```
CREATE DATABASE IF NOT EXISTS `water quality` /*!40100 DEFAULT CHARACTER
SET utf8mb4 COLLATE utf8mb4 0900 ai ci */ /*!80016 DEFAULT ENCRYPTION='N'
USE `water quality`;
-- MySQL dump 10.13 Distrib 8.0.36, for Win64 (x86 64)
-- Host: localhost Database: water quality
-- Server version 8.3.0
/*!40101 SET @OLD CHARACTER SET CLIENT=@@CHARACTER SET CLIENT */;
/*!40101 SET @OLD CHARACTER SET RESULTS=@@CHARACTER SET RESULTS */;
/*!40101 SET @OLD COLLATION CONNECTION=@@COLLATION CONNECTION */;
/*!50503 SET NAMES utf8 */;
/*!40103 SET @OLD TIME ZONE=@@TIME ZONE */;
/*!40103 SET TIME ZONE='+00:00' */;
/*!40014 SET @OLD UNIQUE CHECKS=@@UNIQUE CHECKS, UNIQUE CHECKS=0 */;
/*!40014 SET @OLD FOREIGN KEY CHECKS=@@FOREIGN KEY CHECKS,
FOREIGN KEY CHECKS=0 */;
/*!40101 SET @OLD SQL MODE=@@SQL MODE, SQL MODE='NO AUTO VALUE ON ZERO'
/*!40111 SET @OLD SQL NOTES=@@SQL NOTES, SQL NOTES=0 */;
-- Table structure for table `event`
DROP TABLE IF EXISTS `event`;
/*!40101 SET @saved cs client = @@character set client */;
/*!50503 SET character set client = utf8mb4 */;
CREATE TABLE `event` (
  `EventId` int NOT NULL AUTO INCREMENT,
  `StationId` int DEFAULT NULL,
  `Cruise` varchar(255) DEFAULT NULL,
  `Program` varchar(255) DEFAULT NULL,
  `Project` varchar(255) DEFAULT NULL,
  `Agency` varchar(255) DEFAULT NULL, `Source` varchar(255) DEFAULT NULL,
  `TierLevel` varchar(255) DEFAULT NULL,
 PRIMARY KEY (`EventId`),
 KEY `StationId` (`StationId`),
  CONSTRAINT `event ibfk 1` FOREIGN KEY (`StationId`) REFERENCES `station`
(`StationId`)
) ENGINE=InnoDB AUTO INCREMENT=9 DEFAULT CHARSET=utf8mb4
COLLATE=utf8mb4 0900 ai ci;
/*!40101 SET character set client = @saved cs client */;
-- Dumping data for table `event`
LOCK TABLES `event` WRITE;
/*!40000 ALTER TABLE `event` DISABLE KEYS */;
```

```
INSERT INTO `event` VALUES (2,302031,'NTN021','NTWQM','NTN','DEDNREC
','DEDNREC','T3'),(3,302031,'NTN022','NTWQM','NTN','DEDNREC
','DEDNREC','T3'),(4,304191,'NTN021','NTWQM','NTN','DEDNREC
','DEDNREC','T3'),(5,304191,'NTN022','NTWQM','NTN','DEDNREC
','DEDNREC','T3');
/*!40000 ALTER TABLE `event` ENABLE KEYS */;
UNLOCK TABLES;
-- Table structure for table `lab`
DROP TABLE IF EXISTS `lab`;
/*!40101 SET @saved cs client = @@character set client */;
/*!50503 SET character set client = utf8mb4 */;
CREATE TABLE `lab` (
  `LabId` int NOT NULL AUTO INCREMENT,
  `Lab` varchar(255) DEFAULT NULL,
 PRIMARY KEY (`LabId`)
) ENGINE=InnoDB AUTO INCREMENT=7 DEFAULT CHARSET=utf8mb4
COLLATE=utf8mb4 0900 ai ci;
/*!40101 SET character set client = @saved cs client */;
-- Dumping data for table `lab`
LOCK TABLES `lab` WRITE;
/*!40000 ALTER TABLE `lab` DISABLE KEYS */;
INSERT INTO `lab` VALUES (1, 'DEDNREC'), (2, ''), (3, 'USGS-
KDSL'), (4, 'DEDNREC'), (5, ''), (6, 'USGS-KDSL');
/*!40000 ALTER TABLE `lab` ENABLE KEYS */;
UNLOCK TABLES;
-- Table structure for table `measure`
DROP TABLE IF EXISTS `measure`;
/*!40101 SET @saved cs client = @@character set client */;
/*!50503 SET character set client = utf8mb4 */;
CREATE TABLE `measure` (
  `MeasureId` int NOT NULL AUTO INCREMENT,
  `SampleId` int DEFAULT NULL,
  `ParameterId` int DEFAULT NULL,
  `MethodId` int DEFAULT NULL,
  `LabId` int DEFAULT NULL,
  `Qualifier` varchar(255) DEFAULT NULL,
  `MeasureValue` decimal(10,4) DEFAULT NULL,
  `Unit` varchar(255) DEFAULT NULL,
  `Problem` varchar(255) DEFAULT NULL,
  `PrecisionPC` decimal(5,2) DEFAULT NULL,
  `BiasPC` decimal(5,2) DEFAULT NULL,
  `Details` varchar(255) DEFAULT NULL,
```

```
PRIMARY KEY (`MeasureId`),
 KEY `SampleId` (`SampleId`),
 KEY `ParameterId` (`ParameterId`),
 KEY `MethodId` (`MethodId`),
 KEY `LabId` (`LabId`),
 CONSTRAINT `measure ibfk 1` FOREIGN KEY (`SampleId`) REFERENCES `sample`
(`SampleId`),
 CONSTRAINT `measure ibfk 2` FOREIGN KEY (`ParameterId`) REFERENCES
`parameter` (`ParameterId`),
 CONSTRAINT `measure ibfk 3` FOREIGN KEY (`MethodId`) REFERENCES `method`
(`MethodId`),
 CONSTRAINT `measure ibfk 4` FOREIGN KEY (`LabId`) REFERENCES `lab`
(`LabId`)
) ENGINE=InnoDB AUTO INCREMENT=16384 DEFAULT CHARSET=utf8mb4
COLLATE=utf8mb4 0900 ai ci;
/*!40101 SET character set client = @saved cs client */;
-- Dumping data for table `measure`
LOCK TABLES `measure` WRITE;
/*!40000 ALTER TABLE `measure` DISABLE KEYS */;
INSERT INTO `measure` VALUES
(1,36,1,1,4,'',8.2509,'UG/L','',NULL,NULL,'nan'),(2,36,1,1,1,'',8.2509,'UG
/L','',NULL,NULL,'nan'),(3,35,1,1,4,'',1.9688,'UG/L','',NULL,NULL,'nan'),(
4,35,1,1,1,'',1.9688,'UG/L','',NULL,NULL,'nan'),(5,34,1,1,4,'',17.6588,'UG
/L','',NULL,NULL,'nan'),(6,34,1,1,1,'',17.6588,'UG/L','',NULL,NULL,'nan'),
(7,33,1,1,4,'',12.3134,'UG/L','',NULL,NULL,'nan'),(8,33,1,1,1,'',12.3134,'
UG/L','',NULL,NULL,'nan'),(9,32,1,1,4,'',1.5218,'UG/L','',NULL,NULL,'nan')
,(10,32,1,1,1,'',1.5218,'UG/L','',NULL,NULL,'nan'),(11,31,1,1,4,'',1.7169,
'UG/L','', NULL, NULL, 'nan'), (12,31,1,1,1,'',1.7169,'UG/L','',NULL, NULL, 'nan
'), (13,30,1,1,4,'',0.9905,'UG/L','',NULL,NULL,'nan'), (14,30,1,1,1,'',0.990
5, 'UG/L','', NULL, NULL, 'nan'), (15,29,1,1,4,'',1.9710,'UG/L','', NULL, NULL, 'n
an'),(16,29,1,1,1,'',1.9710,'UG/L','',NULL,NULL,'nan'),(17,28,1,1,4,'',3.7
036, 'UG/L','', NULL, NULL, 'nan'), (18,28,1,1,1,'',3.7036, 'UG/L','',NULL, NULL,
'nan'),(19,27,1,1,4,'',2.0336,'UG/L','',NULL,NULL,'nan'),(20,27,1,1,1,'',2
.0336, 'UG/L','', NULL, NULL, 'nan'), (21, 26, 1, 1, 4, '', 2.4251, 'UG/L', '', NULL, NUL
L, 'nan'), (22,26,1,1,1,'',2.4251,'UG/L','', NULL, NULL, 'nan'), (23,25,1,1,4,''
,5.5650, 'UG/L','', NULL, NULL, 'nan'), (24,25,1,1,1,'',5.5650, 'UG/L','', NULL, N
ULL, 'nan'), (25,24,1,1,4,'',1.8727,'UG/L','',NULL,NULL, 'nan'), (26,24,1,1,1,1,
'',1.8727,'UG/L','',NULL,NULL,'nan'),(27,23,1,1,4,'',5.6378,'UG/L','',NULL
NULL, 'nan'), (28,23,1,1,1,'',5.6378,'UG/L','',NULL,NULL,'nan'), (29,22,1,1,
4,'',1.5320,'UG/L','',NULL,NULL,'nan'),(30,22,1,1,1,'',1.5320,'UG/L','',NU
LL, NULL, 'nan'), (31,21,1,1,4,'',2.4521,'UG/L','',NULL,NULL,'nan'), (32,21,1,
1,1,'',2.4521,'UG/L','',NULL,NULL,'nan'),(33,20,1,1,4,'',4.6451,'UG/L','',
NULL, NULL, 'nan'), (34,20,1,1,1,'',4.6451,'UG/L','',NULL,NULL,'nan'), (35,19,
1,1,4,'',2.0075,'UG/L','',NULL,NULL,'nan'),(36,19,1,1,1,'',2.0075,'UG/L','
', NULL, NULL, 'nan'), (37,19,1,1,4,'',2.3209,'UG/L','', NULL, NULL, 'nan'), (38,1
9,1,1,1,'',2.3209,'UG/L','',NULL,NULL,'nan'),(39,18,1,1,4,'',2.0075,'UG/L'
,'',NULL,NULL,'nan'),(40,18,1,1,1,'',2.0075,'UG/L','',NULL,NULL,'nan'),(41
,18,1,1,4,'',2.3209,'UG/L','',NULL,NULL,'nan'),(42,18,1,1,1,'',2.3209,'UG/
L','',NULL,NULL,'nan'),(43,17,1,1,4,'',14.1708,'UG/L','',NULL,NULL,'nan'),
(44,17,1,1,'',14.1708,'UG/L','',NULL,NULL,'nan'),(45,16,1,1,4,'',1.5729,
```

'UG/L','',NULL,NULL,'nan'),(46,16,1,1,1,'',1.5729,'UG/L','',NULL,NULL,'nan '), (47,15,1,1,4,'',2.6090,'UG/L','',NULL,NULL,'nan'), (48,15,1,1,1,'',2.609 0,'UG/L','',NULL,NULL,'nan'),(49,14,1,1,4,'',0.7233,'UG/L','',NULL,NULL,'n an'),(50,14,1,1,1,'',0.7233,'UG/L','',NULL,NULL,'nan'),(51,13,1,1,4,'',4.2 731, 'UG/L', '', NULL, NULL, 'nan'), (52, 13, 1, 1, 1, 1, '', 4.2731, 'UG/L', '', NULL, NULL, 'nan'), (53,12,1,1,4,'',1.5396,'UG/L','',NULL,NULL,'nan'), (54,12,1,1,1,'',1 .5396, 'UG/L','', NULL, NULL, 'nan'), (55,12,1,1,4,'',6.4483,'UG/L','', NULL, NUL L, 'nan'), (56,12,1,1,1,'',6.4483,'UG/L','',NULL,NULL,'nan'), (57,11,1,1,4,'' ,1.5396, 'UG/L','', NULL, NULL, 'nan'), (58,11,1,1,1,'',1.5396, 'UG/L','', NULL, N ULL, 'nan'), (59,11,1,1,4,'',6.4483,'UG/L','',NULL,NULL,'nan'), (60,11,1,1,1,1, '',6.4483,'UG/L','',NULL,NULL,'nan'),(61,10,1,1,4,'',8.2509,'UG/L','',NULL NULL, 'nan'), (62,10,1,1,1,'',8.2509,'UG/L','',NULL,NULL,'nan'), (63,9,1,1,4 '',1.9688,'UG/L','',NULL,NULL,'nan'),(64,9,1,1,1,'',1.9688,'UG/L','',NULL NULL, 'nan'), (65,8,1,1,4,'',17.6588,'UG/L','',NULL,NULL, 'nan'), (66,8,1,1,1 ,'',17.6588,'UG/L','',NULL,NULL,'nan'),(67,7,1,1,4,'',1.7169,'UG/L','',NUL L, NULL, 'nan'), (68,7,1,1,1,'',1.7169, 'UG/L','', NULL, NULL, 'nan'), (69,6,1,1,4 ,'',1.5218,'UG/L','',NULL,NULL,'nan'),(70,6,1,1,1,'',1.5218,'UG/L','',NULL , NULL, 'nan'), (71,5,1,1,4,'',12.3134,'UG/L','',NULL,NULL,'nan'), (72,5,1,1,1 ,'',12.3134,'UG/L','',NULL,NULL,'nan'),(73,4,1,1,4,'',0.9905,'UG/L','',NUL L, NULL, 'nan'), (74,4,1,1,1,'',0.9905,'UG/L','',NULL,NULL,'nan'), (75,3,1,1,4 '',1.9710,'UG/L','',NULL,NULL,'nan'),(76,3,1,1,1,'',1.9710,'UG/L','',NULL NULL, 'nan'), (77,2,1,1,4,'',3.7036,'UG/L','',NULL,NULL,'nan'), (78,2,1,1,1, '',3.7036,'UG/L','',NULL,NULL,'nan'),(79,1,1,1,4,'',2.0336,'UG/L','',NULL, NULL, 'nan'), (80,1,1,1,1,'',2.0336,'UG/L','',NULL,NULL,'nan'), (81,36,2,2,4, '',5.7540,'MG/L','',NULL,NULL,'nan'),(82,36,2,2,1,'',5.7540,'MG/L','',NULL NULL, 'nan'), (83,35,2,2,4,'',10.8100,'MG/L','',NULL,NULL,'nan'), (84,35,2,2 ,1,'',10.8100,'MG/L','',NULL,NULL,'nan'),(85,34,2,2,4,'',24.4140,'MG/L','' NULL, NULL, 'nan'), (86,34,2,2,1,'',24.4140,'MG/L','',NULL,NULL,'nan'), (87,3 3,2,2,4,'',13.6730,'MG/L','',NULL,NULL,'nan'),(88,33,2,2,1,'',13.6730,'MG/ L','',NULL,NULL,'nan'),(89,32,2,2,4,'',14.2540,'MG/L','',NULL,NULL,'nan'), (90,32,2,2,1,'',14.2540,'MG/L','',NULL,NULL,'nan'),(91,31,2,2,4,'',14.7390 'MG/L','', NULL, NULL, 'nan'), (92,31,2,2,1,'',14.7390,'MG/L','', NULL, NULL, 'n an'), (93,30,2,2,4,'',13.6970,'MG/L','',NULL,NULL,'nan'), (94,30,2,2,1,'',13 .6970, 'MG/L', '', NULL, NULL, 'nan'), (95, 29, 2, 2, 4, '', 9.4610, 'MG/L', '', NULL, NUL L, 'nan'), (96,29,2,2,1,'',9.4610,'MG/L','',NULL,NULL,'nan'), (97,28,2,2,4,'' ,16.7530,'MG/L','',NULL,NULL,'nan'),(98,28,2,2,1,'',16.7530,'MG/L','',NULL NULL, 'nan'), (99,27,2,2,4,'',14.7050,'MG/L','',NULL,NULL,'nan'), (100,27,2, 2,1,'',14.7050,'MG/L','',NULL,NULL,'nan'),(101,26,2,2,4,'',16.0950,'MG/L', '', NULL, NULL, 'nan'), (102,26,2,2,1,'',16.0950,'MG/L','', NULL, NULL, 'nan'), (1 03,25,2,2,4,'',15.2950,'MG/L','',NULL,NULL,'nan'),(104,25,2,2,1,'',15.2950 'MG/L','', NULL, NULL, 'nan'), (105,24,2,2,4,'',14.6320,'MG/L','',NULL, NULL,' nan'),(106,24,2,2,1,'',14.6320,'MG/L','',NULL,NULL,'nan'),(107,23,2,2,4,'' ,8.5330, 'MG/L','', NULL, NULL, 'nan'), (108,23,2,2,1,'',8.5330, 'MG/L','', NULL, NULL, 'nan'), (109,22,2,2,4,'',14.4420,'MG/L','',NULL,NULL, 'nan'), (110,22,2, 2,1,'',14.4420,'MG/L','',NULL,NULL,'nan'),(111,21,2,2,4,'',13.7810,'MG/L', '', NULL, NULL, 'nan'), (112,21,2,2,1,'',13.7810,'MG/L','',NULL, NULL, 'nan'), (1 13,20,2,2,4,'',10.8440,'MG/L','',NULL,NULL,'nan'),(114,20,2,2,1,'',10.8440 ,'MG/L','',NULL,NULL,'nan'),(115,19,2,2,4,'',14.2540,'MG/L','',NULL,NULL,' nan'), (116,19,2,2,1,'',14.2540,'MG/L','',NULL,NULL,'nan'), (117,19,2,2,4,'' ,14.3060, 'MG/L','', NULL, NULL, 'nan'), (118,19,2,2,1,'',14.3060, 'MG/L','', NUL L, NULL, 'nan'), (119,18,2,2,4,'',14.2540, 'MG/L','', NULL, NULL, 'nan'), (120,18, 2,2,1,'',14.2540,'MG/L','',NULL,NULL,'nan'),(121,18,2,2,4,'',14.3060,'MG/L ','',NULL,NULL,'nan'),(122,18,2,2,1,'',14.3060,'MG/L','',NULL,NULL,'nan'), (123,17,2,2,4,'',15.3700,'MG/L','',NULL,NULL,'nan'),(124,17,2,2,1,'',15.37

