0.02
24	Surfactant	mg/L		<MDL	0.05	49	Endosulfan I	µg/L		<MDL	0.01
25	Sodium	mg/L	200 @	40.56			II			<MDL	0.02

Note: @ Secondary Standard; compliance with the standard and analysis are not obligatory

* On Site Analysis (GEST Inc.)

U Unobjectionable Odor, O = Objectionable Odor

+ Re-examination result dated October 2003 (Intertek Laboratory)

MDL Method Detection Limit

As computed by Local Water Utilities Administration (LWUA)

¹ Estimation derived from gravimetric factor

² Estimation derived from major Cationic and Anionic constituents

³ Acidity value qualified

- No basis for determination

RESULT OF ANALYSIS

1	Name of WD	Ramon
2	Date of Analysis	July 2003
3	Area number	1 - Region 2
4	Province	Isabela

1	Name of source	Pumping Station #2
2	Location	N 16° 46.642'
		E 121° 32.025'
3	Depth Borehole; meter	150
4	Discharge Flowrate; liters/sec	90
5	Date of Well Operation	No data
6	Disinfection Unit;	Gas Chlorinator
		Hypochlorinator

	PARAMETERS	UNIT	PNSDW Limit	CONCENTRATION	MDL		PARAMETERS	UNIT	PNSDW Limit	CONCENTRATION	MDL
1	Odor		U	U*		26	Potassium	mg/L		14.82	
2	Temperature	°C		29*		27	Calcium	mg/L		9.3	
3	pH		6.5-8.5	7.1*		28	Magnesium	mg/L		6.06	
4	Color	Units	5	<5		29	Silica	mg/L		96	
5	Turbidity	NTU	5	<5		30	Total Iron	mg/L	1	0.57	0.001
6	Conductivity	uS/cm		257		31	Total Manganese	mg/L	0.5	<MDL	0.006
7	Total Dissolved Solids	mg/L	500	199		32	Aluminum	mg/L	0.2	<MDL	0.01
8	Total Solids	mg/L		258		33	Zinc	mg/L	5 [@]	<MDL	0.002
9	Chloride	mg/L	250	4		34	Copper	mg/L	1	<MDL	0.001
10	Total Alkalinity	mg/L		106		35	Arsenic	mg/L	0.01	<MDL	0.01
11	Acidity	mg/L		23		36	Chromium	mg/L	0.05	<MDL	0.003
12	Hardness (as CaCO ₃)	mg/L	300 [@]	48		37	Cadmium	mg/L	0.003	<MDL	0.003
13	Sulfate	mg/L	250	0		38	Selenium	mg/L	0.01	<MDL	0.001
14	Phosphate	mg/L		<MDL	0.1	39	Lead	mg/L	0.01	<MDL	0.005
15	Nitrite	mg/L	3	0	0.001	40	Mercury	mg/L	0.001	<MDL	0.001
16	Nitrate	mg/L	50	0.09 ¹	0.001	41	Aldrin & Dieldrin	µg/L	0.03	<MDL	0.02
17	Ammonia-Nitrogen	mg/L		<MDL	0.20	42	Chlordane	µg/L	0.2	<MDL	0.02
18	Fluoride	mg/L	1	0.41		43	DDT	µg/L	2	<MDL	0.01
19	Cyanide	mg/L	0.07	0	0.002	44	Endrin	µg/L	0.2	<MDL	0.02
20	Hydrogen Sulfide	mg/L	0.05	-	0.01	45	Heptachlor/Heptachlor Epoxide	µg/L	0.03	<MDL	0.01
21	DO (DO%)	mg/L		2.0		46	Lindane	µg/L	2	<MDL	0.01
22	COD	mg/L		0		47	Methoxychlor	µg/L	20	<MDL	0.02
23	BOD	mg/L		2.0		48	Toxaphene	µg/L		<MDL	0.02
24	Surfactant	mg/L		<MDL	0.05	49	Endosulfan I	µg/L		<MDL	0.01
25	Sodium	mg/L	200 [@]	26.34			II			<MDL	0.02

Note: [@] Secondary Standard; compliance with the standard and analysis are not obligatory

* On Site Analysis (CEST Inc.)

U Unobjectionable Odor, O = Objectionable Odor

+ Re-examination result dated October 2003 (Intertek Laboratory)

MDL Method Detection Limit

As computed by Local Water Utilities Administration (LWUA)

¹ Estimation derived from gravimetric factor

² Estimation derived from major Cationic and Anionic constituents

³ Acidity value qualified

- No basis for determination

RESULT OF ANALYSIS

1	Name of WD	Tuguegarao
2	Date of Analysis	September 2003
3	Area number	1 - Region 2
4	Province	Tuguegarao City

1	Name of source	San Gabriel Pumping Station
2	Location	N 17° 37' 28.2"
		E 121° 43' 11.3"
3	Depth Borehole; meter	180
4	Discharge Flowrate; liters/sec	20.5
5	Date of Well Operation	No data
6	Disinfection Unit;	Gas Chlorinator
		Hypochlorinator
		No data

	PARAMETERS	UNIT	PNSDW Limit	CONCENTRATION	MDL		PARAMETERS	UNIT	PNSDW Limit	CONCENTRATION	MDL
1	Odor		U	O*		26	Potassium	mg/L		3.74	
2	Temperature	°C		29.3*		27	Calcium	mg/L		38.06	
3	pH		6.5-8.5	7.5*		28	Magnesium	mg/L		14.2	
4	Color	Units	5	5		29	Silica	mg/L		21	
5	Turbidity	NTU	5	5		30	Total Iron	mg/L	1	0.82	0.001
6	Conductivity	µS/cm		600		31	Total Manganese	mg/L	0.5	0.93	0.006
7	Total Dissolved Solids	mg/L	500	325		32	Aluminum	mg/L	0.2	<MDL	0.01
8	Total Solids	mg/L		384		33	Zinc	mg/L	5 [@]	<MDL	0.002
9	Chloride	mg/L	250	36		34	Copper	mg/L	1	<MDL	0.001
10	Total Alkalinity	mg/L		273		35	Arsenic	mg/L	0.01	<MDL	0.01
11	Acidity	mg/L		8		36	Chromium	mg/L	0.05	<MDL	0.003
12	Hardness (as CaCO ₃)	mg/L	300 [@]	154		37	Cadmium	mg/L	0.003	<MDL	0.003
13	Sulfate	mg/L	250	0		38	Selenium	mg/L	0.01	<MDL	0.001
14	Phosphate	mg/L		<MDL	0.1	39	Lead	mg/L	0.01	<MDL	0.005
15	Nitrite	mg/L	3	0.03 ¹	0.001	40	Mercury	mg/L	0.001	<MDL	0.001
16	Nitrate	mg/L	50	0	0.001	41	Aldrin & Dieldrin	µg/L	0.03	<MDL	0.02
17	Ammonia-Nitrogen	mg/L		<MDL	0.20	42	Chlordane	µg/L	0.2	<MDL	0.02
18	Fluoride	mg/L	1	0.19		43	DDT	µg/L	2	<MDL	0.01
19	Cyanide	mg/L	0.07	0	0.002	44	Endrin	µg/L	0.2	<MDL	0.02
20	Hydrogen Sulfide	mg/L	0.05	0.09 ¹	0.01	45	Heptachlor/Heptachlor Epoxide	µg/L	0.03	<MDL	0.01
21	DO (DO%)	mg/L		4.0		46	Lindane	µg/L	2	<MDL	0.01
22	COD	mg/L		0		47	Methoxychlor	µg/L	20	<MDL	0.02
23	BOD	mg/L		3.0		48	Toxaphene	µg/L		<MDL	0.02
24	Surfactant	mg/L		0.15	0.05	49	Endosulfan I	µg/L		<MDL	0.01
25	Sodium	mg/L	200 [@]	17.14			It			<MDL	0.02

Note: [@] Secondary Standard; compliance with the standard and analysis are not obligatory

* On Site Analysis (CEST Inc.)

U Unobjectionable Odor, O = Objectionable Odor

+ Re-examination result dated October 2003 (Intertek Laboratory)

MDL Method Detection Limit

As computed by Local Water Utilities Administration (LWUA)

¹ Estimation derived from gravimetric factor

² Estimation derived from major Cationic and Anionic constituents

³ Acidity value qualified

- No basis for determination

RESULT OF ANALYSIS

1	Name of WD	San Manuel
2	Date of Analysis	July 2003
3	Area number	1 - Region 2
4	Province	Isabela

1	Name of source	San Manuel P.S. #1
2	Location	N 17° 1.435'
		E 121° 38.180'
3	Depth Borehole; meter	No data
4	Discharge Flowrate; liters/sec	No data
5	Date of Well Operation	No data
6	Disinfection Unit;	Gas Chlorinator
		Hypochlorinator

	PARAMETERS	UNIT	PNSDW Limit	CONCENTRATION	MDL		PARAMETERS	UNIT	PNSDW Limit	CONCENTRATION	MDL
1	Odor		U	U*		26	Potassium	mg/L		3.22	
2	Temperature	°C		27.4*		27	Calcium	mg/L		25.16	
3	pH		6.5-8.5	8.5*		28	Magnesium	mg/L		8.78	
4	Color	Units	5	<5		29	Silica	mg/L		48	
5	Turbidity	NTU	5	<5		30	Total Iron	mg/L	1	<MDL	0.001
6	Conductivity	µS/cm		431		31	Total Manganese	mg/L	0.5	0.14	0.006
7	Total Dissolved Solids	mg/L	500	315		32	Aluminum	mg/L	0.2	<MDL	0.01
8	Total Solids	mg/L		329		33	Zinc	mg/L	5 [@]	0.36	0.002
9	Chloride	mg/L	250	1		34	Copper	mg/L	1	<MDL	0.001
10	Total Alkalinity	mg/L		204		35	Arsenic	mg/L	0.01	<MDL	0.01
11	Acidity	mg/L		0 ³		36	Chromium	mg/L	0.05	<MDL	0.003
12	Hardness (as CaCO ₃)	mg/L	300 [@]	99		37	Cadmium	mg/L	0.003	<MDL	0.003
13	Sulfate	mg/L	250	0		38	Selenium	mg/L	0.01	<MDL	0.001
14	Phosphate	mg/L		<MDL	0.1	39	Lead	mg/L	0.01	<MDL	0.005
15	Nitrite	mg/L	3	0.07 ¹	0.001	40	Mercury	mg/L	0.001	<MDL	0.001
16	Nitrate	mg/L	50	1.17 ¹	0.001	41	Aldrin & Dieldrin	µg/L	0.03	<MDL	0.02
17	Ammonia-Nitrogen	mg/L		<MDL	0.20	42	Chlordane	µg/L	0.2	<MDL	0.02
18	Fluoride	mg/L	1	0.16		43	DDT	µg/L	2	<MDL	0.01
19	Cyanide	mg/L	0.07	0	0.002	44	Endrin	µg/L	0.2	<MDL	0.02
20	Hydrogen Sulfide	mg/L	0.05	-	0.01	45	Heptachlor/Heptachlor Epoxide	µg/L	0.03	<MDL	0.01
21	DO (DO%)	mg/L		2		46	Lindane	µg/L	2	<MDL	0.01
22	COD	mg/L		0		47	Methoxychlor	µg/L	20	<MDL	0.02
23	BOD	mg/L		3		48	Toxaphene	µg/L		<MDL	0.02
24	Surfactant	mg/L		0.07	0.05	49	Endosulfan I	µg/L		<MDL	0.01
25	Sodium	mg/L	200 [@]	30.84			II			<MDL	0.02

Note: [@] Secondary Standard; compliance with the standard and analysis are not obligatory

* On Site Analysis (CEST Inc.)

U Unobjectionable Odor, O = Objectionable Odor

+ Re-examination result dated October 2003 (Intertek Laboratory)

MDL Method Detection Limit

As computed by Local Water Utilities Administration (LWUA)

¹ Estimation derived from gravimetric factor

² Estimation derived from major Cationic and Anionic constituents

³ Acidity value qualified

- No basis for determination

RESULT OF ANALYSIS

1	Name of WD	San Manuel
2	Date of Analysis	July 2003
3	Area number	1 - Region 2
4	Province	Isabela

1	Name of source	Sandiat Pumping Station
2	Location	N 17° 4.296'
		E 121° 38.250'
3	Depth Borehole; meter	105
4	Discharge Flowrate; liters/sec	14
5	Date of Well Operation	No data
6	Disinfection Unit;	Gas Chlorinator
		Hypochlorinator
		No data

	PARAMETERS	UNIT	PNSDW Limit	CONCENTRATION	MDL		PARAMETERS	UNIT	PNSDW Limit	CONCENTRATION	MDL
1	Odor		U	U*		26	Potassium	mg/L		3.26	
2	Temperature	°C		27*		27	Calcium	mg/L		18.63	
3	pH		6.5-8.5	7.8*		28	Magnesium	mg/L		9.14	
4	Color	Units	5	<5		29	Silica	mg/L		84	
5	Turbidity	NTU	5	5		30	Total Iron	mg/L	1	<MDL	0.001
6	Conductivity	μ S/cm		461		31	Total Manganese	mg/L	0.5	0.2	0.006
7	Total Dissolved Solids	mg/L	500	327		32	Aluminum	mg/L	0.2	<MDL	0.01
8	Total Solids	mg/L		340		33	Zinc	mg/L	5 @	0.16	0.002
9	Chloride	mg/L	250	1		34	Copper	mg/L	1	<MDL	0.001
10	Total Alkalinity	mg/L		226		35	Arsenic	mg/L	0.01	<MDL	0.01
11	Acidity	mg/L		14		36	Chromium	mg/L	0.05	<MDL	0.003
12	Hardness (as CaCO ₃)	mg/L	300 @	84		37	Cadmium	mg/L	0.003	<MDL	0.003
13	Sulfate	mg/L	250	0		38	Selenium	mg/L	0.01	<MDL	0.001
14	Phosphate	mg/L		<MDL	0.1	39	Lead	mg/L	0.01	<MDL	0.005
15	Nitrite	mg/L	3	0.03 ¹	0.001	40	Mercury	mg/L	0.001	<MDL	0.001
16	Nitrate	mg/L	50	1.44 ¹	0.001	41	Aldrin & Dieldrin	μ g/L	0.03	<MDL	0.02
17	Ammonia-Nitrogen	mg/L		<MDL	0.20	42	Chlordane	μ g/L	0.2	<MDL	0.02
18	Fluoride	mg/L	1	0.33		43	DDT	μ g/L	2	<MDL	0.01
19	Cyanide	mg/L	0.07	0	0.002	44	Endrin	μ g/L	0.2	<MDL	0.02
20	Hydrogen Sulfide	mg/L	0.05	0	0.01	45	Heptachlor/Heptachlor Epoxide	μ g/L	0.03	<MDL	0.01
21	DO (DO%)	mg/L		2		46	Lindane	μ g/L	2	<MDL	0.01
22	COD	mg/L		0		47	Methoxychlor	μ g/L	20	<MDL	0.02
23	BOD	mg/L		5		48	Toxaphene	μ g/L		<MDL	0.02
24	Surfactant	mg/L		0.11	0.05	49	Endosulfan I	μ g/L		<MDL	0.01
25	Sodium	mg/L	200 @	28.78			II			<MDL	0.02

Note: @ Secondary Standard; compliance with the standard and analysis are not obligatory

* On Site Analysis (CEST Inc.)

