

SJPNL
WATER TESTING LABORATORY
BULK WATER SUPPLY GUMMA, SHIMLA 171018
Based upon CPHEEO MANUAL

Sample [GUMMA]

[Division.....WSD SHIMLA]

Date: -04-07-2021

TIME OF SAMPLING:-10:20 AM

[Sub Division ...WSSD GUMMA]

TIME OF COMENCING TEST:-10:45 AM

WATER SAMPLE

1. Raw Water
- >> 2. **Filtered Water**
3. Chlorinated Water
4. Distributed System

A. PHYSICAL TESTS

| Tests | 1 Acceptable | 2 Cause of Rejection | 3 Result of Sample |
|---------------------------|-----------------|-------------------------|-----------------------|
| 1. Temp | | | 16°C |
| 2. Turbidity [NTU] | 2.5 | 10 | 1 NTU |
| 3. Conductivity | | | 388 µS/cm |
| 4. Total Dissolved solids | 500 | 1500 | 194 mg/l |

B. CHEMICAL TESTS

| | | | |
|----------------------|------------------------|-----------------------------|-----------------|
| 5. PH | 7 to 8.5 | Less than 6.2 more than 9.2 | 8.25 |
| 6. Total hardness | 200 | 600 | 174 mg/l |
| 7. Chlorides | 200 | 1000 | 20.993 mg/l |
| 8. Total Alkalinity | 200 | 400 | 166 mg/l |
| 9. Residual Chlorine | 02-0.5[mg/l desirable] | | 2.0 mg/l |

C. BACTERIOLOGICAL TESTS

No of coli form Organisms

After 48 hours MPN in

100 ml water sample

NIL

NIL

.....MPN

Coli form count should be zero in any sample of 100 ml from water entering the distributed system

Remarks.....

Assist. Chemist
 Water test Lab.
 Gumma

Manager-2
 Bulk Water Supply SJPNL,
 Gumma, Shimla.

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WATER SAMPLE

- >> 1. Raw Water
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D. PHYSICAL TESTS

| Tests | 1 Acceptable | 2 Cause of Rejection | 3 Result of Sample |
|---------------------------|-----------------|-------------------------|-----------------------|
| 1. Temp | | | 16°C |
| 2. Turbidity [NTU] | 2.5 | 10 | 5 NTU |
| 3. Conductivity | | | 354 µS/cm |
| 4. Total Dissolved solids | 500 | 1500 | 177 mg/l |

E. CHEMICAL TESTS

| | | | |
|----------------------|------------------------|-----------------------------|-----------------|
| 5. PH | 7 to 8.5 | Less than 6.2 more than 9.2 | 8.29 |
| 6. Total hardness | 200 | 600 | 176 mg/l |
| 7. Chlorides | 200 | 1000 | 18.994 mg/l |
| 8. Total Alkalinity | 200 | 400 | 168 mg/l |
| 9. Residual Chlorine | 02-0.5[mg/l desirable] | | NIL mg/l |

F. BACTERIOLOGICAL TESTS

No of coli form Organisms

After 48 hours MPN in

100 ml water sample *NIL* *NIL* *.....MPN*

Coli form count should be zero in any sample of 100 ml from water entering the distributed system

Remarks.....

Asst. Chemist
 Water Test Lab.
 Gumma

Manager -2
 Bulk Water Supply SJPNL,
 Gumma, Shimla.