00, 'MG/L', '', NULL, NULL, 'nan'), (125,16,2,2,4,'',14.2450, 'MG/L','', NULL, NULL 'nan'), (126,16,2,2,1,'',14.2450,'MG/L','',NULL,NULL,'nan'), (127,15,2,2,4, '',11.4690,'MG/L','',NULL,NULL,'nan'),(128,15,2,2,1,'',11.4690,'MG/L','',N ULL, NULL, 'nan'), (129,14,2,2,4,'',15.8580,'MG/L','',NULL,NULL, 'nan'), (130,1 4,2,2,1,'',15.8580,'MG/L','',NULL,NULL,'nan'),(131,13,2,2,4,'',16.0540,'MG /L','',NULL,NULL,'nan'),(132,13,2,2,1,'',16.0540,'MG/L','',NULL,NULL,'nan'),(133,12,2,2,4,'',14.1170,'MG/L','',NULL,NULL,'nan'),(134,12,2,2,1,'',14. 1170, 'MG/L', '', NULL, NULL, 'nan'), (135, 12, 2, 2, 4, '', 13.9540, 'MG/L', '', NULL, NU LL, 'nan'), (136,12,2,2,1,'',13.9540,'MG/L','',NULL,NULL,'nan'), (137,11,2,2, 4,'',14.1170,'MG/L','',NULL,NULL,'nan'),(138,11,2,2,1,'',14.1170,'MG/L','' NULL, NULL, 'nan'), (139,11,2,2,4,'',13.9540,'MG/L','',NULL,NULL,'nan'), (140 ,11,2,2,1,'',13.9540,'MG/L','',NULL,NULL,'nan'),(141,10,2,2,4,'',5.7540,'M G/L','', NULL, NULL, 'nan'), (142,10,2,2,1,'',5.7540,'MG/L','',NULL,NULL,'nan'),(143,9,2,2,4,'',10.8100,'MG/L','',NULL,NULL,'nan'),(144,9,2,2,1,'',10.81 00, 'MG/L', '', NULL, NULL, 'nan'), (145,8,2,2,4,'',24.4140,'MG/L','', NULL, NULL, 'nan'),(146,8,2,2,1,'',24.4140,'MG/L','',NULL,NULL,'nan'),(147,7,2,2,4,'', 14.7390, 'MG/L','', NULL, NULL, 'nan'), (148,7,2,2,1,'',14.7390, 'MG/L','', NULL, NULL, 'nan'), (149, 6, 2, 2, 4, '', 14.2540, 'MG/L', '', NULL, NULL, 'nan'), (150, 6, 2, 2, 1,'',14.2540,'MG/L','',NULL,NULL,'nan'),(151,5,2,2,4,'',13.6730,'MG/L','', NULL, NULL, 'nan'), (152,5,2,2,1,'',13.6730,'MG/L','',NULL,NULL,'nan'), (153,4 ,2,2,4,'',13.6970,'MG/L','',NULL,NULL,'nan'),(154,4,2,2,1,'',13.6970,'MG/L ','',NULL,NULL,'nan'),(155,3,2,2,4,'',9.4610,'MG/L','',NULL,NULL,'nan'),(1 56,3,2,2,1,'',9.4610,'MG/L','',NULL,NULL,'nan'),(157,2,2,2,4,'',16.7530,'M G/L','',NULL,NULL,'nan'),(158,2,2,2,1,'',16.7530,'MG/L','',NULL,NULL,'nan'), (159,1,2,2,4,'',14.7050,'MG/L','',NULL,NULL,'nan'), (160,1,2,2,1,'',14.70 50, 'MG/L', '', NULL, NULL, 'nan'), (161, 36, 3, 3, 5, '', 5.4900, 'MG/L', '', NULL, NULL, 'nan'), (162,36,3,3,2,'',5.4900,'MG/L','',NULL,NULL,'nan'), (163,35,3,3,5,'' ,7.5100, 'MG/L','',NULL,NULL, 'nan'),(164,35,3,3,2,'',7.5100,'MG/L','',NULL, NULL, 'nan'), (165,34,3,3,5,'',8.2000,'MG/L','',NULL,NULL,'nan'), (166,34,3,3 ,2,'',8.2000,'MG/L','',NULL,NULL,'nan'),(167,33,3,3,5,'',10.3900,'MG/L','' , NULL, NULL, 'nan'), (168, 33, 3, 3, 2, '', 10.3900, 'MG/L', '', NULL, NULL, 'nan'), (169 ,32,3,3,5,'',7.7000,'MG/L','',NULL,NULL,'nan'),(170,32,3,3,2,'',7.7000,'MG /L','',NULL,NULL,'nan'),(171,31,3,3,5,'',8.5500,'MG/L','',NULL,NULL,'nan') ,(172,31,3,3,2,'',8.5500,'MG/L','',NULL,NULL,'nan'),(173,30,3,3,5,'',10.48 00, 'MG/L', '', NULL, NULL, 'nan'), (174,30,3,3,2,'',10.4800, 'MG/L','', NULL, NULL ,'nan'),(175,29,3,3,5,'',10.9700,'MG/L','',NULL,NULL,'nan'),(176,29,3,3,2, '',10.9700,'MG/L','',NULL,NULL,'nan'),(177,28,3,3,5,'',11.2700,'MG/L','',N ULL, NULL, 'nan'), (178,28,3,3,2,'',11.2700,'MG/L','',NULL,NULL,'nan'), (179,2 7,3,3,5,'',11.8000,'MG/L','',NULL,NULL,'nan'),(180,27,3,3,2,'',11.8000,'MG /L','',NULL,NULL,'nan'),(181,26,3,3,5,'',8.9500,'MG/L','',NULL,NULL,'nan') ,(182,26,3,3,2,'',8.9500,'MG/L','',NULL,NULL,'nan'),(183,25,3,3,5,'',6.860 0, 'MG/L', '', NULL, NULL, 'nan'), (184, 25, 3, 3, 2, '', 6.8600, 'MG/L', '', NULL, NULL, ' nan'),(185,24,3,3,5,'',9.3700,'MG/L','',NULL,NULL,'nan'),(186,24,3,3,2,'', 9.3700, 'MG/L','', NULL, NULL, 'nan'), (187,23,3,3,5,'',7.1700,'MG/L','',NULL,N ULL, 'nan'), (188,23,3,3,2,'',7.1700,'MG/L','',NULL,NULL,'nan'), (189,22,3,3, 5,'',8.9100,'MG/L','',NULL,NULL,'nan'),(190,22,3,3,2,'',8.9100,'MG/L','',N ULL, NULL, 'nan'), (191,21,3,3,5,'',9.2600,'MG/L','',NULL,NULL,'nan'), (192,21 ,3,3,2,'',9.2600,'MG/L','',NULL,NULL,'nan'),(193,20,3,3,5,'',8.5900,'MG/L' ,'',NULL,NULL,'nan'),(194,20,3,3,2,'',8.5900,'MG/L','',NULL,NULL,'nan'),(1 95,19,3,3,5,'',10.5500,'MG/L','',NULL,NULL,'nan'),(196,19,3,3,2,'',10.5500 'MG/L','', NULL, NULL, 'nan'), (197,19,3,3,5,'',10.5500,'MG/L','',NULL, NULL,' nan'),(198,19,3,3,2,'',10.5500,'MG/L','',NULL,NULL,'nan'),(199,18,3,3,5,'' ,10.5500, 'MG/L','', NULL, NULL, 'nan'), (200,18,3,3,2,'',10.5500, 'MG/L','', NUL L, NULL, 'nan'), (201,18,3,3,5,'',10.5500,'MG/L','',NULL,NULL, 'nan'), (202,18,

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performed after holding time
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,'',NULL,NULL,'nan'),(2366,4,34,3,5,'',10.4800,'MG/L','',NULL,NULL,'nan'), (2367,4,34,3,2,'',10.4800,'MG/L','',NULL,NULL,'nan'),(2368,3,34,3,5,'',10. 9700, 'MG/L', '', NULL, NULL, 'nan'), (2369, 3, 34, 3, 2, '', 10.9700, 'MG/L', '', NULL, N ULL, 'nan'), (2370,2,34,3,5,'',11.2700,'MG/L','',NULL,NULL,'nan'), (2371,2,34 ,3,2,'',11.2700,'MG/L','',NULL,NULL,'nan'),(2372,1,34,3,5,'',11.8000,'MG/L ','',NULL,NULL,'nan'),(2373,1,34,3,2,'',11.8000,'MG/L','',NULL,NULL,'nan') ,(2374,36,35,4,5,'',62.6000,'PCT','',NULL,NULL,'nan'),(2375,36,35,4,2,'',6 2.6000, 'PCT', '', NULL, NULL, 'nan'), (2376, 35, 35, 4, 5, '', 91.4000, 'PCT', '', NULL, NULL, 'nan'), (2377, 35, 35, 4, 2, '', 91.4000, 'PCT', '', NULL, NULL, 'nan'), (2378, 34, 35,4,5,'',95.8000,'PCT','',NULL,NULL,'nan'),(2379,34,35,4,2,'',95.8000,'PC T','',NULL,NULL,'nan'),(2380,33,35,4,5,'',99.4000,'PCT','',NULL,NULL,'nan'), (2381, 33, 35, 4, 2, '', 99.4000, 'PCT', '', NULL, NULL, 'nan'), (2382, 32, 35, 4, 5, '', 83.9000, 'PCT', '', NULL, NULL, 'nan'), (2383, 32, 35, 4, 2, '', 83.9000, 'PCT', '', NULL NULL, 'nan'), (2384,31,35,4,5,'',98.4000,'PCT','',NULL,NULL, 'nan'), (2385,31 ,35,4,2,'',98.4000,'PCT','',NULL,NULL,'nan'),(2386,30,35,4,5,'',93.1000,'P CT','',NULL,NULL,'nan'),(2387,30,35,4,2,'',93.1000,'PCT','',NULL,NULL,'nan '), (2388,29,35,4,5,'',87.8000,'PCT','',NULL,NULL,'nan'), (2389,29,35,4,2,'' ,87.8000,'PCT','',NULL,NULL,'nan'),(2390,28,35,4,5,'',87.9000,'PCT','',NUL L, NULL, 'nan'), (2391, 28, 35, 4, 2, '', 87.9000, 'PCT', '', NULL, NULL, 'nan'), (2392, 2 7,35,4,5,'',88.7000,'PCT','',NULL,NULL,'nan'),(2393,27,35,4,2,'',88.7000,' PCT', '', NULL, NULL, 'nan'), (2394, 26, 35, 4, 5, '', 87.3000, 'PCT', '', NULL, NULL, 'na n'),(2395,26,35,4,2,'',87.3000,'PCT','',NULL,NULL,'nan'),(2396,25,35,4,5,' ',77.4000,'PCT','',NULL,NULL,'nan'),(2397,25,35,4,2,'',77.4000,'PCT','',NU LL, NULL, 'nan'), (2398, 24, 35, 4, 5, '', 109.8000, 'PCT', '', NULL, NULL, 'nan'), (2399 ,24,35,4,2,'',109.8000,'PCT','',NULL,NULL,'nan'),(2400,23,35,4,5,'',82.100 0, 'PCT', '', NULL, NULL, 'nan'), (2401, 23, 35, 4, 2, '', 82.1000, 'PCT', '', NULL, NULL, 'nan'),(2402,22,35,4,5,'',93.6000,'PCT','',NULL,NULL,'nan'),(2403,22,35,4, 2,'',93.6000,'PCT','',NULL,NULL,'nan'),(2404,21,35,4,5,'',90.3000,'PCT','' NULL, NULL, 'nan'), (2405, 21, 35, 4, 2, '', 90.3000, 'PCT', '', NULL, NULL, 'nan'), (24 06,20,35,4,5,'',78.3000,'PCT','',NULL,NULL,'nan'),(2407,20,35,4,2,'',78.30 00, 'PCT', '', NULL, NULL, 'nan'), (2408, 19, 35, 4, 5, '', 93.3000, 'PCT', '', NULL, NULL 'nan'), (2409,19,35,4,2,'',93.3000,'PCT','',NULL,NULL,'nan'), (2410,19,35,4 ,5,'',93.3000,'PCT','',NULL,NULL,'nan'),(2411,19,35,4,2,'',93.3000,'PCT',' ',NULL,NULL,'nan'),(2412,18,35,4,5,'',93.3000,'PCT','',NULL,NULL,'nan'),(2 413,18,35,4,2,'',93.3000,'PCT','',NULL,NULL,'nan'),(2414,18,35,4,5,'',93.3 000, 'PCT', '', NULL, NULL, 'nan'), (2415, 18, 35, 4, 2, '', 93.3000, 'PCT', '', NULL, NUL L, 'nan'), (2416,17,35,4,5,'',94.6000,'PCT','',NULL,NULL,'nan'), (2417,17,35, 4,2,'',94.6000,'PCT','',NULL,NULL,'nan'),(2418,16,35,4,5,'',90.8000,'PCT', '', NULL, NULL, 'nan'), (2419,16,35,4,2,'',90.8000,'PCT','',NULL,NULL,'nan'), (2420,15,35,4,5,'',91.0000,'PCT','',NULL,NULL,'nan'),(2421,15,35,4,2,'',91. 0000, 'PCT', '', NULL, NULL, 'nan'), (2422, 14, 35, 4, 5, '', 88.8000, 'PCT', '', NULL, NU LL, 'nan'), (2423,14,35,4,2,'',88.8000,'PCT','',NULL,NULL,'nan'), (2424,13,35 ,4,5,'',87.5000,'PCT','',NULL,NULL,'nan'),(2425,13,35,4,2,'',87.5000,'PCT' ,'',NULL,NULL,'nan'),(2426,12,35,4,5,'',100.8000,'PCT','',NULL,NULL,'nan') ,(2427,12,35,4,2,'',100.8000,'PCT','',NULL,NULL,'nan'),(2428,12,35,4,5,'', 100.8000, 'PCT', '', NULL, NULL, 'nan'), (2429,12,35,4,2,'',100.8000, 'PCT','', NU LL, NULL, 'nan'), (2430,11,35,4,5,'',100.8000,'PCT','',NULL,NULL,'nan'), (2431 ,11,35,4,2,'',100.8000,'PCT','',NULL,NULL,'nan'),(2432,11,35,4,5,'',100.80 00, 'PCT', '', NULL, NULL, 'nan'), (2433,11,35,4,2,'',100.8000, 'PCT','', NULL, NUL L, 'nan'), (2434,10,35,4,5,'',62.6000,'PCT','',NULL,NULL,'nan'), (2435,10,35, 4,2,'',62.6000,'PCT','',NULL,NULL,'nan'),(2436,9,35,4,5,'',91.4000,'PCT',' ',NULL,NULL, 'nan'), (2437,9,35,4,2,'',91.4000,'PCT','',NULL,NULL, 'nan'), (24 38,8,35,4,5,'',95.8000,'PCT','',NULL,NULL,'nan'),(2439,8,35,4,2,'',95.8000 ,'PCT','',NULL,NULL,'nan'),(2440,7,35,4,5,'',98.4000,'PCT','',NULL,NULL,'n

an'), (2441,7,35,4,2,'',98.4000,'PCT','',NULL,NULL,'nan'), (2442,6,35,4,5,'' ,83.9000,'PCT','',NULL,NULL,'nan'),(2443,6,35,4,2,'',83.9000,'PCT','',NULL NULL, 'nan'), (2444,5,35,4,5,'',99.4000,'PCT','',NULL,NULL,'nan'), (2445,5,3 5,4,2,'',99.4000,'PCT','',NULL,NULL,'nan'),(2446,4,35,4,5,'',93.1000,'PCT' ,'',NULL,NULL,'nan'),(2447,4,35,4,2,'',93.1000,'PCT','',NULL,NULL,'nan'),(2448,3,35,4,5,'',87.8000,'PCT','',NULL,NULL,'nan'),(2449,3,35,4,2,'',87.80 00, 'PCT', '', NULL, NULL, 'nan'), (2450,2,35,4,5,'',87.9000, 'PCT','', NULL, NULL, 'nan'),(2451,2,35,4,2,'',87.9000,'PCT','',NULL,NULL,'nan'),(2452,1,35,4,5, '',88.7000,'PCT','',NULL,NULL,'nan'),(2453,1,35,4,2,'',88.7000,'PCT','',NU LL, NULL, 'nan'), (2454, 36, 36, 5, 4, '', 12.5800, 'MG/L', '', NULL, NULL, 'nan'), (2455),36,36,5,1,'',12.5800,'MG/L','',NULL,NULL,'nan'),(2456,35,36,5,4,'',6.7360 ,'MG/L','',NULL,NULL,'nan'),(2457,35,36,5,1,'',6.7360,'MG/L','',NULL,NULL, 'nan'), (2458,34,36,5,4,'',2.7590,'MG/L','',NULL,NULL,'nan'), (2459,34,36,5, 1,'',2.7590,'MG/L','',NULL,NULL,'nan'),(2460,33,36,5,4,'',1.9750,'MG/L','' NULL, NULL, 'nan'), (2461, 33, 36, 5, 1, '', 1.9750, 'MG/L', '', NULL, NULL, 'nan'), (24 62,32,36,5,4,'',2.2740,'MG/L','',NULL,NULL,'nan'),(2463,32,36,5,1,'',2.274 0, 'MG/L','', NULL, NULL, 'nan'), (2464,31,36,5,4,'',2.7400,'MG/L','',NULL, NULL ,'nan'),(2465,31,36,5,1,'',2.7400,'MG/L','',NULL,NULL,'nan'),(2466,30,36,5 ,4,'',2.2240,'MG/L','',NULL,NULL,'nan'),(2467,30,36,5,1,'',2.2240,'MG/L',' ',NULL,NULL,'nan'),(2468,29,36,5,4,'',8.5990,'MG/L','GG',NULL,NULL,'Analys is performed after holding time expired.'), (2469,29,36,5,1,'',8.5990,'MG/L','GG',NULL,NULL,'Analysis performed after holding time expired.'), (2470,28,36,5,4,'',6.4270,'MG/L','',NULL,NULL,'nan'), (2471,28,3 6,5,1,'',6.4270,'MG/L','',NULL,NULL,'nan'),(2472,27,36,5,4,'',1.6010,'MG/L ','',NULL,NULL,'nan'),(2473,27,36,5,1,'',1.6010,'MG/L','',NULL,NULL,'nan') ,(2474,26,36,5,4,'',1.6880,'MG/L','',NULL,NULL,'nan'),(2475,26,36,5,1,'',1 .6880, 'MG/L','', NULL, NULL, 'nan'), (2476, 25, 36, 5, 4, '', 2.4610, 'MG/L', 'QQ', NUL L, NULL, 'nan'), (2477, 25, 36, 5, 1, '', 2.4610, 'MG/L', 'QQ', NULL, NULL, 'nan'), (2478 ,24,36,5,4,'',2.2030,'MG/L','',NULL,NULL,'nan'),(2479,24,36,5,1,'',2.2030, 'MG/L','',NULL,NULL,'nan'),(2480,23,36,5,4,'',8.3570,'MG/L','',NULL,NULL,' nan'), (2481,23,36,5,1,'',8.3570,'MG/L','',NULL,NULL,'nan'), (2482,22,36,5,4 '',2.4980,'MG/L','',NULL,NULL,'nan'),(2483,22,36,5,1,'',2.4980,'MG/L','', NULL, NULL, 'nan'), (2484,21,36,5,4,'',2.2500,'MG/L','',NULL,NULL,'nan'), (248 5,21,36,5,1,'',2.2500,'MG/L','',NULL,NULL,'nan'),(2486,20,36,5,4,'',15.810 0, 'MG/L', '', NULL, NULL, 'nan'), (2487, 20, 36, 5, 1, '', 15.8100, 'MG/L', '', NULL, NUL L, 'nan'), (2488,19,36,5,4,'',2.3410,'MG/L','',NULL,NULL,'nan'), (2489,19,36, 5,1,'',2.3410,'MG/L','',NULL,NULL,'nan'),(2490,19,36,5,4,'',2.3930,'MG/L', '', NULL, NULL, 'nan'), (2491,19,36,5,1,'',2.3930,'MG/L','',NULL,NULL, 'nan'), (2492,18,36,5,4,'',2.3410,'MG/L','',NULL,NULL,'nan'),(2493,18,36,5,1,'',2.3 410, 'MG/L', '', NULL, NULL, 'nan'), (2494, 18, 36, 5, 4, '', 2.3930, 'MG/L', '', NULL, NU LL, 'nan'), (2495,18,36,5,1,'',2.3930,'MG/L','',NULL,NULL,'nan'), (2496,17,36 ,5,4,'',2.4960,'MG/L','',NULL,NULL,'nan'),(2497,17,36,5,1,'',2.4960,'MG/L' ,'',NULL,NULL,'nan'),(2498,16,36,5,4,'',1.9270,'MG/L','',NULL,NULL,'nan'), (2499,16,36,5,1,'',1.9270,'MG/L','',NULL,NULL,'nan'),(2500,15,36,5,4,'',1. 3710, 'MG/L', '', NULL, NULL, 'nan'), (2501, 15, 36, 5, 1, '', 1.3710, 'MG/L', '', NULL, N ULL, 'nan'), (2502,14,36,5,4,'',2.0130,'MG/L','',NULL,NULL,'nan'), (2503,14,3

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G/L','',NULL,NULL,'nan'),(2558,21,37,5,4,'G',2.1875,'MG/L','',NULL,NULL,'n
an'), (2559,21,37,5,1,'G',2.1875,'MG/L','',NULL,NULL,'nan'), (2560,20,37,5,4
,'',21.2500,'MG/L','',NULL,NULL,'nan'),(2561,20,37,5,1,'',21.2500,'MG/L','
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0, 'MG/L', '', NULL, NULL, 'nan'), (2576,14,37,5,4,'G',2.6778,'MG/L','',NULL,NUL
L, 'nan'), (2577,14,37,5,1,'G',2.6778,'MG/L','',NULL,NULL,'nan'), (2578,13,37
,5,4,'<',1.0000,'MG/L','',NULL,NULL,'nan'),(2579,13,37,5,1,'<',1.0000,'MG/
L','', NULL, NULL, 'nan'), (2580, 12, 37, 5, 4, '<', 1.0000, 'MG/L', '', NULL, NULL, 'nan
'), (2581,12,37,5,1,'<',1.0000,'MG/L','',NULL,NULL,'nan'), (2582,12,37,5,4,'
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,'',NULL,NULL,'nan'),(2598,5,37,5,4,'G',2.7167,'MG/L','',NULL,NULL,'nan'),
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556, 'MG/L', '', NULL, NULL, 'nan'), (2601, 4, 37, 5, 1, '', 4.9556, 'MG/L', '', NULL, NUL
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Mg)'),(2603,26,38,2,1,'',53.4982,'MG/L','',NULL,NULL,'Standard Method
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Mg)'),(2604,25,38,2,4,'',51.4820,'MG/L','',NULL,NULL,'Standard Method
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Mg)'),(2605,25,38,2,1,'',51.4820,'MG/L','',NULL,NULL,'Standard Method
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Mg)'),(2606,24,38,2,4,'',51.9062,'MG/L','',NULL,NULL,'Standard Method
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Mg)'),(2607,24,38,2,1,'',51.9062,'MG/L','',NULL,NULL,'Standard Method