U Unobjectionable Odor, O = Objectionable Odor

+ Re-examination result dated October 2003 (Intertek Laboratory)

MDL Method Detection Limit

As computed by Local Water Utilities Administration (LWUA)

¹ Estimation derived from gravimetric factor

² Estimation derived from major Cationic and Anionic constituents

³ Acidity value qualified

- No basis for determination

RESULT OF ANALYSIS

1	Name of WD	Santiago
2	Date of Analysis	July 2003
3	Area number	1 - Region 2
4	Province	Isabela

1	Name of source	Villasis PS
2	Location	N 16° 41.456'
		E 121° 33.237'
Santiago WD, Villasis, Isabela		
3	Depth Borehole; meter	200
4	Discharge Flowrate; liters/sec	25
5	Date of Well Operation	No data
6	Disinfection Unit;	Gas Chlorinator
		Hypochlorinator
		No data

	PARAMETERS	UNIT	PNSDW Limit	CONCENTRATION	MDL		PARAMETERS	UNIT	PNSDW Limit	CONCENTRATION	MDL
1	Odor		U	U*		26	Potassium	mg/L		4.62	
2	Temperature	°C		28.2*		27	Calcium	mg/L		29.54	
3	pH		6.5-8.5	7.7*		28	Magnesium	mg/L		19.05	
4	Color	Units	5	10		29	Silica	mg/L		83	
5	Turbidity	NTU	5	15		30	Total Iron	mg/L	1	5.12	0.001
6	Conductivity	μ S/cm		500		31	Total Manganese	mg/L	0.5	0.32	0.006
7	Total Dissolved Solids	mg/L	500	337		32	Aluminum	mg/L	0.2	<MDL	0.01
8	Total Solids	mg/L		400		33	Zinc	mg/L	5 [@]	<MDL	0.002
9	Chloride	mg/L	250	27		34	Copper	mg/L	1	<MDL	0.001
10	Total Alkalinity	mg/L		216		35	Arsenic	mg/L	0.01	<MDL	0.01
11	Acidity	mg/L		20		36	Chromium	mg/L	0.05	<MDL	0.003
12	Hardness (as CaCO ₃)	mg/L	300 [@]	152		37	Cadmium	mg/L	0.003	<MDL	0.003
13	Sulfate	mg/L	250	0		38	Selenium	mg/L	0.01	<MDL	0.001
14	Phosphate	mg/L		<MDL	0.1	39	Lead	mg/L	0.01	<MDL	0.005
15	Nitrite	mg/L	3	0.03 ¹	0.001	40	Mercury	mg/L	0.001	<MDL	0.001
16	Nitrate	mg/L	50	8.7 ¹	0.001	41	Aldrin & Dieldrin	μ g/L	0.03	<MDL	0.02
17	Ammonia-Nitrogen	mg/L		<MDL	0.20	42	Chlordane	μ g/L	0.2	<MDL	0.02
18	Fluoride	mg/L	1	0.46		43	DDT	μ g/L	2	<MDL	0.01
19	Cyanide	mg/L	0.07	0	0.002	44	Endrin	μ g/L	0.2	<MDL	0.02
20	Hydrogen Sulfide	mg/L	0.05	-	0.01	45	Heptachlor/Heptachlor Epoxide	μ g/L	0.03	<MDL	0.01
21	DO (DO%)	mg/L		2		46	Lindane	μ g/L	2	<MDL	0.01
22	COD	mg/L		0		47	Methoxychlor	μ g/L	20	<MDL	0.02
23	BOD	mg/L		6		48	Toxaphene	μ g/L		<MDL	0.02
24	Surfactant	mg/L		0.23	0.05	49	Endosulfan I	μ g/L		<MDL	0.01
25	Sodium	mg/L	200 [@]	21.54			II			<MDL	0.02

Note: [@] Secondary Standard; compliance with the standard and analysis are not obligatory

* On Site Analysis (CEST Inc.)

U Unobjectionable Odor, O = Objectionable Odor

+ Re-examination result dated October 2003 (Intertek Laboratory)

MDL Method Detection Limit

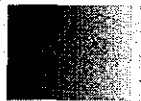
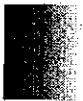
As computed by Local Water Utilities Administration (LWUA)

¹ Estimation derived from gravimetric factor

² Estimation derived from major Cationic and Anionic constituents

³ Acidity value qualified

- No basis for determination



REGION 3

RESULT OF ANALYSIS

1	Name of WD	Baler
2	Date of Analysis	July 18 - July 30, 2003
3	Area number	2 - Region 3
4	Province	Aurora

1	Name of source	Baler Central Well
2	Location	N 14° 45.358'
		E 121° 33.719'
3	Depth Borehole; meter	No data
4	Discharge Flowrate; liters/sec	No data
5	Date of Well Operation	No data
6	Disinfection Unit	Gas Chlorinator
		Hypochlorinator

	PARAMETERS	UNIT	PNSDW Limit	CONCENTRATION	MDL		PARAMETERS	UNIT	PNSDW Limit	CONCENTRATION	MDL
1	Odor		U	U*		26	Potassium	mg/L		7.42	
2	Temperature	°C		25.6*		27	Calcium	mg/L		20.02	
3	pH		6.5-8.5	8.8*		28	Magnesium	mg/L		1.64	
4	Color	Units	5	<5		29	Silica	mg/L		38	
5	Turbidity	NTU	5	<5		30	Total Iron	mg/L	1	<MDL	0.001
6	Conductivity	µS/cm		128		31	Total Manganese	mg/L	0.5	0.09	0.006
7	Total Dissolved Solids	mg/L	500	49		32	Aluminum	mg/L	0.2	<MDL	0.01
8	Total Solids	mg/L		66		33	Zinc	mg/L	5 [@]	<MDL	0.002
9	Chloride	mg/L	250	3		34	Copper	mg/L	1	<MDL	0.001
10	Total Alkalinity	mg/L		43		35	Arsenic	mg/L	0.01	<MDL	0.01
11	Acidity	mg/L		0 ³		36	Chromium	mg/L	0.05	<MDL	0.003
12	Hardness (as CaCO ₃)	mg/L	300 [@]	57		37	Cadmium	mg/L	0.003	<MDL	0.003
13	Sulfate	mg/L	250	10		38	Selenium	mg/L	0.01	<MDL	0.001
14	Phosphate	mg/L		5	0.1	39	Lead	mg/L	0.01	<MDL	0.005
15	Nitrite	mg/L	3	0.23 ¹	0.001	40	Mercury	mg/L	0.001	<MDL	0.001
16	Nitrate	mg/L	50	1.30 ¹	0.001	41	Aldrin & Dieldrin	µg/L	0.03	<MDL	0.02
17	Ammonia-Nitrogen	mg/L		<MDL	0.20	42	Chlordane	µg/L	0.2	<MDL	0.02
18	Fluoride	mg/L	1	0.14		43	DDT	µg/L	2	<MDL	0.01
19	Cyanide	mg/L	0.07	0	0.002	44	Endrin	µg/L	0.2	<MDL	0.02
20	Hydrogen Sulfide	mg/L	0.05	0	0.010	45	Heptachlor/Heptachlor Epoxide	µg/L	0.03	<MDL	0.01
21	DO (DO%)	mg/L		5.0		46	Lindane	µg/L	2	<MDL	0.01
22	COD	mg/L		8.0		47	Methoxychlor	µg/L	20	<MDL	0.02
23	BOD	mg/L		5.0		48	Toxaphene	µg/L		<MDL	0.02
24	Surfactant	mg/L		0.09	0.05	49	Endosulfan I	µg/L		<MDL	0.01
25	Sodium	mg/L	200 [@]	2.36			II			<MDL	0.02

Note: [@] Secondary Standard; compliance with the standard and analysis are not obligatory

* On Site Analysis (CEST Inc.)

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+ Re-examination result dated October 2003 (Intertek Laboratory)

MDL Method Detection Limit

As computed by Local Water Utilities Administration (LWUA).

¹ Estimation derived from gravimetric factor

² Estimation derived from major Cationic and Anionic constituents

³ Acidity value qualified

- No basis for determination

RESULT OF ANALYSIS

1	Name of WD	Baler
2	Date of Analysis	July 18 - July 30, 2003
3	Area number	2 - Region 3
4	Province	Aurora

1	Name of source	Quezon Well
2	Location	N 14° 45.600'
		E 121° 33.674'
3	name of source	No data
4	Discharge Flowrate; liters/sec	No data
5	Date of Well Operation	No data
6	Disinfection	Gas Chlorinator
	Unit	Hypochlorinator

	PARAMETERS	UNIT	PNSDW Limit	CONCENTRATION	MDL		PARAMETERS	UNIT	PNSDW Limit	CONCENTRATION	MDL
1	Odor		U	U*		26	Potassium	mg/L		3.76	
2	Temperature	°C		25.3*		27	Calcium	mg/L		18.62	
3	pH		6.5-8.5	8.6*		28	Magnesium	mg/L		1.77	
4	Color	Units	5	<5		29	Silica	mg/L		37	
5	Turbidity	NTU	5	<5		30	Total Iron	mg/L	1	<MDL	0.001
6	Conductivity	µS/cm		121		31	Total Manganese	mg/L	0.5	0.04	0.006
7	Total Dissolved Solids	mg/L	500	70		32	Aluminum	mg/L	0.2	<MDL	0.01
8	Total Solids	mg/L		121		33	Zinc	mg/L	5 [@]	<MDL	0.002
9	Chloride	mg/L	250	2		34	Copper	mg/L	1	<MDL	0.001
10	Total Alkalinity	mg/L		42		35	Arsenic	mg/L	0.01	<MDL	0.01
11	Acidity	mg/L		0 ³		36	Chromium	mg/L	0.05	<MDL	0.003
12	Hardness (as CaCO ₃)	mg/L	300 [@]	54		37	Cadmium	mg/L	0.003	<MDL	0.003
13	Sulfate	mg/L	250	6		38	Selenium	mg/L	0.01	<MDL	0.001
14	Phosphate	mg/L		5	0.1	39	Lead	mg/L	0.01	<MDL	0.005
15	Nitrite	mg/L	3	0.03 ¹	0.001	40	Mercury	mg/L	0.001	<MDL	0.001
16	Nitrate	mg/L	50	0	0.001	41	Aldrin & Dieldrin	µg/L	0.03	<MDL	0.02
17	Ammonia-Nitrogen	mg/L		<MDL	0.20	42	Chlordane	µg/L	0.2	<MDL	0.02
18	Fluoride	mg/L	1	0		43	DDT	µg/L	2	<MDL	0.01
19	Cyanide	mg/L	0.07	0.26	0.002	44	Endrin	µg/L	0.2	<MDL	0.02
20	Hydrogen Sulfide	mg/L	0.05	-	0.010	45	Heptachlor/Heptachlor Epoxide	µg/L	0.03	<MDL	0.01
21	DO (DO%)	mg/L		2.0		46	Lindane	µg/L	2	<MDL	0.01
22	COD	mg/L		4.0		47	Methoxychlor	µg/L	20	<MDL	0.02
23	BOD	mg/L		2.0		48	Toxaphene	µg/L		<MDL	0.02
24	Surfactant	mg/L		0.1	0.05	49	Endosulfan I	µg/L		<MDL	0.01
25	Sodium	mg/L	200 [@]	3.12			II			<MDL	0.02

Note: [@] Secondary Standard; compliance with the standard and analysis are not obligatory

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MDL Method Detection Limit

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² Estimation derived from major Cationic and Anionic constituents

³ Acidity value qualified

- No basis for determination

RESULT OF ANALYSIS

1	Name of WD	Balanga
2	Date of Analysis	June 2003
3	Area number	2 - Region 3
4	Province	Bataan

1	Name of source	Balanga Pump Station #1
2	Location	N 14° 40.450'
		E 120° 40.450'
3	Depth Borehole; meter	-
4	Discharge Flowrate; liters/sec	-
5	Date of Well Operation	No data
6	Disinfection Unit;	Gas Chlorinator
		Hypochlorinator

