

**GASBOL\_TGS\_C0****Default Initial Values Selected**

Pressure	91.561
Flow	1505.750
Temperature	24.819
% C1	89.200
% C2	5.900
% C3	1.810
% IC4	0.290
% NC4	0.400
% IC5	0.120
% NC5	0.080
% C6	0.090
% CO2	1.390
% N2	0.710
% O2	0.010

**Problem Size Report**

Nodes	466
Pipes	309
Supplies	3
Deliveries	50
Energy Deliveries	0
Fuel Deliveries	15
Leak Deliveries	0
Fixed Volume Storages	0
Reservoirs	0
Block Valves	112
Check Valves	0
Centrifugal Compressors	0
Generic Compressors	0
Reciprocating Compressors	0
Regulators	2
Resistances	15
Relief Valves	0
Heaters	0
Coolers	15
Stations	15
Banks	15
Centrifugal Bank Compressors	29

Generic Bank Compressors	0
Reciprocating Bank Compressors	11
Generic Drivers	8
Turbine Drivers	3
Centrifugal Performance Types	7
Reciprocating Performance Types	7
Generic Driver Performance Types	3
Turbine Driver Performance Types	5
Cylinder Types	4
Simple Fluids	0
Compositional Fluids	1

### Steady State Convergence Report

Iteration Number	Tolerance Requested	Greatest Hydraulic Adjustment	Greatest Temperature Adjustment	Greatest Composition Adjustment	Associated Device
0	0.0001000	315.5327475	0.0000000	0.0000000	Flux N11-C0002
1	0.0001000	166.4470657	0.0000000	0.0000000	Flux N11-C0002
2	0.0001000	91.4393561	0.0000000	0.0000000	Flux N11-C0002
3	0.0001000	64.0370187	0.0000000	0.0000000	Flux N09-D0008
4	0.0001000	9.8857692	0.0000000	0.0000000	Flux N09-D0008

**DPMX increased to 9764.86**

5	0.0001000	0.1628990	0.0000000	0.0000000	Flux N09-D0010-PEIAC
6	0.0001000	0.0016445	0.0000000	0.0000000	Node N09-D0010-PEIAC
7	0.0001000	0.0000003	0.0000000	0.0000000	Node N09-D0010-PEIAC

8	<b>Regulator ERP ARC</b>	<b>FROM: MaximumDownstreamPressure TO: Bypass</b>
8	<b>Compressor MRD-B</b>	<b>FROM: BankControl TO: MinimumSpeed</b>
8	<b>Compressor MRD-A</b>	<b>FROM: BankControl TO: MinimumSpeed</b>
8	<b>Compressor CGR-D</b>	<b>FROM: BankControl TO: Closed</b>
8	<b>Compressor RRP-B</b>	<b>FROM: BankControl TO: MinimumSpeed</b>
8	<b>Compressor RRP-A</b>	<b>FROM: BankControl TO: MinimumSpeed</b>
8	<b>Compressor MIR-B</b>	<b>FROM: BankControl TO: MinimumSpeed</b>
8	<b>Compressor MIR-A</b>	<b>FROM: BankControl TO: MinimumSpeed</b>
8	<b>Compressor PEN-D</b>	<b>FROM: BankControl TO: Closed</b>
8	<b>Compressor IAC-B</b>	<b>FROM: BankControl TO: MinimumSpeed</b>
8	<b>Compressor IAC-A</b>	<b>FROM: BankControl TO: MinimumSpeed</b>
8	<b>Compressor ARC_MCD</b>	<b>FROM: BankControl TO: Closed</b>

8 Compressor ARC\_MCC FROM: BankControl TO: Closed  
 8 Compressor ARC\_MCB FROM: BankControl TO: Closed  
 8 Compressor ARC\_MCA FROM: BankControl TO: Closed  
 8 Compressor PLN-A FROM: BankControl TO: MinimumSpeed  
 8 Compressor SID\_MCC FROM: BankControl TO: Closed

8	0.0001000	0.1194705	0.0000000	0.0000000	Node S03-M0004-BIG1
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DPMX increased to 19529.72

9	0.0001000	0.0032281	0.0000000	0.0000000	Node S03-M0004-BIG1
10	0.0001000	0.0000692	0.0000000	0.0000000	Node S03-M0004-BIG1

11 Compressor MRD-B FROM: MinimumSpeed TO: BankControl  
 11 Compressor MRD-A FROM: MinimumSpeed TO: BankControl  
 11 Compressor RRP-B FROM: MinimumSpeed TO: BankControl  
 11 Compressor RRP-A FROM: MinimumSpeed TO: BankControl  
 11 Compressor MIR-B FROM: MinimumSpeed TO: BankControl  
 11 Compressor MIR-A FROM: MinimumSpeed TO: BankControl

11	0.0001000	0.0023068	0.0000000	0.0000000	Xreg COMB_ANT
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DPMX increased to 39059.44

12	0.0001000	0.0000023	0.0000738	0.0000000	TNode S02-E0006
13	0.0001000	2.1001201	0.0000738	0.0000000	Flux N01-A0001
14	0.0001000	0.0020791	0.0000738	0.0000000	Flux N01-B0002

DPMX increased to 48824.28

15	0.0001000	0.0016925	0.0000738	0.0000000	Node N02-E0002-MRD1
16	0.0001000	0.0000015	0.0000803	0.0000000	TNode S02-B0004
17	0.0001000	0.1987187	0.0000803	0.0000000	Flux N06-A0001
18	0.0001000	0.0000258	0.0000481	0.0000000	TNode N06-A0002
19	0.0001000	0.0256997	0.0000481	0.0000000	Flux N08-A0001
20	0.0001000	0.0000004	0.0000318	0.0000000	TNode N08-D0002
21	0.0001000	0.0036079	0.0000270	0.0000000	Equip 10_VES_410
22	0.0001000	0.0004187	0.0000161	0.0000000	Equip COOL_MIR
23	0.0001000	0.0000442	0.0000003	0.0000000	Flux N11-A0001

**GASBOL\_TGS\_C0 : 0.000 hours**

**Reference Conditions Report**

Reference Pressure	0.00 kg/cm2g
Reference Temperature	20.00 Deg C

**Network Flow Balance Report : 0.000 hours**

Network Flow Balance		
	Mass Units	Volumetric Units
	Tonn/h	kSm3/d
Total Input Flow	888.334	27995.170
Total Output Flow	888.334	27995.181
Network Flow Balance	0.000	-0.012

**Node Mass Balance Report : 0.000 hours**

Node Mass Balance - Threshold = 0.010000	
Node Name	Mass Balance Error
	kSm3/d
No Mass Balance Errors Above Threshold	

**Pipe Hydraulic Summary Report : 0.000 hours**

Pipe Summary							
Pipe Name	Pressure		Flow		Line Pack	Temperature	
	kg/cm2g		kSm3/d		KPM3	Deg C	
	Head	Tail	Head	Tail		Head	Tail
N01-A001	85.00	80.51	25195.170	25195.170	1159.7649	51.70	45.83
N01-B001	80.51	77.12	25195.170	25195.170	767.7095	45.83	42.26
N02-A001	99.99	98.53	25095.247	25095.247	663.6288	48.00	45.87
N02-B001	98.53	95.10	25095.247	25095.247	1235.4718	45.87	41.98

N02-C001	95.10	91.24	25095.247	25095.247	1351.6721	41.98	38.35
N02-D001	91.24	87.20	25095.247	25095.247	1303.4790	38.35	35.28
N02-E001	87.20	82.56	25095.247	25095.248	1421.3573	35.28	32.44
N03-A001	99.99	96.77	25010.673	25010.673	1182.6473	47.25	43.32
N03-B001	96.77	92.94	25010.673	25010.673	1277.0634	43.32	39.54
N03-C001	92.94	89.16	25010.673	25010.673	1057.4898	39.54	36.50
N03-D001	89.16	85.68	25010.673	25010.674	1298.9375	36.50	34.12
N03-E001	85.68	82.49	25010.674	25010.674	985.8761	34.12	32.26
N04-A001	99.99	97.88	24926.034	24926.034	548.3054	47.12	44.83
N04-A002	97.88	97.54	24926.034	24926.034	394.4481	44.83	44.04
N04-A003	97.54	96.94	24926.034	24926.034	81.8772	44.04	43.54
N04-B001	96.94	92.66	24926.034	24926.034	1352.6908	43.54	39.36
N04-C001	92.66	92.20	24926.034	24926.034	422.7140	39.36	38.79
N04-C002	92.20	89.95	24926.034	24926.034	482.2153	38.79	37.04
N04-C003	89.95	88.68	24926.034	24926.034	592.6516	37.04	36.05
N04-D001	88.68	82.75	24926.034	24926.034	1308.8194	36.05	32.14
N05-A001	99.99	94.76	24855.391	24855.391	1696.5435	48.00	41.99
N05-B001	94.76	93.59	24855.391	24855.391	679.6860	41.99	40.55
N05-B002	93.59	91.76	24855.391	24855.391	355.1410	40.55	39.04
N05-B003	91.76	91.96	24855.391	24855.392	284.1926	39.04	39.00
N05-B004	91.96	90.09	24855.392	24855.392	324.1752	39.00	37.56
N05-C001	90.09	85.95	24855.392	24855.392	1630.5305	37.56	34.51
N05-D001	85.95	82.51	24855.392	24855.393	1296.9759	34.51	32.53
N06-A001	99.99	100.37	24771.888	24771.888	102.8075	47.36	47.40
N06-A002	100.37	95.43	24771.888	24771.888	1338.6501	47.40	42.17
N06-B001	95.43	94.90	24771.888	24771.888	599.5676	42.16	41.19
N06-B002	94.90	91.62	24771.888	24771.888	1046.1921	41.19	38.21
N06-C001	91.62	88.75	24771.888	24771.889	1185.1586	38.21	35.87
N06-D001	88.75	85.47	24771.889	24771.889	930.9290	35.87	33.64
N06-E001	85.47	82.35	24771.889	24771.890	1115.4582	33.64	31.95
N07-A001	99.99	96.40	24681.696	24681.696	1460.7165	47.18	42.59
N07-B001	96.40	94.18	24681.696	24681.696	587.4904	42.59	40.50
N07-B002	94.18	92.77	24681.696	24681.696	626.7859	40.50	38.89
N07-C001	92.77	91.97	23276.696	23276.697	598.1120	38.89	37.71
N07-C002	91.97	88.98	23276.697	23276.697	1014.6913	37.71	34.91
N07-D001	88.98	85.61	23276.697	23276.697	1064.1406	34.91	32.26
N07-E001	85.61	82.64	23276.697	23276.698	996.7633	32.26	30.30
N08-A001	100.00	96.73	23197.428	23197.428	1577.7273	44.81	40.00
N08-B001	96.73	94.05	23197.428	23197.428	1209.5965	40.00	36.91
N08-B002	94.05	92.40	23197.428	23197.428	391.1970	36.91	35.51
N08-C001	92.40	91.14	23197.428	23197.428	834.0729	35.51	34.22
N08-C002	91.14	89.33	23197.428	23197.428	490.0025	34.22	32.83
N08-D001	89.33	88.65	23197.428	23197.429	503.2617	32.83	32.30
N08-D002	88.65	88.23	23197.429	23197.429	51.7916	32.30	32.00
N08-D003	88.23	85.78	23197.429	23197.429	885.3925	32.00	30.38
N10-A001							

	100.00	100.09	23065.653	23065.653	205.9259	41.80	41.53
N10-A002	100.09	98.56	23065.653	23065.652	270.8571	41.53	40.15
N10-A003	98.56	97.70	23065.652	23065.652	655.8907	40.15	38.76
N10-B001	96.84	94.08	23065.652	23065.652	1317.7858	37.89	35.01
N10-C001	94.08	93.83	23065.652	23065.652	201.6775	35.01	34.74
N10-C002	93.83	91.92	23065.652	23065.652	279.7271	34.74	33.36
N10-C003	91.92	91.11	23065.652	23065.652	312.8140	33.36	32.72
N10-C004	91.11	90.21	23065.652	23065.652	269.3775	32.72	32.08
N10-C005	90.21	90.70	23065.652	23065.652	216.8885	32.08	32.39
N10-C006	90.70	90.36	23065.652	23065.652	30.2576	32.39	32.15
N10-D001	90.36	84.86	23065.652	23065.653	1523.5113	32.15	28.65
N10-E001	84.86	85.32	23065.653	23065.653	106.7176	28.65	29.08
N10-E002	85.32	84.15	23065.653	23065.653	129.5234	29.08	28.35
N10-E003	84.15	85.16	23065.653	23065.653	106.4045	28.35	29.18
N10-E004	85.16	82.95	23065.653	23065.653	328.7189	29.18	27.90
N11-A001	100.00	98.43	22989.409	22989.409	394.7059	42.05	40.55
N11-A002	98.43	98.37	22989.409	22989.409	100.3985	40.55	40.41
N11-A003	98.37	99.02	22044.409	22044.409	235.2694	40.41	40.51
N11-A004	99.02	96.72	22044.409	22044.409	703.1297	40.51	38.26
N11-B001	96.72	95.85	22044.409	22044.409	151.7546	38.26	37.56
N11-B002	95.85	97.57	22044.409	22044.408	215.2812	37.56	38.48
N11-B003	97.57	96.60	22044.408	22044.408	634.8284	38.48	37.30
N11-B004	96.60	95.83	22044.408	22044.408	203.1981	37.30	36.66
N11-C001	95.83	96.06	22044.408	22044.408	66.5658	36.66	36.74
N11-C002	96.06	95.78	22044.408	22044.408	12.3063	36.74	36.54
N11-C003	95.78	95.09	22044.408	22044.409	613.3599	36.54	35.54
N11-C004	95.09	92.44	21565.909	21565.909	499.4448	35.54	33.45
N11-C005	92.44	92.84	21565.909	21565.909	273.7591	33.45	33.58
N11-D001	92.84	92.70	21565.909	21565.909	201.1625	33.58	33.37
N11-D002	92.70	93.07	19765.909	19765.909	152.0939	33.37	33.50
N11-D003	93.07	91.67	19765.909	19765.909	280.4873	33.50	32.40
N11-D004	91.67	91.07	19765.909	19765.909	572.5415	32.40	31.71
N11-E001	91.07	91.11	19765.909	19765.909	122.6012	31.71	31.68
N11-E002	91.11	91.25	17965.909	17965.909	240.4136	31.68	31.62
N11-E003	91.25	90.09	17965.909	17965.910	276.8241	31.62	30.70
N11-E004	90.09	89.47	17965.910	17965.910	409.6809	30.70	30.13
S01-A002	99.36	98.33	10930.209	10930.209	258.7835	38.60	36.79
S01-B001	98.33	97.69	10930.209	10930.209	154.2596	36.79	35.79
S01-B002	97.69	96.80	10930.209	10930.209	134.6185	35.79	34.78
S01-C001	96.80	95.96	10930.209	10930.209	238.6799	34.78	33.59
S01-C002	95.96	96.10	10022.709	10022.709	75.2229	33.59	33.45
S01-D001	96.10	94.11	10022.709	10022.710	417.7425	33.45	31.21
S01-E002	93.85	92.74	9590.210	9590.210	559.7046	30.46	29.12
S01-F001	92.74	90.98	9590.210	9590.210	475.5712	29.12	27.81
S01-G001	90.11	90.17	9590.210	9590.210	138.2317	26.79	26.91
S01-G002							

	90.17	88.15	9590.210	9590.210	419.8134	26.91	25.93
S01-H001	88.15	86.52	9590.210	9590.210	626.0164	25.93	25.64
S01-I001	86.52	86.33	9590.210	9590.210	75.7392	25.64	25.62
S01-I002	86.33	85.06	9590.210	9590.210	79.0362	25.62	24.87
S01-I003	85.06	83.84	9590.210	9590.210	474.6477	24.87	24.99
S01-J001	83.84	83.36	9590.210	9590.210	163.7815	24.98	24.98
S01-J002	83.36	80.67	9590.210	9590.210	430.4510	24.98	24.06
S01-J003	80.67	80.23	9590.210	9590.210	233.9494	24.06	24.39
S01-K001	80.23	80.04	9590.210	9590.211	256.1014	24.39	24.90
S01-K002	80.04	77.35	9590.211	9590.211	513.1108	24.90	24.24
S02-A001	99.61	95.44	9550.882	9550.882	599.2692	45.13	36.93
S02-B001	95.44	95.85	9550.882	9550.882	68.8471	36.93	36.75
S02-B002	95.85	94.45	9550.882	9550.882	78.4990	36.75	35.36
S02-B003	94.45	95.04	9550.882	9550.882	249.1153	35.36	34.44
S02-B004	95.04	93.06	9550.882	9550.882	113.6880	34.44	32.64
S02-B005	93.06	92.93	9550.882	9550.882	146.3893	32.64	32.01
S02-C001	92.93	93.21	9550.882	9550.882	208.1885	32.01	31.48
S02-C002	93.21	91.23	9550.882	9550.882	110.6817	31.48	29.87
S02-C003	91.23	91.75	9550.882	9550.882	29.5103	29.87	30.15
S02-C004	91.75	90.32	9550.882	9550.882	78.8179	30.15	29.03
S02-C005	90.32	90.41	9550.882	9550.882	148.8356	29.03	28.84
S02-D001	90.41	88.51	9550.882	9550.882	831.3082	28.84	26.73
S02-E002	90.70	88.79	9550.882	9550.882	86.9963	27.61	26.28
S02-E003	88.79	89.35	9550.882	9550.882	50.0981	26.28	26.64
S02-E004	89.35	86.48	9550.882	9550.883	255.9658	26.64	24.75
S02-E005	86.48	88.15	9550.883	9550.883	40.6421	24.75	25.93
S02-E006	88.15	86.78	9550.883	9550.883	154.9674	25.93	25.05
S02-G001	84.00	84.94	9550.883	9550.883	282.2724	22.80	23.98
S02-G002	84.94	81.41	9550.883	9550.883	268.0545	23.98	22.01
S02-G003	81.41	82.67	9550.883	9550.883	21.7442	22.01	22.99
S02-G004	82.67	81.13	9550.883	9550.883	54.5126	22.99	22.00
S02-G005	81.13	79.08	9550.883	9550.883	214.7801	22.00	21.16
S02-H001	79.07	80.55	9550.883	9550.883	94.2840	21.16	22.57
S02-H002	80.55	76.51	9550.883	9550.883	360.8381	22.57	20.77
S02-H003	76.51	76.61	9550.883	9550.883	217.2481	20.77	21.70
S02-H004	76.61	75.29	9550.883	9550.883	109.8171	21.70	21.08
S02-I001	75.29	72.91	9550.883	9550.883	290.9145	21.08	20.48
S02-I002	72.91	72.03	9550.883	9550.883	222.2451	20.48	20.89
S02-J001	72.03	69.96	9550.883	9550.883	429.1575	20.89	21.29
S02-J002	69.96	69.75	9550.883	9550.883	44.9039	21.29	21.34
S03-A001	68.98	68.87	4489.883	4489.883	11.5485	21.17	21.09
S03-A002	68.87	68.69	4489.883	4489.883	119.5736	21.09	21.16
S03-A003	68.69	68.24	4489.883	4489.883	59.4400	21.16	20.89
S03-B001	68.24	66.41	4489.883	4489.883	398.6042	20.89	20.50
S03-C001	66.41	65.73	4489.883	4489.883	149.8100	20.50	20.44
S03-C002							

	65.73	65.67	4489.883	4489.883	128.6505	20.44	20.83
S03-D001	65.67	68.66	4489.883	4489.883	367.6816	20.83	23.28
S03-E001	68.66	67.08	4489.883	4489.883	365.8582	23.28	21.54
S03-F001	67.08	66.56	4489.883	4489.883	40.7229	21.54	21.13
S03-F002	66.56	65.74	4489.883	4489.883	261.4444	21.13	20.99
S03-F003	65.74	64.89	4489.883	4489.883	125.3339	20.99	20.61
S03-F004	64.89	64.94	4489.883	4489.883	23.9845	20.61	20.74
S03-G001	64.94	61.51	4489.883	4489.883	320.6026	20.74	19.33
S03-G002	61.51	62.21	4489.883	4489.883	23.5509	19.33	20.19
S03-H001	62.21	61.64	4489.883	4489.883	8.2288	20.19	19.67
S03-H002	61.64	62.02	4489.883	4489.883	126.1451	19.67	20.74
S03-H003	62.02	59.34	4489.883	4489.883	118.8786	20.74	18.88
S03-H004	59.34	60.36	4489.883	4489.883	67.4514	18.88	20.42
S03-H005	60.36	59.19	4489.883	4489.883	19.4053	20.42	19.36
S03-H006	59.19	60.67	4489.883	4489.883	81.5017	19.36	21.33
S03-I001	60.67	60.66	3936.383	3936.383	12.0524	21.33	21.33
S03-I002	60.66	59.02	3936.383	3936.383	125.3991	21.33	20.14
S03-I003	59.02	59.39	3936.383	3936.383	96.7710	20.14	20.96
S03-J001	59.39	59.27	3936.383	3936.383	67.6922	20.96	21.03
S03-J002	59.27	58.76	3681.383	3681.384	99.0583	21.03	20.79
S03-L001	58.76	56.34	3681.384	3681.384	87.3048	20.79	18.88
S03-L002	56.34	57.96	3681.384	3681.384	76.7753	18.88	21.11
S03-L003	57.96	56.49	3681.384	3681.384	17.2481	21.11	19.62
S03-L004	56.49	57.75	3681.384	3681.384	21.3596	19.62	21.10
S03-L005	57.75	57.04	3681.384	3681.384	54.1964	21.10	20.53
S03-L006	57.04	57.39	3681.384	3681.384	97.1752	20.53	21.23
S03-M001	57.39	55.69	3248.884	3248.884	249.3808	21.23	20.32
S03-M002	55.69	56.23	3248.884	3248.884	81.7478	20.32	21.19
S03-M003	56.23	56.08	3248.884	3248.884	24.6064	21.19	21.07
S04-A001	75.00	73.07	3237.807	3237.807	136.2198	43.89	33.08
S04-A002	73.07	72.16	3237.807	3237.807	42.4152	33.08	30.56
S04-A003	72.16	73.49	3237.807	3237.807	107.2964	30.56	28.41
S04-A004	73.49	70.31	3237.807	3237.807	62.4002	28.41	24.56
S04-A005	70.31	72.21	3237.807	3237.807	36.6910	24.56	25.69
S04-B001	72.21	69.29	3237.807	3237.807	35.5013	25.69	22.84
S04-B002	69.29	69.59	3237.807	3237.807	58.1810	22.84	22.83
S04-B003	69.59	67.98	3237.807	3237.807	21.1394	22.83	21.37
S04-B004	67.98	70.11	3237.807	3237.807	78.2021	21.37	23.07
S04-B005	70.11	67.61	3237.807	3237.807	72.9379	23.07	20.83
S04-B006	67.61	68.81	3237.807	3237.807	18.2005	20.83	21.93
S04-B007	68.81	67.26	3237.807	3237.807	23.4473	21.93	20.59
S04-B008	67.26	68.22	3237.807	3237.807	33.9249	20.59	21.54
S04-B009	68.22	66.37	3237.807	3237.807	20.1997	21.54	19.93
S04-B010	66.37	66.86	3237.807	3237.807	4.1843	19.93	20.41
S04-C001	66.86	67.78	3237.807	3237.807	42.4203	20.41	21.38
S04-C002							



	67.78	66.70	3237.807	3237.807	29.1026	21.38	20.51
S04-C003	66.70	67.69	3237.807	3237.807	79.3295	20.51	21.60
S04-C004	67.69	66.11	3237.807	3237.807	113.0794	21.60	20.52
S04-C005	66.11	67.28	3237.807	3237.807	117.9502	20.52	21.84
S04-D001	67.28	67.28	3237.807	3237.807	146.6161	21.84	21.80
S04-D002	67.28	65.93	3237.807	3237.807	53.9676	21.80	20.69
S04-D003	65.93	66.58	3237.807	3237.807	100.5832	20.69	21.54
S04-E001	66.58	65.39	3237.807	3237.807	17.5055	21.54	20.50
S04-E002	65.39	66.49	3237.807	3237.807	17.9918	20.50	21.58
S04-E003	66.49	65.25	3237.807	3237.807	33.1914	21.58	20.54
S04-E004	65.25	66.24	3237.807	3237.807	18.8385	20.54	21.53
S04-E005	66.24	64.46	3237.807	3237.807	90.7041	21.53	20.24
S04-E006	64.46	65.11	3237.807	3237.807	81.4816	20.24	21.23
S04-E007	65.11	65.06	3237.807	3237.807	2.2139	21.23	21.19
S04-F001	65.06	62.48	3237.807	3237.807	50.2491	21.19	19.13
S04-F002	62.48	63.11	3237.807	3237.807	23.2967	19.13	19.98
S04-F003	63.11	62.07	3237.807	3237.807	25.0948	19.98	19.23
S04-G001	62.07	62.57	3237.807	3237.807	100.0237	19.23	20.59
S04-G002	62.57	60.85	3237.807	3237.807	54.0365	20.59	19.39
S04-G003	60.85	62.83	3237.807	3237.807	51.7567	19.39	21.65
S04-H001	62.83	62.06	3237.807	3237.807	43.3370	21.65	21.01
S04-H002	62.06	60.52	2846.307	2846.307	92.7404	21.01	20.07
S04-H003	60.52	61.17	2846.307	2846.307	17.7016	20.07	20.84
S04-H004	61.17	60.62	2846.307	2846.307	13.7273	20.84	20.35
S05-A001	74.50	74.78	2841.500	2841.500	19.7800	36.46	35.13
S05-A002	74.78	73.74	2841.500	2841.500	24.3199	35.13	32.63
S05-A003	73.74	74.70	2841.500	2841.500	63.8490	32.63	30.12
S05-A004	74.70	73.82	2409.000	2409.000	165.1114	30.12	24.21
S05-B001	73.82	72.15	2409.000	2409.000	77.2818	24.21	22.09
S05-B002	72.15	72.17	2409.000	2409.000	114.9237	22.09	21.81
S05-B003	72.17	70.53	2409.000	2409.000	15.6741	21.81	20.46
S05-B004	70.53	71.69	2409.000	2409.000	26.6037	20.46	21.52
S05-C001	71.69	70.12	2409.000	2409.000	115.3408	21.52	20.61
S05-C002	70.12	63.82	2409.000	2409.000	43.6703	20.61	16.06
S05-D001	63.82	63.90	2409.000	2409.000	208.5459	16.06	20.40
S05-D002	63.90	62.57	2409.000	2409.000	54.3102	20.40	19.78
S05-E001	62.57	62.88	2409.000	2409.000	17.0889	19.78	20.29
S05-E002	62.88	61.87	2409.000	2409.000	85.5840	20.29	20.24
S05-E003	61.87	62.54	2409.000	2409.000	15.1658	20.24	21.02
S05-E004	62.54	61.46	2409.000	2409.000	43.7788	21.02	20.32
S05-F001	61.46	61.29	2409.000	2409.000	38.9624	20.32	20.54
S05-F002	61.29	61.38	2409.000	2409.000	74.0145	20.54	21.11
S05-F003	61.38	59.30	2409.000	2409.000	134.1461	21.11	20.26
S05-G001	59.30	58.77	2409.000	2409.000	141.2590	20.26	20.97
S05-G002	58.77	57.10	2409.000	2409.000	108.3371	20.97	20.35
S05-H001							