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Mg)'),(2608,23,38,2,4,'',40.2933,'MG/L','',NULL,NULL,'nan'),(2609,23,38,2,
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09, 'MG/L', '', NULL, NULL, 'nan'), (2618,19,38,2,4,'',41.4949,'MG/L','', NULL, NU
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4000, 'MG/L', '', NULL, NULL, 'nan'), (2640, 33, 39, 5, 4, '<', 2.4000, 'MG/L', '', NULL,
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L, NULL, 'nan'), (2652,27,39,5,4,'<',2.4000,'MG/L','',NULL,NULL,'nan'), (2653,
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,5,4,'<',2.4000,'MG/L','',NULL,NULL,'nan'),(2709,3,39,5,1,'<',2.4000,'MG/L
','',NULL,NULL,'nan'),(2710,2,39,5,4,'<',2.4000,'MG/L','',NULL,NULL,'nan')
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722,32,40,5,4,'',0.0412,'MG/L','GG',NULL,NULL,'Analysis performed after
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holding time
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7,14,40,5,1,'',0.0876,'MG/L','',NULL,NULL,'nan'),(2758,13,40,5,4,'G',0.018
5, 'MG/L','', NULL, NULL, 'nan'), (2759,13,40,5,1,'G',0.0185,'MG/L','',NULL,NUL
L, 'nan'), (2760,12,40,5,4,'G',0.0100,'MG/L','',NULL,NULL,'nan'), (2761,12,40
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L','', NULL, NULL, 'nan'), (2763,12,40,5,1,'G',0.0100,'MG/L','', NULL, NULL, 'nan
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3, 'MG/L', '', NULL, NULL, 'nan'), (2770, 9, 40, 5, 4, '<', 0.0100, 'MG/L', '', NULL, NULL
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L','',NULL,NULL,'nan'),(2802,26,41,5,4,'G',0.0169,'MG/L','',NULL,NULL,'nan
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'', NULL, NULL, 'nan'), (3783,28,55,5,4,'',3.3700,'MG/L','QQ',NULL,NULL,'nan')
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G/L', '', NULL, NULL, 'nan'), (3790, 25, 55, 5, 1, '', 3.6000, 'MG/L', '', NULL, NULL, 'na
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,5,1,'',3.4500,'MG/L','',NULL,NULL,'nan'),(3807,18,55,5,4,'',3.5000,'MG/L'
,'',NULL,NULL,'nan'),(3808,18,55,5,1,'',3.5000,'MG/L','',NULL,NULL,'nan'),
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performed after holding time
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performed after holding time
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','',NULL,NULL,'nan'),(3902,13,56,5,1,'',2.7070,'MG/L','',NULL,NULL,'nan')
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n'),(4872,40,3,3,2,'',10.0600,'MG/L','',NULL,NULL,'nan'),(4873,39,3,3,5,''
,8.6800, 'MG/L','',NULL,NULL, 'nan'), (4874,39,3,3,2,'',8.6800, 'MG/L','',NULL
NULL, 'nan'), (4875, 38, 3, 3, 5, '', 8.8100, 'MG/L', '', NULL, NULL, 'nan'), (4876, 38,
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,'',NULL,NULL,'nan'),(4878,38,3,3,2,'',8.8100,'MG/L','',NULL,NULL,'nan'),(
4879,37,3,3,5,'',8.8100,'MG/L','',NULL,NULL,'nan'),(4880,37,3,3,2,'',8.810
0, 'MG/L', '', NULL, NULL, 'nan'), (4881, 37, 3, 3, 5, '', 8.8100, 'MG/L', '', NULL, NULL,
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Ca and Mg)'), (4884,112,7,2,1,'',47.3964,'MG/L','',NULL,NULL,'Standard
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Method 2340-B (calculated from Ca and
Mg)'),(4885,112,7,2,4,'',49.8382,'MG/L','',NULL,NULL,'Standard Method
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Mg)'),(4886,112,7,2,1,'',49.8382,'MG/L','',NULL,NULL,'Standard Method
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Mg)'),(4887,111,7,2,4,'',47.3964,'MG/L','',NULL,NULL,'Standard Method
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Mg)'),(4888,111,7,2,1,'',47.3964,'MG/L','',NULL,NULL,'Standard Method
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Mg)'),(4889,111,7,2,4,'',49.8382,'MG/L','',NULL,NULL,'Standard Method
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Mg)'),(4890,111,7,2,1,'',49.8382,'MG/L','',NULL,NULL,'Standard Method
2340-B (calculated from Ca and
Mg)'),(4891,110,7,2,4,'',44.6486,'MG/L','',NULL,NULL,'Standard Method
2340-B (calculated from Ca and
Mg)'),(4892,110,7,2,1,'',44.6486,'MG/L','',NULL,NULL,'Standard Method
2340-B (calculated from Ca and
Mg)'),(4893,109,7,2,4,'',49.2599,'MG/L','',NULL,NULL,'Standard Method
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Mg)'),(4894,109,7,2,1,'',49.2599,'MG/L','',NULL,NULL,'Standard Method
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Mg)'),(4895,108,7,2,4,'',43.2003,'MG/L','',NULL,NULL,'nan'),(4896,108,7,2,
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3.2003, 'MG/L','', NULL, NULL, 'nan'), (4901, 107, 7, 2, 4, '', 44.2847, 'MG/L', '', NUL
L, NULL, 'nan'), (4902, 107, 7, 2, 1, '', 44.2847, 'MG/L', '', NULL, NULL, 'nan'), (4903,
106,7,2,4,'',40.0980,'MG/L','',NULL,NULL,'nan'),(4904,106,7,2,1,'',40.0980
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,'nan'),(4906,105,7,2,1,'',46.1817,'MG/L','',NULL,NULL,'nan'),(4907,104,7,
2,4,'',30.8009,'MG/L','',NULL,NULL,'nan'),(4908,104,7,2,1,'',30.8009,'MG/L
','',NULL,NULL,'nan'),(4909,104,7,2,4,'<',50.0000,'MG/L','',NULL,NULL,'nan
'), (4910,104,7,2,1,'<',50.0000,'MG/L','',NULL,NULL,'nan'), (4911,103,7,2,4,
'',30.8009,'MG/L','',NULL,NULL,'nan'),(4912,103,7,2,1,'',30.8009,'MG/L',''
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'MG/L','', NULL, NULL, 'nan'), (4920,100,7,2,1,'',40.7783,'MG/L','',NULL, NULL, NULL
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1,'',45.9871,'MG/L','',NULL,NULL,'nan'),(4923,98,7,2,4,'',46.5219,'MG/L','
', NULL, NULL, 'nan'), (4924, 98, 7, 2, 1, '', 46.5219, 'MG/L', '', NULL, NULL, 'nan'), (4
925,97,7,2,4,'',46.2614,'MG/L','',NULL,NULL,'nan'),(4926,97,7,2,1,'',46.26
14, 'MG/L', '', NULL, NULL, 'nan'), (4927,82,7,2,4,'',47.3964, 'MG/L','', NULL, NUL
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Mg)'),(4928,82,7,2,1,'',47.3964,'MG/L','',NULL,NULL,'Standard Method 2340-
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Mg)'),(4929,82,7,2,4,'',49.8382,'MG/L','',NULL,NULL,'Standard Method 2340-
B (calculated from Ca and
Mg)'),(4930,82,7,2,1,'',49.8382,'MG/L','',NULL,NULL,'Standard Method 2340-
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Mg)'),(4931,81,7,2,4,'',47.3964,'MG/L','',NULL,NULL,'Standard Method 2340-
B (calculated from Ca and
```

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Mg)'),(4932,81,7,2,1,'',47.3964,'MG/L','',NULL,NULL,'Standard Method 2340-
B (calculated from Ca and
Mg)'),(4933,81,7,2,4,'',49.8382,'MG/L','',NULL,NULL,'Standard Method 2340-
B (calculated from Ca and
Mg)'),(4934,81,7,2,1,'',49.8382,'MG/L','',NULL,NULL,'Standard Method 2340-
B (calculated from Ca and
Mg)'),(4935,80,7,2,4,'',44.6486,'MG/L','',NULL,NULL,'Standard Method 2340-
B (calculated from Ca and
Mg)'),(4936,80,7,2,1,'',44.6486,'MG/L','',NULL,NULL,'Standard Method 2340-
B (calculated from Ca and
Mg)'),(4937,79,7,2,4,'',49.2599,'MG/L','',NULL,NULL,'Standard Method 2340-
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Mg)'),(4938,79,7,2,1,'',49.2599,'MG/L','',NULL,NULL,'Standard Method 2340-
B (calculated from Ca and
Mg)'),(4939,78,7,2,4,'',43.2003,'MG/L','',NULL,NULL,'nan'),(4940,78,7,2,1,
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,'MG/L','',NULL,NULL,'nan'),(4945,77,7,2,4,'',44.2847,'MG/L','',NULL,NULL,
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9, 'MG/L','', NULL, NULL, 'nan'), (4952,74,7,2,1,'',30.8009, 'MG/L','',NULL, NULL
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,1,'<',50.0000,'MG/L','',NULL,NULL,'nan'),(4955,73,7,2,4,'',30.8009,'MG/L'
,'',NULL,NULL,'nan'),(4956,73,7,2,1,'',30.8009,'MG/L','',NULL,NULL,'nan'),
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,7,2,4,'',41.1183,'MG/L','',NULL,NULL,'nan'),(4962,71,7,2,1,'',41.1183,'MG
/L','',NULL,NULL,'nan'),(4963,70,7,2,4,'',40.7783,'MG/L','',NULL,NULL,'nan
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L, NULL, 'nan'), (4967, 68, 7, 2, 4, '', 45.9871, 'MG/L', '', NULL, NULL, 'nan'), (4968, 6
8,7,2,1,'',45.9871,'MG/L','',NULL,NULL,'nan'),(4969,67,7,2,4,'',46.2614,'M
G/L','', NULL, NULL, 'nan'), (4970,67,7,2,1,'',46.2614,'MG/L','',NULL,NULL,'na
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(calculated from Ca and
Mg)'),(4972,52,7,2,1,'',51.4820,'MG/L','',NULL,NULL,'Standard Method 2340-
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Mg)'),(4973,51,7,2,4,'',53.4982,'MG/L','',NULL,NULL,'Standard Method 2340-
B (calculated from Ca and
Mg)'),(4974,51,7,2,1,'',53.4982,'MG/L','',NULL,NULL,'Standard Method 2340-
B (calculated from Ca and
Mg)'),(4975,50,7,2,4,'',51.9062,'MG/L','',NULL,NULL,'Standard Method 2340-
B (calculated from Ca and
Mg)'),(4976,50,7,2,1,'',51.9062,'MG/L','',NULL,NULL,'Standard Method 2340-
B (calculated from Ca and
Mg)'),(4977,49,7,2,4,'',40.2933,'MG/L','',NULL,NULL,'nan'),(4978,49,7,2,1,
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,2,4,'',44.5349,'MG/L','',NULL,NULL,'nan'),(5000,40,7,2,1,'',44.5349,'MG/L
','',NULL,NULL,'nan'),(5001,39,7,2,4,'',51.9281,'MG/L','',NULL,NULL,'nan')
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,5,1,'',0.0318,'MG/L','',NULL,NULL,'nan'),(5011,110,10,5,4,'',0.0413,'MG/L
','',NULL,NULL,'nan'),(5012,110,10,5,1,'',0.0413,'MG/L','',NULL,NULL,'nan'
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effect.'), (5024,106,10,5,1,'',0.0796,'MG/L','B ',NULL,NULL,'Result is
likely overestimated due to matrix
effect.'), (5025,105,10,5,4,'',0.0508,'MG/L','',NULL,NULL,'nan'), (5026,105,
10,5,1,'',0.0508,'MG/L','',NULL,NULL,'nan'),(5027,104,10,5,4,'',0.3332,'MG
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ULL, 'nan'), (5040,100,10,5,1,'G',0.0336,'MG/L','',NULL,NULL, 'nan'), (5041,99
,10,5,4,'',0.0300,'MG/L','',NULL,NULL,'nan'),(5042,99,10,5,1,'',0.0300,'MG
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L','',NULL,NULL,'nan'),(5075,86,10,5,4,'',0.0220,'MG/L','',NULL,NULL,'nan'
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LL, NULL, 'nan'), (5372,55,34,3,2,'',10.5400,'MG/L','',NULL,NULL,'nan'), (5373
,54,34,3,5,'',10.5400,'MG/L','',NULL,NULL,'nan'),(5374,54,34,3,2,'',10.540
0, 'MG/L', '', NULL, NULL, 'nan'), (5375, 54, 34, 3, 5, '', 10.5400, 'MG/L', '', NULL, NUL
L, 'nan'), (5376,54,34,3,2,'',10.5400,'MG/L','',NULL,NULL,'nan'), (5377,53,34
,3,5,'',11.3900,'MG/L','',NULL,NULL,'nan'),(5378,53,34,3,2,'',11.3900,'MG/
L','',NULL,NULL,'nan'),(5379,52,34,3,5,'',6.8600,'MG/L','',NULL,NULL,'nan'
),(5380,52,34,3,2,'',6.8600,'MG/L','',NULL,NULL,'nan'),(5381,51,34,3,5,'',
8.9500, 'MG/L','', NULL, NULL, 'nan'), (5382,51,34,3,2,'',8.9500, 'MG/L','', NULL
NULL, 'nan'), (5383,50,34,3,5,'',9.3700,'MG/L','',NULL,NULL, 'nan'), (5384,50
,34,3,2,'',9.3700,'MG/L','',NULL,NULL,'nan'),(5385,49,34,3,5,'',7.1700,'MG
/L','',NULL,NULL,'nan'),(5386,49,34,3,2,'',7.1700,'MG/L','',NULL,NULL,'nan
'), (5387, 48, 34, 3, 5, '', 8.9100, 'MG/L', '', NULL, NULL, 'nan'), (5388, 48, 34, 3, 2, ''
,8.9100, 'MG/L','',NULL,NULL, 'nan'), (5389,47,34,3,5,'',9.2600,'MG/L','',NUL
L, NULL, 'nan'), (5390, 47, 34, 3, 2, '', 9.2600, 'MG/L', '', NULL, NULL, 'nan'), (5391, 4
6,34,3,5,'',10.5500,'MG/L','',NULL,NULL,'nan'),(5392,46,34,3,2,'',10.5500,
'MG/L','',NULL,NULL,'nan'),(5393,46,34,3,5,'',10.5500,'MG/L','',NULL,NULL,
'nan'), (5394,46,34,3,2,'',10.5500,'MG/L','',NULL,NULL,'nan'), (5395,45,34,3
,5,'',8.5900,'MG/L','',NULL,NULL,'nan'),(5396,45,34,3,2,'',8.5900,'MG/L','
',NULL,NULL,'nan'),(5397,44,34,3,5,'',10.5500,'MG/L','',NULL,NULL,'nan'),(
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NULL, 'nan'), (5401, 43, 34, 3, 5, '', 9.5300, 'MG/L', '', NULL, NULL, 'nan'), (5402, 43
,34,3,2,'',9.5300,'MG/L','',NULL,NULL,'nan'),(5403,42,34,3,5,'',12.1300,'M
G/L','', NULL, NULL, 'nan'), (5404,42,34,3,2,'',12.1300,'MG/L','', NULL, NULL, 'n
an'),(5405,41,34,3,5,'',11.3200,'MG/L','',NULL,NULL,'nan'),(5406,41,34,3,2
,'',11.3200,'MG/L','',NULL,NULL,'nan'),(5407,40,34,3,5,'',10.0600,'MG/L','
',NULL,NULL,'nan'),(5408,40,34,3,2,'',10.0600,'MG/L','',NULL,NULL,'nan'),(
5409,39,34,3,5,'',8.6800,'MG/L','',NULL,NULL,'nan'),(5410,39,34,3,2,'',8.6
800, 'MG/L','', NULL, NULL, 'nan'), (5411, 38, 34, 3, 5, '', 8.8100, 'MG/L', '', NULL, NU
LL, 'nan'), (5412,38,34,3,2,'',8.8100,'MG/L','',NULL,NULL,'nan'), (5413,38,34
,3,5,'',8.8100,'MG/L','',NULL,NULL,'nan'),(5414,38,34,3,2,'',8.8100,'MG/L'
,'',NULL,NULL,'nan'),(5415,37,34,3,5,'',8.8100,'MG/L','',NULL,NULL,'nan'),
(5416,37,34,3,2,'',8.8100,'MG/L','',NULL,NULL,'nan'),(5417,37,34,3,5,'',8.