	PARAMETERS	UNIT	PNSDW Limit	CONCENTRATION	MDL		PARAMETERS	UNIT	PNSDW Limit	CONCENTRATION	MDL
1	Odor		U	U*		26	Potassium	mg/L		2.54	
2	Temperature	°C		28.4*		27	Calcium	mg/L		38.73	
3	pH		6.5-8.5	7.6*		28	Magnesium	mg/L		7.26	
4	Color	Units	5	<5		29	Silica	mg/L		96	
5	Turbidity	NTU	5	<5		30	Total Iron	mg/L	1	<MDL	0.001
6	Conductivity	µS/cm		314		31	Total Manganese	mg/L	0.5	<MDL	0.006
7	Total Dissolved Solids	mg/L	500	224		32	Aluminum	mg/L	0.2	<MDL	0.01
8	Total Solids	mg/L		316 ⁺		33	Zinc	mg/L	5 [@]	<MDL	0.002
9	Chloride	mg/L	250	2		34	Copper	mg/L	1	<MDL	0.001
10	Total Alkalinity	mg/L		154		35	Arsenic	mg/L	0.01	<MDL	0.01
11	Acidity	mg/L		18		36	Chromium	mg/L	0.05	0.03	0.003
12	Hardness (as CaCO ₃)	mg/L	300 [@]	127		37	Cadmium	mg/L	0.003	<MDL	0.003
13	Sulfate	mg/L	250	0		38	Selenium	mg/L	0.01	<MDL	0.001
14	Phosphate	mg/L		<MDL	0.1	39	Lead	mg/L	0.01	<MDL	0.005
15	Nitrite	mg/L	3	0	0.001	40	Mercury	mg/L	0.001	<MDL	0.001
16	Nitrate	mg/L	50	0	0.001	41	Aldrin & Dieldrin	µg/L	0.03	<MDL	0.02
17	Ammonia-Nitrogen	mg/L		<MDL	0.20	42	Chlordane	µg/L	0.2	<MDL	0.02
18	Fluoride	mg/L	1	<MDL		43	DDT	µg/L	2	<MDL	0.01
19	Cyanide	mg/L	0.07	0	0.002	44	Endrin	µg/L	0.2	<MDL	0.02
20	Hydrogen Sulfide	mg/L	0.05	-	0.01	45	Heptachlor/Heptachlor Epoxide	µg/L	0.03		0.01
21	DO (DO%)	mg/L		2.0		46	Lindane	µg/L	2	<MDL	0.01
22	COD	mg/L		0		47	Methoxychlor	µg/L	20	<MDL	0.02
23	BOD	mg/L		5.0		48	Toxaphene	µg/L		<MDL	0.02
24	Surfactant	mg/L		0.21	0.05	49	Endosulfan I	µg/L		<MDL	0.01
25	Sodium	mg/L	200 [@]	6.92			II				0.02

Note: [@] Secondary Standard; compliance with the standard and analysis are not obligatory

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MDL Method Detection Limit

As computed by Local Water Utilities Administration (LWUA)

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² Estimation derived from major Cationic and Anionic constituents

³ Acidity value qualified

- No basis for determination

RESULT OF ANALYSIS

1	Name of WD	Balanga
2	Date of Analysis	June 2003
3	Area number	2 - Region 3
4	Province	Bataan

1	Name of source	Balanga pump Station #7
2	Location	14° 40.967'
		120° 40.967'
3	Depth Borehole; meter	No Data
4	Discharge Flowrate; liters/sec	No Data
5	Date of Well Operation	No data
6	Disinfection	Gas Chlorinator
	Unit	Hypochlorinator

	PARAMETERS	UNIT	PNSDW Limit	CONCENTRATION	MDL		PARAMETERS	UNIT	PNSDW Limit	CONCENTRATION	MDL
1	Odor		U	U*		26	Potassium	mg/L		2.66	
2	Temperature	°C		28.1*		27	Calcium	mg/L		34.58	
3	pH		6.5-8.5	7.3*		28	Magnesium	mg/L		6.54	
4	Color	Units	5	<5		29	Silica	mg/L		102	
5	Turbidity	NTU	5	<5		30	Total Iron	mg/L	1	<MDL	0.001
6	Conductivity	uS/cm		282		31	Total Manganese	mg/L	0.5	<MDL	0.006
7	Total Dissolved Solids	mg/L	500	199		32	Aluminum	mg/L	0.2	<MDL	0.01
8	Total Solids	mg/L		265		33	Zinc	mg/L	5 [@]	0.12	0.002
9	Chloride	mg/L	250	4		34	Copper	mg/L	1	<MDL	0.001
10	Total Alkalinity	mg/L		130		35	Arsenic	mg/L	0.01	<MDL	0.01
11	Acidity	mg/L		16		36	Chromium	mg/L	0.05	<MDL	0.003
12	Hardness (as CaCO ₃)	mg/L	300 [@]	113		37	Cadmium	mg/L	0.003	<MDL	0.003
13	Sulfate	mg/L	250	3		38	Selenium	mg/L	0.01	<MDL	0.001
14	Phosphate	mg/L		<MDL	0.1	39	Lead	mg/L	0.01	<MDL	0.005
15	Nitrite	mg/L	3	0	0.001	40	Mercury	mg/L	0.001	<MDL	0.001
16	Nitrate	mg/L	50	0	0.001	41	Aldrin & Dieldrin	µg/L	0.03	<MDL	0.02
17	Ammonia-Nitrogen	mg/L		<MDL	0.20	42	Chlordane	µg/L	0.2	<MDL	0.02
18	Fluoride	mg/L	1	0.17		43	DDT	µg/L	2	<MDL	0.01
19	Cyanide	mg/L	0.07	<MDL	0.002	44	Endrin	µg/L	0.2	<MDL	0.02
20	Hydrogen Sulfide	mg/L	0.05	-	0.01	45	Heptachlor/Heptachlor Epoxide	µg/L	0.03	<MDL	0.01
21	DO (DO%)	mg/L		4.0		46	Lindane	µg/L	2	<MDL	0.01
22	COD	mg/L		<5		47	Methoxychlor	µg/L	20	<MDL	0.02
23	BOD	mg/L		3.0		48	Toxaphene	µg/L		<MDL	0.02
24	Surfactant	mg/L		0.05	0.05	49	Endosulfan I	µg/L		<MDL	0.01
25	Sodium	mg/L	200 [@]	8.14			II			<MDL	0.02

Note: [@] Secondary Standard; compliance with the standard and analysis are not obligatory

* On Site Analysis (CEST Inc.)

U Unobjectionable Odor, O = Objectionable Odor

+ Re-examination result dated October 2003 (Intertek Laboratory)

MDL Method Detection Limit

As computed by Local Water Utilities Administration (LWUA).

¹ Estimation derived from gravimetric factor

² Estimation derived from major Cationic and Anionic constituents

³ Acidity value qualified

- No basis for determination

RESULT OF ANALYSIS

1	Name of WD	Orani
2	Date of Analysis	June 2003
3	Area number	2 - Region 3
4	Province	Bataan

1	Name of source	Centro Uno Pump Station
2	Location	N 14° 48.058'
		E 120° 32.196'
3	Depth Borehole; meter	134.15
4	Discharge Flowrate; liters/sec	3
5	Date of Well Operation	No data
6	Disinfection Unit;	Gas Chlorinator
		Hypochlorinator
		No data

	PARAMETERS	UNIT	PNSDW Limit	CONCENTRATION	MDL		PARAMETERS	UNIT	PNSDW Limit	CONCENTRATION	MDL
1	Odor		U	U*		26	Potassium	mg/L		2.62	
2	Temperature	°C		27.7*		27	Calcium	mg/L		32.16	
3	pH		6.5-8.5	7.3*		28	Magnesium	mg/L		5.02	
4	Color	Units	5	<5		29	Silica	mg/L		102	
5	Turbidity	NTU	5	<5		30	Total Iron	mg/L	1	<MDL	0.001
6	Conductivity	µS/cm		254		31	Total Manganese	mg/L	0.5	<MDL	0.006
7	Total Dissolved Solids	mg/L	500	210		32	Aluminum	mg/L	0.2	<MDL	0.01
8	Total Solids	mg/L		217		33	Zinc	mg/L	5 [@]	<MDL	0.002
9	Chloride	mg/L	250	1		34	Copper	mg/L	1	<MDL	0.001
10	Total Alkalinity	mg/L		124		35	Arsenic	mg/L	0.01	<MDL	0.01
11	Acidity	mg/L		16		36	Chromium	mg/L	0.05	<MDL	0.003
12	Hardness (as CaCO ₃)	mg/L	300 [@]	101		37	Cadmium	mg/L	0.003	<MDL	0.003
13	Sulfate	mg/L	250	0		38	Selenium	mg/L	0.01	<MDL	0.001
14	Phosphate	mg/L		<MDL	0.1	39	Lead	mg/L	0.01	<MDL	0.005
15	Nitrite	mg/L	3	0	0.001	40	Mercury	mg/L	0.001	<MDL	0.001
16	Nitrate	mg/L	50	1.65 ¹	0.001	41	Aldrin & Dieldrin	µg/L	0.03	<MDL	0.02
17	Ammonia-Nitrogen	mg/L		<MDL	0.20	42	Chlordane	µg/L	0.2	<MDL	0.02
18	Fluoride	mg/L	1	0.25		43	DDT	µg/L	2	<MDL	0.01
19	Cyanide	mg/L	0.07	0	0.002	44	Endrin	µg/L	0.2	<MDL	0.02
20	Hydrogen Sulfide	mg/L	0.05	-	0.01	45	Heptachlor/Heptachlor Epoxide	µg/L	0.03	<MDL	0.01
21	DO (DO%)	mg/L		2.0		46	Lindane	µg/L	2	<MDL	0.01
22	COD	mg/L		0		47	Methoxychlor	µg/L	20	<MDL	0.02
23	BOD	mg/L		5.0		48	Toxaphene	µg/L		<MDL	0.02
24	Surfactant	mg/L		0.08	0.05	49	Endosulfan I	µg/L		<MDL	0.01
25	Sodium	mg/L	200 [@]	4.76			II				0.02

Note: [@] Secondary Standard; compliance with the standard and analysis are not obligatory

* On Site Analysis (CEST Inc.)

U Unobjectionable Odor, O = Objectionable Odor

+ Re-examination result dated October 2003 (Intertek Laboratory)

MDL Method Detection Limit

As computed by Local Water Utilities Administration (LWUA)

¹ Estimation derived from gravimetric factor

² Estimation derived from major Cationic and Anionic constituents

³ Acidity value qualified

- No basis for determination

RESULT OF ANALYSIS

1	Name of WD	Orani
2	Date of Analysis	June 2003
3	Area number	2 - Region 3
4	Province	Bataan

1	Name of source	Maria Fe Pumping Station	
2	Location	14° 47.468'	Maria Fe, Orani, Bataan
		120° 32.250'	
3	Depth Borehole; meter	228.66	
4	Discharge Flowrate; liters/sec	44	
5	Date of Well Operation	No data	
6	Disinfection Unit	Gas Chlorinator	No data
		Hypochlorinator	

	PARAMETERS	UNIT	PNSDW Limit	CONCENTRATION	MDL		PARAMETERS	UNIT	PNSDW Limit	CONCENTRATION	MDL
1	Odor		U	U*		26	Potassium	mg/L		3.06	
2	Temperature	°C		27.9*		27	Calcium	mg/L		18.34	
3	pH		6.5-8.5	7.4*		28	Magnesium	mg/L		4.7	
4	Color	Units	5	<5		29	Silica	mg/L		101	
5	Turbidity	NTU	5	<5		30	Total Iron	mg/L	1	<MDL	0.001
6	Conductivity	µS/cm		270		31	Total Manganese	mg/L	0.5	<MDL	0.006
7	Total Dissolved Solids	mg/L	500	224 [†]		32	Aluminum	mg/L	0.2	<MDL	0.01
8	Total Solids	mg/L		224 [†]		33	Zinc	mg/L	5 [®]	<MDL	0.002
9	Chloride	mg/L	250	2		34	Copper	mg/L	1	<MDL	0.001
10	Total Alkalinity	mg/L		134		35	Arsenic	mg/L	0.01	<MDL	0.01
11	Acidity	mg/L		18		36	Chromium	mg/L	0.05	<MDL	0.003
12	Hardness (as CaCO ₃)	mg/L	300 [®]	65		37	Cadmium	mg/L	0.003	<MDL	0.003
13	Sulfate	mg/L	250	6		38	Selenium	mg/L	0.01	<MDL	0.001
14	Phosphate	mg/L		<MDL	0.1	39	Lead	mg/L	0.01	<MDL	0.005
15	Nitrite	mg/L	3	0	0.001	40	Mercury	mg/L	0.001	<MDL	0.001
16	Nitrate	mg/L	50	0	0.001	41	Aldrin & Dieldrin	µg/L	0.03	<MDL	0.02
17	Ammonia-Nitrogen	mg/L		<MDL	0.20	42	Chlordane	µg/L	0.2	<MDL	0.02
18	Fluoride	mg/L	1	0.19		43	DDT	µg/L	2	<MDL	0.01
19	Cyanide	mg/L	0.07	<MDL	0.002	44	Endrin	µg/L	0.2	<MDL	0.02
20	Hydrogen Sulfide	mg/L	0.05	-	0.01	45	Heptachlor/Heptachlor Epoxide	µg/L	0.03	<MDL	0.01
21	DO (DO%)	mg/L		3.0		46	Lindane	µg/L	2	<MDL	0.01
22	COD	mg/L		<5		47	Methoxychlor	µg/L	20	<MDL	0.02
23	BOD	mg/L		2.0		48	Toxaphene	µg/L		<MDL	0.02
24	Surfactant	mg/L		<MDL	0.05	49	Endosulfan I	µg/L		<MDL	0.01
25	Sodium	mg/L	200 [®]	7.92			II			<MDL	0.02

Note: [®] Secondary Standard; compliance with the standard and analysis are not obligatory

* On Site Analysis (CEST Inc.)