	57.10	59.95	2409.000	2409.000	88.2944	20.35	23.19
S05-H002	59.95	57.98	2409.000	2409.000	30.7675	23.19	21.09
S05-H003	57.98	59.50	2409.000	2409.000	22.2440	21.09	22.65
S05-H004	59.50	57.32	2409.000	2409.000	52.0758	22.65	20.51
S05-H005	57.32	58.84	2409.000	2409.000	53.5818	20.51	22.28
S05-H006	58.84	58.61	2409.000	2409.000	20.2102	22.28	21.98
S05-I001	58.61	58.07	2409.000	2409.000	10.5278	21.98	21.42
S05-I002	58.07	57.80	2409.000	2409.000	81.4076	21.42	21.41
S05-I003	57.80	57.43	2409.000	2409.000	25.6984	21.41	21.13
S05-I004	57.43	56.90	2409.000	2409.000	53.6059	21.13	20.95
S05-J001	56.90	55.39	2409.000	2409.000	65.8338	20.95	20.12
S05-J002	55.39	55.79	2409.000	2409.000	20.7276	20.12	20.81
S05-J003	55.79	54.82	2409.000	2409.000	29.2915	20.81	20.13
S05-L001	54.82	54.63	2409.000	2409.000	3.1234	20.13	19.96
S05-L002	54.63	54.86	2409.000	2409.000	54.4285	19.96	20.93
S05-L003	54.86	54.34	2409.000	2409.000	41.1222	20.93	20.77
P01-A001	75.00	74.93	7000.000	7000.000	134.8498	24.27	24.34
P01-A002	74.93	74.26	7000.000	7000.000	83.6209	24.34	23.89
P01-B001	74.26	74.38	7000.000	7000.000	51.5177	23.89	24.06
P01-B002	74.38	73.17	7000.000	7000.000	200.8283	24.06	23.39
P01-B003	73.17	72.59	7000.000	7000.000	79.4284	23.39	23.07
P01-C001	72.59	73.13	7000.000	7000.000	37.7844	23.07	23.60
P01-C002	73.13	71.88	7000.000	7000.000	246.4223	23.60	23.06
P01-D001	71.88	71.94	7000.000	7000.000	23.7900	23.06	23.17
P01-D002	71.94	70.27	7000.000	7000.000	290.7681	23.17	22.55
P01-E001	70.27	69.04	7000.000	7000.000	471.1893	22.55	22.88
P01-F001	69.04	68.14	7000.000	7000.000	313.0687	22.88	23.01
P01-G001	68.14	67.84	7000.000	7000.000	95.1037	23.01	23.01
P01-G002	67.84	65.85	7000.000	7000.000	172.5851	23.01	21.84
P01-G003	65.85	66.49	7000.000	7000.000	33.0816	21.84	22.57
P01-H001	66.49	66.39	7000.000	7000.000	133.7378	22.57	22.93
P01-H002	66.39	65.10	7000.000	7000.000	79.2772	22.93	22.03
P01-H003	65.10	66.21	7000.000	7000.000	247.0252	22.03	23.86
P01-H004	66.21	65.30	7000.000	7000.000	41.2452	23.86	23.12
P01-I001	65.30	64.89	7000.000	7000.000	91.3397	23.12	23.02
P01-I002	64.89	64.54	7000.000	7000.000	267.3829	23.02	23.51
P01-J001	64.54	64.22	7000.000	7000.000	31.4363	23.51	23.30
P01-J002	64.22	64.43	7000.000	7000.000	153.1214	23.30	23.89
P01-J003	64.43	64.18	7000.000	7000.000	28.6369	23.89	23.72
P01-L001	64.18	63.30	7000.000	7000.000	125.8825	23.72	23.23
S01-F002	90.98	90.11	9590.210	9590.210	171.9162	27.81	26.79
S01-A001	99.55	99.36	10930.209	10930.209	60.5864	39.20	38.60
N10-A004	97.70	96.84	23065.652	23065.652	289.9982	38.76	37.89
S01-E001	94.10	93.85	10022.710	10022.710	136.3335	31.21	30.46
S02-E001	88.51	90.70	9550.882	9550.882	245.0768	26.73	27.61
S02-F002							

	84.06	85.75	9550.883	9550.883	63.8849	22.86	24.05
S02-F001	86.78	87.66	9550.883	9550.883	62.5969	25.05	25.57
S02-F002	87.66	84.07	9550.883	9550.883	238.5464	25.57	22.91
S02-F003	84.07	85.74	9550.883	9550.883	242.7757	22.91	24.05
S02-F004	85.74	84.27	9550.883	9550.883	93.2110	24.05	22.99
S02-F005	84.27	85.29	9550.883	9550.883	99.1323	22.99	23.70
S02-F006	85.29	83.71	9550.883	9550.883	46.6909	23.70	22.58
S02-F007	83.71	84.06	9550.883	9550.883	77.1697	22.58	22.86
S02-F009	85.75	84.01	9550.883	9550.883	38.0233	24.05	22.80
N09_A001	100.00	100.21	23137.204	23137.204	124.6864	43.52	43.41
N09_A002	100.21	98.47	23137.204	23137.204	364.7448	43.41	41.67
N09_A003	98.47	98.06	23137.204	23137.204	624.4293	41.67	40.45
N09_A004	98.06	97.52	23137.204	23137.204	82.8263	40.45	39.99
N09_A005	97.52	97.49	23137.204	23137.204	109.7989	39.99	39.82
N09_B001	97.49	97.40	23137.204	23137.204	134.1294	39.82	39.58
N09_B002	97.40	96.30	23137.204	23137.204	220.9562	39.58	38.60
N09_B003	96.30	96.65	23137.204	23137.204	101.7905	38.60	38.72
N09_B004	96.65	95.93	23137.204	23137.204	124.0970	38.72	38.11
N09_B005	95.93	95.89	23137.204	23137.204	197.8859	38.11	37.88
N09_B006	95.89	94.36	23137.204	23137.204	339.9716	37.88	36.56
N09_B007	94.36	93.64	23137.204	23137.204	438.1015	36.56	35.76
N09_C001	93.64	93.49	23137.205	23137.205	291.2787	35.76	35.47
N09_C002	93.49	91.27	23137.205	23137.205	470.9728	35.47	33.76
N09_C003	91.27	91.32	23137.205	23137.205	275.8858	33.76	33.70
N09_C004	91.32	90.29	23137.205	23137.205	128.8384	33.70	32.97
N09_C005	90.29	88.82	23137.205	23137.206	819.9761	32.97	31.87
N09_D001	88.82	88.75	23137.206	23137.206	146.3408	31.87	31.82
N09_D002	88.75	87.96	23137.206	23137.206	79.5320	31.82	31.27
N09_D003	87.96	88.13	23137.206	23137.206	242.3631	31.27	31.42
N09_D004	88.13	87.05	23137.206	23137.206	170.8348	31.42	30.68
N09_D005	87.05	87.33	23137.206	23137.206	91.0216	30.68	30.90
N09_D006	87.33	86.14	23137.206	23137.206	178.5992	30.90	30.10
N09_D007	86.14	86.50	23137.206	23137.206	139.3845	30.10	30.40
N09_D008	86.50	85.48	23137.206	23137.206	131.6342	30.40	29.72
N09_D009	85.48	85.40	23137.206	23137.206	128.0312	29.72	29.72

### Pipe Quality Summary Report : 0.000 hours

Pipe Quality Summary			
Pipe Name	Specific Gravity	Heating Value	Wobbe Index
		MJ/m3	MJ/m3

	Head	Tail	Head	Tail	Head	Tail
N01-A001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N01-B001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N02-A001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N02-B001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N02-C001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N02-D001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N02-E001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N03-A001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N03-B001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N03-C001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N03-D001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N03-E001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N04-A001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N04-A002	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N04-A003	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N04-B001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N04-C001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N04-C002	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N04-C003	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N04-D001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N05-A001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N05-B001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N05-B002	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N05-B003	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N05-B004	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N05-C001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N05-D001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N06-A001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N06-A002	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N06-B001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N06-B002	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N06-C001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N06-D001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N06-E001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N07-A001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N07-B001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N07-B002	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N07-C001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N07-C002	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N07-D001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N07-E001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N08-A001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N08-B001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N08-B002	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000

N08-C001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N08-C002	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N08-D001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N08-D002	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N08-D003	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N10-A001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N10-A002	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N10-A003	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N10-B001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N10-C001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N10-C002	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N10-C003	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N10-C004	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N10-C005	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N10-C006	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N10-D001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N10-E001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N10-E002	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N10-E003	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N10-E004	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N11-A001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N11-A002	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N11-A003	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N11-A004	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N11-B001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N11-B002	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N11-B003	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N11-B004	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N11-C001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N11-C002	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N11-C003	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N11-C004	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N11-C005	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N11-D001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N11-D002	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N11-D003	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N11-D004	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N11-E001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N11-E002	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N11-E003	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N11-E004	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S01-A002	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S01-B001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S01-B002	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S01-C001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S01-C002						

	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S01-D001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S01-E002	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S01-F001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S01-G001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S01-G002	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S01-H001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S01-I001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S01-I002	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S01-I003	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S01-J001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S01-J002	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S01-J003	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S01-K001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S01-K002	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S02-A001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S02-B001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S02-B002	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S02-B003	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S02-B004	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S02-B005	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S02-C001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S02-C002	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S02-C003	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S02-C004	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S02-C005	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S02-D001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S02-E002	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S02-E003	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S02-E004	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S02-E005	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S02-E006	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S02-G001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S02-G002	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S02-G003	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S02-G004	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S02-G005	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S02-H001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S02-H002	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S02-H003	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S02-H004	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S02-I001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S02-I002	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S02-J001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S02-J002	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S02-K001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000

	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S03-A002	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S03-A003	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S03-B001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S03-C001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S03-C002	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S03-D001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S03-E001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S03-F001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S03-F002	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S03-F003	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S03-F004	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S03-G001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S03-G002	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S03-H001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S03-H002	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S03-H003	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S03-H004	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S03-H005	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S03-H006	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S03-I001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S03-I002	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S03-I003	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S03-J001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S03-J002	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S03-L001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S03-L002	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S03-L003	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S03-L004	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S03-L005	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S03-L006	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S03-M001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S03-M002	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S03-M003	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S04-A001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S04-A002	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S04-A003	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S04-A004	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S04-A005	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S04-B001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S04-B002	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S04-B003	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S04-B004	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S04-B005	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S04-B006	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S04-B007						

	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S04-B008	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S04-B009	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S04-B010	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S04-C001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S04-C002	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S04-C003	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S04-C004	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S04-C005	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S04-D001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S04-D002	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S04-D003	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S04-E001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S04-E002	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S04-E003	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S04-E004	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S04-E005	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S04-E006	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S04-E007	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S04-F001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S04-F002	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S04-F003	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S04-G001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S04-G002	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S04-G003	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S04-H001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S04-H002	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S04-H003	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S04-H004	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S05-A001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S05-A002	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S05-A003	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S05-A004	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S05-B001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S05-B002	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S05-B003	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S05-B004	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S05-C001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S05-C002	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S05-D001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S05-D002	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S05-E001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S05-E002	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S05-E003	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S05-E004	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S05-E004						



	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S05-F002	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S05-F003	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S05-G001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S05-G002	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S05-H001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S05-H002	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S05-H003	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S05-H004	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S05-H005	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S05-H006	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S05-I001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S05-I002	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S05-I003	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S05-I004	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S05-J001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S05-J002	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S05-J003	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S05-L001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S05-L002	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S05-L003	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
P01-A001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
P01-A002	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
P01-B001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
P01-B002	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
P01-B003	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
P01-C001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
P01-C002	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
P01-D001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
P01-D002	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
P01-E001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
P01-F001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
P01-G001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
P01-G002	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
P01-G003	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
P01-H001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
P01-H002	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
P01-H003	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
P01-H004	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
P01-I001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
P01-I002	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
P01-J001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
P01-J002	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
P01-J003	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
P01-L001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S05-F003						

	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S01-A001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N10-A004	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S01-E001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S02-E001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S02-F008	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S02-F001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S02-F002	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S02-F003	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S02-F004	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S02-F005	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S02-F006	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S02-F007	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
S02-F009	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N09_A001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N09_A002	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N09_A003	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N09_A004	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N09_A005	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N09_B001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N09_B002	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N09_B003	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N09_B004	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N09_B005	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N09_B006	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N09_B007	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N09_C001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N09_C002	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N09_C003	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N09_C004	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N09_C005	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N09_D001	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N09_D002	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N09_D003	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N09_D004	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N09_D005	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N09_D006	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N09_D007	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N09_D008	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000
N09_D009	0.6325	0.6325	35.9734	35.9734	0.0000	0.0000

Pipe Quality Summary			
Pipe Name	C1	C2	C3
	%	%	%

	Head	Tail	Head	Tail	Head	Tail
N01-A001	89.20	89.20	5.90	5.90	1.81	1.81
N01-B001	89.20	89.20	5.90	5.90	1.81	1.81
N02-A001	89.20	89.20	5.90	5.90	1.81	1.81
N02-B001	89.20	89.20	5.90	5.90	1.81	1.81
N02-C001	89.20	89.20	5.90	5.90	1.81	1.81
N02-D001	89.20	89.20	5.90	5.90	1.81	1.81
N02-E001	89.20	89.20	5.90	5.90	1.81	1.81
N03-A001	89.20	89.20	5.90	5.90	1.81	1.81
N03-B001	89.20	89.20	5.90	5.90	1.81	1.81
N03-C001	89.20	89.20	5.90	5.90	1.81	1.81
N03-D001	89.20	89.20	5.90	5.90	1.81	1.81
N03-E001	89.20	89.20	5.90	5.90	1.81	1.81
N04-A001	89.20	89.20	5.90	5.90	1.81	1.81
N04-A002	89.20	89.20	5.90	5.90	1.81	1.81
N04-A003	89.20	89.20	5.90	5.90	1.81	1.81
N04-B001	89.20	89.20	5.90	5.90	1.81	1.81
N04-C001	89.20	89.20	5.90	5.90	1.81	1.81
N04-C002	89.20	89.20	5.90	5.90	1.81	1.81
N04-C003	89.20	89.20	5.90	5.90	1.81	1.81
N04-D001	89.20	89.20	5.90	5.90	1.81	1.81
N05-A001	89.20	89.20	5.90	5.90	1.81	1.81
N05-B001	89.20	89.20	5.90	5.90	1.81	1.81
N05-B002	89.20	89.20	5.90	5.90	1.81	1.81
N05-B003	89.20	89.20	5.90	5.90	1.81	1.81
N05-B004	89.20	89.20	5.90	5.90	1.81	1.81
N05-C001	89.20	89.20	5.90	5.90	1.81	1.81
N05-D001	89.20	89.20	5.90	5.90	1.81	1.81
N06-A001	89.20	89.20	5.90	5.90	1.81	1.81
N06-A002	89.20	89.20	5.90	5.90	1.81	1.81
N06-B001	89.20	89.20	5.90	5.90	1.81	1.81
N06-B002	89.20	89.20	5.90	5.90	1.81	1.81
N06-C001	89.20	89.20	5.90	5.90	1.81	1.81
N06-D001	89.20	89.20	5.90	5.90	1.81	1.81
N06-E001	89.20	89.20	5.90	5.90	1.81	1.81
N07-A001	89.20	89.20	5.90	5.90	1.81	1.81
N07-B001	89.20	89.20	5.90	5.90	1.81	1.81
N07-B002	89.20	89.20	5.90	5.90	1.81	1.81
N07-C001	89.20	89.20	5.90	5.90	1.81	1.81
N07-C002	89.20	89.20	5.90	5.90	1.81	1.81
N07-D001	89.20	89.20	5.90	5.90	1.81	1.81
N07-E001	89.20	89.20	5.90	5.90	1.81	1.81
N08-A001	89.20	89.20	5.90	5.90	1.81	1.81
N08-B001	89.20	89.20	5.90	5.90	1.81	1.81
N08-B002	89.20	89.20	5.90	5.90	1.81	1.81

N08-C001	89.20	89.20	5.90	5.90	1.81	1.81
N08-C002	89.20	89.20	5.90	5.90	1.81	1.81
N08-D001	89.20	89.20	5.90	5.90	1.81	1.81
N08-D002	89.20	89.20	5.90	5.90	1.81	1.81
N08-D003	89.20	89.20	5.90	5.90	1.81	1.81
N10-A001	89.20	89.20	5.90	5.90	1.81	1.81
N10-A002	89.20	89.20	5.90	5.90	1.81	1.81
N10-A003	89.20	89.20	5.90	5.90	1.81	1.81
N10-B001	89.20	89.20	5.90	5.90	1.81	1.81
N10-C001	89.20	89.20	5.90	5.90	1.81	1.81
N10-C002	89.20	89.20	5.90	5.90	1.81	1.81
N10-C003	89.20	89.20	5.90	5.90	1.81	1.81
N10-C004	89.20	89.20	5.90	5.90	1.81	1.81
N10-C005	89.20	89.20	5.90	5.90	1.81	1.81
N10-C006	89.20	89.20	5.90	5.90	1.81	1.81
N10-D001	89.20	89.20	5.90	5.90	1.81	1.81
N10-E001	89.20	89.20	5.90	5.90	1.81	1.81
N10-E002	89.20	89.20	5.90	5.90	1.81	1.81
N10-E003	89.20	89.20	5.90	5.90	1.81	1.81
N10-E004	89.20	89.20	5.90	5.90	1.81	1.81
N11-A001	89.20	89.20	5.90	5.90	1.81	1.81
N11-A002	89.20	89.20	5.90	5.90	1.81	1.81
N11-A003	89.20	89.20	5.90	5.90	1.81	1.81
N11-A004	89.20	89.20	5.90	5.90	1.81	1.81
N11-B001	89.20	89.20	5.90	5.90	1.81	1.81
N11-B002	89.20	89.20	5.90	5.90	1.81	1.81
N11-B003	89.20	89.20	5.90	5.90	1.81	1.81
N11-B004	89.20	89.20	5.90	5.90	1.81	1.81
N11-C001	89.20	89.20	5.90	5.90	1.81	1.81
N11-C002	89.20	89.20	5.90	5.90	1.81	1.81
N11-C003	89.20	89.20	5.90	5.90	1.81	1.81
N11-C004	89.20	89.20	5.90	5.90	1.81	1.81
N11-C005	89.20	89.20	5.90	5.90	1.81	1.81
N11-D001	89.20	89.20	5.90	5.90	1.81	1.81
N11-D002	89.20	89.20	5.90	5.90	1.81	1.81
N11-D003	89.20	89.20	5.90	5.90	1.81	1.81
N11-D004	89.20	89.20	5.90	5.90	1.81	1.81
N11-E001	89.20	89.20	5.90	5.90	1.81	1.81
N11-E002	89.20	89.20	5.90	5.90	1.81	1.81
N11-E003	89.20	89.20	5.90	5.90	1.81	1.81
N11-E004	89.20	89.20	5.90	5.90	1.81	1.81
S01-A002	89.20	89.20	5.90	5.90	1.81	1.81
S01-B001	89.20	89.20	5.90	5.90	1.81	1.81
S01-B002	89.20	89.20	5.90	5.90	1.81	1.81
S01-C001	89.20	89.20	5.90	5.90	1.81	1.81
S01-C002						

	89.20	89.20	5.90	5.90	1.81	1.81
S01-D001	89.20	89.20	5.90	5.90	1.81	1.81
S01-E002	89.20	89.20	5.90	5.90	1.81	1.81
S01-F001	89.20	89.20	5.90	5.90	1.81	1.81
S01-G001	89.20	89.20	5.90	5.90	1.81	1.81
S01-G002	89.20	89.20	5.90	5.90	1.81	1.81
S01-H001	89.20	89.20	5.90	5.90	1.81	1.81
S01-I001	89.20	89.20	5.90	5.90	1.81	1.81
S01-I002	89.20	89.20	5.90	5.90	1.81	1.81
S01-I003	89.20	89.20	5.90	5.90	1.81	1.81
S01-J001	89.20	89.20	5.90	5.90	1.81	1.81
S01-J002	89.20	89.20	5.90	5.90	1.81	1.81
S01-J003	89.20	89.20	5.90	5.90	1.81	1.81
S01-K001	89.20	89.20	5.90	5.90	1.81	1.81
S01-K002	89.20	89.20	5.90	5.90	1.81	1.81
S02-A001	89.20	89.20	5.90	5.90	1.81	1.81
S02-B001	89.20	89.20	5.90	5.90	1.81	1.81
S02-B002	89.20	89.20	5.90	5.90	1.81	1.81
S02-B003	89.20	89.20	5.90	5.90	1.81	1.81
S02-B004	89.20	89.20	5.90	5.90	1.81	1.81
S02-B005	89.20	89.20	5.90	5.90	1.81	1.81
S02-C001	89.20	89.20	5.90	5.90	1.81	1.81
S02-C002	89.20	89.20	5.90	5.90	1.81	1.81
S02-C003	89.20	89.20	5.90	5.90	1.81	1.81
S02-C004	89.20	89.20	5.90	5.90	1.81	1.81
S02-C005	89.20	89.20	5.90	5.90	1.81	1.81
S02-D001	89.20	89.20	5.90	5.90	1.81	1.81
S02-E002	89.20	89.20	5.90	5.90	1.81	1.81
S02-E003	89.20	89.20	5.90	5.90	1.81	1.81
S02-E004	89.20	89.20	5.90	5.90	1.81	1.81
S02-E005	89.20	89.20	5.90	5.90	1.81	1.81
S02-E006	89.20	89.20	5.90	5.90	1.81	1.81
S02-G001	89.20	89.20	5.90	5.90	1.81	1.81
S02-G002	89.20	89.20	5.90	5.90	1.81	1.81
S02-G003	89.20	89.20	5.90	5.90	1.81	1.81
S02-G004	89.20	89.20	5.90	5.90	1.81	1.81
S02-G005	89.20	89.20	5.90	5.90	1.81	1.81
S02-H001	89.20	89.20	5.90	5.90	1.81	1.81
S02-H002	89.20	89.20	5.90	5.90	1.81	1.81
S02-H003	89.20	89.20	5.90	5.90	1.81	1.81
S02-H004	89.20	89.20	5.90	5.90	1.81	1.81
S02-I001	89.20	89.20	5.90	5.90	1.81	1.81
S02-I002	89.20	89.20	5.90	5.90	1.81	1.81
S02-J001	89.20	89.20	5.90	5.90	1.81	1.81
S02-J002	89.20	89.20	5.90	5.90	1.81	1.81
S02-K001						

	89.20	89.20	5.90	5.90	1.81	1.81
S03-A002	89.20	89.20	5.90	5.90	1.81	1.81
S03-A003	89.20	89.20	5.90	5.90	1.81	1.81
S03-B001	89.20	89.20	5.90	5.90	1.81	1.81
S03-C001	89.20	89.20	5.90	5.90	1.81	1.81
S03-C002	89.20	89.20	5.90	5.90	1.81	1.81
S03-D001	89.20	89.20	5.90	5.90	1.81	1.81
S03-E001	89.20	89.20	5.90	5.90	1.81	1.81
S03-F001	89.20	89.20	5.90	5.90	1.81	1.81
S03-F002	89.20	89.20	5.90	5.90	1.81	1.81
S03-F003	89.20	89.20	5.90	5.90	1.81	1.81
S03-F004	89.20	89.20	5.90	5.90	1.81	1.81
S03-G001	89.20	89.20	5.90	5.90	1.81	1.81
S03-G002	89.20	89.20	5.90	5.90	1.81	1.81
S03-H001	89.20	89.20	5.90	5.90	1.81	1.81
S03-H002	89.20	89.20	5.90	5.90	1.81	1.81
S03-H003	89.20	89.20	5.90	5.90	1.81	1.81
S03-H004	89.20	89.20	5.90	5.90	1.81	1.81
S03-H005	89.20	89.20	5.90	5.90	1.81	1.81
S03-H006	89.20	89.20	5.90	5.90	1.81	1.81
S03-I001	89.20	89.20	5.90	5.90	1.81	1.81
S03-I002	89.20	89.20	5.90	5.90	1.81	1.81
S03-I003	89.20	89.20	5.90	5.90	1.81	1.81
S03-J001	89.20	89.20	5.90	5.90	1.81	1.81
S03-J002	89.20	89.20	5.90	5.90	1.81	1.81
S03-L001	89.20	89.20	5.90	5.90	1.81	1.81
S03-L002	89.20	89.20	5.90	5.90	1.81	1.81
S03-L003	89.20	89.20	5.90	5.90	1.81	1.81
S03-L004	89.20	89.20	5.90	5.90	1.81	1.81
S03-L005	89.20	89.20	5.90	5.90	1.81	1.81
S03-L006	89.20	89.20	5.90	5.90	1.81	1.81
S03-M001	89.20	89.20	5.90	5.90	1.81	1.81
S03-M002	89.20	89.20	5.90	5.90	1.81	1.81
S03-M003	89.20	89.20	5.90	5.90	1.81	1.81
S04-A001	89.20	89.20	5.90	5.90	1.81	1.81
S04-A002	89.20	89.20	5.90	5.90	1.81	1.81
S04-A003	89.20	89.20	5.90	5.90	1.81	1.81
S04-A004	89.20	89.20	5.90	5.90	1.81	1.81
S04-A005	89.20	89.20	5.90	5.90	1.81	1.81
S04-B001	89.20	89.20	5.90	5.90	1.81	1.81
S04-B002	89.20	89.20	5.90	5.90	1.81	1.81
S04-B003	89.20	89.20	5.90	5.90	1.81	1.81
S04-B004	89.20	89.20	5.90	5.90	1.81	1.81
S04-B005	89.20	89.20	5.90	5.90	1.81	1.81
S04-B006	89.20	89.20	5.90	5.90	1.81	1.81
S04-B007						