8100, 'MG/L', '', NULL, NULL, 'nan'), (5418, 37, 34, 3, 2, '', 8.8100, 'MG/L', '', NULL, N
ULL, 'nan'), (5419,112,38,2,4,'',47.3964,'MG/L','',NULL,NULL,'Standard
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Method 2340-B (calculated from Ca and
Mg)'),(5420,112,38,2,1,'',47.3964,'MG/L','',NULL,NULL,'Standard Method
2340-B (calculated from Ca and
Mg)'),(5421,112,38,2,4,'',49.8382,'MG/L','',NULL,NULL,'Standard Method
2340-B (calculated from Ca and
Mg)'),(5422,112,38,2,1,'',49.8382,'MG/L','',NULL,NULL,'Standard Method
2340-B (calculated from Ca and
Mg)'),(5423,111,38,2,4,'',47.3964,'MG/L','',NULL,NULL,'Standard Method
2340-B (calculated from Ca and
Mg)'),(5424,111,38,2,1,'',47.3964,'MG/L','',NULL,NULL,'Standard Method
2340-B (calculated from Ca and
Mg)'),(5425,111,38,2,4,'',49.8382,'MG/L','',NULL,NULL,'Standard Method
2340-B (calculated from Ca and
Mg)'),(5426,111,38,2,1,'',49.8382,'MG/L','',NULL,NULL,'Standard Method
2340-B (calculated from Ca and
Mg)'),(5427,110,38,2,4,'',44.6486,'MG/L','',NULL,NULL,'Standard Method
2340-B (calculated from Ca and
Mg)'),(5428,110,38,2,1,'',44.6486,'MG/L','',NULL,NULL,'Standard Method
2340-B (calculated from Ca and
Mg)'),(5429,109,38,2,4,'',49.2599,'MG/L','',NULL,NULL,'Standard Method
2340-B (calculated from Ca and
Mg)'),(5430,109,38,2,1,'',49.2599,'MG/L','',NULL,NULL,'Standard Method
2340-B (calculated from Ca and
Mg)'),(5431,108,38,2,4,'',43.2003,'MG/L','',NULL,NULL,'nan'),(5432,108,38,
2,1,'',43.2003,'MG/L','',NULL,NULL,'nan'),(5433,108,38,2,4,'',44.2847,'MG/
L','',NULL,NULL,'nan'),(5434,108,38,2,1,'',44.2847,'MG/L','',NULL,NULL,'na)
n'), (5435,107,38,2,4,'',43.2003,'MG/L','',NULL,NULL,'nan'), (5436,107,38,2,
1,'',43.2003,'MG/L','',NULL,NULL,'nan'),(5437,107,38,2,4,'',44.2847,'MG/L'
,'',NULL,NULL,'nan'),(5438,107,38,2,1,'',44.2847,'MG/L','',NULL,NULL,'nan'
), (5439,106,38,2,4,'',40.0980,'MG/L','',NULL,NULL,'nan'), (5440,106,38,2,1,
'',40.0980,'MG/L','',NULL,NULL,'nan'),(5441,105,38,2,4,'',46.1817,'MG/L','
', NULL, NULL, 'nan'), (5442,105,38,2,1,'',46.1817,'MG/L','',NULL,NULL,'nan'),
(5443,104,38,2,4,'',30.8009,'MG/L','',NULL,NULL,'nan'),(5444,104,38,2,1,''
,30.8009,'MG/L','',NULL,NULL,'nan'),(5445,104,38,2,4,'<',50.0000,'MG/L',''
, NULL, NULL, 'nan'), (5446, 104, 38, 2, 1, '<', 50.0000, 'MG/L', '', NULL, NULL, 'nan'),
(5447,103,38,2,4,'',30.8009,'MG/L','',NULL,NULL,'nan'),(5448,103,38,2,1,''
,30.8009,'MG/L','',NULL,NULL,'nan'),(5449,103,38,2,4,'<',50.0000,'MG/L',''
NULL, NULL, 'nan'), (5450, 103, 38, 2, 1, '<', 50.0000, 'MG/L', '', NULL, NULL, 'nan'),
(5451,102,38,2,4,'',40.7187,'MG/L','',NULL,NULL,'nan'),(5452,102,38,2,1,''
,40.7187,'MG/L','',NULL,NULL,'nan'),(5453,101,38,2,4,'',41.1183,'MG/L','',
NULL, NULL, 'nan'), (5454, 101, 38, 2, 1, '', 41.1183, 'MG/L', '', NULL, NULL, 'nan'), (5
455,100,38,2,4,'',40.7783,'MG/L','',NULL,NULL,'nan'),(5456,100,38,2,1,'',4
0.7783, 'MG/L','', NULL, NULL, 'nan'), (5457, 99, 38, 2, 4, '', 45.9871, 'MG/L', '', NUL
L, NULL, 'nan'), (5458, 99, 38, 2, 1, '', 45.9871, 'MG/L', '', NULL, NULL, 'nan'), (5459,
98,38,2,4,'',46.5219,'MG/L','',NULL,NULL,'nan'),(5460,98,38,2,1,'',46.5219
,'MG/L','',NULL,NULL,'nan'),(5461,97,38,2,4,'',46.2614,'MG/L','',NULL,NULL
', 'nan'), (5462,97,38,2,1,'',46.2614,'MG/L','',NULL,NULL,'nan'), (5463,82,38,
2,4,'',47.3964,'MG/L','',NULL,NULL,'Standard Method 2340-B (calculated
from Ca and Mg)'), (5464,82,38,2,1,'',47.3964,'MG/L','',NULL,NULL,'Standard
Method 2340-B (calculated from Ca and
Mg)'),(5465,82,38,2,4,'',49.8382,'MG/L','',NULL,NULL,'Standard Method
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Mg)'),(5466,82,38,2,1,'',49.8382,'MG/L','',NULL,NULL,'Standard Method
2340-B (calculated from Ca and
```

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Mg)'),(5467,81,38,2,4,'',47.3964,'MG/L','',NULL,NULL,'Standard Method
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Mg)'),(5468,81,38,2,1,'',47.3964,'MG/L','',NULL,NULL,'Standard Method
2340-B (calculated from Ca and
Mg)'),(5469,81,38,2,4,'',49.8382,'MG/L','',NULL,NULL,'Standard Method
2340-B (calculated from Ca and
Mg)'),(5470,81,38,2,1,'',49.8382,'MG/L','',NULL,NULL,'Standard Method
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Mg)'),(5471,80,38,2,4,'',44.6486,'MG/L','',NULL,NULL,'Standard Method
2340-B (calculated from Ca and
Mg)'),(5472,80,38,2,1,'',44.6486,'MG/L','',NULL,NULL,'Standard Method
2340-B (calculated from Ca and
Mg)'),(5473,79,38,2,4,'',49.2599,'MG/L','',NULL,NULL,'Standard Method
2340-B (calculated from Ca and
Mg)'),(5474,79,38,2,1,'',49.2599,'MG/L','',NULL,NULL,'Standard Method
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Mg)'),(5475,78,38,2,4,'',43.2003,'MG/L','',NULL,NULL,'nan'),(5476,78,38,2,
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76,38,2,4,'',40.0980,'MG/L','',NULL,NULL,'nan'),(5484,76,38,2,1,'',40.0980
,'MG/L','',NULL,NULL,'nan'),(5485,75,38,2,4,'',46.1817,'MG/L','',NULL,NULL
,'nan'),(5486,75,38,2,1,'',46.1817,'MG/L','',NULL,NULL,'nan'),(5487,74,38,
2,4,'',30.8009,'MG/L','',NULL,NULL,'nan'),(5488,74,38,2,1,'',30.8009,'MG/L
','',NULL,NULL,'nan'),(5489,74,38,2,4,'<',50.0000,'MG/L','',NULL,NULL,'nan
'),(5490,74,38,2,1,'<',50.0000,'MG/L','',NULL,NULL,'nan'),(5491,73,38,2,4,
'',30.8009,'MG/L','',NULL,NULL,'nan'),(5492,73,38,2,1,'',30.8009,'MG/L',''
, NULL, NULL, 'nan'), (5493, 73, 38, 2, 4, '<', 50.0000, 'MG/L', '', NULL, NULL, 'nan'), (
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,46.2614, 'MG/L','',NULL,NULL, 'nan'),(5507,52,38,2,4,'',51.4820,'MG/L','',N
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Mg)'),(5508,52,38,2,1,'',51.4820,'MG/L','',NULL,NULL,'Standard Method
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Mg)'),(5509,51,38,2,4,'',53.4982,'MG/L','',NULL,NULL,'Standard Method
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Mg)'),(5510,51,38,2,1,'',53.4982,'MG/L','',NULL,NULL,'Standard Method
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Mg)'),(5511,50,38,2,4,'',51.9062,'MG/L','',NULL,NULL,'Standard Method
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Mg)'),(5512,50,38,2,1,'',51.9062,'MG/L','',NULL,NULL,'Standard Method
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Mg)'),(5513,49,38,2,4,'',40.2933,'MG/L','',NULL,NULL,'nan'),(5514,49,38,2,
1,'',40.2933,'MG/L','',NULL,NULL,'nan'),(5515,48,38,2,4,'',46.1800,'MG/L',
'', NULL, NULL, 'nan'), (5516,48,38,2,1,'',46.1800,'MG/L','',NULL,NULL, 'nan'),
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L, NULL, 'nan'), (5520, 46, 38, 2, 1, '', 48.5909, 'MG/L', '', NULL, NULL, 'nan'), (5521,
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5213, 'MG/L', '', NULL, NULL, 'nan'), (5534,41,38,2,1,'',45.5213, 'MG/L','', NULL,
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,38,2,1,'',44.5349,'MG/L','',NULL,NULL,'nan'),(5537,39,38,2,4,'',51.9281,'
MG/L','',NULL,NULL,'nan'),(5538,39,38,2,1,'',51.9281,'MG/L','',NULL,NULL,'
nan'),(5539,112,41,5,4,'',0.0321,'MG/L','',NULL,NULL,'nan'),(5540,112,41,5
,1,'',0.0321,'MG/L','',NULL,NULL,'nan'),(5541,112,41,5,4,'',0.0318,'MG/L',
'', NULL, NULL, 'nan'), (5542,112,41,5,1,'',0.0318,'MG/L','',NULL,NULL,'nan'),
(5543,111,41,5,4,'',0.0321,'MG/L','',NULL,NULL,'nan'),(5544,111,41,5,1,'',
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L, NULL, 'nan'), (5546,111,41,5,1,'',0.0318,'MG/L','',NULL,NULL,'nan'), (5547,
110,41,5,4,'',0.0413,'MG/L','',NULL,NULL,'nan'),(5548,110,41,5,1,'',0.0413
,'MG/L','',NULL,NULL,'nan'),(5549,109,41,5,4,'',0.0459,'MG/L','QQ',NULL,NU
LL, 'nan'), (5550,109,41,5,1,'',0.0459,'MG/L','QQ',NULL,NULL,'nan'), (5551,10
8,41,5,4,'',0.1131,'MG/L','',NULL,NULL,'nan'),(5552,108,41,5,1,'',0.1131,'
MG/L','',NULL,NULL,'nan'),(5553,108,41,5,4,'',0.1139,'MG/L','',NULL,NULL,'
nan'),(5554,108,41,5,1,'',0.1139,'MG/L','',NULL,NULL,'nan'),(5555,107,41,5
,4,'',0.1131,'MG/L','',NULL,NULL,'nan'),(5556,107,41,5,1,'',0.1131,'MG/L',
'', NULL, NULL, 'nan'), (5557, 107, 41, 5, 4, '', 0.1139, 'MG/L', '', NULL, NULL, 'nan'),
(5558,107,41,5,1,'',0.1139,'MG/L','',NULL,NULL,'nan'),(5559,106,41,5,4,'',
0.0796, 'MG/L', 'B ', NULL, NULL, 'Result is likely overestimated due to matrix
effect.'), (5560,106,41,5,1,'',0.0796,'MG/L','B ',NULL,NULL,'Result is
likely overestimated due to matrix
effect.'), (5561,105,41,5,4,'',0.0508,'MG/L','',NULL,NULL,'nan'), (5562,105,
41,5,1,'',0.0508,'MG/L','',NULL,NULL,'nan'),(5563,104,41,5,4,'',0.3332,'MG
/L','',NULL,NULL,'nan'),(5564,104,41,5,1,'',0.3332,'MG/L','',NULL,NULL,'na
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,'',0.3370,'MG/L','',NULL,NULL,'nan'),(5567,103,41,5,4,'',0.3332,'MG/L',''
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1,41,5,4,'',0.0290,'MG/L','QQ',NULL,NULL,'nan'),(5574,101,41,5,1,'',0.0290
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ULL, 'nan'), (5576,100,41,5,1,'G',0.0336,'MG/L','',NULL,NULL, 'nan'), (5577,99
,41,5,4,'',0.0300,'MG/L','',NULL,NULL,'nan'),(5578,99,41,5,1,'',0.0300,'MG
/L','',NULL,NULL,'nan'),(5579,98,41,5,4,'G',0.0440,'MG/L','',NULL,NULL,'na
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'',0.0226,'MG/L','',NULL,NULL,'nan'),(5582,97,41,5,1,'',0.0226,'MG/L','',N
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nan'),(5587,94,41,5,4,'',0.1537,'MG/L','',NULL,NULL,'nan'),(5588,94,41,5,1
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,'',0.1537,'MG/L','',NULL,NULL,'nan'),(5589,94,41,5,4,'',0.1539,'MG/L','',
NULL, NULL, 'nan'), (5590, 94, 41, 5, 1, '', 0.1539, 'MG/L', '', NULL, NULL, 'nan'), (559