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MDL Method Detection Limit

As computed by Local Water Utilities Administration (LWUA).

¹ Estimation derived from gravimetric factor

² Estimation derived from major Cationic and Anionic constituents

³ Acidity value qualified

- No basis for determination

RESULT OF ANALYSIS

1	Name of WD	Mariveles
2	Date of Analysis	June 2003
3	Area number	2 - Region 3
4	Province	Bataan

1	Name of source	Milagrosa Pump Station
2	Location	N 14° 27.129'
		E 120° 27.997'
3	Depth Borehole, meter	152.44
4	Discharge Flowrate, liters/sec	No data
5	Date of Well Operation	No data
6	Disinfection Unit;	Gas Chlorinator
		Hypochlorinator

PARAMETERS	UNIT	PNSDW Limit	CONCENTRATION	MDL	PARAMETERS	UNIT	PNSDW Limit	CONCENTRATION	MDL
1 Odor		U	No Data*		26 Potassium	mg/L		3.18	
2 Temperature	°C		29.1*		27 Calcium	mg/L		21.8	
3 pH		6.5-8.5	7.2*		28 Magnesium	mg/L		6.86	
4 Color	Units	5	<5		29 Silica	mg/L		104	
5 Turbidity	NTU	5	<5		30 Total Iron	mg/L	1	<MDL	0.001
6 Conductivity	µS/cm		280		31 Total Manganese	mg/L	0.5	0.05	0.006
7 Total Dissolved Solids	mg/L	500	211		32 Aluminum	mg/L	0.2	<MDL	0.01
8 Total Solids	mg/L		251		33 Zinc	mg/L	5 [®]	0.02	0.002
9 Chloride	mg/L	250	5		34 Copper	mg/L	1	<MDL	0.001
10 Total Alkalinity	mg/L		127		35 Arsenic	mg/L	0.01	<MDL	0.01
11 Acidity	mg/L		18		36 Chromium	mg/L	0.05	0.02	0.003
12 Hardness (as CaCO ₃)	mg/L	300 [®]	83		37 Cadmium	mg/L	0.003	<MDL	0.003
13 Sulfate	mg/L	250	8		38 Selenium	mg/L	0.01	<MDL	0.001
14 Phosphate	mg/L		<MDL	0.1	39 Lead	mg/L	0.01	<MDL	0.005
15 Nitrite	mg/L	3	0	0.001	40 Mercury	mg/L	0.001	<MDL	0.001
16 Nitrate	mg/L	50	0	0.001	41 Aldrin & Dieldrin	µg/L	0.03	<MDL	0.02
17 Ammonia-Nitrogen	mg/L		<MDL	0.20	42 Chlordane	µg/L	0.2	<MDL	0.02
18 Fluoride	mg/L	1	0.21		43 DDT	µg/L	2	<MDL	0.01
19 Cyanide	mg/L	0.07	0	0.002	44 Endrin	µg/L	0.2	<MDL	0.02
20 Hydrogen Sulfide	mg/L	0.05	-	0.01	45 Heptachlor/Heptachlor Epoxide	µg/L	0.03	<MDL	0.01
21 DO (DO%)	mg/L		3.0		46 Lindane	µg/L	2	<MDL	0.01
22 COD	mg/L		0		47 Methoxychlor	µg/L	20	<MDL	0.02
23 BOD	mg/L		4.0		48 Toxaphene	µg/L		<MDL	0.02
24 Surfactant	mg/L		0.11	0.05	49 Endosulfan I	µg/L		<MDL	0.01
25 Sodium	mg/L	200 [®]	4.7		II				0.02

Note: [®] Secondary Standard; compliance with the standard and analysis are not obligatory

* On Site Analysis (CEST Inc.)

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+ Re-examination result dated October 2003 (Intertek Laboratory)

MDL Method Detection Limit

As computed by Local Water Utilities Administration (LWUA)

¹ Estimation derived from gravimetric factor

² Estimation derived from major Cationic and Anionic constituents

³ Acidity value qualified

- No basis for determination

RESULT OF ANALYSIS

1	Name of WD	Morong City
2	Date of Analysis	June 2003
3	Area number	2 - Region 3
4	Province	Bataan

1	Name of source	Morong Pump Station #2
2	Location	N 14° 40.911'
		E 120° 16.440'
3	Depth Borehole, meter	No data
4	Discharge Flowrate, liters/sec	No data
5	Date of Well Operation	No data
6	Disinfection Unit;	Gas Chlorinator
		Hypochlorinator

PARAMETERS	UNIT	PNSDW Limit	CONCENTRATION	MDL	PARAMETERS	UNIT	PNSDW Limit	CONCENTRATION	MDL
1 Odor			U Objectionable*		26 Potassium	mg/L		1.59	
2 Temperature	°C		30.1*		27 Calcium	mg/L		38.81	
3 pH		6.5-8.5	6.9*		28 Magnesium	mg/L		7.62	
4 Color	Units	5	<5		29 Silica	mg/L		96	
5 Turbidity	NTU	5	6		30 Total Iron	mg/L	1	0.62	0.001
6 Conductivity	uS/cm		614		31 Total Manganese	mg/L	0.5	0.33	0.006
7 Total Dissolved Solids	mg/L	500	264 ²		32 Aluminum	mg/L	0.2	<MDL	0.01
8 Total Solids	mg/L		300		33 Zinc	mg/L	5 [@]	<MDL	0.002
9 Chloride	mg/L	250	7		34 Copper	mg/L	1	<MDL	0.001
10 Total Alkalinity	mg/L		170		35 Arsenic	mg/L	0.01	<MDL	0.01
11 Acidity	mg/L		19		36 Chromium	mg/L	0.05	<MDL	0.003
12 Hardness (as CaCO ₃)	mg/L	300 [@]	128		37 Cadmium	mg/L	0.003	<MDL	0.003
13 Sulfate	mg/L	250	0		38 Selenium	mg/L	0.01	<MDL	0.001
14 Phosphate	mg/L		<MDL	0.1	39 Lead	mg/L	0.01	<MDL	0.005
15 Nitrite	mg/L	3	0	0.001	40 Mercury	mg/L	0.001	<MDL	0.001
16 Nitrate	mg/L	50	0	0.001	41 Aldrin & Dieldrin	µg/L	0.03	<MDL	0.02
17 Ammonia-Nitrogen	mg/L		<MDL	0.20	42 Chlordane	µg/L	0.2	<MDL	0.02
18 Fluoride	mg/L	1	0.21		43 DDT	µg/L	2	<MDL	0.01
19 Cyanide	mg/L	0.07	0	0.002	44 Endrin	µg/L	0.2	<MDL	0.02
20 Hydrogen Sulfide	mg/L	0.05	0.78 ¹	0.01	45 Heptachlor/Heptachlor Epoxide	µg/L	0.03	<MDL	0.01
21 DO (DO%)	mg/L		2.0		46 Lindane	µg/L	2	<MDL	0.01
22 COD	mg/L		0		47 Methoxychlor	µg/L	20	<MDL	0.02
23 BOD	mg/L		0.9		48 Toxaphene	µg/L		<MDL	0.02
24 Surfactant	mg/L		0.08	0.05	49 Endosulfan I	µg/L		<MDL	0.01
25 Sodium	mg/L	200 [@]	6.49		II				0.02

Note: [@] Secondary Standard; compliance with the standard and analysis are not obligatory

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+ Re-examination result dated October 2003 (Intertek Laboratory)

MDL Method Detection Limit

As computed by Local Water Utilities Administration (LWUA)

¹ Estimation derived from gravimetric factor

² Estimation derived from major Cationic and Anionic constituents

³ Acidity value qualified

- No basis for determination

RESULT OF ANALYSIS

1	Name of WD	Hermosa
2	Date of Analysis	June 2003
3	Area number	2 - Region 3
4	Province	Bataan

1	Name of source	Palihan Pump Station
2	Location	14° 50.691'
		120° 27.980'
3	Depth Borehole; meter	No Data
4	Discharge Flowrate; liters/sec	25
5	Date of Well Operation	No data
6	Disinfection Unit	Gas Chlorinator
		Hypochlorinator

	PARAMETERS	UNIT	PNSDW Limit	CONCENTRATION	MDL		PARAMETERS	UNIT	PNSDW Limit	CONCENTRATION	MDL
1	Odor		U	U*		26	Potassium	mg/L		1.22	
2	Temperature	°C		27*		27	Calcium	mg/L		35.96	
3	pH		6.5-8.5	7.2*		28	Magnesium	mg/L		6.06	
4	Color	Units	5	<5		29	Silica	mg/L		102	
5	Turbidity	NTU	5	<5		30	Total Iron	mg/L	1	<MDL	0.001
6	Conductivity	µS/cm		282		31	Total Manganese	mg/L	0.5	<MDL	0.006
7	Total Dissolved Solids	mg/L	500	240		32	Aluminum	mg/L	0.2	<MDL	0.01
8	Total Solids	mg/L		250		33	Zinc	mg/L	5 [@]	<MDL	0.002
9	Chloride	mg/L	250	3		34	Copper	mg/L	1	<MDL	0.001
10	Total Alkalinity	mg/L		144		35	Arsenic	mg/L	0.01	<MDL	0.01
11	Acidity	mg/L		16		36	Chromium	mg/L	0.05	<MDL	0.003
12	Hardness (as CaCO ₃)	mg/L	300 [@]	115		37	Cadmium	mg/L	0.003	<MDL	0.003
13	Sulfate	mg/L	250	3		38	Selenium	mg/L	0.01	<MDL	0.001
14	Phosphate	mg/L		<MDL	0.1	39	Lead	mg/L	0.01	<MDL	0.005
15	Nitrite	mg/L	3	0	0.001	40	Mercury	mg/L	0.001	<MDL	0.001
16	Nitrate	mg/L	50	0	0.001	41	Aldrin & Dieldrin	µg/L	0.03	<MDL	0.02
17	Ammonia-Nitrogen	mg/L		<MDL	0.20	42	Chlordane	µg/L	0.2	<MDL	0.02
18	Fluoride	mg/L	1	0.14		43	DDT	µg/L	2	<MDL	0.01
19	Cyanide	mg/L	0.07	<MDL	0.002	44	Endrin	µg/L	0.2	<MDL	0.02
20	Hydrogen Sulfide	mg/L	0.05	-	0.01	45	Heptachlor/Heptachlor Epoxide	µg/L	0.03	<MDL	0.01
21	DO (DO%)	mg/L		4.0		46	Lindane	µg/L	2	<MDL	0.01
22	COD	mg/L		16.0		47	Methoxychlor	µg/L	20	<MDL	0.02
23	BOD	mg/L		5.0		48	Toxaphene	µg/L		<MDL	0.02
24	Surfactant	mg/L		0.13	0.05	49	Endosulfan I	µg/L		<MDL	0.01
25	Sodium	mg/L	200 [@]	6.37			II			<MDL	0.02

Note: [@] Secondary Standard; compliance with the standard and analysis are not obligatory

* On Site Analysis (CEST Inc.)

U Unobjectionable Odor, O = Objectionable Odor

+ Re-examination result dated October 2003 (Intertek Laboratory)

MDL Method Detection Limit

As computed by Local Water Utilities Administration (LWUA).