	89.20	89.20	5.90	5.90	1.81	1.81
S04-B008	89.20	89.20	5.90	5.90	1.81	1.81
S04-B009	89.20	89.20	5.90	5.90	1.81	1.81
S04-B010	89.20	89.20	5.90	5.90	1.81	1.81
S04-C001	89.20	89.20	5.90	5.90	1.81	1.81
S04-C002	89.20	89.20	5.90	5.90	1.81	1.81
S04-C003	89.20	89.20	5.90	5.90	1.81	1.81
S04-C004	89.20	89.20	5.90	5.90	1.81	1.81
S04-C005	89.20	89.20	5.90	5.90	1.81	1.81
S04-D001	89.20	89.20	5.90	5.90	1.81	1.81
S04-D002	89.20	89.20	5.90	5.90	1.81	1.81
S04-D003	89.20	89.20	5.90	5.90	1.81	1.81
S04-E001	89.20	89.20	5.90	5.90	1.81	1.81
S04-E002	89.20	89.20	5.90	5.90	1.81	1.81
S04-E003	89.20	89.20	5.90	5.90	1.81	1.81
S04-E004	89.20	89.20	5.90	5.90	1.81	1.81
S04-E005	89.20	89.20	5.90	5.90	1.81	1.81
S04-E006	89.20	89.20	5.90	5.90	1.81	1.81
S04-E007	89.20	89.20	5.90	5.90	1.81	1.81
S04-F001	89.20	89.20	5.90	5.90	1.81	1.81
S04-F002	89.20	89.20	5.90	5.90	1.81	1.81
S04-F003	89.20	89.20	5.90	5.90	1.81	1.81
S04-G001	89.20	89.20	5.90	5.90	1.81	1.81
S04-G002	89.20	89.20	5.90	5.90	1.81	1.81
S04-G003	89.20	89.20	5.90	5.90	1.81	1.81
S04-H001	89.20	89.20	5.90	5.90	1.81	1.81
S04-H002	89.20	89.20	5.90	5.90	1.81	1.81
S04-H003	89.20	89.20	5.90	5.90	1.81	1.81
S04-H004	89.20	89.20	5.90	5.90	1.81	1.81
S05-A001	89.20	89.20	5.90	5.90	1.81	1.81
S05-A002	89.20	89.20	5.90	5.90	1.81	1.81
S05-A003	89.20	89.20	5.90	5.90	1.81	1.81
S05-A004	89.20	89.20	5.90	5.90	1.81	1.81
S05-B001	89.20	89.20	5.90	5.90	1.81	1.81
S05-B002	89.20	89.20	5.90	5.90	1.81	1.81
S05-B003	89.20	89.20	5.90	5.90	1.81	1.81
S05-B004	89.20	89.20	5.90	5.90	1.81	1.81
S05-C001	89.20	89.20	5.90	5.90	1.81	1.81
S05-C002	89.20	89.20	5.90	5.90	1.81	1.81
S05-D001	89.20	89.20	5.90	5.90	1.81	1.81
S05-D002	89.20	89.20	5.90	5.90	1.81	1.81
S05-E001	89.20	89.20	5.90	5.90	1.81	1.81
S05-E002	89.20	89.20	5.90	5.90	1.81	1.81
S05-E003	89.20	89.20	5.90	5.90	1.81	1.81
S05-E004	89.20	89.20	5.90	5.90	1.81	1.81
S05-E004						

	89.20	89.20	5.90	5.90	1.81	1.81
S05-F002	89.20	89.20	5.90	5.90	1.81	1.81
S05-F003	89.20	89.20	5.90	5.90	1.81	1.81
S05-G001	89.20	89.20	5.90	5.90	1.81	1.81
S05-G002	89.20	89.20	5.90	5.90	1.81	1.81
S05-H001	89.20	89.20	5.90	5.90	1.81	1.81
S05-H002	89.20	89.20	5.90	5.90	1.81	1.81
S05-H003	89.20	89.20	5.90	5.90	1.81	1.81
S05-H004	89.20	89.20	5.90	5.90	1.81	1.81
S05-H005	89.20	89.20	5.90	5.90	1.81	1.81
S05-H006	89.20	89.20	5.90	5.90	1.81	1.81
S05-I001	89.20	89.20	5.90	5.90	1.81	1.81
S05-I002	89.20	89.20	5.90	5.90	1.81	1.81
S05-I003	89.20	89.20	5.90	5.90	1.81	1.81
S05-I004	89.20	89.20	5.90	5.90	1.81	1.81
S05-J001	89.20	89.20	5.90	5.90	1.81	1.81
S05-J002	89.20	89.20	5.90	5.90	1.81	1.81
S05-J003	89.20	89.20	5.90	5.90	1.81	1.81
S05-L001	89.20	89.20	5.90	5.90	1.81	1.81
S05-L002	89.20	89.20	5.90	5.90	1.81	1.81
S05-L003	89.20	89.20	5.90	5.90	1.81	1.81
P01-A001	89.20	89.20	5.90	5.90	1.81	1.81
P01-A002	89.20	89.20	5.90	5.90	1.81	1.81
P01-B001	89.20	89.20	5.90	5.90	1.81	1.81
P01-B002	89.20	89.20	5.90	5.90	1.81	1.81
P01-B003	89.20	89.20	5.90	5.90	1.81	1.81
P01-C001	89.20	89.20	5.90	5.90	1.81	1.81
P01-C002	89.20	89.20	5.90	5.90	1.81	1.81
P01-D001	89.20	89.20	5.90	5.90	1.81	1.81
P01-D002	89.20	89.20	5.90	5.90	1.81	1.81
P01-E001	89.20	89.20	5.90	5.90	1.81	1.81
P01-F001	89.20	89.20	5.90	5.90	1.81	1.81
P01-G001	89.20	89.20	5.90	5.90	1.81	1.81
P01-G002	89.20	89.20	5.90	5.90	1.81	1.81
P01-G003	89.20	89.20	5.90	5.90	1.81	1.81
P01-H001	89.20	89.20	5.90	5.90	1.81	1.81
P01-H002	89.20	89.20	5.90	5.90	1.81	1.81
P01-H003	89.20	89.20	5.90	5.90	1.81	1.81
P01-H004	89.20	89.20	5.90	5.90	1.81	1.81
P01-I001	89.20	89.20	5.90	5.90	1.81	1.81
P01-I002	89.20	89.20	5.90	5.90	1.81	1.81
P01-J001	89.20	89.20	5.90	5.90	1.81	1.81
P01-J002	89.20	89.20	5.90	5.90	1.81	1.81
P01-J003	89.20	89.20	5.90	5.90	1.81	1.81
P01-L001	89.20	89.20	5.90	5.90	1.81	1.81
S04-F003						



	89.20	89.20	5.90	5.90	1.81	1.81
S01-A001	89.20	89.20	5.90	5.90	1.81	1.81
N10-A004	89.20	89.20	5.90	5.90	1.81	1.81
S01-E001	89.20	89.20	5.90	5.90	1.81	1.81
S02-E001	89.20	89.20	5.90	5.90	1.81	1.81
S02-F008	89.20	89.20	5.90	5.90	1.81	1.81
S02-F001	89.20	89.20	5.90	5.90	1.81	1.81
S02-F002	89.20	89.20	5.90	5.90	1.81	1.81
S02-F003	89.20	89.20	5.90	5.90	1.81	1.81
S02-F004	89.20	89.20	5.90	5.90	1.81	1.81
S02-F005	89.20	89.20	5.90	5.90	1.81	1.81
S02-F006	89.20	89.20	5.90	5.90	1.81	1.81
S02-F007	89.20	89.20	5.90	5.90	1.81	1.81
S02-F009	89.20	89.20	5.90	5.90	1.81	1.81
N09_A001	89.20	89.20	5.90	5.90	1.81	1.81
N09_A002	89.20	89.20	5.90	5.90	1.81	1.81
N09_A003	89.20	89.20	5.90	5.90	1.81	1.81
N09_A004	89.20	89.20	5.90	5.90	1.81	1.81
N09_A005	89.20	89.20	5.90	5.90	1.81	1.81
N09_B001	89.20	89.20	5.90	5.90	1.81	1.81
N09_B002	89.20	89.20	5.90	5.90	1.81	1.81
N09_B003	89.20	89.20	5.90	5.90	1.81	1.81
N09_B004	89.20	89.20	5.90	5.90	1.81	1.81
N09_B005	89.20	89.20	5.90	5.90	1.81	1.81
N09_B006	89.20	89.20	5.90	5.90	1.81	1.81
N09_B007	89.20	89.20	5.90	5.90	1.81	1.81
N09_C001	89.20	89.20	5.90	5.90	1.81	1.81
N09_C002	89.20	89.20	5.90	5.90	1.81	1.81
N09_C003	89.20	89.20	5.90	5.90	1.81	1.81
N09_C004	89.20	89.20	5.90	5.90	1.81	1.81
N09_C005	89.20	89.20	5.90	5.90	1.81	1.81
N09_D001	89.20	89.20	5.90	5.90	1.81	1.81
N09_D002	89.20	89.20	5.90	5.90	1.81	1.81
N09_D003	89.20	89.20	5.90	5.90	1.81	1.81
N09_D004	89.20	89.20	5.90	5.90	1.81	1.81
N09_D005	89.20	89.20	5.90	5.90	1.81	1.81
N09_D006	89.20	89.20	5.90	5.90	1.81	1.81
N09_D007	89.20	89.20	5.90	5.90	1.81	1.81
N09_D008	89.20	89.20	5.90	5.90	1.81	1.81
N09_D009	89.20	89.20	5.90	5.90	1.81	1.81

Pipe Quality Summary			
Pipe Name	IC4	NC4	IC5
	%	%	%

	Head	Tail	Head	Tail	Head	Tail
N01-A001	0.29	0.29	0.40	0.40	0.12	0.12
N01-B001	0.29	0.29	0.40	0.40	0.12	0.12
N02-A001	0.29	0.29	0.40	0.40	0.12	0.12
N02-B001	0.29	0.29	0.40	0.40	0.12	0.12
N02-C001	0.29	0.29	0.40	0.40	0.12	0.12
N02-D001	0.29	0.29	0.40	0.40	0.12	0.12
N02-E001	0.29	0.29	0.40	0.40	0.12	0.12
N03-A001	0.29	0.29	0.40	0.40	0.12	0.12
N03-B001	0.29	0.29	0.40	0.40	0.12	0.12
N03-C001	0.29	0.29	0.40	0.40	0.12	0.12
N03-D001	0.29	0.29	0.40	0.40	0.12	0.12
N03-E001	0.29	0.29	0.40	0.40	0.12	0.12
N04-A001	0.29	0.29	0.40	0.40	0.12	0.12
N04-A002	0.29	0.29	0.40	0.40	0.12	0.12
N04-A003	0.29	0.29	0.40	0.40	0.12	0.12
N04-B001	0.29	0.29	0.40	0.40	0.12	0.12
N04-C001	0.29	0.29	0.40	0.40	0.12	0.12
N04-C002	0.29	0.29	0.40	0.40	0.12	0.12
N04-C003	0.29	0.29	0.40	0.40	0.12	0.12
N04-D001	0.29	0.29	0.40	0.40	0.12	0.12
N05-A001	0.29	0.29	0.40	0.40	0.12	0.12
N05-B001	0.29	0.29	0.40	0.40	0.12	0.12
N05-B002	0.29	0.29	0.40	0.40	0.12	0.12
N05-B003	0.29	0.29	0.40	0.40	0.12	0.12
N05-B004	0.29	0.29	0.40	0.40	0.12	0.12
N05-C001	0.29	0.29	0.40	0.40	0.12	0.12
N05-D001	0.29	0.29	0.40	0.40	0.12	0.12
N06-A001	0.29	0.29	0.40	0.40	0.12	0.12
N06-A002	0.29	0.29	0.40	0.40	0.12	0.12
N06-B001	0.29	0.29	0.40	0.40	0.12	0.12
N06-B002	0.29	0.29	0.40	0.40	0.12	0.12
N06-C001	0.29	0.29	0.40	0.40	0.12	0.12
N06-D001	0.29	0.29	0.40	0.40	0.12	0.12
N06-E001	0.29	0.29	0.40	0.40	0.12	0.12
N07-A001	0.29	0.29	0.40	0.40	0.12	0.12
N07-B001	0.29	0.29	0.40	0.40	0.12	0.12
N07-B002	0.29	0.29	0.40	0.40	0.12	0.12
N07-C001	0.29	0.29	0.40	0.40	0.12	0.12
N07-C002	0.29	0.29	0.40	0.40	0.12	0.12
N07-D001	0.29	0.29	0.40	0.40	0.12	0.12
N07-E001	0.29	0.29	0.40	0.40	0.12	0.12
N08-A001	0.29	0.29	0.40	0.40	0.12	0.12
N08-B001	0.29	0.29	0.40	0.40	0.12	0.12
N08-B002	0.29	0.29	0.40	0.40	0.12	0.12

N08-C001	0.29	0.29	0.40	0.40	0.12	0.12
N08-C002	0.29	0.29	0.40	0.40	0.12	0.12
N08-D001	0.29	0.29	0.40	0.40	0.12	0.12
N08-D002	0.29	0.29	0.40	0.40	0.12	0.12
N08-D003	0.29	0.29	0.40	0.40	0.12	0.12
N10-A001	0.29	0.29	0.40	0.40	0.12	0.12
N10-A002	0.29	0.29	0.40	0.40	0.12	0.12
N10-A003	0.29	0.29	0.40	0.40	0.12	0.12
N10-B001	0.29	0.29	0.40	0.40	0.12	0.12
N10-C001	0.29	0.29	0.40	0.40	0.12	0.12
N10-C002	0.29	0.29	0.40	0.40	0.12	0.12
N10-C003	0.29	0.29	0.40	0.40	0.12	0.12
N10-C004	0.29	0.29	0.40	0.40	0.12	0.12
N10-C005	0.29	0.29	0.40	0.40	0.12	0.12
N10-C006	0.29	0.29	0.40	0.40	0.12	0.12
N10-D001	0.29	0.29	0.40	0.40	0.12	0.12
N10-E001	0.29	0.29	0.40	0.40	0.12	0.12
N10-E002	0.29	0.29	0.40	0.40	0.12	0.12
N10-E003	0.29	0.29	0.40	0.40	0.12	0.12
N10-E004	0.29	0.29	0.40	0.40	0.12	0.12
N11-A001	0.29	0.29	0.40	0.40	0.12	0.12
N11-A002	0.29	0.29	0.40	0.40	0.12	0.12
N11-A003	0.29	0.29	0.40	0.40	0.12	0.12
N11-A004	0.29	0.29	0.40	0.40	0.12	0.12
N11-B001	0.29	0.29	0.40	0.40	0.12	0.12
N11-B002	0.29	0.29	0.40	0.40	0.12	0.12
N11-B003	0.29	0.29	0.40	0.40	0.12	0.12
N11-B004	0.29	0.29	0.40	0.40	0.12	0.12
N11-C001	0.29	0.29	0.40	0.40	0.12	0.12
N11-C002	0.29	0.29	0.40	0.40	0.12	0.12
N11-C003	0.29	0.29	0.40	0.40	0.12	0.12
N11-C004	0.29	0.29	0.40	0.40	0.12	0.12
N11-C005	0.29	0.29	0.40	0.40	0.12	0.12
N11-D001	0.29	0.29	0.40	0.40	0.12	0.12
N11-D002	0.29	0.29	0.40	0.40	0.12	0.12
N11-D003	0.29	0.29	0.40	0.40	0.12	0.12
N11-D004	0.29	0.29	0.40	0.40	0.12	0.12
N11-E001	0.29	0.29	0.40	0.40	0.12	0.12
N11-E002	0.29	0.29	0.40	0.40	0.12	0.12
N11-E003	0.29	0.29	0.40	0.40	0.12	0.12
N11-E004	0.29	0.29	0.40	0.40	0.12	0.12
S01-A002	0.29	0.29	0.40	0.40	0.12	0.12
S01-B001	0.29	0.29	0.40	0.40	0.12	0.12
S01-B002	0.29	0.29	0.40	0.40	0.12	0.12
S01-C001	0.29	0.29	0.40	0.40	0.12	0.12
S01-C002						

	0.29	0.29	0.40	0.40	0.12	0.12
S01-D001	0.29	0.29	0.40	0.40	0.12	0.12
S01-E002	0.29	0.29	0.40	0.40	0.12	0.12
S01-F001	0.29	0.29	0.40	0.40	0.12	0.12
S01-G001	0.29	0.29	0.40	0.40	0.12	0.12
S01-G002	0.29	0.29	0.40	0.40	0.12	0.12
S01-H001	0.29	0.29	0.40	0.40	0.12	0.12
S01-I001	0.29	0.29	0.40	0.40	0.12	0.12
S01-I002	0.29	0.29	0.40	0.40	0.12	0.12
S01-I003	0.29	0.29	0.40	0.40	0.12	0.12
S01-J001	0.29	0.29	0.40	0.40	0.12	0.12
S01-J002	0.29	0.29	0.40	0.40	0.12	0.12
S01-J003	0.29	0.29	0.40	0.40	0.12	0.12
S01-K001	0.29	0.29	0.40	0.40	0.12	0.12
S01-K002	0.29	0.29	0.40	0.40	0.12	0.12
S02-A001	0.29	0.29	0.40	0.40	0.12	0.12
S02-B001	0.29	0.29	0.40	0.40	0.12	0.12
S02-B002	0.29	0.29	0.40	0.40	0.12	0.12
S02-B003	0.29	0.29	0.40	0.40	0.12	0.12
S02-B004	0.29	0.29	0.40	0.40	0.12	0.12
S02-B005	0.29	0.29	0.40	0.40	0.12	0.12
S02-C001	0.29	0.29	0.40	0.40	0.12	0.12
S02-C002	0.29	0.29	0.40	0.40	0.12	0.12
S02-C003	0.29	0.29	0.40	0.40	0.12	0.12
S02-C004	0.29	0.29	0.40	0.40	0.12	0.12
S02-C005	0.29	0.29	0.40	0.40	0.12	0.12
S02-D001	0.29	0.29	0.40	0.40	0.12	0.12
S02-E002	0.29	0.29	0.40	0.40	0.12	0.12
S02-E003	0.29	0.29	0.40	0.40	0.12	0.12
S02-E004	0.29	0.29	0.40	0.40	0.12	0.12
S02-E005	0.29	0.29	0.40	0.40	0.12	0.12
S02-E006	0.29	0.29	0.40	0.40	0.12	0.12
S02-G001	0.29	0.29	0.40	0.40	0.12	0.12
S02-G002	0.29	0.29	0.40	0.40	0.12	0.12
S02-G003	0.29	0.29	0.40	0.40	0.12	0.12
S02-G004	0.29	0.29	0.40	0.40	0.12	0.12
S02-G005	0.29	0.29	0.40	0.40	0.12	0.12
S02-H001	0.29	0.29	0.40	0.40	0.12	0.12
S02-H002	0.29	0.29	0.40	0.40	0.12	0.12
S02-H003	0.29	0.29	0.40	0.40	0.12	0.12
S02-H004	0.29	0.29	0.40	0.40	0.12	0.12
S02-I001	0.29	0.29	0.40	0.40	0.12	0.12
S02-I002	0.29	0.29	0.40	0.40	0.12	0.12
S02-J001	0.29	0.29	0.40	0.40	0.12	0.12
S02-J002	0.29	0.29	0.40	0.40	0.12	0.12
S02-K001						

	0.29	0.29	0.40	0.40	0.12	0.12
S03-A002	0.29	0.29	0.40	0.40	0.12	0.12
S03-A003	0.29	0.29	0.40	0.40	0.12	0.12
S03-B001	0.29	0.29	0.40	0.40	0.12	0.12
S03-C001	0.29	0.29	0.40	0.40	0.12	0.12
S03-C002	0.29	0.29	0.40	0.40	0.12	0.12
S03-D001	0.29	0.29	0.40	0.40	0.12	0.12
S03-E001	0.29	0.29	0.40	0.40	0.12	0.12
S03-F001	0.29	0.29	0.40	0.40	0.12	0.12
S03-F002	0.29	0.29	0.40	0.40	0.12	0.12
S03-F003	0.29	0.29	0.40	0.40	0.12	0.12
S03-F004	0.29	0.29	0.40	0.40	0.12	0.12
S03-G001	0.29	0.29	0.40	0.40	0.12	0.12
S03-G002	0.29	0.29	0.40	0.40	0.12	0.12
S03-H001	0.29	0.29	0.40	0.40	0.12	0.12
S03-H002	0.29	0.29	0.40	0.40	0.12	0.12
S03-H003	0.29	0.29	0.40	0.40	0.12	0.12
S03-H004	0.29	0.29	0.40	0.40	0.12	0.12
S03-H005	0.29	0.29	0.40	0.40	0.12	0.12
S03-H006	0.29	0.29	0.40	0.40	0.12	0.12
S03-I001	0.29	0.29	0.40	0.40	0.12	0.12
S03-I002	0.29	0.29	0.40	0.40	0.12	0.12
S03-I003	0.29	0.29	0.40	0.40	0.12	0.12
S03-J001	0.29	0.29	0.40	0.40	0.12	0.12
S03-J002	0.29	0.29	0.40	0.40	0.12	0.12
S03-L001	0.29	0.29	0.40	0.40	0.12	0.12
S03-L002	0.29	0.29	0.40	0.40	0.12	0.12
S03-L003	0.29	0.29	0.40	0.40	0.12	0.12
S03-L004	0.29	0.29	0.40	0.40	0.12	0.12
S03-L005	0.29	0.29	0.40	0.40	0.12	0.12
S03-L006	0.29	0.29	0.40	0.40	0.12	0.12
S03-M001	0.29	0.29	0.40	0.40	0.12	0.12
S03-M002	0.29	0.29	0.40	0.40	0.12	0.12
S03-M003	0.29	0.29	0.40	0.40	0.12	0.12
S04-A001	0.29	0.29	0.40	0.40	0.12	0.12
S04-A002	0.29	0.29	0.40	0.40	0.12	0.12
S04-A003	0.29	0.29	0.40	0.40	0.12	0.12
S04-A004	0.29	0.29	0.40	0.40	0.12	0.12
S04-A005	0.29	0.29	0.40	0.40	0.12	0.12
S04-B001	0.29	0.29	0.40	0.40	0.12	0.12
S04-B002	0.29	0.29	0.40	0.40	0.12	0.12
S04-B003	0.29	0.29	0.40	0.40	0.12	0.12
S04-B004	0.29	0.29	0.40	0.40	0.12	0.12
S04-B005	0.29	0.29	0.40	0.40	0.12	0.12
S04-B006	0.29	0.29	0.40	0.40	0.12	0.12
S04-B007						

	0.29	0.29	0.40	0.40	0.12	0.12
S04-B008	0.29	0.29	0.40	0.40	0.12	0.12
S04-B009	0.29	0.29	0.40	0.40	0.12	0.12
S04-B010	0.29	0.29	0.40	0.40	0.12	0.12
S04-C001	0.29	0.29	0.40	0.40	0.12	0.12
S04-C002	0.29	0.29	0.40	0.40	0.12	0.12
S04-C003	0.29	0.29	0.40	0.40	0.12	0.12
S04-C004	0.29	0.29	0.40	0.40	0.12	0.12
S04-C005	0.29	0.29	0.40	0.40	0.12	0.12
S04-D001	0.29	0.29	0.40	0.40	0.12	0.12
S04-D002	0.29	0.29	0.40	0.40	0.12	0.12
S04-D003	0.29	0.29	0.40	0.40	0.12	0.12
S04-E001	0.29	0.29	0.40	0.40	0.12	0.12
S04-E002	0.29	0.29	0.40	0.40	0.12	0.12
S04-E003	0.29	0.29	0.40	0.40	0.12	0.12
S04-E004	0.29	0.29	0.40	0.40	0.12	0.12
S04-E005	0.29	0.29	0.40	0.40	0.12	0.12
S04-E006	0.29	0.29	0.40	0.40	0.12	0.12
S04-E007	0.29	0.29	0.40	0.40	0.12	0.12
S04-F001	0.29	0.29	0.40	0.40	0.12	0.12
S04-F002	0.29	0.29	0.40	0.40	0.12	0.12
S04-F003	0.29	0.29	0.40	0.40	0.12	0.12
S04-G001	0.29	0.29	0.40	0.40	0.12	0.12
S04-G002	0.29	0.29	0.40	0.40	0.12	0.12
S04-G003	0.29	0.29	0.40	0.40	0.12	0.12
S04-H001	0.29	0.29	0.40	0.40	0.12	0.12
S04-H002	0.29	0.29	0.40	0.40	0.12	0.12
S04-H003	0.29	0.29	0.40	0.40	0.12	0.12
S04-H004	0.29	0.29	0.40	0.40	0.12	0.12
S05-A001	0.29	0.29	0.40	0.40	0.12	0.12
S05-A002	0.29	0.29	0.40	0.40	0.12	0.12
S05-A003	0.29	0.29	0.40	0.40	0.12	0.12
S05-A004	0.29	0.29	0.40	0.40	0.12	0.12
S05-B001	0.29	0.29	0.40	0.40	0.12	0.12
S05-B002	0.29	0.29	0.40	0.40	0.12	0.12
S05-B003	0.29	0.29	0.40	0.40	0.12	0.12
S05-B004	0.29	0.29	0.40	0.40	0.12	0.12
S05-C001	0.29	0.29	0.40	0.40	0.12	0.12
S05-C002	0.29	0.29	0.40	0.40	0.12	0.12
S05-D001	0.29	0.29	0.40	0.40	0.12	0.12
S05-D002	0.29	0.29	0.40	0.40	0.12	0.12
S05-E001	0.29	0.29	0.40	0.40	0.12	0.12
S05-E002	0.29	0.29	0.40	0.40	0.12	0.12
S05-E003	0.29	0.29	0.40	0.40	0.12	0.12
S05-E004	0.29	0.29	0.40	0.40	0.12	0.12
S05-E004						