1,93,41,5,4,'',0.0616,'MG/L','',NULL,NULL,'nan'),(5592,93,41,5,1,'',0.0616
,'MG/L','',NULL,NULL,'nan'),(5593,92,41,5,4,'',0.1537,'MG/L','',NULL,NULL,
'nan'),(5594,92,41,5,1,'',0.1537,'MG/L','',NULL,NULL,'nan'),(5595,92,41,5,
4,'',0.1539,'MG/L','',NULL,NULL,'nan'),(5596,92,41,5,1,'',0.1539,'MG/L',''
NULL, NULL, 'nan'), (5597, 91, 41, 5, 4, '', 0.0279, 'MG/L', '', NULL, NULL, 'nan'), (55
98,91,41,5,1,'',0.0279,'MG/L','',NULL,NULL,'nan'),(5599,90,41,5,4,'',0.084
7,'MG/L','GG',NULL,NULL,'Analysis performed after holding time
expired.'), (5600,90,41,5,1,'',0.0847,'MG/L','GG',NULL,NULL,'Analysis
performed after holding time
expired.'), (5601,89,41,5,4,'',0.0205,'MG/L','',NULL,NULL,'nan'), (5602,89,4
1,5,1,'',0.0205,'MG/L','',NULL,NULL,'nan'),(5603,89,41,5,4,'',0.0197,'MG/L
','',NULL,NULL,'nan'),(5604,89,41,5,1,'',0.0197,'MG/L','',NULL,NULL,'nan')
,(5605,88,41,5,4,'',0.0205,'MG/L','',NULL,NULL,'nan'),(5606,88,41,5,1,'',0
.0205, 'MG/L','', NULL, NULL, 'nan'), (5607, 88, 41, 5, 4, '', 0.0197, 'MG/L', '', NULL,
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5,5,4,'',2.0720,'MG/L','',NULL,NULL,'nan'),(6658,63,5,5,1,'',2.0720,'MG/L' ,'',NULL,NULL,'nan'),(6659,62,5,5,4,'',3.2610,'MG/L','',NULL,NULL,'nan'),(6660,62,5,5,1,'',3.2610,'MG/L','',NULL,NULL,'nan'),(6661,62,5,5,4,'',3.264 0, 'MG/L', '', NULL, NULL, 'nan'), (6662,62,5,5,1,'',3.2640, 'MG/L','', NULL, NULL, 'nan'),(6663,61,5,5,4,'',3.2610,'MG/L','',NULL,NULL,'nan'),(6664,61,5,5,1, '',3.2610,'MG/L','',NULL,NULL,'nan'),(6665,61,5,5,4,'',3.2640,'MG/L','',NU LL, NULL, 'nan'), (6666,61,5,5,1,'',3.2640,'MG/L','',NULL,NULL,'nan'), (6667,6 0,5,5,4,'',2.1220,'MG/L','',NULL,NULL,'nan'),(6668,60,5,5,1,'',2.1220,'MG/ L','',NULL,NULL,'nan'),(6669,59,5,5,4,'',2.1680,'MG/L','',NULL,NULL,'nan') ,(6670,59,5,5,1,'',2.1680,'MG/L','',NULL,NULL,'nan'),(6671,58,5,5,4,'',2.1 200, 'MG/L', '', NULL, NULL, 'nan'), (6672, 58, 5, 5, 1, '', 2.1200, 'MG/L', '', NULL, NUL L, 'nan'), (6673,58,5,5,4,'',2.0820,'MG/L','',NULL,NULL,'nan'), (6674,58,5,5, 1,'',2.0820,'MG/L','',NULL,NULL,'nan'),(6675,57,5,5,4,'',2.1200,'MG/L','', NULL, NULL, 'nan'), (6676, 57, 5, 5, 1, '', 2.1200, 'MG/L', '', NULL, NULL, 'nan'), (6677 ,57,5,5,4,'',2.0820,'MG/L','',NULL,NULL,'nan'),(6678,57,5,5,1,'',2.0820,'M G/L','',NULL,NULL,'nan'),(6679,56,5,5,4,'',4.3210,'MG/L','GG',NULL,NULL,'A nalysis performed after holding time expired.'), (6680,56,5,5,1,'',4.3210,'MG/L','GG',NULL,NULL,'Analysis performed after holding time

expired.'), (6681,55,5,5,4,'',3.7410,'MG/L','',NULL,NULL,'nan'), (6682,55,5, 5,1,'',3.7410,'MG/L','',NULL,NULL,'nan'),(6683,55,5,5,4,'',3.7890,'MG/L',' ',NULL,NULL,'nan'),(6684,55,5,5,1,'',3.7890,'MG/L','',NULL,NULL,'nan'),(66 85,54,5,5,4,'',3.7410,'MG/L','',NULL,NULL,'nan'),(6686,54,5,5,1,'',3.7410, 'MG/L','', NULL, NULL, 'nan'), (6687,54,5,5,4,'',3.7890,'MG/L','',NULL,NULL,'n an'), (6688,54,5,5,1,'',3.7890,'MG/L','',NULL,NULL,'nan'), (6689,53,5,5,4,'' ,1.5920, 'MG/L','', NULL, NULL, 'nan'), (6690,53,5,5,1,'',1.5920, 'MG/L','', NULL NULL, 'nan'), (6691,52,5,5,4,'',2.4610,'MG/L','QQ',NULL,NULL,'nan'), (6692,5 2,5,5,1,'',2.4610,'MG/L','QQ',NULL,NULL,'nan'),(6693,51,5,5,4,'',1.6880,'M G/L','',NULL,NULL,'nan'),(6694,51,5,5,1,'',1.6880,'MG/L','',NULL,NULL,'nan '), (6695, 50, 5, 5, 4, '', 2.2030, 'MG/L', '', NULL, NULL, 'nan'), (6696, 50, 5, 5, 1, '', 2 .2030, 'MG/L','', NULL, NULL, 'nan'), (6697, 49, 5, 5, 4, '', 8.3570, 'MG/L', '', NULL, N ULL, 'nan'), (6698, 49, 5, 5, 1, '', 8.3570, 'MG/L', '', NULL, NULL, 'nan'), (6699, 48, 5, 5,4,'',2.4980,'MG/L','',NULL,NULL,'nan'),(6700,48,5,5,1,'',2.4980,'MG/L',' ',NULL,NULL,'nan'),(6701,47,5,5,4,'',2.2500,'MG/L','',NULL,NULL,'nan'),(67 02,47,5,5,1,'',2.2500,'MG/L','',NULL,NULL,'nan'),(6703,46,5,5,4,'',2.3410, 'MG/L','', NULL, NULL, 'nan'), (6704, 46, 5, 5, 1, '', 2.3410, 'MG/L', '', NULL, NULL, 'n an'), (6705, 46, 5, 5, 4, '', 2.3930, 'MG/L', '', NULL, NULL, 'nan'), (6706, 46, 5, 5, 1, '' ,2.3930, 'MG/L','',NULL,NULL, 'nan'),(6707,45,5,5,4,'',15.8100,'MG/L','',NUL L, NULL, 'nan'), (6708, 45, 5, 5, 1, '', 15.8100, 'MG/L', '', NULL, NULL, 'nan'), (6709, 4 4,5,5,4,'',2.3410,'MG/L','',NULL,NULL,'nan'),(6710,44,5,5,1,'',2.3410,'MG/ L','', NULL, NULL, 'nan'), (6711,44,5,5,4,'',2.3930,'MG/L','',NULL,NULL,'nan') ,(6712,44,5,5,1,'',2.3930,'MG/L','',NULL,NULL,'nan'),(6713,43,5,5,4,'',2.4 960, 'MG/L', '', NULL, NULL, 'nan'), (6714, 43, 5, 5, 1, '', 2.4960, 'MG/L', '', NULL, NUL L, 'nan'), (6715, 42, 5, 5, 4, '', 1.9270, 'MG/L', '', NULL, NULL, 'nan'), (6716, 42, 5, 5, 1,'',1.9270,'MG/L','',NULL,NULL,'nan'),(6717,41,5,5,4,'',1.3710,'MG/L','', NULL, NULL, 'nan'), (6718, 41, 5, 5, 1, '', 1.3710, 'MG/L', '', NULL, NULL, 'nan'), (6719 ,40,5,5,4,'',2.0130,'MG/L','',NULL,NULL,'nan'),(6720,40,5,5,1,'',2.0130,'M G/L', '', NULL, NULL, 'nan'), (6721, 39, 5, 5, 4, '', 2.5800, 'MG/L', '', NULL, NULL, 'nan')'), (6722, 39, 5, 5, 1, '', 2.5800, 'MG/L', '', NULL, NULL, 'nan'), (6723, 38, 5, 5, 4, '', 3 .1810, 'MG/L', 'QQ', NULL, NULL, 'nan'), (6724, 38, 5, 5, 1, '', 3.1810, 'MG/L', 'QQ', NU LL, NULL, 'nan'), (6725, 38, 5, 5, 4, '', 3.0730, 'MG/L', 'QQ', NULL, NULL, 'nan'), (6726 ,38,5,5,1,'',3.0730,'MG/L','QQ',NULL,NULL,'nan'),(6727,37,5,5,4,'',3.1810, L, 'nan'), (6729,37,5,5,4,'',3.0730,'MG/L','QQ',NULL,NULL,'nan'), (6730,37,5,

5,1,'',3.0730,'MG/L','QQ',NULL,NULL,'nan'),(6731,112,17,3,5,'',185.8000,'U MHOS/CM','',NULL,NULL,'nan'),(6732,112,17,3,2,'',185.8000,'UMHOS/CM','',NU LL, NULL, 'nan'), (6733,112,17,3,5,'',185.9000,'UMHOS/CM','',NULL,NULL,'nan') ,(6734,112,17,3,2,'',185.9000,'UMHOS/CM','',NULL,NULL,'nan'),(6735,111,17, 3,5,'',185.8000,'UMHOS/CM','',NULL,NULL,'nan'),(6736,111,17,3,2,'',185.800 0, 'UMHOS/CM', '', NULL, NULL, 'nan'), (6737, 111, 17, 3, 5, '', 185.9000, 'UMHOS/CM', ' ', NULL, NULL, 'nan'), (6738,111,17,3,2,'',185.9000,'UMHOS/CM','', NULL, NULL, 'n an'),(6739,110,17,3,5,'',188.0000,'UMHOS/CM','',NULL,NULL,'nan'),(6740,110 ,17,3,2,'',188.0000,'UMHOS/CM','',NULL,NULL,'nan'),(6741,109,17,3,5,'',196 .0000, 'UMHOS/CM','', NULL, NULL, 'nan'), (6742,109,17,3,2,'',196.0000,'UMHOS/C M','',NULL,NULL,'nan'),(6743,108,17,3,5,'',155.2000,'UMHOS/CM','',NULL,NUL L, 'nan'), (6744,108,17,3,2,'',155.2000,'UMHOS/CM','',NULL,NULL,'nan'), (6745 ,108,17,3,5,'',155.2000,'UMHOS/CM','',NULL,NULL,'nan'),(6746,108,17,3,2,'' ,155.2000, 'UMHOS/CM','', NULL, NULL, 'nan'), (6747,107,17,3,5,'',155.2000,'UMH OS/CM','',NULL,NULL,'nan'),(6748,107,17,3,2,'',155.2000,'UMHOS/CM','',NULL NULL, 'nan'), (6749,107,17,3,5,'',155.2000,'UMHOS/CM','',NULL,NULL,'nan'), (6750,107,17,3,2,'',155.2000,'UMHOS/CM','',NULL,NULL,'nan'),(6751,106,17,3, 5,'',150.3000,'UMHOS/CM','',NULL,NULL,'nan'),(6752,106,17,3,2,'',150.3000, 'UMHOS/CM','', NULL, NULL, 'nan'), (6753, 105, 17, 3, 5, '', 155.9000, 'UMHOS/CM', '', NULL, NULL, 'nan'), (6754, 105, 17, 3, 2, '', 155.9000, 'UMHOS/CM', '', NULL, NULL, 'nan '), (6755,104,17,3,5,'',121.4000,'UMHOS/CM','',NULL,NULL,'nan'), (6756,104,1 7,3,2,'',121.4000,'UMHOS/CM','',NULL,NULL,'nan'),(6757,104,17,3,5,'',121.4 000, 'UMHOS/CM','', NULL, NULL, 'nan'), (6758, 104, 17, 3, 2, '', 121.4000, 'UMHOS/CM' ,'',NULL,NULL,'nan'),(6759,103,17,3,5,'',121.4000,'UMHOS/CM','',NULL,NULL, 'nan'), (6760,103,17,3,2,'',121.4000,'UMHOS/CM','',NULL,NULL,'nan'), (6761,1 03,17,3,5,'',121.4000,'UMHOS/CM','',NULL,NULL,'nan'),(6762,103,17,3,2,'',1 21.4000, 'UMHOS/CM','', NULL, NULL, 'nan'), (6763, 102, 17, 3, 5, '', 187.6000, 'UMHOS /CM','',NULL,NULL,'nan'),(6764,102,17,3,2,'',187.6000,'UMHOS/CM','',NULL,N ULL, 'nan'), (6765, 101, 17, 3, 5, '', 160.7000, 'UMHOS/CM', '', NULL, NULL, 'nan'), (67 66,101,17,3,2,'',160.7000,'UMHOS/CM','',NULL,NULL,'nan'),(6767,100,17,3,5, '',164.4000,'UMHOS/CM','',NULL,NULL,'nan'),(6768,100,17,3,2,'',164.4000,'U MHOS/CM','', NULL, NULL, 'nan'), (6769, 99, 17, 3, 5, '', 191.7000, 'UMHOS/CM', '', NUL L, NULL, 'nan'), (6770,99,17,3,2,'',191.7000,'UMHOS/CM','',NULL,NULL,'nan'), (6771,98,17,3,5,'',187.2000,'UMHOS/CM','',NULL,NULL,'nan'),(6772,98,17,3,2, '',187.2000,'UMHOS/CM','',NULL,NULL,'nan'),(6773,97,17,3,5,'',172.4000,'UM HOS/CM','', NULL, NULL, 'nan'), (6774,97,17,3,2,'',172.4000,'UMHOS/CM','', NULL NULL, 'nan'), (6775, 96, 17, 3, 5, '', 74.4000, 'UMHOS/CM', '', NULL, NULL, 'nan'), (67 76,96,17,3,2,'',74.4000,'UMHOS/CM','',NULL,NULL,'nan'),(6777,95,17,3,5,'', 168.3000, 'UMHOS/CM','', NULL, NULL, 'nan'), (6778, 95, 17, 3, 2, '', 168.3000, 'UMHOS /CM','',NULL,NULL,'nan'),(6779,94,17,3,5,'',159.4000,'UMHOS/CM','',NULL,NU LL, 'nan'), (6780,94,17,3,2,'',159.4000,'UMHOS/CM','',NULL,NULL,'nan'), (6781 ,94,17,3,5,'',159.3000,'UMHOS/CM','',NULL,NULL,'nan'),(6782,94,17,3,2,'',1 59.3000, 'UMHOS/CM','', NULL, NULL, 'nan'), (6783, 93, 17, 3, 5, '', 197.8000, 'UMHOS/ CM','',NULL,NULL,'nan'),(6784,93,17,3,2,'',197.8000,'UMHOS/CM','',NULL,NUL L, 'nan'), (6785,92,17,3,5,'',159.4000,'UMHOS/CM','',NULL,NULL,'nan'), (6786, 92,17,3,2,'',159.4000,'UMHOS/CM','',NULL,NULL,'nan'),(6787,92,17,3,5,'',15 9.3000, 'UMHOS/CM','', NULL, NULL, 'nan'), (6788, 92, 17, 3, 2, '', 159.3000, 'UMHOS/C M','',NULL,NULL,'nan'),(6789,91,17,3,5,'',152.4000,'UMHOS/CM','',NULL,NULL ', 'nan'), (6790,91,17,3,2,'',152.4000,'UMHOS/CM','',NULL,NULL,'nan'), (6791,9 0,17,3,5,'',166.4000,'UMHOS/CM','',NULL,NULL,'nan'),(6792,90,17,3,2,'',166 .4000, 'UMHOS/CM','', NULL, NULL, 'nan'), (6793,89,17,3,5,'',179.2000, 'UMHOS/CM ','',NULL,NULL,'nan'),(6794,89,17,3,2,'',179.2000,'UMHOS/CM','',NULL,NULL, 'nan'),(6795,89,17,3,5,'',179.5000,'UMHOS/CM','',NULL,NULL,'nan'),(6796,89 ,17,3,2,'',179.5000,'UMHOS/CM','',NULL,NULL,'nan'),(6797,88,17,3,5,'',179.