¹ Estimation derived from gravimetric factor

² Estimation derived from major Cationic and Anionic constituents

³ Acidity value qualified

- No basis for determination

RESULT OF ANALYSIS

1	Name of WD	Mariveles
2	Date of Analysis	June 2003
3	Area number	2 - Region 3
4	Province	Bataan

1	Name of source	Pambuco Pump Station
2	Location	N 14° 27.607'
		E 120° 35.278'
3	Depth Borehole; meter	152.44
4	Discharge Flowrate; liters/sec	No data
5	Date of Well Operation	No data
6	Disinfection Unit;	Gas Chlorinator
		Hypochlorinator

	PARAMETERS	UNIT	PNSDW Limit	CONCENTRATION	MDL		PARAMETERS	UNIT	PNSDW Limit	CONCENTRATION	MDL
1	Odor		U	No Data*		26	Potassium	mg/L		1.26	
2	Temperature	°C		27.6*		27	Calcium	mg/L		30.44	
3	pH		6.5-8.5	7.8*		28	Magnesium	mg/L		5.66	
4	Color	Units	5	<5		29	Silica	mg/L		100	
5	Turbidity	NTU	5	<5		30	Total Iron	mg/L	1	<MDL	0.001
6	Conductivity	uS/cm		284		31	Total Manganese	mg/L	0.5	<MDL	0.006
7	Total Dissolved Solids	mg/L	500	260		32	Aluminum	mg/L	0.2	<MDL	0.01
8	Total Solids	mg/L		262		33	Zinc	mg/L	5 [@]	<MDL	0.002
9	Chloride	mg/L	250	5		34	Copper	mg/L	1	<MDL	0.001
10	Total Alkalinity	mg/L		134		35	Arsenic	mg/L	0.01	<MDL	0.01
11	Acidity	mg/L		16		36	Chromium	mg/L	0.05	<MDL	0.003
12	Hardness (as CaCO ₃)	mg/L	300 [@]	99		37	Cadmium	mg/L	0.003	<MDL	0.003
13	Sulfate	mg/L	250	0		38	Selenium	mg/L	0.01	<MDL	0.001
14	Phosphate	mg/L		<MDL	0.1	39	Lead	mg/L	0.01	<MDL	0.005
15	Nitrite	mg/L	3	0	0.001	40	Mercury	mg/L	0.001	<MDL	0.001
16	Nitrate	mg/L	50	0	0.001	41	Aldrin & Dieldrin	µg/L	0.03	<MDL	0.02
17	Ammonia-Nitrogen	mg/L		<MDL	0.20	42	Chlordane	µg/L	0.2	<MDL	0.02
18	Fluoride	mg/L	1	0.12		43	DDT	µg/L	2	<MDL	0.01
19	Cyanide	mg/L	0.07	0	0.002	44	Endrin	µg/L	0.2	<MDL	0.02
20	Hydrogen Sulfide	mg/L	0.05	-	0.01	45	Heptachlor/Heptachlor Epoxide	µg/L	0.03	<MDL	0.01
21	DO (DO%)	mg/L		4.0		46	Lindane	µg/L	2	<MDL	0.01
22	COD	mg/L		0		47	Methoxychlor	µg/L	20	<MDL	0.02
23	BOD	mg/L		3.0		48	Toxaphene	µg/L		<MDL	0.02
24	Surfactant	mg/L		0.17	0.05	49	Endosulfan I	µg/L		<MDL	0.01
25	Sodium	mg/L	200 [@]	5.2			II			<MDL	0.02

Note: [@] Secondary Standard; compliance with the standard and analysis are not obligatory

* On Site Analysis (CEST Inc.)

U Unobjectionable Odor, O = Objectionable Odor

+ Re-examination result dated October 2003 (Intertek Laboratory)

MDL Method Detection Limit

As computed by Local Water Utilities Administration (LWUA)

¹ Estimation derived from gravimetric factor

² Estimation derived from major Cationic and Anionic constituents

³ Acidity value qualified

- No basis for determination

RESULT OF ANALYSIS

1	Name of WD	Bustos
2	Date of Analysis	July 2003
3	Area number	2 - Region 3
4	Province	Bulacan

1	Name of source	Cambaog Pumping Station
2	Location	14° 55.881'
		120° 53.691'
3	Depth Borehole; meter	59
4	Discharge Flowrate; liters/sec	35
5	Date of Well Operation	No data
6	Disinfection Unit	Gas Chlorinator
		Hypochlorinator
		No data

	PARAMETERS	UNIT	PNSDW Limit	CONCENTRATION	MDL		PARAMETERS	UNIT	PNSDW Limit	CONCENTRATION	MDL
1	Odor		U	U*		26	Potassium	mg/L		0.72	
2	Temperature	°C		19.4		27	Calcium	mg/L		29.14	
3	pH		6.5-8.5	6.91		28	Magnesium	mg/L		7.34	
4	Color	Units	5	<5		29	Silica	mg/L		65	
5	Turbidity	NTU	5	<5		30	Total Iron	mg/L	1	<MDL	0.001
6	Conductivity	µS/cm		323		31	Total Manganese	mg/L	0.5	0.69	0.006
7	Total Dissolved Solids	mg/L	500	226		32	Aluminum	mg/L	0.2	<MDL	0.01
8	Total Solids	mg/L		232		33	Zinc	mg/L	5 [@]	<MDL	0.002
9	Chloride	mg/L	250	7		34	Copper	mg/L	1	<MDL	0.001
10	Total Alkalinity	mg/L		100		35	Arsenic	mg/L	0.01	<MDL	0.01
11	Acidity	mg/L		18		36	Chromium	mg/L	0.05	<MDL	0.003
12	Hardness (as CaCO ₃)	mg/L	300 [@]	103		37	Cadmium	mg/L	0.003	<MDL	0.003
13	Sulfate	mg/L	250	2		38	Selenium	mg/L	0.01	<MDL	0.001
14	Phosphate	mg/L		5	0.1	39	Lead	mg/L	0.01	<MDL	0.005
15	Nitrite	mg/L	3	0.01 ¹	0.001	40	Mercury	mg/L	0.001	<MDL	0.001
16	Nitrate	mg/L	50	0	0.001	41	Aldrin & Dieldrin	µg/L	0.03	<MDL	0.02
17	Ammonia-Nitrogen	mg/L		<MDL	0.20	42	Chlordane	µg/L	0.2	<MDL	0.02
18	Fluoride	mg/L	1	<MDL		43	DDT	µg/L	2	<MDL	0.01
19	Cyanide	mg/L	0.07	<MDL	0.002	44	Endrin	µg/L	0.2	<MDL	0.02
20	Hydrogen Sulfide	mg/L	0.05	-	0.01	45	Heptachlor/Heptachlor Epoxide	µg/L	0.03	<MDL	0.01
21	DO (DO%)	mg/L		2.0		46	Lindane	µg/L	2	<MDL	0.01
22	COD	mg/L		<5		47	Methoxychlor	µg/L	20	<MDL	0.02
23	BOD	mg/L		<1		48	Toxaphene	µg/L		<MDL	0.02
24	Surfactant	mg/L		0.19	0.05	49	Endosulfan I	µg/L		<MDL	0.01
25	Sodium	mg/L	200 [@]	4.18			II			<MDL	0.02

Note: [@] Secondary Standard; compliance with the standard and analysis are not obligatory

* On Site Analysis (CEST Inc.)

U Unobjectionable Odor, O = Objectionable Odor

+ Re-examination result dated October 2003 (Intertek Laboratory)

MDL Method Detection Limit

As computed by Local Water Utilities Administration (LWUA).

¹ Estimation derived from gravimetric factor

² Estimation derived from major Cationic and Anionic constituents

³ Acidity value qualified

- No basis for determination

RESULT OF ANALYSIS

1	Name of WD	Calumpit
2	Date of Analysis	July 2003
3	Area number	2 - Region 3
4	Province	Bulacan

1	Name of source	Caniogan Pump Station
2	Location	14° 54.453'
		120° 46.349'
3	Depth Borehole; meter	197
4	Discharge Flowrate; liters/sec	19.6
5	Date of Well Operation	No data
6	Disinfection Unit	Gas Chlorinator
		Hypochlorinator
		No data

	PARAMETERS	UNIT	PNSDW Limit	CONCENTRATION	MDL		PARAMETERS	UNIT	PNSDW Limit	CONCENTRATION	MDL
1	Odor		U	U*		26	Potassium	mg/L		10.36	
2	Temperature	°C		30.5*		27	Calcium	mg/L		9.46	
3	pH		6.5-8.5	7.7*		28	Magnesium	mg/L		2.56	
4	Color	Units	5	<5		29	Silica	mg/L		72	
5	Turbidity	NTU	5	<5		30	Total Iron	mg/L	1	<MDL	0.001
6	Conductivity	µS/cm		756		31	Total Manganese	mg/L	0.5	0.1	0.006
7	Total Dissolved Solids	mg/L	500	402		32	Aluminum	mg/L	0.2	<MDL	0.01
8	Total Solids	mg/L		418		33	Zinc	mg/L	5 [@]	<MDL	0.002
9	Chloride	mg/L	250	142		34	Copper	mg/L	1	<MDL	0.001
10	Total Alkalinity	mg/L		110		35	Arsenic	mg/L	0.01	<MDL	0.01
11	Acidity	mg/L		8		36	Chromium	mg/L	0.05	<MDL	0.003
12	Hardness (as CaCO ₃)	mg/L	300 [@]	34		37	Cadmium	mg/L	0.003	<MDL	0.003
13	Sulfate	mg/L	250	10		38	Selenium	mg/L	0.01	<MDL	0.001
14	Phosphate	mg/L		7	0.1	39	Lead	mg/L	0.01	<MDL	0.005
15	Nitrite	mg/L	3	0.02 ¹	0.001	40	Mercury	mg/L	0.001	<MDL	0.001
16	Nitrate	mg/L	50	0	0.001	41	Aldrin & Dieldrin	µg/L	0.03	<MDL	0.02
17	Ammonia-Nitrogen	mg/L		<MDL	0.20	42	Chlordane	µg/L	0.2	<MDL	0.02
18	Fluoride	mg/L	1	0.21		43	DDT	µg/L	2	<MDL	0.01
19	Cyanide	mg/L	0.07	<MDL	0.002	44	Endrin	µg/L	0.2	<MDL	0.02
20	Hydrogen Sulfide	mg/L	0.05	-	0.01	45	Heptachlor/Heptachlor Epoxide	µg/L	0.03	<MDL	0.01
21	DO (DO%)	mg/L		3.0		46	Lindane	µg/L	2	<MDL	0.01
22	COD	mg/L		40.0		47	Methoxychlor	µg/L	20	<MDL	0.02
23	BOD	mg/L		4.0		48	Toxaphene	µg/L		<MDL	0.02
24	Surfactant	mg/L		0.09	0.05	49	Endosulfan I	µg/L		<MDL	0.01
25	Sodium	mg/L	200 [@]	111.74			II			<MDL	0.02

Note: [@] Secondary Standard; compliance with the standard and analysis are not obligatory

* On Site Analysis (CEST Inc.)

U Unobjectionable Odor, O = Objectionable Odor

+ Re-examination result dated October 2003 (Intertek Laboratory)

MDL Method Detection Limit

As computed by Local Water Utilities Administration (LWUA).

¹ Estimation derived from gravimetric factor

² Estimation derived from major Cationic and Anionic constituents

³ Acidity value qualified

- No basis for determination

RESULT OF ANALYSIS

1	Name of WD	Malolos
2	Date of Analysis	July 2003
3	Area number	2 - Region 3
4	Province	Bulacan

1	Name of source	Caniogan Pump Station	
2	Location	14° 50.916'	Caniogan, Malolos Bulacan
		120° 49.132'	
3	Depth Borehole; meter	98	
4	Discharge Flowrate; liters/sec	6.4	
5	Date of Well Operation	No data	
6	Disinfection	Gas Chlorinator	No data
	Unit	Hypochlorinator	

	PARAMETERS	UNIT	PNSDW Limit	CONCENTRATION	MDL		PARAMETERS	UNIT	PNSDW Limit	CONCENTRATION	MDL
1	Odor		U	U*		26	Potassium	mg/L		8.06	
2	Temperature	°C		29.1*		27	Calcium	mg/L		24.62	
3	pH		6.5-8.5	7.5*		28	Magnesium	mg/L		4.96	
4	Color	Units	5	<5		29	Silica	mg/L		71	
5	Turbidity	NTU	5	<5		30	Total Iron	mg/L	1	<MDL	0.001
6	Conductivity	uS/cm		884		31	Total Manganese	mg/L	0.5	0.14	0.006
7	Total Dissolved Solids	mg/L	500	431 ⁺		32	Aluminum	mg/L	0.2	<MDL	0.01
8	Total Solids	mg/L		482		33	Zinc	mg/L	5 [@]	0.06	0.002
9	Chloride	mg/L	250	212		34	Copper	mg/L	1	<MDL	0.001
10	Total Alkalinity	mg/L		118		35	Arsenic	mg/L	0.01	<MDL	0.01
11	Acidity	mg/L		6		36	Chromium	mg/L	0.05	<MDL	0.003
12	Hardness (as CaCO ₃)	mg/L	300 [@]	82		37	Cadmium	mg/L	0.003	<MDL	0.003
13	Sulfate	mg/L	250	6		38	Selenium	mg/L	0.01	<MDL	0.001
14	Phosphate	mg/L		<MDL	0.1	39	Lead	mg/L	0.01	<MDL	0.005
15	Nitrite	mg/L	3	0.01 ¹	0.001	40	Mercury	mg/L	0.001	<MDL	0.001
16	Nitrate	mg/L	50	0.96 ¹	0.001	41	Aldrin & Dieldrin	µg/L	0.03	<MDL	0.02
17	Ammonia-Nitrogen	mg/L		0.83	0.20	42	Chlordane	µg/L	0.2	<MDL	0.02
18	Fluoride	mg/L	1	0.21		43	DDT	µg/L	2	<MDL	0.01
19	Cyanide	mg/L	0.07	<MDL	0.002	44	Endrin	µg/L	0.2	<MDL	0.02
20	Hydrogen Sulfide	mg/L	0.05	-	0.01	45	Heptachlor/Heptachlor Epoxide	µg/L	0.03	<MDL	0.01
21	DO (DO%)	mg/L		3.0		46	Lindane	µg/L	2	<MDL	0.01
22	COD	mg/L		21.0		47	Methoxychlor	µg/L	20	<MDL	0.02
23	BOD	mg/L		<1		48	Toxaphene	µg/L		<MDL	0.02
24	Surfactant	mg/L		0.09	0.05	49	Endosulfan I	µg/L		<MDL	0.01
25	Sodium	mg/L	200 [@]	32.96			II			<MDL	0.02

Note: [@] Secondary Standard; compliance with the standard and analysis are not obligatory

* On Site Analysis (CEST Inc.)

U Unobjectionable Odor, O = Objectionable Odor

+ Re-examination result dated October 2003 (Intertek Laboratory)

MDL Method Detection Limit

As computed by Local Water Utilities Administration (LWUA).