	0.29	0.29	0.40	0.40	0.12	0.12
S05-F002	0.29	0.29	0.40	0.40	0.12	0.12
S05-F003	0.29	0.29	0.40	0.40	0.12	0.12
S05-G001	0.29	0.29	0.40	0.40	0.12	0.12
S05-G002	0.29	0.29	0.40	0.40	0.12	0.12
S05-H001	0.29	0.29	0.40	0.40	0.12	0.12
S05-H002	0.29	0.29	0.40	0.40	0.12	0.12
S05-H003	0.29	0.29	0.40	0.40	0.12	0.12
S05-H004	0.29	0.29	0.40	0.40	0.12	0.12
S05-H005	0.29	0.29	0.40	0.40	0.12	0.12
S05-H006	0.29	0.29	0.40	0.40	0.12	0.12
S05-I001	0.29	0.29	0.40	0.40	0.12	0.12
S05-I002	0.29	0.29	0.40	0.40	0.12	0.12
S05-I003	0.29	0.29	0.40	0.40	0.12	0.12
S05-I004	0.29	0.29	0.40	0.40	0.12	0.12
S05-J001	0.29	0.29	0.40	0.40	0.12	0.12
S05-J002	0.29	0.29	0.40	0.40	0.12	0.12
S05-J003	0.29	0.29	0.40	0.40	0.12	0.12
S05-L001	0.29	0.29	0.40	0.40	0.12	0.12
S05-L002	0.29	0.29	0.40	0.40	0.12	0.12
S05-L003	0.29	0.29	0.40	0.40	0.12	0.12
P01-A001	0.29	0.29	0.40	0.40	0.12	0.12
P01-A002	0.29	0.29	0.40	0.40	0.12	0.12
P01-B001	0.29	0.29	0.40	0.40	0.12	0.12
P01-B002	0.29	0.29	0.40	0.40	0.12	0.12
P01-B003	0.29	0.29	0.40	0.40	0.12	0.12
P01-C001	0.29	0.29	0.40	0.40	0.12	0.12
P01-C002	0.29	0.29	0.40	0.40	0.12	0.12
P01-D001	0.29	0.29	0.40	0.40	0.12	0.12
P01-D002	0.29	0.29	0.40	0.40	0.12	0.12
P01-E001	0.29	0.29	0.40	0.40	0.12	0.12
P01-F001	0.29	0.29	0.40	0.40	0.12	0.12
P01-G001	0.29	0.29	0.40	0.40	0.12	0.12
P01-G002	0.29	0.29	0.40	0.40	0.12	0.12
P01-G003	0.29	0.29	0.40	0.40	0.12	0.12
P01-H001	0.29	0.29	0.40	0.40	0.12	0.12
P01-H002	0.29	0.29	0.40	0.40	0.12	0.12
P01-H003	0.29	0.29	0.40	0.40	0.12	0.12
P01-H004	0.29	0.29	0.40	0.40	0.12	0.12
P01-I001	0.29	0.29	0.40	0.40	0.12	0.12
P01-I002	0.29	0.29	0.40	0.40	0.12	0.12
P01-J001	0.29	0.29	0.40	0.40	0.12	0.12
P01-J002	0.29	0.29	0.40	0.40	0.12	0.12
P01-J003	0.29	0.29	0.40	0.40	0.12	0.12
P01-L001	0.29	0.29	0.40	0.40	0.12	0.12
S04-F003						

	0.29	0.29	0.40	0.40	0.12	0.12
S01-A001	0.29	0.29	0.40	0.40	0.12	0.12
N10-A004	0.29	0.29	0.40	0.40	0.12	0.12
S01-E001	0.29	0.29	0.40	0.40	0.12	0.12
S02-E001	0.29	0.29	0.40	0.40	0.12	0.12
S02-F008	0.29	0.29	0.40	0.40	0.12	0.12
S02-F001	0.29	0.29	0.40	0.40	0.12	0.12
S02-F002	0.29	0.29	0.40	0.40	0.12	0.12
S02-F003	0.29	0.29	0.40	0.40	0.12	0.12
S02-F004	0.29	0.29	0.40	0.40	0.12	0.12
S02-F005	0.29	0.29	0.40	0.40	0.12	0.12
S02-F006	0.29	0.29	0.40	0.40	0.12	0.12
S02-F007	0.29	0.29	0.40	0.40	0.12	0.12
S02-F009	0.29	0.29	0.40	0.40	0.12	0.12
N09_A001	0.29	0.29	0.40	0.40	0.12	0.12
N09_A002	0.29	0.29	0.40	0.40	0.12	0.12
N09_A003	0.29	0.29	0.40	0.40	0.12	0.12
N09_A004	0.29	0.29	0.40	0.40	0.12	0.12
N09_A005	0.29	0.29	0.40	0.40	0.12	0.12
N09_B001	0.29	0.29	0.40	0.40	0.12	0.12
N09_B002	0.29	0.29	0.40	0.40	0.12	0.12
N09_B003	0.29	0.29	0.40	0.40	0.12	0.12
N09_B004	0.29	0.29	0.40	0.40	0.12	0.12
N09_B005	0.29	0.29	0.40	0.40	0.12	0.12
N09_B006	0.29	0.29	0.40	0.40	0.12	0.12
N09_B007	0.29	0.29	0.40	0.40	0.12	0.12
N09_C001	0.29	0.29	0.40	0.40	0.12	0.12
N09_C002	0.29	0.29	0.40	0.40	0.12	0.12
N09_C003	0.29	0.29	0.40	0.40	0.12	0.12
N09_C004	0.29	0.29	0.40	0.40	0.12	0.12
N09_C005	0.29	0.29	0.40	0.40	0.12	0.12
N09_D001	0.29	0.29	0.40	0.40	0.12	0.12
N09_D002	0.29	0.29	0.40	0.40	0.12	0.12
N09_D003	0.29	0.29	0.40	0.40	0.12	0.12
N09_D004	0.29	0.29	0.40	0.40	0.12	0.12
N09_D005	0.29	0.29	0.40	0.40	0.12	0.12
N09_D006	0.29	0.29	0.40	0.40	0.12	0.12
N09_D007	0.29	0.29	0.40	0.40	0.12	0.12
N09_D008	0.29	0.29	0.40	0.40	0.12	0.12
N09_D009	0.29	0.29	0.40	0.40	0.12	0.12

Pipe Quality Summary			
Pipe Name	NC5	C6	CO2
	%	%	%



	Head	Tail	Head	Tail	Head	Tail
N01-A001	0.08	0.08	0.09	0.09	1.39	1.39
N01-B001	0.08	0.08	0.09	0.09	1.39	1.39
N02-A001	0.08	0.08	0.09	0.09	1.39	1.39
N02-B001	0.08	0.08	0.09	0.09	1.39	1.39
N02-C001	0.08	0.08	0.09	0.09	1.39	1.39
N02-D001	0.08	0.08	0.09	0.09	1.39	1.39
N02-E001	0.08	0.08	0.09	0.09	1.39	1.39
N03-A001	0.08	0.08	0.09	0.09	1.39	1.39
N03-B001	0.08	0.08	0.09	0.09	1.39	1.39
N03-C001	0.08	0.08	0.09	0.09	1.39	1.39
N03-D001	0.08	0.08	0.09	0.09	1.39	1.39
N03-E001	0.08	0.08	0.09	0.09	1.39	1.39
N04-A001	0.08	0.08	0.09	0.09	1.39	1.39
N04-A002	0.08	0.08	0.09	0.09	1.39	1.39
N04-A003	0.08	0.08	0.09	0.09	1.39	1.39
N04-B001	0.08	0.08	0.09	0.09	1.39	1.39
N04-C001	0.08	0.08	0.09	0.09	1.39	1.39
N04-C002	0.08	0.08	0.09	0.09	1.39	1.39
N04-C003	0.08	0.08	0.09	0.09	1.39	1.39
N04-D001	0.08	0.08	0.09	0.09	1.39	1.39
N05-A001	0.08	0.08	0.09	0.09	1.39	1.39
N05-B001	0.08	0.08	0.09	0.09	1.39	1.39
N05-B002	0.08	0.08	0.09	0.09	1.39	1.39
N05-B003	0.08	0.08	0.09	0.09	1.39	1.39
N05-B004	0.08	0.08	0.09	0.09	1.39	1.39
N05-C001	0.08	0.08	0.09	0.09	1.39	1.39
N05-D001	0.08	0.08	0.09	0.09	1.39	1.39
N06-A001	0.08	0.08	0.09	0.09	1.39	1.39
N06-A002	0.08	0.08	0.09	0.09	1.39	1.39
N06-B001	0.08	0.08	0.09	0.09	1.39	1.39
N06-B002	0.08	0.08	0.09	0.09	1.39	1.39
N06-C001	0.08	0.08	0.09	0.09	1.39	1.39
N06-D001	0.08	0.08	0.09	0.09	1.39	1.39
N06-E001	0.08	0.08	0.09	0.09	1.39	1.39
N07-A001	0.08	0.08	0.09	0.09	1.39	1.39
N07-B001	0.08	0.08	0.09	0.09	1.39	1.39
N07-B002	0.08	0.08	0.09	0.09	1.39	1.39
N07-C001	0.08	0.08	0.09	0.09	1.39	1.39
N07-C002	0.08	0.08	0.09	0.09	1.39	1.39
N07-D001	0.08	0.08	0.09	0.09	1.39	1.39
N07-E001	0.08	0.08	0.09	0.09	1.39	1.39
N08-A001	0.08	0.08	0.09	0.09	1.39	1.39
N08-B001	0.08	0.08	0.09	0.09	1.39	1.39
N08-B002	0.08	0.08	0.09	0.09	1.39	1.39

N08-C001	0.08	0.08	0.09	0.09	1.39	1.39
N08-C002	0.08	0.08	0.09	0.09	1.39	1.39
N08-D001	0.08	0.08	0.09	0.09	1.39	1.39
N08-D002	0.08	0.08	0.09	0.09	1.39	1.39
N08-D003	0.08	0.08	0.09	0.09	1.39	1.39
N10-A001	0.08	0.08	0.09	0.09	1.39	1.39
N10-A002	0.08	0.08	0.09	0.09	1.39	1.39
N10-A003	0.08	0.08	0.09	0.09	1.39	1.39
N10-B001	0.08	0.08	0.09	0.09	1.39	1.39
N10-C001	0.08	0.08	0.09	0.09	1.39	1.39
N10-C002	0.08	0.08	0.09	0.09	1.39	1.39
N10-C003	0.08	0.08	0.09	0.09	1.39	1.39
N10-C004	0.08	0.08	0.09	0.09	1.39	1.39
N10-C005	0.08	0.08	0.09	0.09	1.39	1.39
N10-C006	0.08	0.08	0.09	0.09	1.39	1.39
N10-D001	0.08	0.08	0.09	0.09	1.39	1.39
N10-E001	0.08	0.08	0.09	0.09	1.39	1.39
N10-E002	0.08	0.08	0.09	0.09	1.39	1.39
N10-E003	0.08	0.08	0.09	0.09	1.39	1.39
N10-E004	0.08	0.08	0.09	0.09	1.39	1.39
N11-A001	0.08	0.08	0.09	0.09	1.39	1.39
N11-A002	0.08	0.08	0.09	0.09	1.39	1.39
N11-A003	0.08	0.08	0.09	0.09	1.39	1.39
N11-A004	0.08	0.08	0.09	0.09	1.39	1.39
N11-B001	0.08	0.08	0.09	0.09	1.39	1.39
N11-B002	0.08	0.08	0.09	0.09	1.39	1.39
N11-B003	0.08	0.08	0.09	0.09	1.39	1.39
N11-B004	0.08	0.08	0.09	0.09	1.39	1.39
N11-C001	0.08	0.08	0.09	0.09	1.39	1.39
N11-C002	0.08	0.08	0.09	0.09	1.39	1.39
N11-C003	0.08	0.08	0.09	0.09	1.39	1.39
N11-C004	0.08	0.08	0.09	0.09	1.39	1.39
N11-C005	0.08	0.08	0.09	0.09	1.39	1.39
N11-D001	0.08	0.08	0.09	0.09	1.39	1.39
N11-D002	0.08	0.08	0.09	0.09	1.39	1.39
N11-D003	0.08	0.08	0.09	0.09	1.39	1.39
N11-D004	0.08	0.08	0.09	0.09	1.39	1.39
N11-E001	0.08	0.08	0.09	0.09	1.39	1.39
N11-E002	0.08	0.08	0.09	0.09	1.39	1.39
N11-E003	0.08	0.08	0.09	0.09	1.39	1.39
N11-E004	0.08	0.08	0.09	0.09	1.39	1.39
S01-A002	0.08	0.08	0.09	0.09	1.39	1.39
S01-B001	0.08	0.08	0.09	0.09	1.39	1.39
S01-B002	0.08	0.08	0.09	0.09	1.39	1.39
S01-C001	0.08	0.08	0.09	0.09	1.39	1.39
S01-C002						

	0.08	0.08	0.09	0.09	1.39	1.39
S01-D001	0.08	0.08	0.09	0.09	1.39	1.39
S01-E002	0.08	0.08	0.09	0.09	1.39	1.39
S01-F001	0.08	0.08	0.09	0.09	1.39	1.39
S01-G001	0.08	0.08	0.09	0.09	1.39	1.39
S01-G002	0.08	0.08	0.09	0.09	1.39	1.39
S01-H001	0.08	0.08	0.09	0.09	1.39	1.39
S01-I001	0.08	0.08	0.09	0.09	1.39	1.39
S01-I002	0.08	0.08	0.09	0.09	1.39	1.39
S01-I003	0.08	0.08	0.09	0.09	1.39	1.39
S01-J001	0.08	0.08	0.09	0.09	1.39	1.39
S01-J002	0.08	0.08	0.09	0.09	1.39	1.39
S01-J003	0.08	0.08	0.09	0.09	1.39	1.39
S01-K001	0.08	0.08	0.09	0.09	1.39	1.39
S01-K002	0.08	0.08	0.09	0.09	1.39	1.39
S02-A001	0.08	0.08	0.09	0.09	1.39	1.39
S02-B001	0.08	0.08	0.09	0.09	1.39	1.39
S02-B002	0.08	0.08	0.09	0.09	1.39	1.39
S02-B003	0.08	0.08	0.09	0.09	1.39	1.39
S02-B004	0.08	0.08	0.09	0.09	1.39	1.39
S02-B005	0.08	0.08	0.09	0.09	1.39	1.39
S02-C001	0.08	0.08	0.09	0.09	1.39	1.39
S02-C002	0.08	0.08	0.09	0.09	1.39	1.39
S02-C003	0.08	0.08	0.09	0.09	1.39	1.39
S02-C004	0.08	0.08	0.09	0.09	1.39	1.39
S02-C005	0.08	0.08	0.09	0.09	1.39	1.39
S02-D001	0.08	0.08	0.09	0.09	1.39	1.39
S02-E002	0.08	0.08	0.09	0.09	1.39	1.39
S02-E003	0.08	0.08	0.09	0.09	1.39	1.39
S02-E004	0.08	0.08	0.09	0.09	1.39	1.39
S02-E005	0.08	0.08	0.09	0.09	1.39	1.39
S02-E006	0.08	0.08	0.09	0.09	1.39	1.39
S02-G001	0.08	0.08	0.09	0.09	1.39	1.39
S02-G002	0.08	0.08	0.09	0.09	1.39	1.39
S02-G003	0.08	0.08	0.09	0.09	1.39	1.39
S02-G004	0.08	0.08	0.09	0.09	1.39	1.39
S02-G005	0.08	0.08	0.09	0.09	1.39	1.39
S02-H001	0.08	0.08	0.09	0.09	1.39	1.39
S02-H002	0.08	0.08	0.09	0.09	1.39	1.39
S02-H003	0.08	0.08	0.09	0.09	1.39	1.39
S02-H004	0.08	0.08	0.09	0.09	1.39	1.39
S02-I001	0.08	0.08	0.09	0.09	1.39	1.39
S02-I002	0.08	0.08	0.09	0.09	1.39	1.39
S02-J001	0.08	0.08	0.09	0.09	1.39	1.39
S02-J002	0.08	0.08	0.09	0.09	1.39	1.39
S02-K001						

	0.08	0.08	0.09	0.09	1.39	1.39
S03-A002	0.08	0.08	0.09	0.09	1.39	1.39
S03-A003	0.08	0.08	0.09	0.09	1.39	1.39
S03-B001	0.08	0.08	0.09	0.09	1.39	1.39
S03-C001	0.08	0.08	0.09	0.09	1.39	1.39
S03-C002	0.08	0.08	0.09	0.09	1.39	1.39
S03-D001	0.08	0.08	0.09	0.09	1.39	1.39
S03-E001	0.08	0.08	0.09	0.09	1.39	1.39
S03-F001	0.08	0.08	0.09	0.09	1.39	1.39
S03-F002	0.08	0.08	0.09	0.09	1.39	1.39
S03-F003	0.08	0.08	0.09	0.09	1.39	1.39
S03-F004	0.08	0.08	0.09	0.09	1.39	1.39
S03-G001	0.08	0.08	0.09	0.09	1.39	1.39
S03-G002	0.08	0.08	0.09	0.09	1.39	1.39
S03-H001	0.08	0.08	0.09	0.09	1.39	1.39
S03-H002	0.08	0.08	0.09	0.09	1.39	1.39
S03-H003	0.08	0.08	0.09	0.09	1.39	1.39
S03-H004	0.08	0.08	0.09	0.09	1.39	1.39
S03-H005	0.08	0.08	0.09	0.09	1.39	1.39
S03-H006	0.08	0.08	0.09	0.09	1.39	1.39
S03-I001	0.08	0.08	0.09	0.09	1.39	1.39
S03-I002	0.08	0.08	0.09	0.09	1.39	1.39
S03-I003	0.08	0.08	0.09	0.09	1.39	1.39
S03-J001	0.08	0.08	0.09	0.09	1.39	1.39
S03-J002	0.08	0.08	0.09	0.09	1.39	1.39
S03-L001	0.08	0.08	0.09	0.09	1.39	1.39
S03-L002	0.08	0.08	0.09	0.09	1.39	1.39
S03-L003	0.08	0.08	0.09	0.09	1.39	1.39
S03-L004	0.08	0.08	0.09	0.09	1.39	1.39
S03-L005	0.08	0.08	0.09	0.09	1.39	1.39
S03-L006	0.08	0.08	0.09	0.09	1.39	1.39
S03-M001	0.08	0.08	0.09	0.09	1.39	1.39
S03-M002	0.08	0.08	0.09	0.09	1.39	1.39
S03-M003	0.08	0.08	0.09	0.09	1.39	1.39
S04-A001	0.08	0.08	0.09	0.09	1.39	1.39
S04-A002	0.08	0.08	0.09	0.09	1.39	1.39
S04-A003	0.08	0.08	0.09	0.09	1.39	1.39
S04-A004	0.08	0.08	0.09	0.09	1.39	1.39
S04-A005	0.08	0.08	0.09	0.09	1.39	1.39
S04-B001	0.08	0.08	0.09	0.09	1.39	1.39
S04-B002	0.08	0.08	0.09	0.09	1.39	1.39
S04-B003	0.08	0.08	0.09	0.09	1.39	1.39
S04-B004	0.08	0.08	0.09	0.09	1.39	1.39
S04-B005	0.08	0.08	0.09	0.09	1.39	1.39
S04-B006	0.08	0.08	0.09	0.09	1.39	1.39
S04-B007						

	0.08	0.08	0.09	0.09	1.39	1.39
S04-B008	0.08	0.08	0.09	0.09	1.39	1.39
S04-B009	0.08	0.08	0.09	0.09	1.39	1.39
S04-B010	0.08	0.08	0.09	0.09	1.39	1.39
S04-C001	0.08	0.08	0.09	0.09	1.39	1.39
S04-C002	0.08	0.08	0.09	0.09	1.39	1.39
S04-C003	0.08	0.08	0.09	0.09	1.39	1.39
S04-C004	0.08	0.08	0.09	0.09	1.39	1.39
S04-C005	0.08	0.08	0.09	0.09	1.39	1.39
S04-D001	0.08	0.08	0.09	0.09	1.39	1.39
S04-D002	0.08	0.08	0.09	0.09	1.39	1.39
S04-D003	0.08	0.08	0.09	0.09	1.39	1.39
S04-E001	0.08	0.08	0.09	0.09	1.39	1.39
S04-E002	0.08	0.08	0.09	0.09	1.39	1.39
S04-E003	0.08	0.08	0.09	0.09	1.39	1.39
S04-E004	0.08	0.08	0.09	0.09	1.39	1.39
S04-E005	0.08	0.08	0.09	0.09	1.39	1.39
S04-E006	0.08	0.08	0.09	0.09	1.39	1.39
S04-E007	0.08	0.08	0.09	0.09	1.39	1.39
S04-F001	0.08	0.08	0.09	0.09	1.39	1.39
S04-F002	0.08	0.08	0.09	0.09	1.39	1.39
S04-F003	0.08	0.08	0.09	0.09	1.39	1.39
S04-G001	0.08	0.08	0.09	0.09	1.39	1.39
S04-G002	0.08	0.08	0.09	0.09	1.39	1.39
S04-G003	0.08	0.08	0.09	0.09	1.39	1.39
S04-H001	0.08	0.08	0.09	0.09	1.39	1.39
S04-H002	0.08	0.08	0.09	0.09	1.39	1.39
S04-H003	0.08	0.08	0.09	0.09	1.39	1.39
S04-H004	0.08	0.08	0.09	0.09	1.39	1.39
S05-A001	0.08	0.08	0.09	0.09	1.39	1.39
S05-A002	0.08	0.08	0.09	0.09	1.39	1.39
S05-A003	0.08	0.08	0.09	0.09	1.39	1.39
S05-A004	0.08	0.08	0.09	0.09	1.39	1.39
S05-B001	0.08	0.08	0.09	0.09	1.39	1.39
S05-B002	0.08	0.08	0.09	0.09	1.39	1.39
S05-B003	0.08	0.08	0.09	0.09	1.39	1.39
S05-B004	0.08	0.08	0.09	0.09	1.39	1.39
S05-C001	0.08	0.08	0.09	0.09	1.39	1.39
S05-C002	0.08	0.08	0.09	0.09	1.39	1.39
S05-D001	0.08	0.08	0.09	0.09	1.39	1.39
S05-D002	0.08	0.08	0.09	0.09	1.39	1.39
S05-E001	0.08	0.08	0.09	0.09	1.39	1.39
S05-E002	0.08	0.08	0.09	0.09	1.39	1.39
S05-E003	0.08	0.08	0.09	0.09	1.39	1.39
S05-E004	0.08	0.08	0.09	0.09	1.39	1.39
S05-E004						

	0.08	0.08	0.09	0.09	1.39	1.39
S05-F002	0.08	0.08	0.09	0.09	1.39	1.39
S05-F003	0.08	0.08	0.09	0.09	1.39	1.39
S05-G001	0.08	0.08	0.09	0.09	1.39	1.39
S05-G002	0.08	0.08	0.09	0.09	1.39	1.39
S05-H001	0.08	0.08	0.09	0.09	1.39	1.39
S05-H002	0.08	0.08	0.09	0.09	1.39	1.39
S05-H003	0.08	0.08	0.09	0.09	1.39	1.39
S05-H004	0.08	0.08	0.09	0.09	1.39	1.39
S05-H005	0.08	0.08	0.09	0.09	1.39	1.39
S05-H006	0.08	0.08	0.09	0.09	1.39	1.39
S05-I001	0.08	0.08	0.09	0.09	1.39	1.39
S05-I002	0.08	0.08	0.09	0.09	1.39	1.39
S05-I003	0.08	0.08	0.09	0.09	1.39	1.39
S05-I004	0.08	0.08	0.09	0.09	1.39	1.39
S05-J001	0.08	0.08	0.09	0.09	1.39	1.39
S05-J002	0.08	0.08	0.09	0.09	1.39	1.39
S05-J003	0.08	0.08	0.09	0.09	1.39	1.39
S05-L001	0.08	0.08	0.09	0.09	1.39	1.39
S05-L002	0.08	0.08	0.09	0.09	1.39	1.39
S05-L003	0.08	0.08	0.09	0.09	1.39	1.39
P01-A001	0.08	0.08	0.09	0.09	1.39	1.39
P01-A002	0.08	0.08	0.09	0.09	1.39	1.39
P01-B001	0.08	0.08	0.09	0.09	1.39	1.39
P01-B002	0.08	0.08	0.09	0.09	1.39	1.39
P01-B003	0.08	0.08	0.09	0.09	1.39	1.39
P01-C001	0.08	0.08	0.09	0.09	1.39	1.39
P01-C002	0.08	0.08	0.09	0.09	1.39	1.39
P01-D001	0.08	0.08	0.09	0.09	1.39	1.39
P01-D002	0.08	0.08	0.09	0.09	1.39	1.39
P01-E001	0.08	0.08	0.09	0.09	1.39	1.39
P01-F001	0.08	0.08	0.09	0.09	1.39	1.39
P01-G001	0.08	0.08	0.09	0.09	1.39	1.39
P01-G002	0.08	0.08	0.09	0.09	1.39	1.39
P01-G003	0.08	0.08	0.09	0.09	1.39	1.39
P01-H001	0.08	0.08	0.09	0.09	1.39	1.39
P01-H002	0.08	0.08	0.09	0.09	1.39	1.39
P01-H003	0.08	0.08	0.09	0.09	1.39	1.39
P01-H004	0.08	0.08	0.09	0.09	1.39	1.39
P01-I001	0.08	0.08	0.09	0.09	1.39	1.39
P01-I002	0.08	0.08	0.09	0.09	1.39	1.39
P01-J001	0.08	0.08	0.09	0.09	1.39	1.39
P01-J002	0.08	0.08	0.09	0.09	1.39	1.39
P01-J003	0.08	0.08	0.09	0.09	1.39	1.39
P01-L001	0.08	0.08	0.09	0.09	1.39	1.39
S01-F003						