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L, NULL, 'nan'), (6992,92,36,5,1,'',3.2640,'MG/L','',NULL,NULL,'nan'), (6993,9
1,36,5,4,'',2.1680,'MG/L','',NULL,NULL,'nan'),(6994,91,36,5,1,'',2.1680,'M
G/L','',NULL,NULL,'nan'),(6995,90,36,5,4,'',2.1220,'MG/L','',NULL,NULL,'na
n'),(6996,90,36,5,1,'',2.1220,'MG/L','',NULL,NULL,'nan'),(6997,89,36,5,4,'
',2.1200,'MG/L','',NULL,NULL,'nan'),(6998,89,36,5,1,'',2.1200,'MG/L','',NU
LL, NULL, 'nan'), (6999, 89, 36, 5, 4, '', 2.0820, 'MG/L', '', NULL, NULL, 'nan'), (7000,
89,36,5,1,'',2.0820,'MG/L','',NULL,NULL,'nan'),(7001,88,36,5,4,'',2.1200,'
MG/L','',NULL,NULL,'nan'),(7002,88,36,5,1,'',2.1200,'MG/L','',NULL,NULL,'n
an'), (7003,88,36,5,4,'',2.0820,'MG/L','',NULL,NULL,'nan'), (7004,88,36,5,1,
'',2.0820,'MG/L','',NULL,NULL,'nan'),(7005,87,36,5,4,'',4.3210,'MG/L','GG'
, NULL, NULL, 'Analysis performed after holding time
```

expired.'), (7006,87,36,5,1,'',4.3210,'MG/L','GG',NULL,NULL,'Analysis performed after holding time expired.'), (7007,86,36,5,4,'',2.3910,'MG/L','',NULL,NULL,'nan'), (7008,86,3 6,5,1,'',2.3910,'MG/L','',NULL,NULL,'nan'),(7009,85,36,5,4,'',3.7410,'MG/L ','',NULL,NULL,'nan'),(7010,85,36,5,1,'',3.7410,'MG/L','',NULL,NULL,'nan') ,(7011,85,36,5,4,'',3.7890,'MG/L','',NULL,NULL,'nan'),(7012,85,36,5,1,'',3 .7890, 'MG/L','', NULL, NULL, 'nan'), (7013,84,36,5,4,'',3.7410,'MG/L','',NULL, NULL, 'nan'), (7014,84,36,5,1,'',3.7410,'MG/L','',NULL,NULL,'nan'), (7015,84, 36,5,4,'',3.7890,'MG/L','',NULL,NULL,'nan'),(7016,84,36,5,1,'',3.7890,'MG/ L','',NULL,NULL,'nan'),(7017,83,36,5,4,'',1.5920,'MG/L','',NULL,NULL,'nan'),(7018,83,36,5,1,'',1.5920,'MG/L','',NULL,NULL,'nan'),(7019,82,36,5,4,'', 1.4040, 'MG/L','', NULL, NULL, 'nan'), (7020, 82, 36, 5, 1, '', 1.4040, 'MG/L', '', NULL NULL, 'nan'), (7021,82,36,5,4,'',1.4960,'MG/L','',NULL,NULL, 'nan'), (7022,82 ,36,5,1,'',1.4960,'MG/L','',NULL,NULL,'nan'),(7023,81,36,5,4,'',1.4040,'MG /L','',NULL,NULL,'nan'),(7024,81,36,5,1,'',1.4040,'MG/L','',NULL,NULL,'nan '),(7025,81,36,5,4,'',1.4960,'MG/L','',NULL,NULL,'nan'),(7026,81,36,5,1,'' ,1.4960, 'MG/L','', NULL, NULL, 'nan'), (7027,80,36,5,4,'',2.1170,'MG/L','', NUL L, NULL, 'nan'), (7028, 80, 36, 5, 1, '', 2.1170, 'MG/L', '', NULL, NULL, 'nan'), (7029, 7 9,36,5,4,'',1.7020,'MG/L','',NULL,NULL,'nan'),(7030,79,36,5,1,'',1.7020,'M G/L', '', NULL, NULL, 'nan'), (7031, 78, 36, 5, 4, '', 2.4230, 'MG/L', '', NULL, NULL, 'nan'),(7032,78,36,5,1,'',2.4230,'MG/L','',NULL,NULL,'nan'),(7033,78,36,5,4,' ',2.2840,'MG/L','',NULL,NULL,'nan'),(7034,78,36,5,1,'',2.2840,'MG/L','',NU LL, NULL, 'nan'), (7035, 77, 36, 5, 4, '', 2.4230, 'MG/L', '', NULL, NULL, 'nan'), (7036, 77,36,5,1,'',2.4230,'MG/L','',NULL,NULL,'nan'),(7037,77,36,5,4,'',2.2840,' MG/L','', NULL, NULL, 'nan'), (7038, 77, 36, 5, 1, '', 2.2840, 'MG/L', '', NULL, NULL, 'n an'), (7039,76,36,5,4,'',2.4920,'MG/L','',NULL,NULL,'nan'), (7040,76,36,5,1, '',2.4920,'MG/L','',NULL,NULL,'nan'),(7041,75,36,5,4,'',2.2070,'MG/L','',N ULL, NULL, 'nan'), (7042, 75, 36, 5, 1, '', 2.2070, 'MG/L', '', NULL, NULL, 'nan'), (7043 ,74,36,5,4,'',7.7610,'MG/L','QQ',NULL,NULL,'nan'),(7044,74,36,5,1,'',7.761 0,'MG/L','QQ',NULL,NULL,'nan'),(7045,74,36,5,4,'',7.4450,'MG/L','',NULL,NU LL, 'nan'), (7046,74,36,5,1,'',7.4450,'MG/L','',NULL,NULL,'nan'), (7047,73,36 ,5,4,'',7.7610,'MG/L','QQ',NULL,NULL,'nan'),(7048,73,36,5,1,'',7.7610,'MG/ L', 'QQ', NULL, NULL, 'nan'), (7049, 73, 36, 5, 4, '', 7.4450, 'MG/L', '', NULL, NULL, 'na n'),(7050,73,36,5,1,'',7.4450,'MG/L','',NULL,NULL,'nan'),(7051,72,36,5,4,' ',1.9160,'MG/L','',NULL,NULL,'nan'),(7052,72,36,5,1,'',1.9160,'MG/L','',NU LL, NULL, 'nan'), (7053, 71, 36, 5, 4, '', 1.4610, 'MG/L', '', NULL, NULL, 'nan'), (7054, 71,36,5,1,'',1.4610,'MG/L','',NULL,NULL,'nan'),(7055,70,36,5,4,'',1.5120,' MG/L','',NULL,NULL,'nan'),(7056,70,36,5,1,'',1.5120,'MG/L','',NULL,NULL,'n an'), (7057,69,36,5,4,'',1.1310,'MG/L','',NULL,NULL,'nan'), (7058,69,36,5,1, '',1.1310,'MG/L','',NULL,NULL,'nan'),(7059,68,36,5,4,'',1.7820,'MG/L','',N ULL, NULL, 'nan'), (7060, 68, 36, 5, 1, '', 1.7820, 'MG/L', '', NULL, NULL, 'nan'), (7061 ,67,36,5,4,'',2.0280,'MG/L','',NULL,NULL,'nan'),(7062,67,36,5,1,'',2.0280, 'MG/L','',NULL,NULL,'nan'),(7063,66,36,5,4,'',2.3910,'MG/L','',NULL,NULL,' nan'), (7064,66,36,5,1,'',2.3910,'MG/L','',NULL,NULL,'nan'), (7065,65,36,5,4 '',8.2740,'MG/L','QQ',NULL,NULL,'nan'),(7066,65,36,5,1,'',8.2740,'MG/L',' QQ', NULL, NULL, 'nan'), (7067, 64, 36, 5, 4, '', 3.3590, 'MG/L', '', NULL, NULL, 'nan'), (7068,64,36,5,1,'',3.3590,'MG/L','',NULL,NULL,'nan'),(7069,63,36,5,4,'',2. 0720, 'MG/L', '', NULL, NULL, 'nan'), (7070,63,36,5,1,'',2.0720,'MG/L','',NULL,N ULL, 'nan'), (7071,62,36,5,4,'',3.2610,'MG/L','',NULL,NULL,'nan'), (7072,62,3 6,5,1,'',3.2610,'MG/L','',NULL,NULL,'nan'),(7073,62,36,5,4,'',3.2640,'MG/L ','',NULL,NULL,'nan'),(7074,62,36,5,1,'',3.2640,'MG/L','',NULL,NULL,'nan') ,(7075,61,36,5,4,'',3.2610,'MG/L','',NULL,NULL,'nan'),(7076,61,36,5,1,'',3 .2610, 'MG/L', '', NULL, NULL, 'nan'), (7077, 61, 36, 5, 4, '', 3.2640, 'MG/L', '', NULL,

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36,5,4,'',2.1220,'MG/L','',NULL,NULL,'nan'),(7080,60,36,5,1,'',2.1220,'MG/ L','',NULL,NULL,'nan'),(7081,59,36,5,4,'',2.1680,'MG/L','',NULL,NULL,'nan'),(7082,59,36,5,1,'',2.1680,'MG/L','',NULL,NULL,'nan'),(7083,58,36,5,4,'', 2.1200, 'MG/L','', NULL, NULL, 'nan'), (7084, 58, 36, 5, 1, '', 2.1200, 'MG/L', '', NULL NULL, 'nan'), (7085,58,36,5,4,'',2.0820,'MG/L','',NULL,NULL, 'nan'), (7086,58 ,36,5,1,'',2.0820,'MG/L','',NULL,NULL,'nan'),(7087,57,36,5,4,'',2.1200,'MG /L','',NULL,NULL,'nan'),(7088,57,36,5,1,'',2.1200,'MG/L','',NULL,NULL,'nan '), (7089,57,36,5,4,'',2.0820,'MG/L','',NULL,NULL,'nan'), (7090,57,36,5,1,'' ,2.0820, 'MG/L','', NULL, NULL, 'nan'), (7091,56,36,5,4,'',4.3210,'MG/L','GG',N ULL, NULL, 'Analysis performed after holding time expired.'), (7092,56,36,5,1,'',4.3210,'MG/L','GG',NULL,NULL,'Analysis performed after holding time expired.'), (7093,55,36,5,4,'',3.7410,'MG/L','',NULL,NULL,'nan'), (7094,55,3 6,5,1,'',3.7410,'MG/L','',NULL,NULL,'nan'),(7095,55,36,5,4,'',3.7890,'MG/L ','',NULL,NULL,'nan'),(7096,55,36,5,1,'',3.7890,'MG/L','',NULL,NULL,'nan') ,(7097,54,36,5,4,'',3.7410,'MG/L','',NULL,NULL,'nan'),(7098,54,36,5,1,'',3 .7410, 'MG/L','', NULL, NULL, 'nan'), (7099,54,36,5,4,'',3.7890, 'MG/L','', NULL, NULL, 'nan'), (7100,54,36,5,1,'',3.7890,'MG/L','',NULL,NULL,'nan'), (7101,53, 36,5,4,'',1.5920,'MG/L','',NULL,NULL,'nan'),(7102,53,36,5,1,'',1.5920,'MG/ L','',NULL,NULL,'nan'),(7103,52,36,5,4,'',2.4610,'MG/L','QQ',NULL,NULL,'na n'), (7104,52,36,5,1,'',2.4610,'MG/L','QQ',NULL,NULL,'nan'), (7105,51,36,5,4 ,'',1.6880,'MG/L','',NULL,NULL,'nan'),(7106,51,36,5,1,'',1.6880,'MG/L','', NULL, NULL, 'nan'), (7107,50,36,5,4,'',2.2030,'MG/L','',NULL,NULL,'nan'), (710 8,50,36,5,1,'',2.2030,'MG/L','',NULL,NULL,'nan'),(7109,49,36,5,4,'',8.3570 ,'MG/L','',NULL,NULL,'nan'),(7110,49,36,5,1,'',8.3570,'MG/L','',NULL,NULL, 'nan'),(7111,48,36,5,4,'',2.4980,'MG/L','',NULL,NULL,'nan'),(7112,48,36,5, 1,'',2.4980,'MG/L','',NULL,NULL,'nan'),(7113,47,36,5,4,'',2.2500,'MG/L','' NULL, NULL, 'nan'), (7114, 47, 36, 5, 1, '', 2.2500, 'MG/L', '', NULL, NULL, 'nan'), (71 15,46,36,5,4,'',2.3410,'MG/L','',NULL,NULL,'nan'),(7116,46,36,5,1,'',2.341 0, 'MG/L', '', NULL, NULL, 'nan'), (7117, 46, 36, 5, 4, '', 2.3930, 'MG/L', '', NULL, NULL ,'nan'),(7118,46,36,5,1,'',2.3930,'MG/L','',NULL,NULL,'nan'),(7119,45,36,5 ,4,'',15.8100,'MG/L','',NULL,NULL,'nan'),(7120,45,36,5,1,'',15.8100,'MG/L' ,'',NULL,NULL,'nan'),(7121,44,36,5,4,'',2.3410,'MG/L','',NULL,NULL,'nan'), (7122,44,36,5,1,'',2.3410,'MG/L','',NULL,NULL,'nan'),(7123,44,36,5,4,'',2. 3930, 'MG/L', '', NULL, NULL, 'nan'), (7124, 44, 36, 5, 1, '', 2.3930, 'MG/L', '', NULL, N ULL, 'nan'), (7125, 43, 36, 5, 4, '', 2.4960, 'MG/L', '', NULL, NULL, 'nan'), (7126, 43, 3 6,5,1,'',2.4960,'MG/L','',NULL,NULL,'nan'),(7127,42,36,5,4,'',1.9270,'MG/L ','',NULL,NULL,'nan'),(7128,42,36,5,1,'',1.9270,'MG/L','',NULL,NULL,'nan') ,(7129,41,36,5,4,'',1.3710,'MG/L','',NULL,NULL,'nan'),(7130,41,36,5,1,'',1 .3710, 'MG/L','', NULL, NULL, 'nan'), (7131, 40, 36, 5, 4, '', 2.0130, 'MG/L', '', NULL, NULL, 'nan'), (7132, 40, 36, 5, 1, '', 2.0130, 'MG/L', '', NULL, NULL, 'nan'), (7133, 39, 36,5,4,'',2.5800,'MG/L','',NULL,NULL,'nan'),(7134,39,36,5,1,'',2.5800,'MG/ L','',NULL,NULL,'nan'),(7135,38,36,5,4,'',3.1810,'MG/L','QQ',NULL,NULL,'na n'),(7136,38,36,5,1,'',3.1810,'MG/L','QQ',NULL,NULL,'nan'),(7137,38,36,5,4 '',3.0730,'MG/L','QQ',NULL,NULL,'nan'),(7138,38,36,5,1,'',3.0730,'MG/L',' QQ', NULL, NULL, 'nan'), (7139, 37, 36, 5, 4, '', 3.1810, 'MG/L', 'QQ', NULL, NULL, 'nan'),(7140,37,36,5,1,'',3.1810,'MG/L','QQ',NULL,NULL,'nan'),(7141,37,36,5,4,' ',3.0730,'MG/L','QQ',NULL,NULL,'nan'),(7142,37,36,5,1,'',3.0730,'MG/L','QQ ',NULL,NULL,'nan'),(7143,112,48,3,5,'',185.8000,'UMHOS/CM','',NULL,NULL,'n an'), (7144,112,48,3,2,'',185.8000,'UMHOS/CM','',NULL,NULL,'nan'), (7145,112 ,48,3,5,'',185.9000,'UMHOS/CM','',NULL,NULL,'nan'),(7146,112,48,3,2,'',185 .9000, 'UMHOS/CM','', NULL, NULL, 'nan'), (7147,111,48,3,5,'',185.8000,'UMHOS/C M','', NULL, NULL, 'nan'), (7148,111,48,3,2,'',185.8000,'UMHOS/CM','', NULL, NUL L, 'nan'), (7149,111,48,3,5,'',185.9000,'UMHOS/CM','',NULL,NULL,'nan'), (7150

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performed after holding time
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4,3,5,'',6.2100,'SU','',NULL,NULL,'nan'),(15108,39,44,3,2,'',6.2100,'SU','
', NULL, NULL, 'nan'), (15109, 38, 44, 3, 5, '', 7.2800, 'SU', '', NULL, NULL, 'nan'), (15
110,38,44,3,2,'',7.2800,'SU','',NULL,NULL,'nan'),(15111,38,44,3,5,'',7.280
0,'SU','',NULL,NULL,'nan'),(15112,38,44,3,2,'',7.2800,'SU','',NULL,NULL,'n
an');
/*!40000 ALTER TABLE `measure` ENABLE KEYS */;
UNLOCK TABLES;
-- Table structure for table `method`
DROP TABLE IF EXISTS `method`;
/*!40101 SET @saved cs client
                                    = @@character set client */;
```

```
/*!50503 SET character set client = utf8mb4 */;
CREATE TABLE `method` (
  `MethodId` int NOT NULL AUTO INCREMENT,
  `Method` varchar(255) DEFAULT NULL,
 PRIMARY KEY (`MethodId`)
) ENGINE=InnoDB AUTO INCREMENT=8 DEFAULT CHARSET=utf8mb4
COLLATE=utf8mb4 0900 ai ci;
/*!40101 SET character set client = @saved cs client */;
-- Dumping data for table `method`
LOCK TABLES `method` WRITE;
/*!40000 ALTER TABLE `method` DISABLE KEYS */;
INSERT INTO `method` VALUES (1,'L03 '),(2,'L02 '),(3,'F02 '),(4,'F01
'), (5, 'L01 '), (6, 'D01 ');
/*!40000 ALTER TABLE `method` ENABLE KEYS */;
UNLOCK TABLES;
-- Table structure for table `parameter`
DROP TABLE IF EXISTS `parameter`;
/*!40101 SET @saved cs client = @@character set client */;
/*!50503 SET character set client = utf8mb4 */;
CREATE TABLE `parameter` (
  `ParameterId` int NOT NULL AUTO INCREMENT,
  `Parameter` varchar(255) DEFAULT NULL,
  PRIMARY KEY (`ParameterId`)
) ENGINE=InnoDB AUTO INCREMENT=63 DEFAULT CHARSET=utf8mb4
COLLATE=utf8mb4 0900 ai ci;
/*!40101 SET character set client = @saved cs client */;
-- Dumping data for table `parameter`
LOCK TABLES `parameter` WRITE;
/*!40000 ALTER TABLE `parameter` DISABLE KEYS */;
INSERT INTO `parameter` VALUES
(1, 'CHLA'), (2, 'CLW'), (3, 'DO'), (4, 'DO SAT P'), (5, 'DOC'), (6, 'FSS'), (7, 'HARDN
ESS'), (8, 'IBOD5W'), (9, 'NH4F'), (10, 'NH4W'), (11, 'NO23F'), (12, 'NO23W'), (13, 'P
H'), (14, 'PO4F'), (15, 'POC'), (16, 'SALINITY'), (17, 'SPCOND'), (18, 'SSC %FINE'),
(19, 'SSC_TOTAL'), (20, 'TALK'), (21, 'TDN'), (22, 'TDP'), (23, 'TKNW'), (24, 'TN'), (
25, 'TOC'), (26, 'TP'), (27, 'TSS'), (28, 'TURB NTU'), (29, 'WTEMP'), (32, 'CHLA'), (3
3,'CLW'),(34,'DO'),(35,'DO SAT P'),(36,'DOC'),(37,'FSS'),(38,'HARDNESS'),(
39, 'IBOD5W'), (40, 'NH4F'), (41, 'NH4W'), (42, 'NO23F'), (43, 'NO23W'), (44, 'PH'), (
45, 'PO4F'), (46, 'POC'), (47, 'SALINITY'), (48, 'SPCOND'), (49, 'SSC %FINE'), (50, '
SSC TOTAL'), (51, 'TALK'), (52, 'TDN'), (53, 'TDP'), (54, 'TKNW'), (55, 'TN'), (56, 'T
OC'), (57, 'TP'), (58, 'TSS'), (59, 'TURB NTU'), (60, 'WTEMP');
/*!40000 ALTER TABLE `parameter` ENABLE KEYS */;
UNLOCK TABLES;
```

```
-- Table structure for table `raw water quality`
DROP TABLE IF EXISTS `raw_water_quality`;
/*!40101 SET @saved cs client = @@character set client */;
/*!50503 SET character set client = utf8mb4 */;
CREATE TABLE `raw water quality` (
  `FIPS` int DEFAULT NULL,
  `EventId` int DEFAULT NULL,
  `Cruise` text,
  `Program` text,
  `Project` text,
  `Agency` text,
  `Source` text,
  `Station` int DEFAULT NULL,
  `SampleDate` text,
  `SampleTime` text,
  `TotalDepth` text,
  `UpperPycnocline` text, `LowerPycnocline` text,
  `Depth` int DEFAULT NULL,
  `Layer` text,
  `SampleType` text,
  `SampleReplicateType` text,
  `Parameter` text,
  `Qualifier` text,
  `MeasureValue` double DEFAULT NULL,
  `Unit` text,
  `Method` text,
  `Lab` text,
  `Problem` text,
  `PrecisionPC` text,
  `BiasPC` text,
  `Details` text,
  `Latitude` double DEFAULT NULL,
  `Longitude` double DEFAULT NULL,
  `TierLevel` text
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4 0900 ai ci;
/*!40101 SET character set client = @saved cs client */;
-- Dumping data for table `raw water quality`
LOCK TABLES `raw water quality` WRITE;
/*!40000 ALTER TABLE `raw water quality` DISABLE KEYS */;
INSERT INTO `raw water quality` VALUES
(10001,610432,'NTN021','NTWQM','NTN','DEDNREC
','DEDNREC',302031,'1/28/2021','10:36:00','','','',0,'S
','HVIC','S1','CHLA','',2.0336,'UG/L','L03
','DEDNREC','','','nan',38.84972,-
75.67333, 'T3'), (10001,610433, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
```

```
','DEDNREC',302031,'2/2/2021','10:15:00','','','',0,'S
','HVIC','S1','CHLA','',3.7036,'UG/L','L03
','DEDNREC','','','nan',38.84972,-
75.67333, 'T3'), (10001,610434, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
','DEDNREC',302031,'2/24/2021','9:17:00','','','',0,'S
','HVIC','S1','CHLA','',1.971,'UG/L','L03
','DEDNREC','','','nan',38.84972,-
75.67333, 'T3'), (10001,610435, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
','DEDNREC',302031,'3/10/2021','9:03:00','','','',0,'S
','HVIC','S1','CHLA','',0.9905,'UG/L','L03
','DEDNREC','','','nan',38.84972,-
75.67333, 'T3'), (10001,610436, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
','DEDNREC',302031,'4/20/2021','8:41:00','','','',0,'S
','HVIC','S1','CHLA','',12.3134,'UG/L','L03
','DEDNREC','','','nan',38.84972,-
75.67333, 'T3'), (10001,610437, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
','DEDNREC',302031,'5/24/2021','8:29:00','','','',0,'S
','HVIC','S1','CHLA','',1.5218,'UG/L','L03
','DEDNREC','','','nan',38.84972,-
75.67333, 'T3'), (10001,610438, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
','DEDNREC',302031,'6/15/2021','9:44:00','','','',0,'S
','HVIC','S1','CHLA','',1.7169,'UG/L','L03
','DEDNREC','','','nan',38.84972,-
75.67333, 'T3'), (10001,610439, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
','DEDNREC',302031,'7/19/2021','8:24:00','','','',0,'S
','HVIC','S1','CHLA','',17.6588,'UG/L','L03
','DEDNREC','','','nan',38.84972,-
75.67333, 'T3'), (10001,610440, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
','DEDNREC',302031,'8/25/2021','8:02:00','','','',0,'S
','HVIC','S1','CHLA','',1.9688,'UG/L','L03
','DEDNREC','','','nan',38.84972,-
75.67333, 'T3'), (10001,610441, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
','DEDNREC',302031,'9/2/2021','8:04:00','','','',0,'S
','HVIC','S1','CHLA','',8.2509,'UG/L','L03
','DEDNREC','','','nan',38.84972,-
75.67333, 'T3'), (10001,610442, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
','DEDNREC',302031,'9/22/2021','9:14:00','','','',0,'S
','HVIC','FS1','CHLA','',1.5396,'UG/L','L03
','DEDNREC','','','nan',38.84972,-
75.67333, 'T3'), (10001,610442, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
','DEDNREC',302031,'9/22/2021','9:14:00','','','',0,'S
','HVIC','FS2','CHLA','',6.4483,'UG/L','L03
','DEDNREC','','','nan',38.84972,-
75.67333, 'T3'), (10001,621707, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
','DEDNREC',302031,'10/18/2021','9:37:00','','','',0,'S
','HVIC','S1','CHLA','',4.2731,'UG/L','L03
','DEDNREC','','','nan',38.84972,-
75.67333, 'T3'), (10001,621708, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
','DEDNREC',302031,'11/8/2021','7:25:00','','','',0,'S
 ,'HVIC','S1','CHLA','',0.7233,'UG/L','L03
','DEDNREC','','','nan',38.84972,-
75.67333, 'T3'), (10001,621709, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
','DEDNREC',302031,'12/15/2021','8:44:00','','','',0,'S
','HVIC','S1','CHLA','',2.609,'UG/L','L03
```

```
','DEDNREC','','','nan',38.84972,-
75.67333, 'T3'), (10001,621710, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
','DEDNREC',302031,'1/26/2022','9:44:00','','','',0,'S
','HVIC','S1','CHLA','',1.5729,'UG/L','L03
','DEDNREC','','','nan',38.84972,-
75.67333, 'T3'), (10001,621711, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
','DEDNREC',302031,'2/23/2022','8:10:00','','','',0,'S
','HVIC','S1','CHLA','',14.1708,'UG/L','L03
','DEDNREC','','','nan',38.84972,-
75.67333, 'T3'), (10001,621712, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
','DEDNREC',302031,'3/21/2022','7:52:00','','','',0,'S
','HVIC','FS1','CHLA','',2.0075,'UG/L','L03
','DEDNREC','','','nan',38.84972,-
75.67333, 'T3'), (10001,621712, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
','DEDNREC',302031,'3/21/2022','7:52:00','','','',0,'S
','HVIC','FS2','CHLA','',2.3209,'UG/L','L03
','DEDNREC','','','nan',38.84972,-
75.67333, 'T3'), (10001,621713, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
','DEDNREC',302031,'4/7/2022','8:14:00','','','',0,'S
','HVIC','S1','CHLA','',4.6451,'UG/L','L03
','DEDNREC','','','nan',38.84972,-
75.67333, 'T3'), (10001,621714, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
','DEDNREC',302031,'4/27/2022','8:30:00','','','',0,'S
','HVIC','S1','CHLA','',2.4521,'UG/L','L03
','DEDNREC','','','nan',38.84972,-
75.67333, 'T3'), (10001,621715, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
','DEDNREC',302031,'5/18/2022','8:02:00','','','',0,'S
','HVIC','S1','CHLA','',1.532,'UG/L','L03
','DEDNREC','','','nan',38.84972,-
75.67333, 'T3'), (10001,621716, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
','DEDNREC',302031,'6/15/2022','8:18:00','','','',0,'S
','HVIC','S1','CHLA','',5.6378,'UG/L','L03
','DEDNREC','','','nan',38.84972,-
75.67333, 'T3'), (10001,621717, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
','DEDNREC',302031,'7/27/2022','11:45:00','','','',0,'S
','HVIC','S1','CHLA','',1.8727,'UG/L','L03
','DEDNREC','','','nan',38.84972,-
75.67333, 'T3'), (10001,621718, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
','DEDNREC',302031,'8/24/2022','7:35:00','','','',0,'S
','HVIC','S1','CHLA','',5.565,'UG/L','L03
','DEDNREC','','','nan',38.84972,-