¹ Estimation derived from gravimetric factor

² Estimation derived from major Cationic and Anionic constituents

³ Acidity value qualified

- No basis for determination

RESULT OF ANALYSIS

1	Name of WD	Marilao
2	Date of Analysis	July 2003
3	Area number	2 - Region 3
4	Province	Bulacan

1	Name of source	Constantino P.S. #2	
2	Location	14° 45.565'	Marilao WD, Poblacio 2, Marilao
		120° 56.481'	
3	Depth Borehole; meter	212	
4	Discharge Flowrate; liters/sec	13	
5	Date of Well Operation	No data	
6	Disinfection Unit	Gas Chlorinator	No data
		Hypochlorinator	

PARAMETERS	UNIT	PNSDW Limit	CONCENTRATION	MDL	PARAMETERS	UNIT	PNSDW Limit	CONCENTRATION	MDL
1 Odor		U	U*		26 Potassium	mg/L		1.54	
2 Temperature	°C		30*		27 Calcium	mg/L		1.16	
3 pH		6.5-8.5	8.7*		28 Magnesium	mg/L		0.01	
4 Color	Units	5	5		29 Silica	mg/L		26	
5 Turbidity	NTU	5	<5		30 Total Iron	mg/L	1	<MDL	0.001
6 Conductivity	µS/cm		411		31 Total Manganese	mg/L	0.5	<MDL	0.006
7 Total Dissolved Solids	mg/L	500	232 ⁺		32 Aluminum	mg/L	0.2	<MDL	0.01
8 Total Solids	mg/L		348 ⁺		33 Zinc	mg/L	5 [@]	<MDL	0.002
9 Chloride	mg/L	250	35		34 Copper	mg/L	1	<MDL	0.001
10 Total Alkalinity	mg/L		78		35 Arsenic	mg/L	0.01	<MDL	0.01
11 Acidity	mg/L		0 ³		36 Chromium	mg/L	0.05	<MDL	0.003
12 Hardness (as CaCO ₃)	mg/L	300 [@]	4		37 Cadmium	mg/L	0.003	<MDL	0.003
13 Sulfate	mg/L	250	0		38 Selenium	mg/L	0.01	<MDL	0.001
14 Phosphate	mg/L		3	0.1	39 Lead	mg/L	0.01	<MDL	0.005
15 Nitrite	mg/L	3	0.03 ¹	0.001	40 Mercury	mg/L	0.001	<MDL	0.001
16 Nitrate	mg/L	50	0	0.001	41 Aldrin & Dieldrin	µg/L	0.03	<MDL	0.02
17 Ammonia-Nitrogen	mg/L		<MDL	0.20	42 Chlordane	µg/L	0.2	<MDL	0.02
18 Fluoride	mg/L	1	1		43 DDT	µg/L	2	<MDL	0.01
19 Cyanide	mg/L	0.07	<MDL	0.002	44 Endrin	µg/L	0.2	<MDL	0.02
20 Hydrogen Sulfide	mg/L	0.05	-	0.01	45 Heptachlor/Heptachlor Epoxide	µg/L	0.03	<MDL	0.01
21 DO (DO%)	mg/L		3.0		46 Lindane	µg/L	2	<MDL	0.01
22 COD	mg/L		24.0		47 Methoxychlor	µg/L	20	<MDL	0.02
23 BOD	mg/L		1.0		48 Toxaphene	µg/L		<MDL	0.02
24 Surfactant	mg/L		<MDL	0.05	49 Endosulfan I	µg/L		<MDL	0.01
25 Sodium	mg/L	200 [@]	47.7		II			<MDL	0.02

Note: [@] Secondary Standard; compliance with the standard and analysis are not obligatory

* On Site Analysis (CEST Inc.)

U Unobjectionable Odor, O = Objectionable Odor

+ Re-examination result dated October 2003 (Intertek Laboratory)

MDL Method Detection Limit

As computed by Local Water Utilities Administration (LWUA).

¹ Estimation derived from gravimetric factor

² Estimation derived from major Cationic and Anionic constituents

³ Acidity value qualified

- No basis for determination

RESULT OF ANALYSIS

1	Name of WD	Calumpit
2	Date of Analysis	July 2003
3	Area number	2 - Region 3
4	Province	Bulacan

1	Name of source	Danga Pumping Station	
2	Location	14° 55.746'	Danga, Calumpit, Bulacan
		120° 45.008'	
3	Depth Borehole; meter	181	
4	Discharge Flowrate, liters/sec	30	
5	Date of Well Operation	No data	
6	Disinfection Unit	Gas Chlorinator	No data
		Hypochlorinator	

	PARAMETERS	UNIT	PNSDW Limit	CONCENTRATION	MDL		PARAMETERS	UNIT	PNSDW Limit	CONCENTRATION	MDL
1	Odor		U	U*		26	Potassium	mg/L		6.14	
2	Temperature	°C		30.5*		27	Calcium	mg/L		1.75	
3	pH		6.5-8.5	7.8*		28	Magnesium	mg/L		0.36	
4	Color	Units	5	<5		29	Silica	mg/L		88	
5	Turbidity	NTU	5	<5		30	Total Iron	mg/L	1	<MDL	0.001
6	Conductivity	uS/cm		279		31	Total Manganese	mg/L	0.5	<MDL	0.006
7	Total Dissolved Solids	mg/L	500	224 ⁺		32	Aluminum	mg/L	0.2	<MDL	0.01
8	Total Solids	mg/L		244		33	Zinc	mg/L	5 [@]	<MDL	0.002
9	Chloride	mg/L	250	8		34	Copper	mg/L	1	<MDL	0.001
10	Total Alkalinity	mg/L		84		35	Arsenic	mg/L	0.01	<MDL	0.01
11	Acidity	mg/L		6		36	Chromium	mg/L	0.05	<MDL	0.003
12	Hardness (as CaCO ₃)	mg/L	300 [@]	6		37	Cadmium	mg/L	0.003	<MDL	0.003
13	Sulfate	mg/L	250	14		38	Selenium	mg/L	0.01	<MDL	0.001
14	Phosphate	mg/L		8	0.1	39	Lead	mg/L	0.01	<MDL	0.005
15	Nitrite	mg/L	3	0	0.001	40	Mercury	mg/L	0.001	<MDL	0.001
16	Nitrate	mg/L	50	0.17 ¹	0.001	41	Aldrin & Dieldrin	µg/L	0.03	<MDL	0.02
17	Ammonia-Nitrogen	mg/L		<MDL	0.20	42	Chlordane	µg/L	0.2	<MDL	0.02
18	Fluoride	mg/L	1	0.33		43	DDT	µg/L	2	<MDL	0.01
19	Cyanide	mg/L	0.07	<MDL	0.002	44	Endrin	µg/L	0.2	<MDL	0.02
20	Hydrogen Sulfide	mg/L	0.05	-	0.01	45	Heptachlor/Heptachlor Epoxide	µg/L	0.03	<MDL	0.01
21	DO (DO%)	mg/L		2.0		46	Lindane	µg/L	2	<MDL	0.01
22	COD	mg/L		48.0		47	Methoxychlor	µg/L	20	<MDL	0.02
23	BOD	mg/L		4.0		48	Toxaphene	µg/L		<MDL	0.02
24	Surfactant	mg/L		0.08	0.05	49	Endosulfan I	µg/L		<MDL	0.01
25	Sodium	mg/L	200 [@]	55.34			II			<MDL	0.02

Note: [@] Secondary Standard; compliance with the standard and analysis are not obligatory

* On Site Analysis (CEST Inc.)

U Unobjectionable Odor, O = Objectionable Odor

+ Re-examination result dated October 2003 (Intertek Laboratory)

MDL Method Detection Limit

As computed by Local Water Utilities Administration (LWUA).

¹ Estimation derived from gravimetric factor

² Estimation derived from major Cationic and Anionic constituents

³ Acidity value qualified

- No basis for determination

RESULT OF ANALYSIS

1	Name of WD	Angat
2	Date of Analysis	July 2003
3	Area number	2 - Region 3
4	Province	Bulacan

1	Name of source	Donacion Pumping Station
2	Location	14° 56.784'
		120° 58.708'
3	Depth Borehole; meter	No Data
4	Discharge Flowrate; liters/sec	No Data
5	Date of Well Operation	No data
6	Disinfection Unit	Gas Chlorinator
		Hypochlorinator

	PARAMETERS	UNIT	PNSDW Limit	CONCENTRATION	MDL		PARAMETERS	UNIT	PNSDW Limit	CONCENTRATION	MDL
1	Odor		U	U*		26	Potassium	mg/L		1.49	
2	Temperature	°C		28.7*		27	Calcium	mg/L		55.64	
3	pH		6.5-8.5	7.5*		28	Magnesium	mg/L		9.14	
4	Color	Units	5	<5		29	Silica	mg/L		50	
5	Turbidity	NTU	5	<5		30	Total Iron	mg/L	1	<MDL	0.001
6	Conductivity	uS/cm		379		31	Total Manganese	mg/L	0.5	0.22	0.006
7	Total Dissolved Solids	mg/L	500	255		32	Aluminum	mg/L	0.2	<MDL	0.01
8	Total Solids	mg/L		270		33	Zinc	mg/L	5 [@]	<MDL	0.002
9	Chloride	mg/L	250	14		34	Copper	mg/L	1	<MDL	0.001
10	Total Alkalinity	mg/L		111		35	Arsenic	mg/L	0.01	<MDL	0.01
11	Acidity	mg/L		24		36	Chromium	mg/L	0.05	0.03	0.003
12	Hardness (as CaCO ₃)	mg/L	300 [@]	177		37	Cadmium	mg/L	0.003	<MDL	0.003
13	Sulfate	mg/L	250	13		38	Selenium	mg/L	0.01	<MDL	0.001
14	Phosphate	mg/L		<MDL	0.1	39	Lead	mg/L	0.01	<MDL	0.005
15	Nitrite	mg/L	3	0	0.001	40	Mercury	mg/L	0.001	<MDL	0.001
16	Nitrate	mg/L	50	0.87 ¹	0.001	41	Aldrin & Dieldrin	µg/L	0.03	<MDL	0.02
17	Ammonia-Nitrogen	mg/L		<MDL	0.20	42	Chlordane	µg/L	0.2	<MDL	0.02
18	Fluoride	mg/L	1	0.29		43	DDT	µg/L	2	<MDL	0.01
19	Cyanide	mg/L	0.07	<MDL	0.002	44	Endrin	µg/L	0.2	<MDL	0.02
20	Hydrogen Sulfide	mg/L	0.05	-	0.01	45	Heptachlor/Heptachlor Epoxide	µg/L	0.03	<MDL	0.01
21	DO (DO%)	mg/L		2.0		46	Lindane	µg/L	2	<MDL	0.01
22	COD	mg/L		20.0		47	Methoxychlor	µg/L	20	<MDL	0.02
23	BOD	mg/L		2.0		48	Toxaphene	µg/L		<MDL	0.02
24	Surfactant	mg/L		0.12	0.05	49	Endosulfan I	µg/L		<MDL	0.01
25	Sodium	mg/L	200 [@]	4.71			II			<MDL	0.02

Note: [@] Secondary Standard; compliance with the standard and analysis are not obligatory

* On Site Analysis (CEST Inc.)

U Unobjectionable Odor, O = Objectionable Odor

+ Re-examination result dated October 2003 (Intertek Laboratory)

MDL Method Detection Limit

As computed by Local Water Utilities Administration (LWUA).

¹ Estimation derived from gravimetric factor

² Estimation derived from major Cationic and Anionic constituents

³ Acidity value qualified

- No basis for determination

RESULT OF ANALYSIS

1	Name of WD	Hagonoy
2	Date of Analysis	July 2003
3	Area number	2 - Region 3
4	Province	Bulacan

1	Name of source	Felix A. Ople Pumping Station
2	Location	14° 52.673' 120° 45.689' Bautista Park, Iba, Hagonoy, Bulacan
3	Depth Borehole; meter	152
4	Discharge Flowrate; liters/sec	47
5	Date of Well Operation	No data
6	Disinfection Unit	Gas Chlorinator Hypochlorinator No data

	PARAMETERS	UNIT	PNSDW Limit	CONCENTRATION	MDL		PARAMETERS	UNIT	PNSDW Limit	CONCENTRATION	MDL
1	Odor		U	U*		26	Potassium	mg/L		14.74	
2	Temperature	°C		31.1*		27	Calcium	mg/L		14.94	
3	pH		6.5-8.5	7.4*		28	Magnesium	mg/L		2.54	
4	Color	Units	5	<5		29	Silica	mg/L		84	
5	Turbidity	NTU	5	<5		30	Total Iron	mg/L	1	<MDL	0.001
6	Conductivity	µS/cm		810		31	Total Manganese	mg/L	0.5	0.21	0.006
7	Total Dissolved Solids	mg/L	500	431		32	Aluminum	mg/L	0.2	<MDL	0.01
8	Total Solids	mg/L		434		33	Zinc	mg/L	5 [@]	<MDL	0.002
9	Chloride	mg/L	250	192		34	Copper	mg/L	1	<MDL	0.001
10	Total Alkalinity	mg/L		110		35	Arsenic	mg/L	0.01	<MDL	0.01
11	Acidity	mg/L		9		36	Chromium	mg/L	0.05	<MDL	0.003
12	Hardness (as CaCO ₃)	mg/L	300 [@]	48		37	Cadmium	mg/L	0.003	<MDL	0.003
13	Sulfate	mg/L	250	2		38	Selenium	mg/L	0.01	<MDL	0.001
14	Phosphate	mg/L		<MDL	0.1	39	Lead	mg/L	0.01	<MDL	0.005
15	Nitrite	mg/L	3	0	0.001	40	Mercury	mg/L	0.001	<MDL	0.001
16	Nitrate	mg/L	50	0.48 ¹	0.001	41	Aldrin & Dieldrin	µg/L	0.03	<MDL	0.02
17	Ammonia-Nitrogen	mg/L		0.62	0.20	42	Chlordane	µg/L	0.2	<MDL	0.02
18	Fluoride	mg/L	1	0.21		43	DDT	µg/L	2	<MDL	0.01
19	Cyanide	mg/L	0.07	<MDL	0.002	44	Endrin	µg/L	0.2	<MDL	0.02
20	Hydrogen Sulfide	mg/L	0.05	-	0.01	45	Heptachlor/Heptachlor Epoxide	µg/L	0.03	<MDL	0.01
21	DO (DO%)	mg/L		3.0		46	Lindane	µg/L	2	<MDL	0.01
22	COD	mg/L		22.0		47	Methoxychlor	µg/L	20	<MDL	0.02
23	BOD	mg/L		2.0		48	Toxaphene	µg/L		<MDL	0.02
24	Surfactant	mg/L		0.07	0.05	49	Endosulfan I	µg/L		<MDL	0.01
25	Sodium	mg/L	200 [@]	31.44			II			<MDL	0.02

Note: [@] Secondary Standard; compliance with the standard and analysis are not obligatory

* On Site Analysis (CEST Inc.)