	0.08	0.08	0.09	0.09	1.39	1.39
S01-A001	0.08	0.08	0.09	0.09	1.39	1.39
N10-A004	0.08	0.08	0.09	0.09	1.39	1.39
S01-E001	0.08	0.08	0.09	0.09	1.39	1.39
S02-E001	0.08	0.08	0.09	0.09	1.39	1.39
S02-F008	0.08	0.08	0.09	0.09	1.39	1.39
S02-F001	0.08	0.08	0.09	0.09	1.39	1.39
S02-F002	0.08	0.08	0.09	0.09	1.39	1.39
S02-F003	0.08	0.08	0.09	0.09	1.39	1.39
S02-F004	0.08	0.08	0.09	0.09	1.39	1.39
S02-F005	0.08	0.08	0.09	0.09	1.39	1.39
S02-F006	0.08	0.08	0.09	0.09	1.39	1.39
S02-F007	0.08	0.08	0.09	0.09	1.39	1.39
S02-F009	0.08	0.08	0.09	0.09	1.39	1.39
N09_A001	0.08	0.08	0.09	0.09	1.39	1.39
N09_A002	0.08	0.08	0.09	0.09	1.39	1.39
N09_A003	0.08	0.08	0.09	0.09	1.39	1.39
N09_A004	0.08	0.08	0.09	0.09	1.39	1.39
N09_A005	0.08	0.08	0.09	0.09	1.39	1.39
N09_B001	0.08	0.08	0.09	0.09	1.39	1.39
N09_B002	0.08	0.08	0.09	0.09	1.39	1.39
N09_B003	0.08	0.08	0.09	0.09	1.39	1.39
N09_B004	0.08	0.08	0.09	0.09	1.39	1.39
N09_B005	0.08	0.08	0.09	0.09	1.39	1.39
N09_B006	0.08	0.08	0.09	0.09	1.39	1.39
N09_B007	0.08	0.08	0.09	0.09	1.39	1.39
N09_C001	0.08	0.08	0.09	0.09	1.39	1.39
N09_C002	0.08	0.08	0.09	0.09	1.39	1.39
N09_C003	0.08	0.08	0.09	0.09	1.39	1.39
N09_C004	0.08	0.08	0.09	0.09	1.39	1.39
N09_C005	0.08	0.08	0.09	0.09	1.39	1.39
N09_D001	0.08	0.08	0.09	0.09	1.39	1.39
N09_D002	0.08	0.08	0.09	0.09	1.39	1.39
N09_D003	0.08	0.08	0.09	0.09	1.39	1.39
N09_D004	0.08	0.08	0.09	0.09	1.39	1.39
N09_D005	0.08	0.08	0.09	0.09	1.39	1.39
N09_D006	0.08	0.08	0.09	0.09	1.39	1.39
N09_D007	0.08	0.08	0.09	0.09	1.39	1.39
N09_D008	0.08	0.08	0.09	0.09	1.39	1.39
N09_D009	0.08	0.08	0.09	0.09	1.39	1.39

Pipe Quality Summary		
Pipe Name	N2	O2
	%	%

	Head	Tail	Head	Tail
N01-A001	0.71	0.71	0.01	0.01
N01-B001	0.71	0.71	0.01	0.01
N02-A001	0.71	0.71	0.01	0.01
N02-B001	0.71	0.71	0.01	0.01
N02-C001	0.71	0.71	0.01	0.01
N02-D001	0.71	0.71	0.01	0.01
N02-E001	0.71	0.71	0.01	0.01
N03-A001	0.71	0.71	0.01	0.01
N03-B001	0.71	0.71	0.01	0.01
N03-C001	0.71	0.71	0.01	0.01
N03-D001	0.71	0.71	0.01	0.01
N03-E001	0.71	0.71	0.01	0.01
N04-A001	0.71	0.71	0.01	0.01
N04-A002	0.71	0.71	0.01	0.01
N04-A003	0.71	0.71	0.01	0.01
N04-B001	0.71	0.71	0.01	0.01
N04-C001	0.71	0.71	0.01	0.01
N04-C002	0.71	0.71	0.01	0.01
N04-C003	0.71	0.71	0.01	0.01
N04-D001	0.71	0.71	0.01	0.01
N05-A001	0.71	0.71	0.01	0.01
N05-B001	0.71	0.71	0.01	0.01
N05-B002	0.71	0.71	0.01	0.01
N05-B003	0.71	0.71	0.01	0.01
N05-B004	0.71	0.71	0.01	0.01
N05-C001	0.71	0.71	0.01	0.01
N05-D001	0.71	0.71	0.01	0.01
N06-A001	0.71	0.71	0.01	0.01
N06-A002	0.71	0.71	0.01	0.01
N06-B001	0.71	0.71	0.01	0.01
N06-B002	0.71	0.71	0.01	0.01
N06-C001	0.71	0.71	0.01	0.01
N06-D001	0.71	0.71	0.01	0.01
N06-E001	0.71	0.71	0.01	0.01
N07-A001	0.71	0.71	0.01	0.01
N07-B001	0.71	0.71	0.01	0.01
N07-B002	0.71	0.71	0.01	0.01
N07-C001	0.71	0.71	0.01	0.01
N07-C002	0.71	0.71	0.01	0.01
N07-D001	0.71	0.71	0.01	0.01
N07-E001	0.71	0.71	0.01	0.01
N08-A001	0.71	0.71	0.01	0.01
N08-B001	0.71	0.71	0.01	0.01
N08-B002	0.71	0.71	0.01	0.01



N08-C001	0.71	0.71	0.01	0.01
N08-C002	0.71	0.71	0.01	0.01
N08-D001	0.71	0.71	0.01	0.01
N08-D002	0.71	0.71	0.01	0.01
N08-D003	0.71	0.71	0.01	0.01
N10-A001	0.71	0.71	0.01	0.01
N10-A002	0.71	0.71	0.01	0.01
N10-A003	0.71	0.71	0.01	0.01
N10-B001	0.71	0.71	0.01	0.01
N10-C001	0.71	0.71	0.01	0.01
N10-C002	0.71	0.71	0.01	0.01
N10-C003	0.71	0.71	0.01	0.01
N10-C004	0.71	0.71	0.01	0.01
N10-C005	0.71	0.71	0.01	0.01
N10-C006	0.71	0.71	0.01	0.01
N10-D001	0.71	0.71	0.01	0.01
N10-E001	0.71	0.71	0.01	0.01
N10-E002	0.71	0.71	0.01	0.01
N10-E003	0.71	0.71	0.01	0.01
N10-E004	0.71	0.71	0.01	0.01
N11-A001	0.71	0.71	0.01	0.01
N11-A002	0.71	0.71	0.01	0.01
N11-A003	0.71	0.71	0.01	0.01
N11-A004	0.71	0.71	0.01	0.01
N11-B001	0.71	0.71	0.01	0.01
N11-B002	0.71	0.71	0.01	0.01
N11-B003	0.71	0.71	0.01	0.01
N11-B004	0.71	0.71	0.01	0.01
N11-C001	0.71	0.71	0.01	0.01
N11-C002	0.71	0.71	0.01	0.01
N11-C003	0.71	0.71	0.01	0.01
N11-C004	0.71	0.71	0.01	0.01
N11-C005	0.71	0.71	0.01	0.01
N11-D001	0.71	0.71	0.01	0.01
N11-D002	0.71	0.71	0.01	0.01
N11-D003	0.71	0.71	0.01	0.01
N11-D004	0.71	0.71	0.01	0.01
N11-E001	0.71	0.71	0.01	0.01
N11-E002	0.71	0.71	0.01	0.01
N11-E003	0.71	0.71	0.01	0.01
N11-E004	0.71	0.71	0.01	0.01
S01-A002	0.71	0.71	0.01	0.01
S01-B001	0.71	0.71	0.01	0.01
S01-B002	0.71	0.71	0.01	0.01
S01-C001	0.71	0.71	0.01	0.01
S01-C002				

	0.71	0.71	0.01	0.01
S01-D001	0.71	0.71	0.01	0.01
S01-E002	0.71	0.71	0.01	0.01
S01-F001	0.71	0.71	0.01	0.01
S01-G001	0.71	0.71	0.01	0.01
S01-G002	0.71	0.71	0.01	0.01
S01-H001	0.71	0.71	0.01	0.01
S01-I001	0.71	0.71	0.01	0.01
S01-I002	0.71	0.71	0.01	0.01
S01-I003	0.71	0.71	0.01	0.01
S01-J001	0.71	0.71	0.01	0.01
S01-J002	0.71	0.71	0.01	0.01
S01-J003	0.71	0.71	0.01	0.01
S01-K001	0.71	0.71	0.01	0.01
S01-K002	0.71	0.71	0.01	0.01
S02-A001	0.71	0.71	0.01	0.01
S02-B001	0.71	0.71	0.01	0.01
S02-B002	0.71	0.71	0.01	0.01
S02-B003	0.71	0.71	0.01	0.01
S02-B004	0.71	0.71	0.01	0.01
S02-B005	0.71	0.71	0.01	0.01
S02-C001	0.71	0.71	0.01	0.01
S02-C002	0.71	0.71	0.01	0.01
S02-C003	0.71	0.71	0.01	0.01
S02-C004	0.71	0.71	0.01	0.01
S02-C005	0.71	0.71	0.01	0.01
S02-D001	0.71	0.71	0.01	0.01
S02-E002	0.71	0.71	0.01	0.01
S02-E003	0.71	0.71	0.01	0.01
S02-E004	0.71	0.71	0.01	0.01
S02-E005	0.71	0.71	0.01	0.01
S02-E006	0.71	0.71	0.01	0.01
S02-G001	0.71	0.71	0.01	0.01
S02-G002	0.71	0.71	0.01	0.01
S02-G003	0.71	0.71	0.01	0.01
S02-G004	0.71	0.71	0.01	0.01
S02-G005	0.71	0.71	0.01	0.01
S02-H001	0.71	0.71	0.01	0.01
S02-H002	0.71	0.71	0.01	0.01
S02-H003	0.71	0.71	0.01	0.01
S02-H004	0.71	0.71	0.01	0.01
S02-I001	0.71	0.71	0.01	0.01
S02-I002	0.71	0.71	0.01	0.01
S02-J001	0.71	0.71	0.01	0.01
S02-J002	0.71	0.71	0.01	0.01
S02-K001				

	0.71	0.71	0.01	0.01
S03-A002	0.71	0.71	0.01	0.01
S03-A003	0.71	0.71	0.01	0.01
S03-B001	0.71	0.71	0.01	0.01
S03-C001	0.71	0.71	0.01	0.01
S03-C002	0.71	0.71	0.01	0.01
S03-D001	0.71	0.71	0.01	0.01
S03-E001	0.71	0.71	0.01	0.01
S03-F001	0.71	0.71	0.01	0.01
S03-F002	0.71	0.71	0.01	0.01
S03-F003	0.71	0.71	0.01	0.01
S03-F004	0.71	0.71	0.01	0.01
S03-G001	0.71	0.71	0.01	0.01
S03-G002	0.71	0.71	0.01	0.01
S03-H001	0.71	0.71	0.01	0.01
S03-H002	0.71	0.71	0.01	0.01
S03-H003	0.71	0.71	0.01	0.01
S03-H004	0.71	0.71	0.01	0.01
S03-H005	0.71	0.71	0.01	0.01
S03-H006	0.71	0.71	0.01	0.01
S03-I001	0.71	0.71	0.01	0.01
S03-I002	0.71	0.71	0.01	0.01
S03-I003	0.71	0.71	0.01	0.01
S03-J001	0.71	0.71	0.01	0.01
S03-J002	0.71	0.71	0.01	0.01
S03-L001	0.71	0.71	0.01	0.01
S03-L002	0.71	0.71	0.01	0.01
S03-L003	0.71	0.71	0.01	0.01
S03-L004	0.71	0.71	0.01	0.01
S03-L005	0.71	0.71	0.01	0.01
S03-L006	0.71	0.71	0.01	0.01
S03-M001	0.71	0.71	0.01	0.01
S03-M002	0.71	0.71	0.01	0.01
S03-M003	0.71	0.71	0.01	0.01
S04-A001	0.71	0.71	0.01	0.01
S04-A002	0.71	0.71	0.01	0.01
S04-A003	0.71	0.71	0.01	0.01
S04-A004	0.71	0.71	0.01	0.01
S04-A005	0.71	0.71	0.01	0.01
S04-B001	0.71	0.71	0.01	0.01
S04-B002	0.71	0.71	0.01	0.01
S04-B003	0.71	0.71	0.01	0.01
S04-B004	0.71	0.71	0.01	0.01
S04-B005	0.71	0.71	0.01	0.01
S04-B006	0.71	0.71	0.01	0.01
S04-B007				

	0.71	0.71	0.01	0.01
S04-B008	0.71	0.71	0.01	0.01
S04-B009	0.71	0.71	0.01	0.01
S04-B010	0.71	0.71	0.01	0.01
S04-C001	0.71	0.71	0.01	0.01
S04-C002	0.71	0.71	0.01	0.01
S04-C003	0.71	0.71	0.01	0.01
S04-C004	0.71	0.71	0.01	0.01
S04-C005	0.71	0.71	0.01	0.01
S04-D001	0.71	0.71	0.01	0.01
S04-D002	0.71	0.71	0.01	0.01
S04-D003	0.71	0.71	0.01	0.01
S04-E001	0.71	0.71	0.01	0.01
S04-E002	0.71	0.71	0.01	0.01
S04-E003	0.71	0.71	0.01	0.01
S04-E004	0.71	0.71	0.01	0.01
S04-E005	0.71	0.71	0.01	0.01
S04-E006	0.71	0.71	0.01	0.01
S04-E007	0.71	0.71	0.01	0.01
S04-F001	0.71	0.71	0.01	0.01
S04-F002	0.71	0.71	0.01	0.01
S04-F003	0.71	0.71	0.01	0.01
S04-G001	0.71	0.71	0.01	0.01
S04-G002	0.71	0.71	0.01	0.01
S04-G003	0.71	0.71	0.01	0.01
S04-H001	0.71	0.71	0.01	0.01
S04-H002	0.71	0.71	0.01	0.01
S04-H003	0.71	0.71	0.01	0.01
S04-H004	0.71	0.71	0.01	0.01
S05-A001	0.71	0.71	0.01	0.01
S05-A002	0.71	0.71	0.01	0.01
S05-A003	0.71	0.71	0.01	0.01
S05-A004	0.71	0.71	0.01	0.01
S05-B001	0.71	0.71	0.01	0.01
S05-B002	0.71	0.71	0.01	0.01
S05-B003	0.71	0.71	0.01	0.01
S05-B004	0.71	0.71	0.01	0.01
S05-C001	0.71	0.71	0.01	0.01
S05-C002	0.71	0.71	0.01	0.01
S05-D001	0.71	0.71	0.01	0.01
S05-D002	0.71	0.71	0.01	0.01
S05-E001	0.71	0.71	0.01	0.01
S05-E002	0.71	0.71	0.01	0.01
S05-E003	0.71	0.71	0.01	0.01
S05-E004	0.71	0.71	0.01	0.01
S05-F001				

	0.71	0.71	0.01	0.01
S05-F002	0.71	0.71	0.01	0.01
S05-F003	0.71	0.71	0.01	0.01
S05-G001	0.71	0.71	0.01	0.01
S05-G002	0.71	0.71	0.01	0.01
S05-H001	0.71	0.71	0.01	0.01
S05-H002	0.71	0.71	0.01	0.01
S05-H003	0.71	0.71	0.01	0.01
S05-H004	0.71	0.71	0.01	0.01
S05-H005	0.71	0.71	0.01	0.01
S05-H006	0.71	0.71	0.01	0.01
S05-I001	0.71	0.71	0.01	0.01
S05-I002	0.71	0.71	0.01	0.01
S05-I003	0.71	0.71	0.01	0.01
S05-I004	0.71	0.71	0.01	0.01
S05-J001	0.71	0.71	0.01	0.01
S05-J002	0.71	0.71	0.01	0.01
S05-J003	0.71	0.71	0.01	0.01
S05-L001	0.71	0.71	0.01	0.01
S05-L002	0.71	0.71	0.01	0.01
S05-L003	0.71	0.71	0.01	0.01
P01-A001	0.71	0.71	0.01	0.01
P01-A002	0.71	0.71	0.01	0.01
P01-B001	0.71	0.71	0.01	0.01
P01-B002	0.71	0.71	0.01	0.01
P01-B003	0.71	0.71	0.01	0.01
P01-C001	0.71	0.71	0.01	0.01
P01-C002	0.71	0.71	0.01	0.01
P01-D001	0.71	0.71	0.01	0.01
P01-D002	0.71	0.71	0.01	0.01
P01-E001	0.71	0.71	0.01	0.01
P01-F001	0.71	0.71	0.01	0.01
P01-G001	0.71	0.71	0.01	0.01
P01-G002	0.71	0.71	0.01	0.01
P01-G003	0.71	0.71	0.01	0.01
P01-H001	0.71	0.71	0.01	0.01
P01-H002	0.71	0.71	0.01	0.01
P01-H003	0.71	0.71	0.01	0.01
P01-H004	0.71	0.71	0.01	0.01
P01-I001	0.71	0.71	0.01	0.01
P01-I002	0.71	0.71	0.01	0.01
P01-J001	0.71	0.71	0.01	0.01
P01-J002	0.71	0.71	0.01	0.01
P01-J003	0.71	0.71	0.01	0.01
P01-L001	0.71	0.71	0.01	0.01
P01-F003				

	0.71	0.71	0.01	0.01
S01-A001	0.71	0.71	0.01	0.01
N10-A004	0.71	0.71	0.01	0.01
S01-E001	0.71	0.71	0.01	0.01
S02-E001	0.71	0.71	0.01	0.01
S02-F008	0.71	0.71	0.01	0.01
S02-F001	0.71	0.71	0.01	0.01
S02-F002	0.71	0.71	0.01	0.01
S02-F003	0.71	0.71	0.01	0.01
S02-F004	0.71	0.71	0.01	0.01
S02-F005	0.71	0.71	0.01	0.01
S02-F006	0.71	0.71	0.01	0.01
S02-F007	0.71	0.71	0.01	0.01
S02-F009	0.71	0.71	0.01	0.01
N09_A001	0.71	0.71	0.01	0.01
N09_A002	0.71	0.71	0.01	0.01
N09_A003	0.71	0.71	0.01	0.01
N09_A004	0.71	0.71	0.01	0.01
N09_A005	0.71	0.71	0.01	0.01
N09_B001	0.71	0.71	0.01	0.01
N09_B002	0.71	0.71	0.01	0.01
N09_B003	0.71	0.71	0.01	0.01
N09_B004	0.71	0.71	0.01	0.01
N09_B005	0.71	0.71	0.01	0.01
N09_B006	0.71	0.71	0.01	0.01
N09_B007	0.71	0.71	0.01	0.01
N09_C001	0.71	0.71	0.01	0.01
N09_C002	0.71	0.71	0.01	0.01
N09_C003	0.71	0.71	0.01	0.01
N09_C004	0.71	0.71	0.01	0.01
N09_C005	0.71	0.71	0.01	0.01
N09_D001	0.71	0.71	0.01	0.01
N09_D002	0.71	0.71	0.01	0.01
N09_D003	0.71	0.71	0.01	0.01
N09_D004	0.71	0.71	0.01	0.01
N09_D005	0.71	0.71	0.01	0.01
N09_D006	0.71	0.71	0.01	0.01
N09_D007	0.71	0.71	0.01	0.01
N09_D008	0.71	0.71	0.01	0.01
N09_D009	0.71	0.71	0.01	0.01

**Pipe Wall Temperature Summary Report : 0.000  
hours**

Pipe Wall Temperature Summary					
Pipe Name		Fluid Temp	Inner Wall Temp	Outer Wall Temp	Ambient Temp
		Deg C	Deg C	Deg C	Deg C
N01-A001	Head	51.70	51.70	51.62	28.00
	Tail	45.83	45.83	45.76	28.00
N01-B001	Head	45.83	45.83	45.76	28.00
	Tail	42.26	42.26	42.21	28.00
N02-A001	Head	48.00	48.00	47.93	28.00
	Tail	45.87	45.87	45.81	28.00
N02-B001	Head	45.87	45.87	45.81	28.00
	Tail	41.98	41.98	41.93	28.00
N02-C001	Head	41.98	41.98	41.93	28.00
	Tail	38.35	38.35	38.32	28.00
N02-D001	Head	38.35	38.35	38.32	28.00
	Tail	35.28	35.28	35.26	28.00
N02-E001	Head	35.28	35.28	35.26	28.00
	Tail	32.44	32.44	32.43	28.00
N03-A001	Head	47.25	47.25	47.18	28.00
	Tail	43.32	43.32	43.27	28.00
N03-B001	Head	43.32	43.32	43.27	28.00
	Tail	39.54	39.54	39.50	28.00
N03-C001	Head	39.54	39.54	39.50	28.00
	Tail	36.50	36.50	36.47	28.00
N03-D001	Head	36.50	36.50	36.47	28.00
	Tail	34.12	34.12	34.10	28.00
N03-E001	Head	34.12	34.12	34.10	28.00
	Tail	32.26	32.26	32.25	28.00
N04-A001	Head	47.12	47.12	47.05	28.00
	Tail	44.83	44.83	44.78	28.00
N04-A002	Head	44.83	44.83	44.78	28.00
	Tail	44.04	44.04	43.99	28.00
N04-A003	Head	44.04	44.04	43.99	28.00
	Tail	43.54	43.54	43.48	28.00
N04-B001	Head	43.54	43.54	43.48	28.00
	Tail	39.36	39.36	39.32	28.00
N04-C001	Head	39.36	39.36	39.32	28.00
	Tail	38.79	38.79	38.75	28.00
N04-C002	Head	38.79	38.79	38.75	28.00
	Tail	37.04	37.04	37.01	28.00
N04-C003	Head	37.04	37.04	37.01	28.00
	Tail	36.05	36.05	36.02	28.00
N04-D001	Head	36.05	36.05	36.02	28.00

	Tail	32.14	32.14	32.12	28.00
N05-A001	Head	48.00	48.00	47.93	28.00
	Tail	41.99	41.99	41.94	28.00
N05-B001	Head	41.99	41.99	41.94	28.00
	Tail	40.55	40.55	40.50	28.00
N05-B002	Head	40.55	40.55	40.50	28.00
	Tail	39.04	39.04	39.00	28.00
N05-B003	Head	39.04	39.04	39.00	28.00
	Tail	39.00	39.00	38.97	28.00
N05-B004	Head	39.00	39.00	38.97	28.00
	Tail	37.56	37.56	37.53	28.00
N05-C001	Head	37.56	37.56	37.52	28.00
	Tail	34.51	34.51	34.48	28.00
N05-D001	Head	34.51	34.51	34.48	28.00
	Tail	32.53	32.53	32.51	28.00
N06-A001	Head	47.36	47.36	47.29	28.00
	Tail	47.40	47.40	47.33	28.00
N06-A002	Head	47.40	47.40	47.33	28.00
	Tail	42.17	42.17	42.12	28.00
N06-B001	Head	42.16	42.16	42.12	28.00
	Tail	41.19	41.19	41.14	28.00
N06-B002	Head	41.19	41.19	41.14	28.00
	Tail	38.21	38.21	38.17	28.00
N06-C001	Head	38.21	38.21	38.17	28.00
	Tail	35.87	35.87	35.85	28.00
N06-D001	Head	35.87	35.87	35.85	28.00
	Tail	33.64	33.64	33.62	28.00
N06-E001	Head	33.64	33.64	33.62	28.00
	Tail	31.95	31.95	31.93	28.00
N07-A001	Head	47.18	47.18	47.11	28.00
	Tail	42.59	42.59	42.54	28.00
N07-B001	Head	42.59	42.59	42.54	28.00
	Tail	40.50	40.50	40.46	28.00
N07-B002	Head	40.50	40.50	40.45	26.00
	Tail	38.89	38.89	38.85	26.00
N07-C001	Head	38.89	38.89	38.84	26.00
	Tail	37.71	37.71	37.67	26.00
N07-C002	Head	37.71	37.71	37.67	26.00
	Tail	34.91	34.91	34.88	26.00
N07-D001	Head	34.91	34.91	34.88	26.00
	Tail	32.26	32.26	32.24	26.00
N07-E001	Head	32.26	32.26	32.24	26.00
	Tail	30.30	30.30	30.28	26.00
N08-A001	Head	44.81	44.81	44.74	26.00
	Tail	40.00	40.00	39.95	26.00



N08-B001	Head	40.00	40.00	39.95	26.00
	Tail	36.91	36.91	36.87	26.00
N08-B002	Head	36.91	36.91	36.87	26.00
	Tail	35.51	35.51	35.48	26.00
N08-C001	Head	35.51	35.51	35.48	26.00
	Tail	34.22	34.22	34.19	26.00
N08-C002	Head	34.22	34.22	34.19	26.00
	Tail	32.83	32.83	32.80	26.00
N08-D001	Head	32.83	32.83	32.80	26.00
	Tail	32.30	32.30	32.27	26.00
N08-D002	Head	32.30	32.30	32.27	26.00
	Tail	32.00	32.00	31.98	26.00
N08-D003	Head	32.00	32.00	31.98	26.00
	Tail	30.38	30.38	30.37	26.00
N10-A001	Head	41.80	41.80	41.74	26.00
	Tail	41.53	41.53	41.47	26.00
N10-A002	Head	41.53	41.53	41.47	26.00
	Tail	40.15	40.15	40.10	26.00
N10-A003	Head	40.15	40.15	40.10	26.00
	Tail	38.76	38.76	38.72	26.00
N10-B001	Head	37.89	37.89	37.85	26.00
	Tail	35.01	35.01	34.98	26.00
N10-C001	Head	35.01	35.01	34.98	26.00
	Tail	34.74	34.74	34.70	26.00
N10-C002	Head	34.74	34.74	34.70	26.00
	Tail	33.36	33.36	33.33	26.00
N10-C003	Head	33.36	33.36	33.33	26.00
	Tail	32.72	32.72	32.70	26.00
N10-C004	Head	32.72	32.72	32.70	26.00
	Tail	32.08	32.08	32.05	26.00
N10-C005	Head	32.08	32.08	32.05	26.00
	Tail	32.39	32.39	32.36	26.00
N10-C006	Head	32.39	32.39	32.36	26.00
	Tail	32.15	32.15	32.13	26.00
N10-D001	Head	32.15	32.15	32.13	26.00
	Tail	28.65	28.65	28.64	26.00
N10-E001	Head	28.65	28.65	28.65	28.00
	Tail	29.08	29.08	29.07	28.00
N10-E002	Head	29.08	29.08	29.07	28.00
	Tail	28.35	28.35	28.35	28.00
N10-E003	Head	28.35	28.35	28.35	28.00
	Tail	29.18	29.18	29.18	28.00
N10-E004	Head	29.18	29.18	29.18	28.00
	Tail	27.90	27.90	27.90	28.00
N11-A001	Head	42.05	42.05	42.00	28.00