75.67333, 'T3'), (10001,621719, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
','DEDNREC',302031,'9/29/2022','9:43:00','','','',0,'S
','HVIC','S1','CHLA','',2.4251,'UG/L','L03
','DEDNREC','','','nan',38.84972,-
75.67333, 'T3'), (10001,610442, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
','DEDNREC',302031,'9/22/2021','9:14:00','','','',0,'S
','HVIC','FS1','CLW','',14.117,'MG/L','L02
','DEDNREC','','','nan',38.84972,-
75.67333, 'T3'), (10001,610442, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
','DEDNREC',302031,'9/22/2021','9:14:00','','','',0,'S
','HVIC','FS2','CLW','',13.954,'MG/L','L02
','DEDNREC','','','nan',38.84972,-
75.67333, 'T3'), (10001,610441, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
```

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','DEDNREC',302031,'9/2/2021','8:04:00','','','',0,'S
','HVIC','S1','CLW','',5.754,'MG/L','L02
','DEDNREC','','','nan',38.84972,-
75.67333, 'T3'), (10001,610440, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
','DEDNREC',302031,'8/25/2021','8:02:00','','','',0,'S
','HVIC','S1','CLW','',10.81,'MG/L','L02
','DEDNREC','','','nan',38.84972,-
75.67333, 'T3'), (10001,610439, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
','DEDNREC',302031,'7/19/2021','8:24:00','','','',0,'S
','HVIC','S1','CLW','',24.414,'MG/L','L02
','DEDNREC','','','nan',38.84972,-
75.67333, 'T3'), (10001,610436, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
','DEDNREC',302031,'4/20/2021','8:41:00','','','',0,'S
','HVIC','S1','CLW','',13.673,'MG/L','L02
','DEDNREC','','','nan',38.84972,-
75.67333, 'T3'), (10001,610437, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
','DEDNREC',302031,'5/24/2021','8:29:00','','','',0,'S
','HVIC','S1','CLW','',14.254,'MG/L','L02
','DEDNREC','','','nan',38.84972,-
75.67333, 'T3'), (10001,610438, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
','DEDNREC',302031,'6/15/2021','9:44:00','','','',0,'S
','HVIC','S1','CLW','',14.739,'MG/L','L02
','DEDNREC','','','nan',38.84972,-
75.67333, 'T3'), (10001,610435, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
','DEDNREC',302031,'3/10/2021','9:03:00','','','',0,'S
','HVIC','S1','CLW','',13.697,'MG/L','L02
','DEDNREC','','','nan',38.84972,-
75.67333, 'T3'), (10001,610434, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
','DEDNREC',302031,'2/24/2021','9:17:00','','','',0,'S
','HVIC','S1','CLW','',9.461,'MG/L','L02
','DEDNREC','','','nan',38.84972,-
75.67333, 'T3'), (10001,610433, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
','DEDNREC',302031,'2/2/2021','10:15:00','','','',0,'S
','HVIC','S1','CLW','',16.753,'MG/L','L02
','DEDNREC','','','nan',38.84972,-
75.67333, 'T3'), (10001,610432, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
','DEDNREC',302031,'1/28/2021','10:36:00','','','',0,'S
','HVIC','S1','CLW','',14.705,'MG/L','L02
','DEDNREC','','','nan',38.84972,-
75.67333, 'T3'), (10001,621718, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
','DEDNREC',302031,'8/24/2022','7:35:00','','','',0,'S
','HVIC','S1','CLW','',15.295,'MG/L','L02
','DEDNREC','','','nan',38.84972,-
75.67333, 'T3'), (10001,621717, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
','DEDNREC',302031,'7/27/2022','11:45:00','','','',0,'S
','HVIC','S1','CLW','',14.632,'MG/L','L02
','DEDNREC','','','nan',38.84972,-
75.67333, 'T3'), (10001,621716, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
','DEDNREC',302031,'6/15/2022','8:18:00','','','',0,'S
 ,'HVIC','S1','CLW','',8.533,'MG/L','L02
','DEDNREC','','','nan',38.84972,-
75.67333, 'T3'), (10001,621715, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
','DEDNREC',302031,'5/18/2022','8:02:00','','','',0,'S
','HVIC','S1','CLW','',14.442,'MG/L','L02
```

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','DEDNREC','','','nan',38.84972,-
75.67333, 'T3'), (10001,621714, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
','DEDNREC',302031,'4/27/2022','8:30:00','','','',0,'S
','HVIC','S1','CLW','',13.781,'MG/L','L02
','DEDNREC','','','nan',38.84972,-
75.67333, 'T3'), (10001,621713, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
','DEDNREC',302031,'4/7/2022','8:14:00','','','',0,'S
','HVIC','S1','CLW','',10.844,'MG/L','L02
','DEDNREC','','','nan',38.84972,-
75.67333, 'T3'), (10001,621712, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
','DEDNREC',302031,'3/21/2022','7:52:00','','','',0,'S
','HVIC','FS2','CLW','',14.254,'MG/L','L02
','DEDNREC','','','nan',38.84972,-
75.67333, 'T3'), (10001,621712, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
','DEDNREC',302031,'3/21/2022','7:52:00','','','',0,'S
','HVIC','FS1','CLW','',14.306,'MG/L','L02
','DEDNREC','','','nan',38.84972,-
75.67333, 'T3'), (10001,621711, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
','DEDNREC',302031,'2/23/2022','8:10:00','','','',0,'S
','HVIC','S1','CLW','',15.37,'MG/L','L02
','DEDNREC','','','nan',38.84972,-
75.67333, 'T3'), (10001,621710, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
','DEDNREC',302031,'1/26/2022','9:44:00','','','',0,'S
','HVIC','S1','CLW','',14.245,'MG/L','L02
','DEDNREC','','','nan',38.84972,-
75.67333, 'T3'), (10001,621709, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
','DEDNREC',302031,'12/15/2021','8:44:00','','','',0,'S
','HVIC','S1','CLW','',11.469,'MG/L','L02
','DEDNREC','','','nan',38.84972,-
75.67333, 'T3'), (10001,621708, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
','DEDNREC',302031,'11/8/2021','7:25:00','','','',0,'S
','HVIC','S1','CLW','',15.858,'MG/L','L02
','DEDNREC','','','nan',38.84972,-
75.67333, 'T3'), (10001,621707, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
','DEDNREC',302031,'10/18/2021','9:37:00','','','',0,'S
','HVIC','S1','CLW','',16.054,'MG/L','L02
','DEDNREC','','','nan',38.84972,-
75.67333, 'T3'), (10001,621719, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
','DEDNREC',302031,'9/29/2022','9:43:00','','','',0,'S
','HVIC','S1','CLW','',16.095,'MG/L','L02
','DEDNREC','','','nan',38.84972,-
75.67333, 'T3'), (10001,610432, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
','DEDNREC',302031,'1/28/2021','10:36:00','','','',0,'S
','ISM','M1','DO','',11.8,'MG/L','F02 ','','','','','nan',38.84972,-
75.67333, 'T3'), (10001,610433, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
','DEDNREC',302031,'2/2/2021','10:15:00','','','',0,'S
','ISM','M1','D0','',11.27,'MG/L','F02 ','','','','','nan',38.84972,-
75.67333, 'T3'), (10001,610434, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
','DEDNREC',302031,'2/24/2021','9:17:00','','','',0,'S
','ISM','M1','DO','',10.97,'MG/L','F02 ','','','','','nan',38.84972,-
75.67333, 'T3'), (10001,610435, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
','DEDNREC',302031,'3/10/2021','9:03:00','','','',0,'S
','ISM','M1','D0','',10.48,'MG/L','F02 ','','','','','nan',38.84972,-
75.67333, 'T3'), (10001,610438, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
```

```
','DEDNREC',302031,'6/15/2021','9:44:00','','','',0,'S
','ISM','M1','DO','',8.55,'MG/L','F02 ','','','','','nan',38.84972,-
75.67333, 'T3'), (10001,610437, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
','DEDNREC',302031,'5/24/2021','8:29:00','','','',0,'S
','ISM','M1','D0','',7.7,'MG/L','F02 ','','','','','nan',38.84972,-
75.67333, 'T3'), (10001,610436, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
','DEDNREC',302031,'4/20/2021','8:41:00','','','',0,'S
','ISM','M1','D0','',10.39,'MG/L','F02 ','','','','','nan',38.84972,-
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75.67333, 'T3'), (10001,610442, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,610438, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,610436, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,610435, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,621718, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,621717, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,621715, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,621716, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,621714, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,621712, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,621713, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,621711, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,621712, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,621709, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,621710, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,621708, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,621707, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,621719, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,621719, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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Mq)',38.84972,-
75.67333, 'T3'), (10001,621707, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
','DEDNREC',302031,'10/18/2021','9:37:00','','','',0,'S
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75.67333, 'T3'), (10001,621708, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,621710, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.67333,'T3'),(10001,621709,'NTN022','NTWQM','NTN','DEDNREC
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75.67333, 'T3'), (10001,621711, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,621713, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,621712, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,621712, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,621714, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,621718, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,610440, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,610441, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
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75.67333,'T3'),(10001,610439,'NTN021','NTWQM','NTN','DEDNREC
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75.67333, 'T3'), (10001,610436, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,610438, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,610437, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
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expired.',38.84972,-
75.67333, 'T3'), (10001,610435, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,621719, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,621708, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,621709, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,610441, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,610440, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,610442, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,610432, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,621715, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,621710, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,621712, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,610436, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
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is likely underestimated due to matrix effect.', 38.84972, -
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75.67333, 'T3'), (10001,610438, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,610441, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,610442, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,610438, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,610433, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,610434, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
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performed after holding time expired.', 38.84972,-
75.67333, 'T3'), (10001,610435, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
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','HVIC','S1','POC','',0.476,'MG/L','D01
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75.67333, 'T3'), (10001,621719, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,621707, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,621708, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,621711, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,621710, 'NTN022', 'NTWOM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,621709, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,621712, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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','HVIC','FS1','POC','',0.427,'MG/L','D01
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75.67333, 'T3'), (10001,621712, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,621713, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,621716, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,621714, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,621715, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,621717, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,621718, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,610434, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,621710, 'NTN022', 'NTWOM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,610436, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,610433, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,621719, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,621707, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,621709, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,621712, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,621712, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,621716, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,621717, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,610433, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,621713, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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KDSL','','','nan',38.84972,-
75.67333, 'T3'), (10001,610433, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,610435, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,610436, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,610437, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,610442, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
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75.67333,'T3'),(10001,610442,'NTN021','NTWQM','NTN','DEDNREC
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75.67333, 'T3'), (10001,610440, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,610441, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,621714, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,621715, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,621716, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,621718, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,621712, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,621710, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,621719, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,610441, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,610440, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
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', 'DEDNREC', 'NV', '', 'nan', 38.84972, -
75.67333, 'T3'), (10001,610439, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,610442, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,610442, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,610438, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,610437, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,610436, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,610435, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,610434, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,610433, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,610432, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,621719, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,621708, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,621710, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,621711, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,621709, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,621712, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,621712, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,621718, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,621716, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,621715, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,621714, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,610432, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,610433, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,610435, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,610436, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,610437, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,610438, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,610442, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,610442, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,610439, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,610441, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,610440, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,621715, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,621714, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,621718, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,621712, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,621710, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,621709, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,621708, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,621707, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,621719, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,610440, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,610441, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,610439, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,610442, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,610442, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,610438, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,610436, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,610437, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,610435, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
','DEDNREC',302031,'3/10/2021','9:03:00','','','',0,'S
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75.67333, 'T3'), (10001,610433, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,610434, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
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performed after holding time expired.', 38.84972,-