U Unobjectionable Odor, O = Objectionable Odor

+ Re-examination result dated October 2003 (Intertek Laboratory)

MDL Method Detection Limit

As computed by Local Water Utilities Administration (LWUA).

¹ Estimation derived from gravimetric factor

² Estimation derived from major Cationic and Anionic constituents

³ Acidity value qualified

- No basis for determination

RESULT OF ANALYSIS

1	Name of WD	Angat
2	Date of Analysis	July 2003
3	Area number	2 - Region 3
4	Province	Bulacan

1	Name of source	Marungko Pumping Station
2	Location	14° 57.070' 120° 00.249'
3	Depth Borehole; meter	No Data
4	Discharge Flowrate; liters/sec	No Data
5	Date of Well Operation	No data
6	Disinfection Unit	Gas Chlorinator Hypochlorinator
		No data

	PARAMETERS	UNIT	PNSDW Limit	CONCENTRATION	MDL		PARAMETERS	UNIT	PNSDW Limit	CONCENTRATION	MDL
1	Odor		U	U*		26	Potassium	mg/L		0.56	
2	Temperature	°C		29.2*		27	Calcium	mg/L		72.14	
3	pH		6.5-8.5	7*		28	Magnesium	mg/L		10.34	
4	Color	Units	5	<5		29	Silica	mg/L		49	
5	Turbidity	NTU	5	<5		30	Total Iron	mg/L	1	<MDL	0.001
6	Conductivity	µS/cm		476		31	Total Manganese	mg/L	0.5	0	0.006
7	Total Dissolved Solids	mg/L	500	325		32	Aluminum	mg/L	0.2	<MDL	0.01
8	Total Solids	mg/L		366		33	Zinc	mg/L	5 [@]	<MDL	0.002
9	Chloride	mg/L	250	24		34	Copper	mg/L	1	<MDL	0.001
10	Total Alkalinity	mg/L		92		35	Arsenic	mg/L	0.01	<MDL	0.01
11	Acidity	mg/L		30		36	Chromium	mg/L	0.05	0.04	0.003
12	Hardness (as CaCO ₃)	mg/L	300 [@]	223		37	Cadmium	mg/L	0.003	<MDL	0.003
13	Sulfate	mg/L	250	59		38	Selenium	mg/L	0.01	<MDL	0.001
14	Phosphate	mg/L		<MDL	0.1	39	Lead	mg/L	0.01	<MDL	0.005
15	Nitrite	mg/L	3	0	0.001	40	Mercury	mg/L	0.001	<MDL	0.001
16	Nitrate	mg/L	50	26 ¹	0.001	41	Aldrin & Dieldrin	µg/L	0.03	<MDL	0.02
17	Ammonia-Nitrogen	mg/L		<MDL	0.20	42	Chlordane	µg/L	0.2	<MDL	0.02
18	Fluoride	mg/L	1	<MDL		43	DDT	µg/L	2	<MDL	0.01
19	Cyanide	mg/L	0.07	<MDL	0.002	44	Endrin	µg/L	0.2	<MDL	0.02
20	Hydrogen Sulfide	mg/L	0.05	-	0.01	45	Heptachlor/Heptachlor Epoxide	µg/L	0.03	<MDL	0.01
21	DO (DO%)	mg/L		4.0		46	Lindane	µg/L	2	<MDL	0.01
22	COD	mg/L		<5		47	Methoxychlor	µg/L	20	<MDL	0.02
23	BOD	mg/L		0.9		48	Toxaphene	µg/L		<MDL	0.02
24	Surfactant	mg/L		0.06	0.05	49	Endosulfan I	µg/L		<MDL	0.01
25	Sodium	mg/L	200 [@]	4.44			II			<MDL	0.02

Note: [@] Secondary Standard; compliance with the standard and analysis are not obligatory

* On Site Analysis (CEST Inc.)

U Unobjectionable Odor, O = Objectionable Odor

+ Re-examination result dated October 2003 (Intertek Laboratory)

MDL Method Detection Limit

As computed by Local Water Utilities Administration (LWUA).

¹ Estimation derived from gravimetric factor

² Estimation derived from major Cationic and Anionic constituents

³ Acidity value qualified

- No basis for determination

RESULT OF ANALYSIS

1	Name of WD	Malolos
2	Date of Analysis	July 2003
3	Area number	2 - Region 3
4	Province	Bulacan

1	Name of source		Fausta Subd. PS
2	Location	14° 50.850'	Fausta Subd., Mabolo Malolos, Bulacan
		120° 49.132'	
3	Depth Borehole; meter		66
4	Discharge Flowrate; liters/sec		5
5	Date of Well Operation		No data
6	Disinfection Unit	Gas Chlorinator	No data
		Hypochlorinator	

	PARAMETERS	UNIT	PNSDW Limit	CONCENTRATION	MDL		PARAMETERS	UNIT	PNSDW Limit	CONCENTRATION	MDL
1	Odor		U	U*		26	Potassium	mg/L		8.31	
2	Temperature	°C		28.6*		27	Calcium	mg/L		76.78	
3	pH		6.5-8.5	7.3*		28	Magnesium	mg/L		6.29	
4	Color	Units	5	<5		29	Silica	mg/L		43	
5	Turbidity	NTU	5	<5		30	Total Iron	mg/L	1	<MDL	0.001
6	Conductivity	μ S/cm		1,432		31	Total Manganese	mg/L	0.5	0.06	0.006
7	Total Dissolved Solids	mg/L	500	639 ⁺		32	Aluminum	mg/L	0.2	<MDL	0.01
8	Total Solids	mg/L		826		33	Zinc	mg/L	5 [@]	0.12	0.002
9	Chloride	mg/L	250	372		34	Copper	mg/L	1	<MDL	0.001
10	Total Alkalinity	mg/L		152		35	Arsenic	mg/L	0.01	<MDL	0.01
11	Acidity	mg/L		13		36	Chromium	mg/L	0.05	<MDL	0.003
12	Hardness (as CaCO ₃)	mg/L	300 [@]	218		37	Cadmium	mg/L	0.003	<MDL	0.003
13	Sulfate	mg/L	250	2		38	Selenium	mg/L	0.01	<MDL	0.001
14	Phosphate	mg/L		<MDL	0.1	39	Lead	mg/L	0.01	<MDL	0.005
15	Nitrite	mg/L	3	0	0.001	40	Mercury	mg/L	0.001	<MDL	0.001
16	Nitrate	mg/L	50	2.35 [†]	0.001	41	Aldrin & Dieldrin	μ g/L	0.03	<MDL	0.02
17	Ammonia-Nitrogen	mg/L		<MDL	0.20	42	Chlordane	μ g/L	0.2	<MDL	0.02
18	Fluoride	mg/L	1	0.11		43	DDT	μ g/L	2	<MDL	0.01
19	Cyanide	mg/L	0.07	<MDL	0.002	44	Endrin	μ g/L	0.2	<MDL	0.02
20	Hydrogen Sulfide	mg/L	0.05	-	0.01	45	Heptachlor/Heptachlor Epoxide	μ g/L	0.03	<MDL	0.01
21	DO (DO%)	mg/L		3.0		46	Lindane	μ g/L	2	<MDL	0.01
22	COD	mg/L		<5		47	Methoxychlor	μ g/L	20	<MDL	0.02
23	BOD	mg/L		<1		48	Toxaphene	μ g/L		<MDL	0.02
24	Surfactant	mg/L		0.11	0.05	49	Endosulfan I	μ g/L		<MDL	0.01
25	Sodium	mg/L	200 [@]	38.48			II			<MDL	0.02

Note: [@] Secondary Standard; compliance with the standard and analysis are not obligatory

* On Site Analysis (CEST Inc.)

U Unobjectionable Odor, O = Objectionable Odor

+ Re-examination result dated October 2003 (Intertek Laboratory)

MDL Method Detection Limit

As computed by Local Water Utilities Administration (LWUA).

[†] Estimation derived from gravimetric factor

² Estimation derived from major Cationic and Anionic constituents

³ Acidity value qualified

- No basis for determination

RESULT OF ANALYSIS

1	Name of WD	Bocau
2	Date of Analysis	July 2003
3	Area number	2 - Region 3
4	Province	Bulacan

1	Name of source	Krus sa Wawa PS
2	Location	14° 47.335'
		120° 55.691'
3	Depth Borehole; meter	162
4	Discharge Flowrate; liters/sec	63
5	Date of Well Operation	No data
6	Disinfection Unit	Gas Chlorinator
		Hypochlorinator

	PARAMETERS	UNIT	PNSDW Limit	CONCENTRATION	MDL		PARAMETERS	UNIT	PNSDW Limit	CONCENTRATION	MDL
1	Odor		U	U*		26	Potassium	mg/L		2.76	
2	Temperature	°C		29.7*		27	Calcium	mg/L		9.33	
3	pH		6.5-8.5	8.3*		28	Magnesium	mg/L		0.37	
4	Color	Units	5	<5		29	Silica	mg/L		20	
5	Turbidity	NTU	5	<5		30	Total Iron	mg/L	1	<MDL	0.001
6	Conductivity	µS/cm		954		31	Total Manganese	mg/L	0.5	0.03	0.006
7	Total Dissolved Solids	mg/L	500	388 ⁺		32	Aluminum	mg/L	0.2	<MDL	0.01
8	Total Solids	mg/L		424		33	Zinc	mg/L	5 [®]	<MDL	0.002
9	Chloride	mg/L	250	199		34	Copper	mg/L	1	<MDL	0.001
10	Total Alkalinity	mg/L		91		35	Arsenic	mg/L	0.01	<MDL	0.01
11	Acidity	mg/L		3		36	Chromium	mg/L	0.05	<MDL	0.003
12	Hardness (as CaCO ₃)	mg/L	300 [®]	25		37	Cadmium	mg/L	0.003	<MDL	0.003
13	Sulfate	mg/L	250	25		38	Selenium	mg/L	0.01	<MDL	0.001
14	Phosphate	mg/L		3	0.1	39	Lead	mg/L	0.01	<MDL	0.005
15	Nitrite	mg/L	3	0.03 ¹	0.001	40	Mercury	mg/L	0.001	<MDL	0.001
16	Nitrate	mg/L	50	0	0.001	41	Aldrin & Dieldrin	µg/L	0.03	<MDL	0.02
17	Ammonia-Nitrogen	mg/L		<MDL	0.20	42	Chlordane	µg/L	0.2	<MDL	0.02
18	Fluoride	mg/L	1	0.68		43	DDT	µg/L	2	<MDL	0.01
19	Cyanide	mg/L	0.07	<MDL	0.002	44	Endrin	µg/L	0.2	<MDL	0.02
20	Hydrogen Sulfide	mg/L	0.05	0.02	0.01	45	Heptachlor/Heptachlor Epoxide	µg/L	0.03	<MDL	0.01
21	DO (DO%)	mg/L		2.0		46	Lindane	µg/L	2	<MDL	0.01
22	COD	mg/L		<5		47	Methoxychlor	µg/L	20	<MDL	0.02
23	BOD	mg/L		0.9		48	Toxaphene	µg/L		<MDL	0.02
24	Surfactant	mg/L		0.06	0.05	49	Endosulfan I	µg/L		<MDL	0.01
25	Sodium	mg/L	200 [®]	76.35			II			<MDL	0.02

Note: [®] Secondary Standard; compliance with the standard and analysis are not obligatory

* On Site Analysis (CEST Inc.)

U Unobjectionable Odor, O = Objectionable Odor

+ Re-examination result dated October 2003 (Intertek Laboratory)

MDL Method Detection Limit

As computed by Local Water Utilities Administration (LWUA).