	Tail	40.55	40.55	40.51	28.00
N11-A002	Head	40.55	40.55	40.51	28.00
	Tail	40.41	40.41	40.36	28.00
N11-A003	Head	40.41	40.41	40.36	28.00
	Tail	40.51	40.51	40.47	28.00
N11-A004	Head	40.51	40.51	40.47	28.00
	Tail	38.26	38.26	38.22	28.00
N11-B001	Head	38.26	38.26	38.22	28.00
	Tail	37.56	37.56	37.53	28.00
N11-B002	Head	37.56	37.56	37.53	28.00
	Tail	38.48	38.48	38.44	28.00
N11-B003	Head	38.48	38.48	38.44	28.00
	Tail	37.30	37.30	37.27	28.00
N11-B004	Head	37.30	37.30	37.27	28.00
	Tail	36.66	36.66	36.63	28.00
N11-C001	Head	36.66	36.66	36.62	26.00
	Tail	36.74	36.74	36.70	26.00
N11-C002	Head	36.74	36.74	36.70	26.00
	Tail	36.54	36.54	36.50	26.00
N11-C003	Head	36.54	36.54	36.50	26.00
	Tail	35.54	35.54	35.51	26.00
N11-C004	Head	35.54	35.54	35.51	26.00
	Tail	33.45	33.45	33.42	26.00
N11-C005	Head	33.45	33.45	33.42	26.00
	Tail	33.58	33.58	33.55	26.00
N11-D001	Head	33.58	33.58	33.55	26.00
	Tail	33.37	33.37	33.35	26.00
N11-D002	Head	33.37	33.37	33.34	26.00
	Tail	33.50	33.50	33.47	26.00
N11-D003	Head	33.50	33.50	33.47	26.00
	Tail	32.40	32.40	32.37	26.00
N11-D004	Head	32.40	32.40	32.37	26.00
	Tail	31.71	31.71	31.69	26.00
N11-E001	Head	31.71	31.71	31.69	26.00
	Tail	31.68	31.68	31.66	26.00
N11-E002	Head	31.68	31.68	31.66	26.00
	Tail	31.62	31.62	31.60	26.00
N11-E003	Head	31.62	31.62	31.60	26.00
	Tail	30.70	30.70	30.68	26.00
N11-E004	Head	30.70	30.70	30.68	26.00
	Tail	30.13	30.13	30.12	26.00
S01-A002	Head	38.60	38.60	38.55	26.00
	Tail	36.79	36.79	36.74	26.00
S01-B001	Head	36.79	36.79	36.74	26.00
	Tail	35.79	35.79	35.74	26.00

S01-B002	Head	35.79	35.79	35.74	26.00
	Tail	34.78	34.78	34.74	26.00
S01-C001	Head	34.78	34.78	34.74	26.00
	Tail	33.59	33.59	33.55	26.00
S01-C002	Head	33.59	33.59	33.55	26.00
	Tail	33.45	33.45	33.42	26.00
S01-D001	Head	33.45	33.45	33.42	26.00
	Tail	31.21	31.21	31.18	26.00
S01-E002	Head	30.46	30.46	30.44	26.00
	Tail	29.12	29.12	29.10	26.00
S01-F001	Head	29.12	29.12	29.10	26.00
	Tail	27.81	27.81	27.80	26.00
S01-G001	Head	26.79	26.79	26.79	26.00
	Tail	26.91	26.91	26.91	26.00
S01-G002	Head	26.91	26.91	26.91	26.00
	Tail	25.93	25.93	25.93	26.00
S01-H001	Head	25.93	25.93	25.93	26.00
	Tail	25.64	25.64	25.64	26.00
S01-I001	Head	25.64	25.64	25.64	26.00
	Tail	25.62	25.62	25.62	26.00
S01-I002	Head	25.62	25.62	25.62	26.00
	Tail	24.87	24.87	24.88	26.00
S01-I003	Head	24.87	24.87	24.88	26.00
	Tail	24.99	24.99	24.99	26.00
S01-J001	Head	24.98	24.98	24.99	26.00
	Tail	24.98	24.98	24.98	26.00
S01-J002	Head	24.98	24.98	24.98	26.00
	Tail	24.06	24.06	24.07	26.00
S01-J003	Head	24.06	24.06	24.07	26.00
	Tail	24.39	24.39	24.40	26.00
S01-K001	Head	24.39	24.39	24.40	26.00
	Tail	24.90	24.90	24.90	26.00
S01-K002	Head	24.90	24.90	24.90	26.00
	Tail	24.24	24.24	24.25	26.00
S02-A001	Head	45.13	45.13	45.02	24.00
	Tail	36.93	36.93	36.86	24.00
S02-B001	Head	36.93	36.93	36.86	24.00
	Tail	36.75	36.75	36.68	24.00
S02-B002	Head	36.75	36.75	36.68	24.00
	Tail	35.36	35.36	35.31	24.00
S02-B003	Head	35.36	35.36	35.31	24.00
	Tail	34.44	34.44	34.38	24.00
S02-B004	Head	34.44	34.44	34.38	24.00
	Tail	32.64	32.64	32.60	24.00
S02-B005	Head	32.64	32.64	32.60	24.00

	Tail	32.01	32.01	31.97	24.00
S02-C001	Head	32.01	32.01	31.97	24.00
	Tail	31.48	31.48	31.44	24.00
S02-C002	Head	31.48	31.48	31.44	24.00
	Tail	29.87	29.87	29.84	24.00
S02-C003	Head	29.87	29.87	29.84	24.00
	Tail	30.15	30.15	30.12	24.00
S02-C004	Head	30.15	30.15	30.12	24.00
	Tail	29.03	29.03	29.01	24.00
S02-C005	Head	29.03	29.03	29.01	24.00
	Tail	28.84	28.84	28.81	24.00
S02-D001	Head	28.84	28.84	28.81	24.00
	Tail	26.73	26.73	26.72	24.00
S02-E002	Head	27.61	27.61	27.59	24.00
	Tail	26.28	26.28	26.27	24.00
S02-E003	Head	26.28	26.28	26.27	24.00
	Tail	26.64	26.64	26.63	24.00
S02-E004	Head	26.64	26.64	26.63	24.00
	Tail	24.75	24.75	24.75	24.00
S02-E005	Head	24.75	24.75	24.75	24.00
	Tail	25.93	25.93	25.92	24.00
S02-E006	Head	25.93	25.93	25.92	24.00
	Tail	25.05	25.05	25.04	24.00
S02-G001	Head	22.80	22.80	22.81	24.00
	Tail	23.98	23.98	23.98	24.00
S02-G002	Head	23.98	23.98	23.98	24.00
	Tail	22.01	22.01	22.02	24.00
S02-G003	Head	22.01	22.01	22.02	24.00
	Tail	22.99	22.99	23.00	24.00
S02-G004	Head	22.99	22.99	23.00	24.00
	Tail	22.00	22.00	22.01	24.00
S02-G005	Head	22.00	22.00	22.01	24.00
	Tail	21.16	21.16	21.17	24.00
S02-H001	Head	21.16	21.16	21.17	24.00
	Tail	22.57	22.57	22.58	24.00
S02-H002	Head	22.57	22.57	22.58	24.00
	Tail	20.77	20.77	20.78	24.00
S02-H003	Head	20.77	20.77	20.78	24.00
	Tail	21.70	21.70	21.71	24.00
S02-H004	Head	21.70	21.70	21.71	24.00
	Tail	21.08	21.08	21.09	24.00
S02-I001	Head	21.08	21.08	21.09	24.00
	Tail	20.48	20.48	20.50	24.00
S02-I002	Head	20.48	20.48	20.50	24.00
	Tail	20.89	20.89	20.90	24.00

S02-J001	Head	20.89	20.89	20.90	24.00
	Tail	21.29	21.29	21.30	24.00
S02-J002	Head	21.29	21.29	21.30	24.00
	Tail	21.34	21.34	21.35	24.00
S03-A001	Head	21.17	21.17	21.17	21.00
	Tail	21.09	21.09	21.09	21.00
S03-A002	Head	21.09	21.09	21.09	21.00
	Tail	21.16	21.16	21.15	21.00
S03-A003	Head	21.16	21.16	21.15	21.00
	Tail	20.89	20.89	20.89	21.00
S03-B001	Head	20.89	20.89	20.89	21.00
	Tail	20.50	20.50	20.50	21.00
S03-C001	Head	20.50	20.50	20.50	21.00
	Tail	20.44	20.44	20.45	21.00
S03-C002	Head	20.44	20.44	20.45	21.00
	Tail	20.83	20.83	20.84	21.00
S03-D001	Head	20.83	20.83	20.84	21.00
	Tail	23.28	23.28	23.26	21.00
S03-E001	Head	23.28	23.28	23.26	21.00
	Tail	21.54	21.54	21.53	21.00
S03-F001	Head	21.54	21.54	21.53	21.00
	Tail	21.13	21.13	21.13	21.00
S03-F002	Head	21.13	21.13	21.13	21.00
	Tail	20.99	20.99	20.99	21.00
S03-F003	Head	20.99	20.99	20.99	21.00
	Tail	20.61	20.61	20.62	21.00
S03-F004	Head	20.61	20.61	20.62	21.00
	Tail	20.74	20.74	20.74	21.00
S03-G001	Head	20.74	20.74	20.74	21.00
	Tail	19.33	19.33	19.34	21.00
S03-G002	Head	19.33	19.33	19.34	21.00
	Tail	20.19	20.19	20.19	21.00
S03-H001	Head	20.19	20.19	20.19	21.00
	Tail	19.67	19.67	19.68	21.00
S03-H002	Head	19.67	19.67	19.68	21.00
	Tail	20.74	20.74	20.74	21.00
S03-H003	Head	20.74	20.74	20.74	21.00
	Tail	18.88	18.88	18.89	21.00
S03-H004	Head	18.88	18.88	18.89	21.00
	Tail	20.42	20.42	20.43	21.00
S03-H005	Head	20.42	20.42	20.43	21.00
	Tail	19.36	19.36	19.37	21.00
S03-H006	Head	19.36	19.36	19.37	21.00
	Tail	21.33	21.33	21.32	21.00
S03-I001	Head	21.33	21.33	21.32	21.00

	Tail	21.33	21.33	21.33	21.00
S03-I002	Head	21.33	21.33	21.33	21.00
	Tail	20.14	20.14	20.15	21.00
S03-I003	Head	20.14	20.14	20.15	21.00
	Tail	20.96	20.96	20.96	21.00
S03-J001	Head	20.96	20.96	20.96	21.00
	Tail	21.03	21.03	21.03	21.00
S03-J002	Head	21.03	21.03	21.03	21.00
	Tail	20.79	20.79	20.79	21.00
S03-L001	Head	20.79	20.79	20.79	21.00
	Tail	18.88	18.88	18.90	21.00
S03-L002	Head	18.88	18.88	18.90	21.00
	Tail	21.11	21.11	21.11	21.00
S03-L003	Head	21.11	21.11	21.11	21.00
	Tail	19.62	19.62	19.63	21.00
S03-L004	Head	19.62	19.62	19.63	21.00
	Tail	21.10	21.10	21.10	21.00
S03-L005	Head	21.10	21.10	21.10	21.00
	Tail	20.53	20.53	20.54	21.00
S03-L006	Head	20.53	20.53	20.54	21.00
	Tail	21.23	21.23	21.22	21.00
S03-M001	Head	21.23	21.23	21.22	21.00
	Tail	20.32	20.32	20.32	21.00
S03-M002	Head	20.32	20.32	20.32	21.00
	Tail	21.19	21.19	21.19	21.00
S03-M003	Head	21.19	21.19	21.19	21.00
	Tail	21.07	21.07	21.07	21.00
S04-A001	Head	43.89	43.89	43.70	21.00
	Tail	33.08	33.08	32.98	21.00
S04-A002	Head	33.08	33.08	32.98	21.00
	Tail	30.56	30.56	30.49	21.00
S04-A003	Head	30.56	30.56	30.49	21.00
	Tail	28.41	28.41	28.35	21.00
S04-A004	Head	28.41	28.41	28.35	21.00
	Tail	24.56	24.56	24.53	21.00
S04-A005	Head	24.56	24.56	24.53	21.00
	Tail	25.69	25.69	25.65	21.00
S04-B001	Head	25.69	25.69	25.65	21.00
	Tail	22.84	22.84	22.82	21.00
S04-B002	Head	22.84	22.84	22.82	21.00
	Tail	22.83	22.83	22.81	21.00
S04-B003	Head	22.83	22.83	22.81	21.00
	Tail	21.37	21.37	21.37	21.00
S04-B004	Head	21.37	21.37	21.37	21.00
	Tail	23.07	23.07	23.05	21.00

S04-B005	Head	23.07	23.07	23.05	21.00
	Tail	20.83	20.83	20.83	21.00
S04-B006	Head	20.83	20.83	20.83	21.00
	Tail	21.93	21.93	21.92	21.00
S04-B007	Head	21.93	21.93	21.92	21.00
	Tail	20.59	20.59	20.59	21.00
S04-B008	Head	20.59	20.59	20.59	21.00
	Tail	21.54	21.54	21.53	21.00
S04-B009	Head	21.54	21.54	21.53	21.00
	Tail	19.93	19.93	19.94	21.00
S04-B010	Head	19.93	19.93	19.94	21.00
	Tail	20.41	20.41	20.42	21.00
S04-C001	Head	20.41	20.41	20.42	21.00
	Tail	21.38	21.38	21.38	21.00
S04-C002	Head	21.38	21.38	21.38	21.00
	Tail	20.51	20.51	20.51	21.00
S04-C003	Head	20.51	20.51	20.51	21.00
	Tail	21.60	21.60	21.60	21.00
S04-C004	Head	21.60	21.60	21.60	21.00
	Tail	20.52	20.52	20.53	21.00
S04-C005	Head	20.52	20.52	20.53	21.00
	Tail	21.84	21.84	21.84	21.00
S04-D001	Head	21.84	21.84	21.84	21.00
	Tail	21.80	21.80	21.79	21.00
S04-D002	Head	21.80	21.80	21.79	21.00
	Tail	20.69	20.69	20.69	21.00
S04-D003	Head	20.69	20.69	20.69	21.00
	Tail	21.54	21.54	21.54	21.00
S04-E001	Head	21.54	21.54	21.54	21.00
	Tail	20.50	20.50	20.50	21.00
S04-E002	Head	20.50	20.50	20.50	21.00
	Tail	21.58	21.58	21.57	21.00
S04-E003	Head	21.58	21.58	21.57	21.00
	Tail	20.54	20.54	20.55	21.00
S04-E004	Head	20.54	20.54	20.55	21.00
	Tail	21.53	21.53	21.52	21.00
S04-E005	Head	21.53	21.53	21.52	21.00
	Tail	20.24	20.24	20.25	21.00
S04-E006	Head	20.24	20.24	20.25	21.00
	Tail	21.23	21.23	21.23	21.00
S04-E007	Head	21.23	21.23	21.23	21.00
	Tail	21.19	21.19	21.19	21.00
S04-F001	Head	21.19	21.19	21.19	21.00
	Tail	19.13	19.13	19.14	21.00
S04-F002	Head	19.13	19.13	19.14	21.00

	Tail	19.98	19.98	19.99	21.00
S04-F003	Head	19.98	19.98	19.99	21.00
	Tail	19.23	19.23	19.25	21.00
S04-G001	Head	19.23	19.23	19.25	21.00
	Tail	20.59	20.59	20.59	21.00
S04-G002	Head	20.59	20.59	20.59	21.00
	Tail	19.39	19.39	19.40	21.00
S04-G003	Head	19.39	19.39	19.40	21.00
	Tail	21.65	21.65	21.64	21.00
S04-H001	Head	21.65	21.65	21.64	21.00
	Tail	21.01	21.01	21.01	21.00
S04-H002	Head	21.01	21.01	21.01	21.00
	Tail	20.07	20.07	20.08	21.00
S04-H003	Head	20.07	20.07	20.08	21.00
	Tail	20.84	20.84	20.84	21.00
S04-H004	Head	20.84	20.84	20.84	21.00
	Tail	20.35	20.35	20.36	21.00
S05-A001	Head	36.46	36.46	36.33	21.00
	Tail	35.13	35.13	35.01	21.00
S05-A002	Head	35.13	35.13	35.01	21.00
	Tail	32.63	32.63	32.53	21.00
S05-A003	Head	32.63	32.63	32.53	21.00
	Tail	30.12	30.12	30.05	21.00
S05-A004	Head	30.12	30.12	30.04	21.00
	Tail	24.21	24.21	24.18	21.00
S05-B001	Head	24.21	24.21	24.18	21.00
	Tail	22.09	22.09	22.08	21.00
S05-B002	Head	22.09	22.09	22.08	21.00
	Tail	21.81	21.81	21.80	21.00
S05-B003	Head	21.81	21.81	21.80	21.00
	Tail	20.46	20.46	20.46	21.00
S05-B004	Head	20.46	20.46	20.46	21.00
	Tail	21.52	21.52	21.52	21.00
S05-C001	Head	21.52	21.52	21.52	21.00
	Tail	20.61	20.61	20.61	21.00
S05-C002	Head	20.61	20.61	20.61	21.00
	Tail	16.06	16.06	16.11	21.00
S05-D001	Head	16.06	16.06	16.11	21.00
	Tail	20.40	20.40	20.41	21.00
S05-D002	Head	20.40	20.40	20.41	21.00
	Tail	19.78	19.78	19.79	21.00
S05-E001	Head	19.78	19.78	19.79	21.00
	Tail	20.29	20.29	20.29	21.00
S05-E002	Head	20.29	20.29	20.29	21.00
	Tail	20.24	20.24	20.25	21.00



S05-E003	Head	20.24	20.24	20.25	21.00
	Tail	21.02	21.02	21.02	21.00
S05-E004	Head	21.02	21.02	21.02	21.00
	Tail	20.32	20.32	20.33	21.00
S05-F001	Head	20.32	20.32	20.33	21.00
	Tail	20.54	20.54	20.54	21.00
S05-F002	Head	20.54	20.54	20.54	21.00
	Tail	21.11	21.11	21.11	21.00
S05-F003	Head	21.11	21.11	21.11	21.00
	Tail	20.26	20.26	20.27	21.00
S05-G001	Head	20.26	20.26	20.27	21.00
	Tail	20.97	20.97	20.97	21.00
S05-G002	Head	20.97	20.97	20.97	21.00
	Tail	20.35	20.35	20.36	21.00
S05-H001	Head	20.35	20.35	20.36	21.00
	Tail	23.19	23.19	23.17	21.00
S05-H002	Head	23.19	23.19	23.17	21.00
	Tail	21.09	21.09	21.09	21.00
S05-H003	Head	21.09	21.09	21.09	21.00
	Tail	22.65	22.65	22.63	21.00
S05-H004	Head	22.65	22.65	22.63	21.00
	Tail	20.51	20.51	20.52	21.00
S05-H005	Head	20.51	20.51	20.52	21.00
	Tail	22.28	22.28	22.27	21.00
S05-H006	Head	22.28	22.28	22.27	21.00
	Tail	21.98	21.98	21.97	21.00
S05-I001	Head	21.98	21.98	21.97	21.00
	Tail	21.42	21.42	21.42	21.00
S05-I002	Head	21.42	21.42	21.42	21.00
	Tail	21.41	21.41	21.40	21.00
S05-I003	Head	21.41	21.41	21.40	21.00
	Tail	21.13	21.13	21.13	21.00
S05-I004	Head	21.13	21.13	21.13	21.00
	Tail	20.95	20.95	20.95	21.00
S05-J001	Head	20.95	20.95	20.95	21.00
	Tail	20.12	20.12	20.13	21.00
S05-J002	Head	20.12	20.12	20.13	21.00
	Tail	20.81	20.81	20.81	21.00
S05-J003	Head	20.81	20.81	20.81	21.00
	Tail	20.13	20.13	20.13	21.00
S05-L001	Head	20.13	20.13	20.13	21.00
	Tail	19.96	19.96	19.97	21.00
S05-L002	Head	19.96	19.96	19.97	21.00
	Tail	20.93	20.93	20.93	21.00
S05-L003	Head	20.93	20.93	20.93	21.00

	Tail	20.77	20.77	20.78	21.00
P01-A001	Head	24.27	24.27	24.27	24.00
	Tail	24.34	24.34	24.34	24.00
P01-A002	Head	24.34	24.34	24.34	24.00
	Tail	23.89	23.89	23.89	24.00
P01-B001	Head	23.89	23.89	23.89	24.00
	Tail	24.06	24.06	24.06	24.00
P01-B002	Head	24.06	24.06	24.06	24.00
	Tail	23.39	23.39	23.39	24.00
P01-B003	Head	23.39	23.39	23.39	24.00
	Tail	23.07	23.07	23.08	24.00
P01-C001	Head	23.07	23.07	23.08	24.00
	Tail	23.60	23.60	23.60	24.00
P01-C002	Head	23.60	23.60	23.60	24.00
	Tail	23.06	23.06	23.07	24.00
P01-D001	Head	23.06	23.06	23.07	24.00
	Tail	23.17	23.17	23.18	24.00
P01-D002	Head	23.17	23.17	23.18	24.00
	Tail	22.55	22.55	22.56	24.00
P01-E001	Head	22.55	22.55	22.56	24.00
	Tail	22.88	22.88	22.89	24.00
P01-F001	Head	22.88	22.88	22.89	24.00
	Tail	23.01	23.01	23.02	24.00
P01-G001	Head	23.01	23.01	23.02	24.00
	Tail	23.01	23.01	23.02	24.00
P01-G002	Head	23.01	23.01	23.02	24.00
	Tail	21.84	21.84	21.85	24.00
P01-G003	Head	21.84	21.84	21.85	24.00
	Tail	22.57	22.57	22.58	24.00
P01-H001	Head	22.57	22.57	22.58	24.00
	Tail	22.93	22.93	22.93	24.00
P01-H002	Head	22.93	22.93	22.93	24.00
	Tail	22.03	22.03	22.04	24.00
P01-H003	Head	22.03	22.03	22.04	24.00
	Tail	23.86	23.86	23.86	24.00
P01-H004	Head	23.86	23.86	23.86	24.00
	Tail	23.12	23.12	23.12	24.00
P01-I001	Head	23.12	23.12	23.12	24.00
	Tail	23.02	23.02	23.03	24.00
P01-I002	Head	23.02	23.02	23.03	24.00
	Tail	23.51	23.51	23.51	24.00
P01-J001	Head	23.51	23.51	23.51	24.00
	Tail	23.30	23.30	23.30	24.00
P01-J002	Head	23.30	23.30	23.30	24.00
	Tail	23.89	23.89	23.90	24.00

P01-J003	Head	23.89	23.89	23.90	24.00
	Tail	23.72	23.72	23.72	24.00
P01-L001	Head	23.72	23.72	23.72	24.00
	Tail	23.23	23.23	23.24	24.00
S01-F002	Head	27.81	27.81	27.78	21.00
	Tail	26.79	26.79	26.76	21.00
S01-A001	Head	39.20	39.20	39.11	21.00
	Tail	38.60	38.60	38.52	21.00
N10-A004	Head	38.76	38.76	38.72	26.00
	Tail	37.89	37.89	37.85	26.00
S01-E001	Head	31.21	31.21	31.16	21.00
	Tail	30.46	30.46	30.41	21.00
S02-E001	Head	26.73	26.73	26.70	21.00
	Tail	27.61	27.61	27.57	21.00
S02-F008	Head	22.86	22.86	22.85	21.00
	Tail	24.05	24.05	24.03	21.00
S02-F001	Head	25.05	25.05	25.03	21.00
	Tail	25.57	25.57	25.55	21.00
S02-F002	Head	25.57	25.57	25.55	21.00
	Tail	22.91	22.91	22.90	21.00
S02-F003	Head	22.91	22.91	22.90	21.00
	Tail	24.05	24.05	24.03	21.00
S02-F004	Head	24.05	24.05	24.03	21.00
	Tail	22.99	22.99	22.98	21.00
S02-F005	Head	22.99	22.99	22.98	21.00
	Tail	23.70	23.70	23.69	21.00
S02-F006	Head	23.70	23.70	23.69	21.00
	Tail	22.58	22.58	22.57	21.00
S02-F007	Head	22.58	22.58	22.57	21.00
	Tail	22.86	22.86	22.85	21.00
S02-F009	Head	24.05	24.05	24.03	21.00
	Tail	22.80	22.80	22.79	21.00
N09_A001	Head	43.52	43.52	43.45	26.00
	Tail	43.41	43.41	43.35	26.00
N09_A002	Head	43.41	43.41	43.35	26.00
	Tail	41.67	41.67	41.61	26.00
N09_A003	Head	41.67	41.67	41.61	26.00
	Tail	40.45	40.45	40.40	26.00
N09_A004	Head	40.45	40.45	40.40	26.00
	Tail	39.99	39.99	39.94	26.00
N09_A005	Head	39.99	39.99	39.94	26.00
	Tail	39.82	39.82	39.77	26.00
N09_B001	Head	39.82	39.82	39.77	26.00
	Tail	39.58	39.58	39.53	26.00
N09_B002	Head	39.58	39.58	39.53	26.00

	Tail	38.60	38.60	38.56	26.00
N09_B003	Head	38.60	38.60	38.56	26.00
	Tail	38.72	38.72	38.67	26.00
N09_B004	Head	38.72	38.72	38.67	26.00
	Tail	38.11	38.11	38.07	26.00
N09_B005	Head	38.11	38.11	38.07	26.00
	Tail	37.88	37.88	37.83	26.00
N09_B006	Head	37.88	37.88	37.83	26.00
	Tail	36.56	36.56	36.52	26.00
N09_B007	Head	36.56	36.56	36.52	26.00
	Tail	35.76	35.76	35.73	26.00
N09_C001	Head	35.76	35.76	35.73	26.00
	Tail	35.47	35.47	35.44	26.00
N09_C002	Head	35.47	35.47	35.44	26.00
	Tail	33.76	33.76	33.73	26.00
N09_C003	Head	33.76	33.76	33.73	26.00
	Tail	33.70	33.70	33.67	26.00
N09_C004	Head	33.70	33.70	33.67	26.00
	Tail	32.97	32.97	32.94	26.00
N09_C005	Head	32.97	32.97	32.94	26.00
	Tail	31.87	31.87	31.85	26.00
N09_D001	Head	31.87	31.87	31.85	26.00
	Tail	31.82	31.82	31.80	26.00
N09_D002	Head	31.82	31.82	31.80	26.00
	Tail	31.27	31.27	31.25	26.00
N09_D003	Head	31.27	31.27	31.25	26.00
	Tail	31.42	31.42	31.40	26.00
N09_D004	Head	31.42	31.42	31.40	26.00
	Tail	30.68	30.68	30.67	26.00
N09_D005	Head	30.68	30.68	30.67	26.00
	Tail	30.90	30.90	30.88	26.00
N09_D006	Head	30.90	30.90	30.88	26.00
	Tail	30.10	30.10	30.09	26.00
N09_D007	Head	30.10	30.10	30.09	26.00
	Tail	30.40	30.40	30.39	26.00
N09_D008	Head	30.40	30.40	30.39	26.00
	Tail	29.72	29.72	29.71	26.00
N09_D009	Head	29.72	29.72	29.71	26.00
	Tail	29.72	29.72	29.71	26.00