75.67333, 'T3'), (10001,610432, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,621719, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,621707, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,621708, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,621711, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,621710, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,621709, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.67333, 'T3'), (10001,621712, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.56139, 'T3'), (\overline{10005}, 621725, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC')
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75.56139, 'T3'), (10005,621726, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.56139, 'T3'), (\overline{10005}, 621724, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC')
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75.56139, 'T3'), (10005,621723, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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','ISM','M1','DO SAT P','',88.5,'PCT','F01 ','','','','','nan',38.72917,-
75.56139, 'T3'), (\overline{1}000\overline{5}, 621722, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC')
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75.56139, 'T3'), (10005,621721, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.56139, 'T3'), (\overline{1}000\overline{5}, 621720, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC')
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75.56139, 'T3'), (10005,610447, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
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75.56139, 'T3'), (10005,610448, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
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75.56139, 'T3'), (10005,610449, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
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performed after holding time expired.',38.72917,-
75.56139, 'T3'), (10005,610448, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
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75.56139, 'T3'), (10005,610450, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
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75.56139, 'T3'), (10005,610450, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
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75.56139, 'T3'), (10005,610451, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
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75.56139, 'T3'), (10005,610452, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
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75.56139, 'T3'), (10005,610453, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
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75.56139, 'T3'), (10005,610453, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
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75.56139, 'T3'), (10005,610454, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
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75.56139, 'T3'), (10005,610455, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
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75.56139, 'T3'), (10005,610456, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
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75.56139, 'T3'), (10005,610457, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
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75.56139, 'T3'), (10005,621720, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.56139, 'T3'), (10005,621722, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.56139, 'T3'), (10005,621723, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.56139, 'T3'), (10005,621726, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.56139, 'T3'), (10005,621726, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.56139, 'T3'), (10005,621725, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.56139, 'T3'), (10005,621728, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.56139, 'T3'), (10005,621729, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.56139, 'T3'), (10005,621732, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.56139, 'T3'), (10005,621732, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.56139, 'T3'), (10005,610454, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
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75.56139, 'T3'), (10005,610455, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
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75.56139, 'T3'), (10005,610453, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
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75.56139, 'T3'), (10005,610453, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
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75.56139, 'T3'), (10005,610451, 'NTN021', 'NTWQM', 'NTN', 'DEDNREC
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75.56139, 'T3'), (10005,621731, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.56139, 'T3'), (10005,621726, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.56139, 'T3'), (10005,621725, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.56139, 'T3'), (10005,621724, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.56139, 'T3'), (10005,621723, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.56139, 'T3'), (10005,621721, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.56139, 'T3'), (10005,621720, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.56139, 'T3'), (10005,621720, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.56139, 'T3'), (10005,621721, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.56139, 'T3'), (10005,621722, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.56139, 'T3'), (10005,621723, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.56139, 'T3'), (10005,621724, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.56139, 'T3'), (10005,621726, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.56139, 'T3'), (10005,621725, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.56139, 'T3'), (10005,621726, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.56139, 'T3'), (10005,621727, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.56139, 'T3'), (10005,621728, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.56139, 'T3'), (10005,621729, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
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75.56139, 'T3'), (10005,621731, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
','DEDNREC',304191,'8/24/2022','8:45:00','','','',0,'S
','ISM','M1','WTEMP','',21.233,'DEG C','F02 ','','','','','nan',38.72917,-
75.56139, 'T3'), (10005,621727, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
','DEDNREC',304191,'4/27/2022','10:01:00','','','',0,'S
','ISM','M1','WTEMP','',15.134,'DEG C','F02 ','','','','','nan',38.72917,-
75.56139, 'T3'), (10005,621728, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
','DEDNREC',304191,'5/18/2022','9:47:00','','','',0,'S
','ISM','M1','WTEMP','',18.296,'DEG C','F02 ','','','','','nan',38.72917,-
75.56139, 'T3'), (10005,621726, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
','DEDNREC',304191,'4/7/2022','9:29:00','','','',0,'S
','ISM','M2','WTEMP','',12.425,'DEG C','F02 ','','','','','nan',38.72917,-
75.56139, 'T3'), (10005,621726, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
','DEDNREC',304191,'4/7/2022','9:29:00','','','',0,'S
','ISM','M1','WTEMP','',12.424,'DEG C','F02 ','','','','','nan',38.72917,-
75.56139, 'T3'), (10005,621725, 'NTN022', 'NTWQM', 'NTN', 'DEDNREC
','DEDNREC',304191,'3/21/2022','8:21:00','','','',0,'S
','ISM','M1','WTEMP','',11.56,'DEG C','F02 ','','','','','nan',38.72917,-
75.56139, 'T3');
/*!40000 ALTER TABLE `raw water quality` ENABLE KEYS */;
UNLOCK TABLES;
-- Table structure for table `sample`
DROP TABLE IF EXISTS `sample`;
/*!40101 SET @saved cs client
                                 = @@character set client */;
/*!50503 SET character set client = utf8mb4 */;
CREATE TABLE `sample` (
  `SampleId` int NOT NULL AUTO INCREMENT,
  `StationId` int DEFAULT NULL,
  `SampleDate` date DEFAULT NULL,
  `SampleTime` time DEFAULT NULL,
  `TotalDepth` decimal(5,2) DEFAULT NULL,
  `UpperPycnocline` decimal(5,2) DEFAULT NULL,
  `LowerPycnocline` decimal(5,2) DEFAULT NULL,
```

```
`Depth` decimal(5,2) DEFAULT NULL,
  `Layer` varchar(255) DEFAULT NULL,
  `SampleType` varchar(255) DEFAULT NULL,
  `SampleReplicateType` varchar(255) DEFAULT NULL,
  PRIMARY KEY (`SampleId`),
  KEY `StationId` (`StationId`),
  CONSTRAINT `sample ibfk 1` FOREIGN KEY (`StationId`) REFERENCES
`station` (`StationId`)
) ENGINE=InnoDB AUTO INCREMENT=128 DEFAULT CHARSET=utf8mb4
COLLATE=utf8mb4 0900 ai ci;
/*!40101 SET character set client = @saved cs client */;
-- Dumping data for table `sample`
LOCK TABLES `sample` WRITE;
/*!40000 ALTER TABLE `sample` DISABLE KEYS */;
INSERT INTO `sample` VALUES (1,302031,'2021-01-
28','10:36:00', NULL, NULL, NULL, 0.00,'S ','HVIC','S1'), (2,302031,'2021-02-
02','10:15:00',NULL,NULL,NULL,0.00,'S ','HVIC','S1'),(3,302031,'2021-02-
24','09:17:00',NULL,NULL,NULL,0.00,'S ','HVIC','S1'),(4,302031,'2021-03-
10','09:03:00',NULL,NULL,NULL,0.00,'S ','HVIC','S1'),(5,302031,'2021-04-
20','08:41:00',NULL,NULL,NULL,0.00,'S ','HVIC','S1'),(6,302031,'2021-05-
24','08:29:00',NULL,NULL,NULL,0.00,'S ','HVIC','S1'),(7,302031,'2021-06-
15','09:44:00', NULL, NULL, NULL, 0.00,'S ','HVIC','S1'), (8,302031,'2021-07-
19','08:24:00', NULL, NULL, NULL, 0.00,'S ','HVIC','S1'), (9,302031,'2021-08-
25','08:02:00',NULL,NULL,NULL,0.00,'S ','HVIC','S1'),(10,302031,'2021-09-
02','08:04:00',NULL,NULL,NULL,0.00,'S ','HVIC','S1'),(11,302031,'2021-09-
22','09:14:00',NULL,NULL,NULL,0.00,'S ','HVIC','FS1'),(12,302031,'2021-09-22','09:14:00',NULL,NULL,NULL,0.00,'S ','HVIC','FS2'),(13,302031,'2021-10-
18','09:37:00',NULL,NULL,NULL,0.00,'S ','HVIC','S1'),(14,302031,'2021-11-
08','07:25:00',NULL,NULL,NULL,0.00,'S ','HVIC','S1'),(15,302031,'2021-12-
15','08:44:00',NULL,NULL,NULL,0.00,'S ','HVIC','S1'),(16,302031,'2022-01-
26','09:44:00',NULL,NULL,NULL,0.00,'S ','HVIC','S1'),(17,302031,'2022-02-
23','08:10:00',NULL,NULL,NULL,0.00,'S ','HVIC','S1'),(18,302031,'2022-03-
21','07:52:00',NULL,NULL,NULL,0.00,'S ','HVIC','FS1'),(19,302031,'2022-03-
21','07:52:00',NULL,NULL,NULL,0.00,'S ','HVIC','FS2'),(20,302031,'2022-04-
07','08:14:00',NULL,NULL,NULL,0.00,'S ','HVIC','S1'),(21,302031,'2022-04-
27','08:30:00',NULL,NULL,NULL,0.00,'S ','HVIC','S1'),(22,302031,'2022-05-
18','08:02:00',NULL,NULL,NULL,0.00,'S ','HVIC','S1'),(23,302031,'2022-06-
15','08:18:00',NULL,NULL,NULL,0.00,'S ','HVIC','S1'),(24,302031,'2022-07-
27','11:45:00',NULL,NULL,NULL,0.00,'S ','HVIC','S1'),(25,302031,'2022-08-
24','07:35:00',NULL,NULL,NULL,0.00,'S ','HVIC','S1'),(26,302031,'2022-09-
29','09:43:00',NULL,NULL,NULL,0.00,'S ','HVIC','S1'),(27,302031,'2021-01-
28','10:36:00',NULL,NULL,NULL,0.00,'S ','ISM','M1'),(28,302031,'2021-02-
02','10:15:00',NULL,NULL,NULL,0.00,'S ','ISM','M1'),(29,302031,'2021-02-
24','09:17:00',NULL,NULL,NULL,0.00,'S ','ISM','M1'),(30,302031,'2021-03-
10','09:03:00',NULL,NULL,NULL,0.00,'S ','ISM','M1'),(31,302031,'2021-06-
15','09:44:00',NULL,NULL,NULL,0.00,'S ','ISM','M1'),(32,302031,'2021-05-
24','08:29:00',NULL,NULL,NULL,0.00,'S ','ISM','M1'),(33,302031,'2021-04-
20','08:41:00',NULL,NULL,NULL,0.00,'S ','ISM','M1'),(34,302031,'2021-07-
19','08:24:00',NULL,NULL,NULL,0.00,'S ','ISM','M1'),(35,302031,'2021-08-
25','08:02:00',NULL,NULL,NULL,0.00,'S ','ISM','M1'),(36,302031,'2021-09-
```

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02','08:04:00',NULL,NULL,NULL,0.00,'S ','ISM','M1'),(37,302031,'2021-09-
22','09:14:00',NULL,NULL,NULL,0.00,'S ','ISM','M1'),(38,302031,'2021-09-
22','09:14:00',NULL,NULL,NULL,0.00,'S ','ISM','M2'),(39,302031,'2021-10-
18','09:37:00',NULL,NULL,NULL,0.00,'S ','ISM','M1'),(40,302031,'2021-11-
08','07:25:00',NULL,NULL,NULL,0.00,'S ','ISM','M1'),(41,302031,'2021-12-
15','08:44:00',NULL,NULL,NULL,0.00,'S ','ISM','M1'),(42,302031,'2022-01-
26','09:44:00',NULL,NULL,NULL,0.00,'S ','ISM','M1'),(43,302031,'2022-02-
23','08:10:00',NULL,NULL,NULL,0.00,'S ','ISM','M1'),(44,302031,'2022-03-
21','07:52:00',NULL,NULL,NULL,0.00,'S ','ISM','M1'),(45,302031,'2022-04-
07','08:14:00',NULL,NULL,NULL,0.00,'S ','ISM','M1'),(46,302031,'2022-03-
21','07:52:00',NULL,NULL,NULL,0.00,'S ','ISM','M2'),(47,302031,'2022-04-
27','08:30:00',NULL,NULL,NULL,0.00,'S ','ISM','M1'),(48,302031,'2022-05-
18','08:02:00',NULL,NULL,NULL,0.00,'S ','ISM','M1'),(49,302031,'2022-06-
15','08:18:00',NULL,NULL,NULL,0.00,'S ','ISM','M1'),(50,302031,'2022-07-
27','11:45:00',NULL,NULL,NULL,0.00,'S ','ISM','M1'),(51,302031,'2022-09-
29','09:43:00',NULL,NULL,NULL,0.00,'S ','ISM','M1'),(52,302031,'2022-08-
24','07:35:00',NULL,NULL,NULL,0.00,'S ','ISM','M1'),(53,304191,'2021-01-
28','11:26:00',NULL,NULL,NULL,0.00,'S ','HVIC','S1'),(54,304191,'2021-02-
02','09:25:00',NULL,NULL,NULL,0.00,'S ','HVIC','FS2'),(55,304191,'2021-02-
02','09:25:00',NULL,NULL,NULL,0.00,'S ','HVIC','FS1'),(56,304191,'2021-02-
24','10:10:00',NULL,NULL,NULL,0.00,'S ','HVIC','S1'),(57,304191,'2021-03-
10','08:01:00',NULL,NULL,NULL,0.00,'S ','HVIC','FS1'),(58,304191,'2021-03-
10','08:01:00',NULL,NULL,NULL,0.00,'S ','HVIC','FS2'),(59,304191,'2021-04-
20','10:18:00',NULL,NULL,NULL,0.00,'S ','HVIC','S1'),(60,304191,'2021-05-
24','07:28:00',NULL,NULL,NULL,0.00,'S ','HVIC','S1'),(61,304191,'2021-06-
15','08:37:00',NULL,NULL,NULL,0.00,'S ','HVIC','FS1'),(62,304191,'2021-06-
15','08:37:00',NULL,NULL,NULL,0.00,'S ','HVIC','FS2'),(63,304191,'2021-07-
19','08:57:00',NULL,NULL,NULL,0.00,'S ','HVIC','S1'),(64,304191,'2021-08-
25','09:47:00',NULL,NULL,NULL,0.00,'S ','HVIC','S1'),(65,304191,'2021-09-
02','08:32:00',NULL,NULL,NULL,0.00,'S ','HVIC','S1'),(66,304191,'2021-09-
22','09:44:00',NULL,NULL,NULL,0.00,'S ','HVIC','S1'),(67,304191,'2021-10-
18','10:05:00', NULL, NULL, NULL, 0.00, 'S ','HVIC','S1'), (68,304191,'2021-11-
08','07:55:00',NULL,NULL,NULL,0.00,'S ','HVIC','S1'),(69,304191,'2021-12-
15','09:14:00',NULL,NULL,NULL,0.00,'S ','HVIC','S1'),(70,304191,'2022-01-
26','08:25:00',NULL,NULL,NULL,0.00,'S ','HVIC','S1'),(71,304191,'2022-02-
23','09:37:00',NULL,NULL,NULL,0.00,'S ','HVIC','S1'),(72,304191,'2022-03-
21','08:21:00',NULL,NULL,NULL,0.00,'S ','HVIC','S1'),(73,304191,'2022-04-
07','09:29:00',NULL,NULL,NULL,0.00,'S ','HVIC','FS1'),(74,304191,'2022-04-
07','09:29:00',NULL,NULL,NULL,0.00,'S ','HVIC','FS2'),(75,304191,'2022-04-
27','10:01:00',NULL,NULL,NULL,0.00,'S ','HVIC','S1'),(76,304191,'2022-05-
18','09:47:00', NULL, NULL, NULL, 0.00,'S ','HVIC','S1'), (77,304191,'2022-06-
15','09:45:00',NULL,NULL,NULL,0.00,'S ','HVIC','FS2'),(78,304191,'2022-06-
15','09:45:00',NULL,NULL,NULL,0.00,'S ','HVIC','FS1'),(79,304191,'2022-07-
27','10:45:00',NULL,NULL,NULL,0.00,'S ','HVIC','S1'),(80,304191,'2022-08-
24','08:45:00',NULL,NULL,NULL,0.00,'S ','HVIC','S1'),(81,304191,'2022-09-
29','08:06:00',NULL,NULL,NULL,0.00,'S ','HVIC','FS2'),(82,304191,'2022-09-
29','08:06:00',NULL,NULL,NULL,0.00,'S ','HVIC','FS1'),(83,304191,'2021-01-
28','11:26:00',NULL,NULL,NULL,0.00,'S ','ISM','M1'),(84,304191,'2021-02-
02','09:25:00',NULL,NULL,NULL,0.00,'S ','ISM','M2'),(85,304191,'2021-02-
02','09:25:00',NULL,NULL,NULL,0.00,'S ','ISM','M1'),(86,304191,'2021-09-
22','09:44:00',NULL,NULL,NULL,0.00,'S ','ISM','M1'),(87,304191,'2021-02-
24','10:10:00',NULL,NULL,NULL,0.00,'S ','ISM','M1'),(88,304191,'2021-03-
10','08:01:00',NULL,NULL,NULL,0.00,'S ','ISM','M1'),(89,304191,'2021-03-
10','08:01:00',NULL,NULL,NULL,0.00,'S ','ISM','M2'),(90,304191,'2021-05-
```

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24','07:28:00',NULL,NULL,NULL,0.00,'S ','ISM','M1'),(91,304191,'2021-04-
20','10:18:00',NULL,NULL,NULL,0.00,'S ','ISM','M1'),(92,304191,'2021-06-
15','08:37:00',NULL,NULL,NULL,0.00,'S ','ISM','M1'),(93,304191,'2021-07-
19','08:57:00',NULL,NULL,NULL,0.00,'S ','ISM','M1'),(94,304191,'2021-06-
15','08:37:00',NULL,NULL,NULL,0.00,'S ','ISM','M2'),(95,304191,'2021-08-
25','09:47:00',NULL,NULL,NULL,0.00,'S ','ISM','M1'),(96,304191,'2021-09-
02','08:32:00',NULL,NULL,NULL,0.00,'S ','ISM','M1'),(97,304191,'2021-10-
18','10:05:00',NULL,NULL,NULL,0.00,'S ','ISM','M1'),(98,304191,'2021-12-
15','09:14:00',NULL,NULL,NULL,0.00,'S ','ISM','M1'),(99,304191,'2021-11-
08','07:55:00',NULL,NULL,NULL,0.00,'S ','ISM','M1'),(100,304191,'2022-01-
26','08:25:00',NULL,NULL,NULL,0.00,'S ','ISM','M1'),(101,304191,'2022-02-
23','09:37:00',NULL,NULL,NULL,0.00,'S ','ISM','M1'),(102,304191,'2022-03-
21','08:21:00',NULL,NULL,NULL,0.00,'S ','ISM','M1'),(103,304191,'2022-04-
07','09:29:00',NULL,NULL,NULL,0.00,'S ','ISM','M1'),(104,304191,'2022-04-
07','09:29:00',NULL,NULL,NULL,0.00,'S ','ISM','M2'),(105,304191,'2022-04-
27','10:01:00',NULL,NULL,NULL,0.00,'S ','ISM','M1'),(106,304191,'2022-05-
18','09:47:00',NULL,NULL,NULL,0.00,'S ','ISM','M1'),(107,304191,'2022-06-
15','09:45:00',NULL,NULL,NULL,0.00,'S ','ISM','M2'),(108,304191,'2022-06-
15','09:45:00',NULL,NULL,NULL,0.00,'S ','ISM','M1'),(109,304191,'2022-07-
27','10:45:00',NULL,NULL,NULL,0.00,'S ','ISM','M1'),(110,304191,'2022-08-
24','08:45:00',NULL,NULL,NULL,0.00,'S ','ISM','M1'),(111,304191,'2022-09-
29','08:06:00',NULL,NULL,NULL,0.00,'S ','ISM','M1'),(112,304191,'2022-09-
29','08:06:00',NULL,NULL,NULL,0.00,'S ','ISM','M2');
/*!40000 ALTER TABLE `sample` ENABLE KEYS */;
UNLOCK TABLES;
-- Table structure for table `station`
DROP TABLE IF EXISTS `station`;
/*!40101 SET @saved cs client
                                = @@character set client */;
/*!50503 SET character set client = utf8mb4 */;
CREATE TABLE `station` (
  `StationId` int NOT NULL AUTO INCREMENT,
  `FIPS` varchar(255) DEFAULT NULL,
  `Latitude` decimal(10,8) DEFAULT NULL,
  `Longitude` decimal(11,8) DEFAULT NULL,
  PRIMARY KEY (`StationId`)
) ENGINE=InnoDB AUTO INCREMENT=304192 DEFAULT CHARSET=utf8mb4
COLLATE=utf8mb4 0900 ai ci;
/*!40101 SET character set client = @saved cs client */;
-- Dumping data for table `station`
LOCK TABLES `station` WRITE;
/*!40000 ALTER TABLE `station` DISABLE KEYS */;
INSERT INTO `station` VALUES (1,'10001',38.84972000,-
75.67333000), (2, '10005', 38.72917000, -
75.56139000), (302031, '10001', 38.84972000, -
75.67333000), (304191, '10005', 38.72917000, -75.56139000);
/*!40000 ALTER TABLE `station` ENABLE KEYS */;
```

```
UNLOCK TABLES;

/*!40103 SET TIME_ZONE=@OLD_TIME_ZONE */;

/*!40101 SET SQL_MODE=@OLD_SQL_MODE */;

/*!40014 SET FOREIGN_KEY_CHECKS=@OLD_FOREIGN_KEY_CHECKS */;

/*!40014 SET UNIQUE_CHECKS=@OLD_UNIQUE_CHECKS */;

/*!40101 SET CHARACTER_SET_CLIENT=@OLD_CHARACTER_SET_CLIENT */;

/*!40101 SET CHARACTER_SET_RESULTS=@OLD_CHARACTER_SET_RESULTS */;

/*!40101 SET COLLATION_CONNECTION=@OLD_COLLATION_CONNECTION */;

/*!40111 SET SQL_NOTES=@OLD_SQL_NOTES */;
```