¹ Estimation derived from gravimetric factor

² Estimation derived from major Cationic and Anionic constituents

³ Acidity value qualified

- No basis for determination

RESULT OF ANALYSIS

1	Name of WD	Pandi
2	Date of Analysis	July 2003
3	Area number	2 - Region 3
4	Province	Bulacan

1	Name of source	Mapulang Lupa PS
2	Location	14° 52.695' 120° 57.668' Mapulang Lupa, Pandi, Bulacan
3	Depth Borehole; meter	60
4	Discharge Flowrate; liters/sec	7
5	Date of Well Operation	No data
6	Disinfection Unit	Gas Chlorinator Hypochlorinator No data

PARAMETERS	UNIT	PNSDW Limit	CONCENTRATION	MDL	PARAMETERS	UNIT	PNSDW Limit	CONCENTRATION	MDL
1 Odor		U	U*		26 Potassium	mg/L		4.49	
2 Temperature	°C		29.5		27 Calcium	mg/L		31.66	
3 pH		6.5-8.5	8.4		28 Magnesium	mg/L		7.9	
4 Color	Units	5	<5		29 Silica	mg/L		65	
5 Turbidity	NTU	5	<5		30 Total Iron	mg/L	1	<MDL	0.001
6 Conductivity	µS/cm		416		31 Total Manganese	mg/L	0.5	<MDL	0.006
7 Total Dissolved Solids	mg/L	500	227 [†]		32 Aluminum	mg/L	0.2	<MDL	0.01
8 Total Solids	mg/L		265		33 Zinc	mg/L	5 [®]	<MDL	0.002
9 Chloride	mg/L	250	2		34 Copper	mg/L	1	<MDL	0.001
10 Total Alkalinity	mg/L		170		35 Arsenic	mg/L	0.01	<MDL	0.01
11 Acidity	mg/L		0 [‡]		36 Chromium	mg/L	0.05	<MDL	0.003
12 Hardness (as CaCO ₃)	mg/L	300 [®]	112		37 Cadmium	mg/L	0.003	<MDL	0.003
13 Sulfate	mg/L	250	2		38 Selenium	mg/L	0.01	<MDL	0.001
14 Phosphate	mg/L		4	0.1	39 Lead	mg/L	0.01	<MDL	0.005
15 Nitrite	mg/L	3	0	0.001	40 Mercury	mg/L	0.001	<MDL	0.001
16 Nitrate	mg/L	50	0	0.001	41 Aldrin & Dieldrin	µg/L	0.03	<MDL	0.02
17 Ammonia-Nitrogen	mg/L		<MDL	0.20	42 Chlordane	µg/L	0.2	<MDL	0.02
18 Fluoride	mg/L	1	0.28		43 DDT	µg/L	2	<MDL	0.01
19 Cyanide	mg/L	0.07	<MDL	0.002	44 Endrin	µg/L	0.2	<MDL	0.02
20 Hydrogen Sulfide	mg/L	0.05	0.05	0.01	45 Heptachlor/Heptachlor Epoxide	µg/L	0.03	<MDL	0.01
21 DO (DO%)	mg/L		4.0		46 Lindane	µg/L	2	<MDL	0.01
22 COD	mg/L		<5		47 Methoxychlor	µg/L	20	<MDL	0.02
23 BOD	mg/L		2.0		48 Toxaphene	µg/L		<MDL	0.02
24 Surfactant	mg/L		0.06	0.05	49 Endosulfan I	µg/L		<MDL	0.01
25 Sodium	mg/L	200 [®]	11.5		II			<MDL	0.02

Note: [®] Secondary Standard; compliance with the standard and analysis are not obligatory

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† Re-examination result dated October 2003 (Intertek Laboratory)

MDL Method Detection Limit

As computed by Local Water Utilities Administration (LWUA).

¹ Estimation derived from gravimetric factor

² Estimation derived from major Cationic and Anionic constituents

³ Acidity value qualified

- No basis for determination

RESULT OF ANALYSIS

1	Name of WD	Norzagaray
2	Date of Analysis	July 2003
3	Area number	2 - Region 3
4	Province	Bulacan

1	Name of source	Matictic Pumping Station
2	Location	14° 54.619'
		121° 3.179'
3	Depth Borehole; meter	No Data
4	Discharge Flowrate; liters/sec	No Data
5	Date of Well Operation	No data
6	Disinfection Unit	Gas Chlorinator
		Hypochlorinator
		No data

	PARAMETERS	UNIT	PNSDW Limit	CONCENTRATION	MDL		PARAMETERS	UNIT	PNSDW Limit	CONCENTRATION	MDL
1	Odor		U	U*		26	Potassium	mg/L		1.08	
2	Temperature	°C		28.7*		27	Calcium	mg/L		64	
3	pH		6.5-8.5	6.9*		28	Magnesium	mg/L		9.26	
4	Color	Units	5	<5		29	Silica	mg/L		41	
5	Turbidity	NTU	5	<5		30	Total Iron	mg/L	1	<MDL	0.001
6	Conductivity	µS/cm		429		31	Total Manganese	mg/L	0.5	<MDL	0.006
7	Total Dissolved Solids	mg/L	500	305		32	Aluminum	mg/L	0.2	<MDL	0.01
8	Total Solids	mg/L		390		33	Zinc	mg/L	5 [@]	0.04	0.002
9	Chloride	mg/L	250	27		34	Copper	mg/L	1	<MDL	0.001
10	Total Alkalinity	mg/L		89		35	Arsenic	mg/L	0.01	<MDL	0.01
11	Acidity	mg/L		31		36	Chromium	mg/L	0.05	0.03	0.003
12	Hardness (as CaCO ₃)	mg/L	300 [@]	198		37	Cadmium	mg/L	0.003	<MDL	0.003
13	Sulfate	mg/L	250	17		38	Selenium	mg/L	0.01	<MDL	0.001
14	Phosphate	mg/L		<MDL	0.1	39	Lead	mg/L	0.01	<MDL	0.005
15	Nitrite	mg/L	3	0	0.001	40	Mercury	mg/L	0.001	<MDL	0.001
16	Nitrate	mg/L	50	17.39 ¹	0.001	41	Aldrin & Dieldrin	µg/L	0.03	<MDL	0.02
17	Ammonia-Nitrogen	mg/L		<MDL	0.20	42	Chlordane	µg/L	0.2	<MDL	0.02
18	Fluoride	mg/L	1	0.12		43	DDT	µg/L	2	<MDL	0.01
19	Cyanide	mg/L	0.07	<MDL	0.002	44	Endrin	µg/L	0.2	<MDL	0.02
20	Hydrogen Sulfide	mg/L	0.05	-	0.01	45	Heptachlor/Heptachlor Epoxide	µg/L	0.03	<MDL	0.01
21	DO (DO%)	mg/L		3.0		46	Lindane	µg/L	2	<MDL	0.01
22	COD	mg/L		16.0		47	Methoxychlor	µg/L	20	<MDL	0.02
23	BOD	mg/L		<1		48	Toxaphene	µg/L		<MDL	0.02
24	Surfactant	mg/L		0.08	0.05	49	Endosulfan I	µg/L		<MDL	0.01
25	Sodium	mg/L	200 [@]	5.05			II			<MDL	0.02

Note: [@] Secondary Standard; compliance with the standard and analysis are not obligatory

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+ Re-examination result dated October 2003 (Intertek Laboratory)

MDL Method Detection Limit

As computed by Local Water Utilities Administration (LWUA).

¹ Estimation derived from gravimetric factor

² Estimation derived from major Cationic and Anionic constituents

³ Acidity value qualified

- No basis for determination

RESULT OF ANALYSIS

1	Name of WD	Obando
2	Date of Analysis	July 2003
3	Area number	2 - Region 3
4	Province	Bulacan

1	Name of source	Paco 1 Pumping Station	
2	Location	14° 44.302'	Paco, Obando, Bulacan
		120° 57.976'	
3	Depth Borehole; meter	100	
4	Discharge Flowrate; liters/sec	6	
5	Date of Well Operation	No data	
6	Disinfection Unit	Gas Chlorinator	No data
		Hypochlorinator	

	PARAMETERS	UNIT	PNSDW Limit	CONCENTRATION	MDL		PARAMETERS	UNIT	PNSDW Limit	CONCENTRATION	MDL
1	Odor		U	U*		26	Potassium	mg/L		2.22	
2	Temperature	°C		32.6*		27	Calcium	mg/L		2.13	
3	pH		6.5-8.5	8.7*		28	Magnesium	mg/L		0.18	
4	Color	Units	5	5		29	Silica	mg/L		19	
5	Turbidity	NTU	5	<5		30	Total Iron	mg/L	1	<MDL	0.001
6	Conductivity	µS/cm		506		31	Total Manganese	mg/L	0.5	0.02	0.006
7	Total Dissolved Solids	mg/L	500	190 ⁺		32	Aluminum	mg/L	0.2	<MDL	0.01
8	Total Solids	mg/L		231		33	Zinc	mg/L	5 [@]	<MDL	0.002
9	Chloride	mg/L	250	58		34	Copper	mg/L	1	<MDL	0.001
10	Total Alkalinity	mg/L		92		35	Arsenic	mg/L	0.01	<MDL	0.01
11	Acidity	mg/L		0 ³		36	Chromium	mg/L	0.05	<MDL	0.003
12	Hardness (as CaCO ₃)	mg/L	300 [@]	6		37	Cadmium	mg/L	0.003	<MDL	0.003
13	Sulfate	mg/L	250	0		38	Selenium	mg/L	0.01	<MDL	0.001
14	Phosphate	mg/L		4	0.1	39	Lead	mg/L	0.01	<MDL	0.005
15	Nitrite	mg/L	3	0.03 ¹	0.001	40	Mercury	mg/L	0.001	<MDL	0.001
16	Nitrate	mg/L	50	0	0.001	41	Aldrin & Dieldrin	µg/L	0.03	<MDL	0.02
17	Ammonia-Nitrogen	mg/L		<MDL	0.20	42	Chlordane	µg/L	0.2	<MDL	0.02
18	Fluoride	mg/L	1	0.78		43	DDT	µg/L	2	<MDL	0.01
19	Cyanide	mg/L	0.07	<MDL	0.002	44	Endrin	µg/L	0.2	<MDL	0.02
20	Hydrogen Sulfide	mg/L	0.05	0.04	0.01	45	Heptachlor/Heptachlor Epoxide	µg/L	0.03	<MDL	0.01
21	DO (DO%)	mg/L		3.0		46	Lindane	µg/L	2	<MDL	0.01
22	COD	mg/L		<5		47	Methoxychlor	µg/L	20	<MDL	0.02
23	BOD	mg/L		<1		48	Toxaphene	µg/L		<MDL	0.02
24	Surfactant	mg/L		0.07	0.05	49	Endosulfan I	µg/L		<MDL	0.01
25	Sodium	mg/L	200 [@]	52.31			II			<MDL	0.02

Note: [@] Secondary Standard; compliance with the standard and analysis are not obligatory

* On Site Analysis (CEST Inc.)

U Unobjectionable Odor. O = Objectionable Odor

+ Re-examination result dated October 2003 (Intertek Laboratory)

MDL Method Detection Limit

As computed by Local Water Utilities Administration (LWUA).

¹ Estimation derived from gravimetric factor

² Estimation derived from major Cationic and Anionic constituents

³ Acidity value qualified

- No basis for determination

RESULT OF ANALYSIS

1	Name of WD	Norzagaray
2	Date of Analysis	July 2003
3	Area number	2 - Region 3
4	Province	Bulacan

1	Name of source	Poblacion Pumping Station	
2	Location	14° 54.257'	Poblacion, Norzagaray, Bulacan
		121° 2.583'	
3	Depth Borehole; meter	63	
4	Discharge Flowrate; liters/sec	9	
5	Date of Well Operation	No data	
6	Disinfection Unit	Gas Chlorinator	No data
		Hypochlorinator	

	PARAMETERS	UNIT	PNSDW Limit	CONCENTRATION	MDL		PARAMETERS	UNIT	PNSDW Limit	CONCENTRATION	MDL
1	Odor		U	U*		26	Potassium	mg/L		1.8	
2	Temperature	°C		30.6*		27	Calcium	mg/L		23.99	
3	pH		6.5-8.5	8.8*		28	Magnesium	mg/L		2.84	
4	Color	Units	5	<5		29	Silica	mg/L		32	
5	Turbidity	NTU	5	<5		30	Total Iron	mg/L	1	<MDL	0.001
6	Conductivity	µS/cm		564		31	Total Manganese	mg/L	0.5	<MDL	0.006
7	Total Dissolved Solids	mg/L	500	286		32	Aluminum	mg/L	0.2	<MDL	0.01
8	Total Solids	mg/L		379		33	Zinc	mg/L	5 [®]	0.04	0.002
9	Chloride	mg/L	250	89		34	Copper	mg/L	1	<MDL	0.001
10	Total Alkalinity	mg/L		108		35	Arsenic	mg/L	0.01	<MDL	0.01
11	Acidity	mg/L		0 ³		36	Chromium	mg/L	0.05	0.02	0.003
12	Hardness (as CaCO ₃)	mg/L	300 [®]	72		37	Cadmium	mg/L	0.003	<MDL	0.003
13	Sulfate	mg/L	250	10		38	Selenium	mg/L	0.01	<MDL	0.001
14	Phosphate	mg/L		<MDL	0.1	39	Lead	mg/L	0.01	<MDL	0.005
15	Nitrite	mg/L	3	0	0.001	40	Mercury	mg/L	0.001	<MDL	0.001
16	Nitrate	mg/L	50	0	0.001	41	Aldrin & Dieldrin	µg/L	0.03	<MDL	0.02
17	Ammonia-Nitrogen	mg/L		<MDL	0.20	42	Chlordane	µg/L	0.2	<MDL	0.02
18	Fluoride	mg/L	1	0.39		43	DDT	µg/L	2	<MDL	0.01
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21	DO (DO%)	mg/L		7.0		46	Lindane	µg/L	2	<MDL	0.01
22	COD	mg/L		24.0		47	Methoxychlor	µg/L	20	<MDL	0.02
23	BOD	mg/L		2.0		48	Toxaphene	µg/L		<MDL	0.02
24	Surfactant	mg/L		<MDL	0.05	49	Endosulfan I	µg/L		<MDL	0.01
25	Sodium	mg/L	200 [®]	25.89			II			<MDL	0.02

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