**Equipment Hydraulic Summary Report : 0.000  
hours**

Equipment Summary								
Equipment Name	Mode of Control	Pressure		Flow	Temperature		Specific Gravity	Heating Value
		kg/cm2g		kSm3/d	Deg C			MJ/m3
		Up	Down		Up	Down		
10_VES_060	PercentOpen	98.53	98.53	25095.247	45.87	45.87	0.6325	35.97
10_VES_070	PercentOpen	95.10	95.10	25095.247	41.98	41.98	0.6325	35.97
10_VES_080	PercentOpen	91.24	91.24	25095.247	38.35	38.35	0.6325	35.97
10_VES_090	PercentOpen	87.20	87.20	25095.247	35.28	35.28	0.6325	35.97
10_VES_140	PercentOpen	96.77	96.77	25010.673	43.32	43.32	0.6325	35.97
10_VES_150	PercentOpen	92.94	92.94	25010.673	39.54	39.54	0.6325	35.97
10_VES_160	PercentOpen	89.16	89.16	25010.674	36.50	36.50	0.6325	35.97
10_VES_170	PercentOpen	85.68	85.68	25010.674	34.12	34.12	0.6325	35.97
10_VES_190	PercentOpen	96.94	96.94	24926.034	43.54	43.54	0.6325	35.97
10_VES_200	PercentOpen	92.66	92.66	24926.034	39.36	39.36	0.6325	35.97
10_VES_280	PercentOpen	94.76	94.76	24855.391	41.99	41.99	0.6325	35.97
10_VES_290	PercentOpen	90.09	90.09	24855.392	37.56	37.56	0.6325	35.97
10_VES_300	PercentOpen	85.95	85.95	24855.392	34.51	34.51	0.6325	35.97
10_VES_320	PercentOpen	95.43	95.43	24771.888	42.17	42.16	0.6325	35.97
10_VES_330	PercentOpen	91.62	91.62	24771.889	38.21	38.21	0.6325	35.97
10_VES_340	PercentOpen	88.75	88.75	24771.889	35.87	35.87	0.6325	35.97
10_VES_350	PercentOpen	85.47	85.47	24771.889	33.64	33.64	0.6325	35.97
10_VES_400	PercentOpen	96.40	96.40	24681.697	42.59	42.59	0.6325	35.97
10_VES_420	PercentOpen	88.98	88.98	23276.697	34.91	34.91	0.6325	35.97
10_VES_430	PercentOpen	85.61	85.61	23276.698	32.26	32.26	0.6325	35.97
10_VES_450	PercentOpen	96.73	96.73	23197.429	40.00	40.00	0.6325	35.97
10_VES_460	PercentOpen	92.40	92.40	23197.429	35.51	35.51	0.6325	35.97
10_VES_470	PercentOpen	89.33	89.33	23197.429	32.83	32.83	0.6325	35.97
10_VES_540	PercentOpen	97.49	97.49	23137.206	39.82	39.82	0.6325	35.97
10_VES_550	PercentOpen	93.64	93.64	23137.206	35.76	35.76	0.6325	35.97
10_VES_560	PercentOpen	88.82	88.82	23137.206	31.87	31.87	0.6325	35.97
10_VES_580	PercentOpen	96.84	96.84	23065.653	37.89	37.89	0.6325	35.97
10_VES_590	PercentOpen	94.08	94.08	23065.653	35.01	35.01	0.6325	35.97
10_VES_610	PercentOpen	84.86	84.86	23065.653	28.65	28.65	0.6325	35.97
10_VES_660	PercentOpen	96.72	96.72	22044.410	38.26	38.26	0.6325	35.97
10_VES_670	PercentOpen	95.83	95.83	22044.410	36.66	36.66	0.6325	35.97
10_VES_680	PercentOpen	92.84	92.84	21565.910	33.58	33.58	0.6325	35.97
10_VES_690	PercentOpen	91.07	91.07	19765.910	31.71	31.71	0.6325	35.97
40_VES_040	PercentOpen	98.33	98.33	10930.210	36.79	36.79	0.6325	35.97
40_VES_050	PercentOpen	96.80	96.80	10930.210	34.78	34.78	0.6325	35.97
40_VES_060	PercentOpen	96.10	96.10	10022.710	33.45	33.45	0.6325	35.97
40_VES_070	PercentOpen	94.11	94.10	10022.710	31.21	31.21	0.6325	35.97
40_VES_080	PercentOpen	92.74	92.74	9590.210	29.12	29.12	0.6325	35.97
40_VES_090	PercentOpen	90.11	90.11	9590.210	26.79	26.79	0.6325	35.97

40_VES_100	PercentOpen	88.15	88.15	9590.210	25.93	25.93	0.6325	35.97
40_VES_110	PercentOpen	86.52	86.52	9590.210	25.64	25.64	0.6325	35.97
40_VES_120	PercentOpen	83.84	83.84	9590.210	24.99	24.98	0.6325	35.97
40_VES_130	PercentOpen	80.23	80.23	9590.211	24.39	24.39	0.6325	35.97
40_VES_160	PercentOpen	77.35	77.35	9590.211	24.24	24.24	0.6325	35.97
40_VES_140	PercentOpen	95.44	95.44	9550.882	36.93	36.93	0.6325	35.97
40_VES_150	PercentOpen	92.93	92.93	9550.882	32.01	32.01	0.6325	35.97
40_VES_200	PercentOpen	90.41	90.41	9550.882	28.84	28.84	0.6325	35.97
40_VES_210	PercentOpen	88.51	88.51	9550.883	26.73	26.73	0.6325	35.97
40_VES_220	PercentOpen	86.78	86.78	9550.883	25.05	25.05	0.6325	35.97
40_VES_230	PercentOpen	84.01	84.00	9550.883	22.80	22.80	0.6325	35.97
40_VES_240	PercentOpen	79.08	79.07	9550.883	21.16	21.16	0.6325	35.97
40_VES_250	PercentOpen	75.29	75.29	9550.883	21.08	21.08	0.6325	35.97
40_VES_260	PercentOpen	72.03	72.03	9550.883	20.89	20.89	0.6325	35.97
40_VES_270	PercentOpen	69.75	69.75	4489.883	21.34	21.34	0.6325	35.97
60_VES_040	PercentOpen	68.24	68.24	4489.883	20.89	20.89	0.6325	35.97
60_VES_050	PercentOpen	66.41	66.41	4489.883	20.50	20.50	0.6325	35.97
60_VES_060	PercentOpen	65.67	65.67	4489.883	20.83	20.83	0.6325	35.97
60_VES_070	PercentOpen	68.66	68.66	4489.883	23.28	23.28	0.6325	35.97
60_VES_080	PercentOpen	67.08	67.08	4489.883	21.54	21.54	0.6325	35.97
60_VES_090	PercentOpen	64.94	64.94	4489.883	20.74	20.74	0.6325	35.97
60_VES_100	PercentOpen	62.21	62.21	4489.883	20.19	20.19	0.6325	35.97
60_VES_110	PercentOpen	60.67	60.67	3936.383	21.33	21.33	0.6325	35.97
60_VES_120	PercentOpen	59.39	59.39	3936.383	20.96	20.96	0.6325	35.97
60_VES_270	PercentOpen	58.76	58.76	3681.384	20.79	20.79	0.6325	35.97
60_VES_320	PercentOpen	57.39	57.39	3248.884	21.23	21.23	0.6325	35.97
60_VES_190	PercentOpen	72.21	72.21	3237.807	25.69	25.69	0.6325	35.97
60_VES_200	PercentOpen	66.86	66.86	3237.807	20.41	20.41	0.6325	35.97
60_VES_210	PercentOpen	67.28	67.28	3237.807	21.84	21.84	0.6325	35.97
60_VES_220	PercentOpen	66.58	66.58	3237.807	21.54	21.54	0.6325	35.97
60_VES_230	PercentOpen	65.06	65.06	3237.807	21.19	21.19	0.6325	35.97
60_VES_240	PercentOpen	62.07	62.07	3237.807	19.23	19.23	0.6325	35.97
60_VES_250	PercentOpen	62.83	62.83	3237.807	21.65	21.65	0.6325	35.97
60_VES_290	PercentOpen	74.50	74.50	2841.500	36.46	36.46	0.6325	35.97
80_VES_020	PercentOpen	73.82	73.82	2409.000	24.21	24.21	0.6325	35.97
80_VES_030	PercentOpen	71.69	71.69	2409.000	21.52	21.52	0.6325	35.97
80_VES_040	PercentOpen	63.82	63.82	2409.000	16.06	16.06	0.6325	35.97
80_VES_050	PercentOpen	62.57	62.57	2409.000	19.78	19.78	0.6325	35.97
80_VES_060	PercentOpen	61.46	61.46	2409.000	20.32	20.32	0.6325	35.97
80_VES_070	PercentOpen	59.30	59.30	2409.000	20.26	20.26	0.6325	35.97
80_VES_080	PercentOpen	57.10	57.10	2409.000	20.35	20.35	0.6325	35.97
80_VES_090	PercentOpen	58.61	58.61	2409.000	21.98	21.98	0.6325	35.97
80_VES_100	PercentOpen	56.90	56.90	2409.000	20.95	20.95	0.6325	35.97
80_VES_110	PercentOpen	54.82	54.82	2409.000	20.13	20.13	0.6325	35.97
10_VES_050	PercentOpen	72.59	72.59	7000.000	23.07	23.07	0.6325	35.97
60_VES_060								

	PercentOpen	71.88	71.88	7000.000	23.06	23.06	0.6325	35.97
90_VES_070	PercentOpen	70.27	70.27	7000.000	22.55	22.55	0.6325	35.97
90_VES_080	PercentOpen	69.04	69.04	7000.000	22.88	22.88	0.6325	35.97
90_VES_090	PercentOpen	68.14	68.14	7000.000	23.01	23.01	0.6325	35.97
90_VES_100	PercentOpen	66.49	66.49	7000.000	22.57	22.57	0.6325	35.97
90_VES_110	PercentOpen	65.30	65.30	7000.000	23.12	23.12	0.6325	35.97
90_VES_120	PercentOpen	64.54	64.54	7000.000	23.51	23.51	0.6325	35.97
90_VES_130	PercentOpen	64.18	64.18	7000.000	23.72	23.72	0.6325	35.97
MTN	PercentOpen	85.00	85.00	25195.170	51.70	51.70	0.6325	35.97
10_VES_040	PercentOpen	80.51	80.51	25195.170	45.83	45.83	0.6325	35.97
10_VES_210	PercentOpen	88.68	88.68	24926.034	36.05	36.05	0.6325	35.97
10_VES_410	PercentOpen	92.77	92.77	23276.697	38.89	38.89	0.6325	35.97
10_VES_600	PercentOpen	90.36	90.36	23065.653	32.15	32.15	0.6325	35.97
90_VES_040	PercentOpen	74.26	74.26	7000.000	23.89	23.89	0.6325	35.97
60_VES_140	PercentOpen	75.00	75.00	3237.807	43.89	43.89	0.6325	35.97
HUB7	PercentOpen	65.00	65.00	2800.000	25.00	25.00	0.6325	35.97
HUB8	PercentOpen	65.00	65.00	-2800.000	25.00	25.00	0.6325	35.97
ARA1	PercentOpen	69.75	69.75	2500.500	21.34	21.34	0.6325	35.97
CAN1	PercentOpen	54.34	54.34	0.000	20.77	20.77	0.6325	35.97
CAN2	PercentOpen	54.34	54.34	0.000	20.77	20.77	0.6325	35.97
HUB1	PercentOpen	89.47	89.47	7000.000	30.13	30.13	0.6325	35.97
HUB2	PercentOpen	89.47	65.00	0.000	30.13	25.00	0.6325	35.97
HUB3	PercentOpen	65.00	89.47	0.000	25.00	30.13	0.6325	35.97
HUB4	PercentOpen	89.47	65.00	0.000	30.13	25.00	0.6325	35.97
HUB5	PercentOpen	89.47	89.47	7000.000	30.13	30.13	0.6325	35.97
HUB6	PercentOpen	65.00	65.00	300.000	25.00	25.00	0.6325	35.97
HUB9	PercentOpen	89.47	65.00	0.000	30.13	25.00	0.6325	35.97
HUB10	PercentOpen	89.47	89.47	10965.910	30.13	30.13	0.6325	35.97
RES_CBA	Resistance	77.12	77.11	25195.170	42.26	42.26	0.6325	35.97
RES_MRD	Resistance	82.56	82.55	25095.247	32.44	32.44	0.6325	35.97
RES_ANT	Resistance	82.49	82.48	25010.674	32.26	32.26	0.6325	35.97
RES_CGR	Resistance	82.75	82.75	24926.035	32.14	32.14	0.6325	35.97
RES_RRP	Resistance	82.51	82.50	24855.393	32.53	32.53	0.6325	35.97
RES_TLG	Resistance	82.35	82.35	24771.890	31.95	31.95	0.6325	35.97
RES_MIR	Resistance	82.64	82.64	23276.698	30.30	30.30	0.6325	35.97
RES_PEN	Resistance	85.78	85.77	23197.430	30.38	30.38	0.6325	35.97
RES_IAC	Resistance	85.40	85.39	23137.206	29.72	29.72	0.6325	35.97
RES_SCA	Resistance	82.95	82.94	23065.654	27.90	27.90	0.6325	35.97
RES_BIG	Resistance	56.08	56.08	3248.884	21.07	21.07	0.6325	35.97
RES_SID	Resistance	60.62	60.61	2846.307	20.35	20.35	0.6325	35.97
RES_ARC	Resistance	69.75	69.37	4489.883	21.34	21.17	0.6325	35.97
RES_PLN	Resistance	89.47	89.17	10965.910	30.13	30.02	0.6325	35.97
RES_CBO	Resistance	77.35	77.13	9590.211	24.24	24.15	0.6325	35.97
ERP ARC	Bypass	68.98	68.98	4489.883	21.17	21.17	0.6325	35.97
ERP PLN	MaximumDownstreamPressure	89.47	75.00	7000.000	30.13	24.27	0.6325	35.97

	Resistance	100.00	99.99	25095.247	62.64	48.00	0.6325	35.97
COOL_MRD	Resistance	100.00	99.99	25010.673	47.25	47.25	0.6325	35.97
COOL_ANT	Resistance	100.00	99.99	24926.034	47.12	47.12	0.6325	35.97
COOL_CGR	Resistance	100.00	99.99	24855.391	48.48	48.00	0.6325	35.97
COOL_RRP	Resistance	100.00	99.99	24771.888	47.36	47.36	0.6325	35.97
COOL_TLG	Resistance	100.00	99.99	24681.697	47.18	47.18	0.6325	35.97
COOL_MIR	Resistance	100.00	100.00	23197.429	44.81	44.81	0.6325	35.97
COOL_PEN	Resistance	100.00	100.00	23137.205	43.52	43.52	0.6325	35.97
COOL_IAC	Resistance	100.00	100.00	23065.653	41.80	41.80	0.6325	35.97
COOL_SCA	Resistance	100.00	100.00	22989.410	42.05	42.05	0.6325	35.97
COOL_BIG	Resistance	75.00	75.00	3237.807	43.89	43.89	0.6325	35.97
COOL_ARC	Resistance	69.37	68.98	4489.883	21.17	21.17	0.6325	35.97
COOL_PLN	Resistance	99.80	99.55	10930.210	39.20	39.20	0.6325	35.97
COOL_CBO	Resistance	99.80	99.61	9550.882	45.13	45.13	0.6325	35.97
COOL_SID	Resistance	74.50	74.50	2841.500	36.46	36.46	0.6325	35.97

Accumulated Volume Summary			
Equipment Name	Current Flow Rate	Accumulated Volume	Timer Value
	kSm3/d	KPM3	hours
10_VES_060	25095.2470	0.0000	24.000
10_VES_070	25095.2470	0.0000	24.000
10_VES_080	25095.2471	0.0000	24.000
10_VES_090	25095.2473	0.0000	24.000
10_VES_140	25010.6733	0.0000	24.000
10_VES_150	25010.6734	0.0000	24.000
10_VES_160	25010.6735	0.0000	24.000
10_VES_170	25010.6737	0.0000	24.000
10_VES_190	24926.0339	0.0000	24.000
10_VES_200	24926.0340	0.0000	24.000
10_VES_280	24855.3914	0.0000	24.000
10_VES_290	24855.3916	0.0000	24.000
10_VES_300	24855.3921	0.0000	24.000
10_VES_320	24771.8883	0.0000	24.000
10_VES_330	24771.8886	0.0000	24.000
10_VES_340	24771.8889	0.0000	24.000
10_VES_350	24771.8892	0.0000	24.000
10_VES_400	24681.6966	0.0000	24.000
10_VES_420	23276.6972	0.0000	24.000
10_VES_430	23276.6976	0.0000	24.000
10_VES_450	23197.4288	0.0000	24.000
10_VES_460	23197.4290	0.0000	24.000
10_VES_470	23197.4293	0.0000	24.000
10_VES_540	23137.2055	0.0000	24.000



10_VES_550	23137.2057	0.0000	24.000
10_VES_560	23137.2061	0.0000	24.000
10_VES_580	23065.6529	0.0000	24.000
10_VES_590	23065.6530	0.0000	24.000
10_VES_610	23065.6534	0.0000	24.000
10_VES_660	22044.4096	0.0000	24.000
10_VES_670	22044.4096	0.0000	24.000
10_VES_680	21565.9098	0.0000	24.000
10_VES_690	19765.9099	0.0000	24.000
40_VES_040	10930.2098	0.0000	24.000
40_VES_050	10930.2098	0.0000	24.000
40_VES_060	10022.7098	0.0000	24.000
40_VES_070	10022.7099	0.0000	24.000
40_VES_080	9590.2099	0.0000	24.000
40_VES_090	9590.2100	0.0000	24.000
40_VES_100	9590.2101	0.0000	24.000
40_VES_110	9590.2102	0.0000	24.000
40_VES_120	9590.2103	0.0000	24.000
40_VES_130	9590.2105	0.0000	24.000
40_VES_160	9590.2107	0.0000	24.000
40_VES_140	9550.8825	0.0000	24.000
40_VES_150	9550.8825	0.0000	24.000
40_VES_200	9550.8825	0.0000	24.000
40_VES_210	9550.8825	0.0000	24.000
40_VES_220	9550.8826	0.0000	24.000
40_VES_230	9550.8826	0.0000	24.000
40_VES_240	9550.8827	0.0000	24.000
40_VES_250	9550.8828	0.0000	24.000
40_VES_260	9550.8828	0.0000	24.000
40_VES_270	4489.8829	0.0000	24.000
60_VES_040	4489.8829	0.0000	24.000
60_VES_050	4489.8830	0.0000	24.000
60_VES_060	4489.8830	0.0000	24.000
60_VES_070	4489.8831	0.0000	24.000
60_VES_080	4489.8832	0.0000	24.000
60_VES_090	4489.8832	0.0000	24.000
60_VES_100	4489.8833	0.0000	24.000
60_VES_110	3936.3834	0.0000	24.000
60_VES_120	3936.3835	0.0000	24.000
60_VES_270	3681.3835	0.0000	24.000
60_VES_320	3248.8836	0.0000	24.000
60_VES_190	3237.8074	0.0000	24.000
60_VES_200	3237.8074	0.0000	24.000
60_VES_210	3237.8074	0.0000	24.000
60_VES_220	3237.8074	0.0000	24.000
60_VES_230			

	3237.8074	0.0000	24.000
60_VES_240	3237.8074	0.0000	24.000
60_VES_250	3237.8074	0.0000	24.000
60_VES_290	2841.5000	0.0000	24.000
80_VES_020	2409.0000	0.0000	24.000
80_VES_030	2409.0000	0.0000	24.000
80_VES_040	2409.0000	0.0000	24.000
80_VES_050	2409.0000	0.0000	24.000
80_VES_060	2409.0000	0.0000	24.000
80_VES_070	2409.0000	0.0000	24.000
80_VES_080	2409.0000	0.0000	24.000
80_VES_090	2409.0000	0.0000	24.000
80_VES_100	2409.0000	0.0000	24.000
80_VES_110	2409.0000	0.0000	24.000
10_VES_050	6999.9999	0.0000	24.000
90_VES_060	6999.9999	0.0000	24.000
90_VES_070	6999.9999	0.0000	24.000
90_VES_080	7000.0000	0.0000	24.000
90_VES_090	7000.0000	0.0000	24.000
90_VES_100	7000.0000	0.0000	24.000
90_VES_110	7000.0000	0.0000	24.000
90_VES_120	7000.0000	0.0000	24.000
90_VES_130	7000.0000	0.0000	24.000
MTN	25195.1697	0.0000	24.000
10_VES_040	25195.1697	0.0000	24.000
10_VES_210	24926.0342	0.0000	24.000
10_VES_410	23276.6968	0.0000	24.000
10_VES_600	23065.6531	0.0000	24.000
90_VES_040	6999.9999	0.0000	24.000
60_VES_140	3237.8074	0.0000	24.000
HUB7	2800.0000	0.0000	24.000
HUB8	-2800.0000	0.0000	24.000
ARA1	2500.5000	0.0000	24.000
CAN1	0.0000	0.0000	24.000
CAN2	0.0000	0.0000	24.000
HUB1	6999.9999	0.0000	24.000
HUB2	0.0000	0.0000	24.000
HUB3	0.0000	0.0000	24.000
HUB4	0.0000	0.0000	24.000
HUB5	6999.9999	0.0000	24.000
HUB6	300.0000	0.0000	24.000
HUB9	0.0000	0.0000	24.000
HUB10	10965.9101	0.0000	24.000
RES_CBA	25195.1698	0.0000	24.000
RES_MRD	25095.2475	0.0000	24.000
RES_ANT			

	25010.6740	0.0000	24.000
RES_CGR	24926.0346	0.0000	24.000
RES_RRP	24855.3926	0.0000	24.000
RES_TLG	24771.8898	0.0000	24.000
RES_MIR	23276.6980	0.0000	24.000
RES_PEN	23197.4297	0.0000	24.000
RES_IAC	23137.2064	0.0000	24.000
RES_SCA	23065.6535	0.0000	24.000
RES_BIG	3248.8837	0.0000	24.000
RES_SID	2846.3074	0.0000	24.000
RES_ARC	4489.8829	0.0000	24.000
RES_PLN	10965.9101	0.0000	24.000
RES_CBO	9590.2107	0.0000	24.000
ERP ARC	4489.8829	0.0000	24.000
ERP PLN	6999.9999	0.0000	24.000
COOL_CBA	25095.2470	0.0000	24.000
COOL_MRD	25010.6733	0.0000	24.000
COOL_ANT	24926.0338	0.0000	24.000
COOL_CGR	24855.3913	0.0000	24.000
COOL_RRP	24771.8883	0.0000	24.000
COOL_TLG	24681.6966	0.0000	24.000
COOL_MIR	23197.4287	0.0000	24.000
COOL_PEN	23137.2055	0.0000	24.000
COOL_IAC	23065.6529	0.0000	24.000
COOL_SCA	22989.4095	0.0000	24.000
COOL_BIG	3237.8074	0.0000	24.000
COOL_ARC	4489.8829	0.0000	24.000
COOL_PLN	10930.2098	0.0000	24.000
COOL_CBO	9550.8824	0.0000	24.000
COOL_SID	2841.5000	0.0000	24.000

**Relief Valves Hydraulic Summary Report : 0.000  
hours**

**Xreg Hydraulic Summary Report : 0.000 hours**

Xreg Summary						
Xreg Name	Mode of Control	Pressure	Flow	Temperature	Specific Gravity	Heating Value
		kg/cm2g	kSm3/d	Deg C		MJ/m3
RGD	MaximumPressure	85.00	25195.170	51.70	0.6325	35.97
EMED GASCAR_E	MaximumPressure	65.00	-2800.000	25.00	0.6325	35.97
TGS	MaximumFlow	68.66	0.000	23.28	0.6325	35.97
PE CBA	MaximumFlow	80.51	0.000	45.83	0.6325	35.97
PE CGR	MaximumFlow	82.75	0.000	32.14	0.6325	35.97
UTE TLG	MaximumFlow	92.77	0.000	38.89	0.6325	35.97
PE BLC	MaximumFlow	91.14	0.000	34.22	0.6325	35.97
PE BSP	MaximumFlow	90.36	0.000	32.15	0.6325	35.97
PE SCA	MaximumFlow	98.37	945.000	40.41	0.6325	35.97
PE RCL	MaximumFlow	95.09	478.500	35.54	0.6325	35.97
PE LMR	MaximumFlow	92.70	1800.000	33.37	0.6325	35.97
PE AMR	MaximumFlow	91.11	1800.000	31.68	0.6325	35.97
PE RPL	MaximumFlow	65.00	2500.000	25.00	0.6325	35.97
PE SMR	MaximumFlow	97.69	0.000	35.79	0.6325	35.97
PE CMP	MaximumFlow	95.96	907.500	33.59	0.6325	35.97
PE ITU	MaximumFlow	92.74	0.000	29.12	0.6325	35.97
PE ACB	MaximumFlow	88.15	0.000	25.93	0.6325	35.97
PE CIC ARC	MaximumFlow	69.96	0.000	21.29	0.6325	35.97
PE RPR	MaximumFlow	69.75	2500.500	21.34	0.6325	35.97
PE JVL	MaximumFlow	67.08	0.000	21.54	0.6325	35.97
PE GMM	MaximumFlow	64.94	0.000	20.74	0.6325	35.97
PE GSP	MaximumFlow	60.67	553.500	21.33	0.6325	35.97
PE BRQ	MaximumFlow	59.27	255.000	21.03	0.6325	35.97
PE TJC	MaximumFlow	57.39	432.500	21.23	0.6325	35.97
PE SPA	MaximumFlow	73.07	0.000	33.08	0.6325	35.97
PE TBR	MaximumFlow	65.06	0.000	21.19	0.6325	35.97
PE URS	MaximumFlow	62.06	391.500	21.01	0.6325	35.97
PE NVZ	MaximumFlow	74.70	432.500	30.12	0.6325	35.97
PE VZC	MaximumFlow	59.30	0.000	20.26	0.6325	35.97
PE ARA	MaximumFlow	57.43	0.000	21.13	0.6325	35.97
PE CCH	MaximumFlow	54.86	0.000	20.93	0.6325	35.97
PE RFP	MaximumFlow	54.34	0.000	20.77	0.6325	35.97
PE CAN	MaximumFlow	54.34	2409.000	20.77	0.6325	35.97
PE JGN	MaximumFlow	74.26	0.000	23.89	0.6325	35.97
PE ITA	MaximumFlow	70.27	0.000	22.55	0.6325	35.97
PE GRM	MaximumFlow	64.54	0.000	23.51	0.6325	35.97
EMED GRM	MaximumFlow	63.30	7000.000	23.23	0.6325	35.97
PE IND	MaximumFlow	93.85	432.500	30.46	0.6325	35.97
UTE ARC	MaximumFlow	69.75	2560.500	21.34	0.6325	35.97
UTE CAN	MaximumFlow	54.34	0.000	20.77	0.6325	35.97
PE PFZ	MaximumFlow	90.98	0.000	27.81	0.6325	35.97

PE CLG	MaximumFlow	72.03	0.000	20.89	0.6325	35.97
PE GMN	MaximumFlow	99.36	0.000	38.60	0.6325	35.97
EMED GASCAR_S	MaximumFlow	65.00	0.000	25.00	0.6325	35.97
PE IGR	MaximumFlow	58.84	0.000	22.28	0.6325	35.97
EMED JCT	MaximumFlow	65.00	300.000	25.00	0.6325	35.97
PE GUA	MaximumFlow	95.93	0.000	38.11	0.6325	35.97
PE VLP	MaximumFlow	96.73	0.000	40.00	0.6325	35.97
PE IAC	MaximumFlow	85.40	0.000	29.72	0.6325	35.97
PE IBT	MaximumFlow	97.70	0.000	38.76	0.6325	35.97
UFN TLG	MaximumFlow	92.77	1405.000	38.89	0.6325	35.97
PE ITP	MaximumFlow	83.84	0.000	24.99	0.6325	35.97
PE ITR	MaximumFlow	96.72	0.000	38.26	0.6325	35.97
COM_CBA	MaximumFlow	77.11	99.923	42.26	0.6325	35.97
COM_MRD	MaximumFlow	82.55	84.574	32.44	0.6325	35.97
COMB_ANT	MaximumFlow	82.48	84.640	32.26	0.6325	35.97
COMB_CGR	MaximumFlow	82.75	70.643	32.14	0.6325	35.97
COMB_RRP	MaximumFlow	82.50	83.504	32.53	0.6325	35.97
COMB_TLG	MaximumFlow	82.35	90.193	31.95	0.6325	35.97
COMB_MIR	MaximumFlow	82.64	79.269	30.30	0.6325	35.97
COMB_PEN	MaximumFlow	85.77	60.224	30.38	0.6325	35.97
COMB_IAC	MaximumFlow	85.39	71.554	29.72	0.6325	35.97
COMB_SCA	MaximumFlow	82.94	76.244	27.90	0.6325	35.97
COMB_ARC	MaximumFlow	69.37	0.000	21.17	0.6325	35.97
COMB_PLN	MaximumFlow	89.17	35.700	30.02	0.6325	35.97
COMB_CBO	MaximumFlow	77.13	39.328	24.15	0.6325	35.97
COMB_SID	MaximumFlow	60.61	4.807	20.35	0.6325	35.97
COMB_BIG	MaximumFlow	56.08	11.076	21.07	0.6325	35.97

Accumulated Volume Summary			
Xreg Name	Current Flow Rate	Accumulated Volume	Timer Value
	kSm3/d	KPM3	hours
RGD	-25195.1697	0.0000	24.000
EMED GASCAR_E	-2800.0000	0.0000	24.000
TGS	0.0000	0.0000	24.000
PE CBA	0.0000	0.0000	24.000
PE CGR	0.0000	0.0000	24.000
UTE TLG	0.0000	0.0000	24.000
PE BLC	0.0000	0.0000	24.000
PE BSP	0.0000	0.0000	24.000
PE SCA	945.0000	0.0000	24.000
PE RCL	478.5000	0.0000	24.000
PE LMR	1800.0000	0.0000	24.000

PE AMR	1800.0000	0.0000	24.000
PE RPL	2500.0000	0.0000	24.000
PE SMR	0.0000	0.0000	24.000
PE CMP	907.5000	0.0000	24.000
PE ITU	0.0000	0.0000	24.000
PE ACB	0.0000	0.0000	24.000
PE CIC ARC	0.0000	0.0000	24.000
PE RPR	2500.5000	0.0000	24.000
PE JVL	0.0000	0.0000	24.000
PE GMM	0.0000	0.0000	24.000
PE GSP	553.5000	0.0000	24.000
PE BRQ	255.0000	0.0000	24.000
PE TJC	432.5000	0.0000	24.000
PE SPA	0.0000	0.0000	24.000
PE TBR	0.0000	0.0000	24.000
PE URS	391.5000	0.0000	24.000
PE NVZ	432.5000	0.0000	24.000
PE VZC	0.0000	0.0000	24.000
PE ARA	0.0000	0.0000	24.000
PE CCH	0.0000	0.0000	24.000
PE RFP	0.0000	0.0000	24.000
PE CAN	2409.0000	0.0000	24.000
PE JGN	0.0000	0.0000	24.000
PE ITA	0.0000	0.0000	24.000
PE GRM	0.0000	0.0000	24.000
EMED GRM	7000.0000	0.0000	24.000
PE IND	432.5000	0.0000	24.000
UTE ARC	2560.5000	0.0000	24.000
UTE CAN	0.0000	0.0000	24.000
PE PFZ	0.0000	0.0000	24.000
PE CLG	0.0000	0.0000	24.000
PE GMN	0.0000	0.0000	24.000
EMED GASCAR_S	0.0000	0.0000	24.000
PE IGR	0.0000	0.0000	24.000
EMED JCT	300.0000	0.0000	24.000
PE GUA	0.0000	0.0000	24.000
PE VLP	0.0000	0.0000	24.000
PE IAC	0.0000	0.0000	24.000
PE IBT	0.0000	0.0000	24.000
UFN TLG	1405.0000	0.0000	24.000
PE ITP	0.0000	0.0000	24.000
PE ITR	0.0000	0.0000	24.000
COM_CBA	99.9228	0.0000	24.000
COM_MRD	84.5742	0.0000	24.000
COMB_ANT	84.6402	0.0000	24.000

COMB_CGR	70.6433	0.0000	24.000
COMB_RRP	83.5044	0.0000	24.000
COMB_TLG	90.1932	0.0000	24.000
COMB_MIR	79.2693	0.0000	24.000
COMB_PEN	60.2243	0.0000	24.000
COMB_IAC	71.5535	0.0000	24.000
COMB_SCA	76.2440	0.0000	24.000
COMB_ARC	0.0000	0.0000	24.000
COMB_PLN	35.7003	0.0000	24.000
COMB_CBO	39.3283	0.0000	24.000
COMB_SID	4.8074	0.0000	24.000
COMB_BIG	11.0763	0.0000	24.000

### Xreg Quality Summary Report : 0.000 hours

Xreg Quality Summary			
Xreg Name	Specific Gravity	Heating Value	Wobbe Index
		MJ/m3	MJ/m3
RGD	0.6325	35.9734	0.0000
EMED GASCAR_E	0.6325	35.9734	0.0000
TGS	0.6325	35.9734	0.0000
PE CBA	0.6325	35.9734	0.0000
PE CGR	0.6325	35.9734	0.0000
UTE TLG	0.6325	35.9734	0.0000
PE BLC	0.6325	35.9734	0.0000
PE BSP	0.6325	35.9734	0.0000
PE SCA	0.6325	35.9734	0.0000
PE RCL	0.6325	35.9734	0.0000
PE LMR	0.6325	35.9734	0.0000
PE AMR	0.6325	35.9734	0.0000
PE RPL	0.6325	35.9734	0.0000
PE SMR	0.6325	35.9734	0.0000
PE CMP	0.6325	35.9734	0.0000
PE ITU	0.6325	35.9734	0.0000
PE ACB	0.6325	35.9734	0.0000
PE CIC ARC	0.6325	35.9734	0.0000
PE RPR	0.6325	35.9734	0.0000
PE JVL	0.6325	35.9734	0.0000
PE GMM	0.6325	35.9734	0.0000
PE GSP	0.6325	35.9734	0.0000
PE BRQ	0.6325	35.9734	0.0000

PE TJC	0.6325	35.9734	0.0000
PE SPA	0.6325	35.9734	0.0000
PE TBR	0.6325	35.9734	0.0000
PE URS	0.6325	35.9734	0.0000
PE NVZ	0.6325	35.9734	0.0000
PE VZC	0.6325	35.9734	0.0000
PE ARA	0.6325	35.9734	0.0000
PE CCH	0.6325	35.9734	0.0000
PE RFP	0.6325	35.9734	0.0000
PE CAN	0.6325	35.9734	0.0000
PE JGN	0.6325	35.9734	0.0000
PE ITA	0.6325	35.9734	0.0000
PE GRM	0.6325	35.9734	0.0000
EMED GRM	0.6325	35.9734	0.0000
PE IND	0.6325	35.9734	0.0000
UTE ARC	0.6325	35.9734	0.0000
UTE CAN	0.6325	35.9734	0.0000
PE PFZ	0.6325	35.9734	0.0000
PE CLG	0.6325	35.9734	0.0000
PE GMN	0.6325	35.9734	0.0000
EMED GASCAR_S	0.6325	35.9734	0.0000
PE IGR	0.6325	35.9734	0.0000
EMED JCT	0.6325	35.9734	0.0000
PE GUA	0.6325	35.9734	0.0000
PE VLP	0.6325	35.9734	0.0000
PE IAC	0.6325	35.9734	0.0000
PE IBT	0.6325	35.9734	0.0000
UFN TLG	0.6325	35.9734	0.0000
PE ITP	0.6325	35.9734	0.0000
PE ITR	0.6325	35.9734	0.0000
COM_CBA	0.6325	35.9734	0.0000
COM_MRD	0.6325	35.9734	0.0000
COMB_ANT	0.6325	35.9734	0.0000
COMB_CGR	0.6325	35.9734	0.0000
COMB_RRP	0.6325	35.9734	0.0000
COMB_TLG	0.6325	35.9734	0.0000
COMB_MIR	0.6325	35.9734	0.0000
COMB_PEN	0.6325	35.9734	0.0000
COMB_IAC	0.6325	35.9734	0.0000
COMB_SCA	0.6325	35.9734	0.0000
COMB_ARC	0.6325	35.9734	0.0000
COMB_PLN	0.6325	35.9734	0.0000
COMB_CBO	0.6325	35.9734	0.0000
COMB_SID	0.6325	35.9734	0.0000
COMB_BIG	0.6325	35.9734	0.0000



Xreg Quality Summary						
Xreg Name	C1	C2	C3	IC4	NC4	IC5
	%	%	%	%	%	%
RGD	89.20	5.90	1.81	0.29	0.40	0.12
EMED GASCAR_E	89.20	5.90	1.81	0.29	0.40	0.12
TGS	89.20	5.90	1.81	0.29	0.40	0.12
PE CBA	89.20	5.90	1.81	0.29	0.40	0.12
PE CGR	89.20	5.90	1.81	0.29	0.40	0.12
UTE TLG	89.20	5.90	1.81	0.29	0.40	0.12
PE BLC	89.20	5.90	1.81	0.29	0.40	0.12
PE BSP	89.20	5.90	1.81	0.29	0.40	0.12
PE SCA	89.20	5.90	1.81	0.29	0.40	0.12
PE RCL	89.20	5.90	1.81	0.29	0.40	0.12
PE LMR	89.20	5.90	1.81	0.29	0.40	0.12
PE AMR	89.20	5.90	1.81	0.29	0.40	0.12
PE RPL	89.20	5.90	1.81	0.29	0.40	0.12
PE SMR	89.20	5.90	1.81	0.29	0.40	0.12
PE CMP	89.20	5.90	1.81	0.29	0.40	0.12
PE ITU	89.20	5.90	1.81	0.29	0.40	0.12
PE ACB	89.20	5.90	1.81	0.29	0.40	0.12
PE CIC ARC	89.20	5.90	1.81	0.29	0.40	0.12
PE RPR	89.20	5.90	1.81	0.29	0.40	0.12
PE JVL	89.20	5.90	1.81	0.29	0.40	0.12
PE GMM	89.20	5.90	1.81	0.29	0.40	0.12
PE GSP	89.20	5.90	1.81	0.29	0.40	0.12
PE BRQ	89.20	5.90	1.81	0.29	0.40	0.12
PE TJC	89.20	5.90	1.81	0.29	0.40	0.12
PE SPA	89.20	5.90	1.81	0.29	0.40	0.12
PE TBR	89.20	5.90	1.81	0.29	0.40	0.12
PE URS	89.20	5.90	1.81	0.29	0.40	0.12
PE NVZ	89.20	5.90	1.81	0.29	0.40	0.12
PE VZC	89.20	5.90	1.81	0.29	0.40	0.12
PE ARA	89.20	5.90	1.81	0.29	0.40	0.12
PE CCH	89.20	5.90	1.81	0.29	0.40	0.12
PE RFP	89.20	5.90	1.81	0.29	0.40	0.12
PE CAN	89.20	5.90	1.81	0.29	0.40	0.12
PE JGN	89.20	5.90	1.81	0.29	0.40	0.12
PE ITA	89.20	5.90	1.81	0.29	0.40	0.12
PE GRM	89.20	5.90	1.81	0.29	0.40	0.12
EMED GRM	89.20	5.90	1.81	0.29	0.40	0.12
PE IND	89.20	5.90	1.81	0.29	0.40	0.12
UTE ARC	89.20	5.90	1.81	0.29	0.40	0.12
UTE CAN	89.20	5.90	1.81	0.29	0.40	0.12

PE PFZ	89.20	5.90	1.81	0.29	0.40	0.12
PE CLG	89.20	5.90	1.81	0.29	0.40	0.12
PE GMN	89.20	5.90	1.81	0.29	0.40	0.12
EMED GASCAR_S	89.20	5.90	1.81	0.29	0.40	0.12
PE IGR	89.20	5.90	1.81	0.29	0.40	0.12
EMED JCT	89.20	5.90	1.81	0.29	0.40	0.12
PE GUA	89.20	5.90	1.81	0.29	0.40	0.12
PE VLP	89.20	5.90	1.81	0.29	0.40	0.12
PE IAC	89.20	5.90	1.81	0.29	0.40	0.12
PE IBT	89.20	5.90	1.81	0.29	0.40	0.12
UFN TLG	89.20	5.90	1.81	0.29	0.40	0.12
PE ITP	89.20	5.90	1.81	0.29	0.40	0.12
PE ITR	89.20	5.90	1.81	0.29	0.40	0.12
COM_CBA	89.20	5.90	1.81	0.29	0.40	0.12
COM_MRD	89.20	5.90	1.81	0.29	0.40	0.12
COMB_ANT	89.20	5.90	1.81	0.29	0.40	0.12
COMB_CGR	89.20	5.90	1.81	0.29	0.40	0.12
COMB_RRP	89.20	5.90	1.81	0.29	0.40	0.12
COMB_TLG	89.20	5.90	1.81	0.29	0.40	0.12
COMB_MIR	89.20	5.90	1.81	0.29	0.40	0.12
COMB_PEN	89.20	5.90	1.81	0.29	0.40	0.12
COMB_IAC	89.20	5.90	1.81	0.29	0.40	0.12
COMB_SCA	89.20	5.90	1.81	0.29	0.40	0.12
COMB_ARC	89.20	5.90	1.81	0.29	0.40	0.12
COMB_PLN	89.20	5.90	1.81	0.29	0.40	0.12
COMB_CBO	89.20	5.90	1.81	0.29	0.40	0.12
COMB_SID	89.20	5.90	1.81	0.29	0.40	0.12
COMB_BIG	89.20	5.90	1.81	0.29	0.40	0.12

Xreg Quality Summary					
Xreg Name	NC5	C6	CO2	N2	O2
	%	%	%	%	%
RGD	0.08	0.09	1.39	0.71	0.01
EMED GASCAR_E	0.08	0.09	1.39	0.71	0.01
TGS	0.08	0.09	1.39	0.71	0.01
PE CBA	0.08	0.09	1.39	0.71	0.01
PE CGR	0.08	0.09	1.39	0.71	0.01
UTE TLG	0.08	0.09	1.39	0.71	0.01
PE BLC	0.08	0.09	1.39	0.71	0.01
PE BSP	0.08	0.09	1.39	0.71	0.01
PE SCA	0.08	0.09	1.39	0.71	0.01
PE RCL	0.08	0.09	1.39	0.71	0.01
PE LMR	0.08	0.09	1.39	0.71	0.01
PE AMR	0.08	0.09	1.39	0.71	0.01

PE RPL	0.08	0.09	1.39	0.71	0.01
PE SMR	0.08	0.09	1.39	0.71	0.01
PE CMP	0.08	0.09	1.39	0.71	0.01
PE ITU	0.08	0.09	1.39	0.71	0.01
PE ACB	0.08	0.09	1.39	0.71	0.01
PE CIC ARC	0.08	0.09	1.39	0.71	0.01
PE RPR	0.08	0.09	1.39	0.71	0.01
PE JVL	0.08	0.09	1.39	0.71	0.01
PE GMM	0.08	0.09	1.39	0.71	0.01
PE GSP	0.08	0.09	1.39	0.71	0.01
PE BRQ	0.08	0.09	1.39	0.71	0.01
PE TJC	0.08	0.09	1.39	0.71	0.01
PE SPA	0.08	0.09	1.39	0.71	0.01
PE TBR	0.08	0.09	1.39	0.71	0.01
PE URS	0.08	0.09	1.39	0.71	0.01
PE NVZ	0.08	0.09	1.39	0.71	0.01
PE VZC	0.08	0.09	1.39	0.71	0.01
PE ARA	0.08	0.09	1.39	0.71	0.01
PE CCH	0.08	0.09	1.39	0.71	0.01
PE RFP	0.08	0.09	1.39	0.71	0.01
PE CAN	0.08	0.09	1.39	0.71	0.01
PE JGN	0.08	0.09	1.39	0.71	0.01
PE ITA	0.08	0.09	1.39	0.71	0.01
PE GRM	0.08	0.09	1.39	0.71	0.01
EMED GRM	0.08	0.09	1.39	0.71	0.01
PE IND	0.08	0.09	1.39	0.71	0.01
UTE ARC	0.08	0.09	1.39	0.71	0.01
UTE CAN	0.08	0.09	1.39	0.71	0.01
PE PFZ	0.08	0.09	1.39	0.71	0.01
PE CLG	0.08	0.09	1.39	0.71	0.01
PE GMN	0.08	0.09	1.39	0.71	0.01
EMED GASCAR_S	0.08	0.09	1.39	0.71	0.01
PE IGR	0.08	0.09	1.39	0.71	0.01
EMED JCT	0.08	0.09	1.39	0.71	0.01
PE GUA	0.08	0.09	1.39	0.71	0.01
PE VLP	0.08	0.09	1.39	0.71	0.01
PE IAC	0.08	0.09	1.39	0.71	0.01
PE IBT	0.08	0.09	1.39	0.71	0.01
UFN TLG	0.08	0.09	1.39	0.71	0.01
PE ITP	0.08	0.09	1.39	0.71	0.01
PE ITR	0.08	0.09	1.39	0.71	0.01
COM_CBA	0.08	0.09	1.39	0.71	0.01
COM_MRD	0.08	0.09	1.39	0.71	0.01
COMB_ANT	0.08	0.09	1.39	0.71	0.01
COMB_CGR	0.08	0.09	1.39	0.71	0.01
COMB_DPP					

	0.08	0.09	1.39	0.71	0.01
COMB_TLG	0.08	0.09	1.39	0.71	0.01
COMB_MIR	0.08	0.09	1.39	0.71	0.01
COMB_PEN	0.08	0.09	1.39	0.71	0.01
COMB_IAC	0.08	0.09	1.39	0.71	0.01
COMB_SCA	0.08	0.09	1.39	0.71	0.01
COMB_ARC	0.08	0.09	1.39	0.71	0.01
COMB_PLN	0.08	0.09	1.39	0.71	0.01
COMB_CBO	0.08	0.09	1.39	0.71	0.01
COMB_SID	0.08	0.09	1.39	0.71	0.01
COMB_BIG	0.08	0.09	1.39	0.71	0.01

### Supply Hydraulic Summary Report : 0.000 hours

Supply Summary						
Supply Name	Mode of Control	Pressure	Flow	Temperature	Specific Gravity	Heating Value
		kg/cm2g	kSm3/d	Deg C		MJ/m3
RGD	MaximumPressure	85.00	25195.170	51.70	0.6325	35.97
EMED GASCAR_E	MaximumPressure	65.00	-2800.000	25.00	0.6325	35.97
TGS	MaximumFlow	68.66	0.000	23.28	0.6325	35.97

Accumulated Volume Summary			
Supply Name	Current Flow Rate	Accumulated Volume	Timer Value
	kSm3/d	KPM3	hours
RGD	-25195.1697	0.0000	24.000
EMED GASCAR_E	-2800.0000	0.0000	24.000
TGS	0.0000	0.0000	24.000

### Supply Quality Summary Report : 0.000 hours

Supply Quality Summary			
Supply Name	Specific Gravity	Heating Value	Wobbe Index

		MJ/m3	MJ/m3
RGD	0.6325	35.9734	0.0000
EMED GASCAR_E	0.6325	35.9734	0.0000
TGS	0.6325	35.9734	0.0000

Supply Quality Summary						
Supply Name	C1	C2	C3	IC4	NC4	IC5
	%	%	%	%	%	%
RGD	89.20	5.90	1.81	0.29	0.40	0.12
EMED GASCAR_E	89.20	5.90	1.81	0.29	0.40	0.12
TGS	89.20	5.90	1.81	0.29	0.40	0.12

Supply Quality Summary					
Supply Name	NC5	C6	CO2	N2	O2
	%	%	%	%	%
RGD	0.08	0.09	1.39	0.71	0.01
EMED GASCAR_E	0.08	0.09	1.39	0.71	0.01
TGS	0.08	0.09	1.39	0.71	0.01

### Delivery Hydraulic Summary Report : 0.000 hours

Delivery Summary						
Delivery Name	Mode of Control	Pressure	Flow	Temperature	Specific Gravity	Heating Value
		kg/cm2g	kSm3/d	Deg C		MJ/m3
PE CBA	MaximumFlow	80.51	0.000	45.83	0.6325	35.97
PE CGR	MaximumFlow	82.75	0.000	32.14	0.6325	35.97
UTE TLG	MaximumFlow	92.77	0.000	38.89	0.6325	35.97
PE BLC	MaximumFlow	91.14	0.000	34.22	0.6325	35.97
PE BSP	MaximumFlow	90.36	0.000	32.15	0.6325	35.97
PE SCA	MaximumFlow	98.37	945.000	40.41	0.6325	35.97
PE RCL	MaximumFlow	95.09	478.500	35.54	0.6325	35.97
PE LMR	MaximumFlow	92.70	1800.000	33.37	0.6325	35.97
PE AMR	MaximumFlow	91.11	1800.000	31.68	0.6325	35.97
PE RPL	MaximumFlow	65.00	2500.000	25.00	0.6325	35.97
PE SMR	MaximumFlow	97.69	0.000	35.79	0.6325	35.97
PE CMP	MaximumFlow	95.96	907.500	33.59	0.6325	35.97
PE ITU	MaximumFlow	92.74	0.000	29.12	0.6325	35.97

PE ACB	MaximumFlow	88.15	0.000	25.93	0.6325	35.97
PE CIC ARC	MaximumFlow	69.96	0.000	21.29	0.6325	35.97
PE RPR	MaximumFlow	69.75	2500.500	21.34	0.6325	35.97
PE JVL	MaximumFlow	67.08	0.000	21.54	0.6325	35.97
PE GMM	MaximumFlow	64.94	0.000	20.74	0.6325	35.97
PE GSP	MaximumFlow	60.67	553.500	21.33	0.6325	35.97
PE BRQ	MaximumFlow	59.27	255.000	21.03	0.6325	35.97
PE TJC	MaximumFlow	57.39	432.500	21.23	0.6325	35.97
PE SPA	MaximumFlow	73.07	0.000	33.08	0.6325	35.97
PE TBR	MaximumFlow	65.06	0.000	21.19	0.6325	35.97
PE URS	MaximumFlow	62.06	391.500	21.01	0.6325	35.97
PE NVZ	MaximumFlow	74.70	432.500	30.12	0.6325	35.97
PE VZC	MaximumFlow	59.30	0.000	20.26	0.6325	35.97
PE ARA	MaximumFlow	57.43	0.000	21.13	0.6325	35.97
PE CCH	MaximumFlow	54.86	0.000	20.93	0.6325	35.97
PE RFP	MaximumFlow	54.34	0.000	20.77	0.6325	35.97
PE CAN	MaximumFlow	54.34	2409.000	20.77	0.6325	35.97
PE JGN	MaximumFlow	74.26	0.000	23.89	0.6325	35.97
PE ITA	MaximumFlow	70.27	0.000	22.55	0.6325	35.97
PE GRM	MaximumFlow	64.54	0.000	23.51	0.6325	35.97
EMED GRM	MaximumFlow	63.30	7000.000	23.23	0.6325	35.97
PE IND	MaximumFlow	93.85	432.500	30.46	0.6325	35.97
UTE ARC	MaximumFlow	69.75	2560.500	21.34	0.6325	35.97
UTE CAN	MaximumFlow	54.34	0.000	20.77	0.6325	35.97
PE PFZ	MaximumFlow	90.98	0.000	27.81	0.6325	35.97
PE CLG	MaximumFlow	72.03	0.000	20.89	0.6325	35.97
PE GMN	MaximumFlow	99.36	0.000	38.60	0.6325	35.97
EMED GASCAR_S	MaximumFlow	65.00	0.000	25.00	0.6325	35.97
PE IGR	MaximumFlow	58.84	0.000	22.28	0.6325	35.97
EMED JCT	MaximumFlow	65.00	300.000	25.00	0.6325	35.97
PE GUA	MaximumFlow	95.93	0.000	38.11	0.6325	35.97
PE VLP	MaximumFlow	96.73	0.000	40.00	0.6325	35.97
PE IAC	MaximumFlow	85.40	0.000	29.72	0.6325	35.97
PE IBT	MaximumFlow	97.70	0.000	38.76	0.6325	35.97
UFN TLG	MaximumFlow	92.77	1405.000	38.89	0.6325	35.97
PE ITP	MaximumFlow	83.84	0.000	24.99	0.6325	35.97
PE ITR	MaximumFlow	96.72	0.000	38.26	0.6325	35.97

Accumulated Volume Summary			
Delivery Name	Current Flow Rate	Accumulated Volume	Timer Value
	kSm3/d	KPM3	hours
PE CBA	0.0000	0.0000	24.000

PE CGR	0.0000	0.0000	24.000
UTE TLG	0.0000	0.0000	24.000
PE BLC	0.0000	0.0000	24.000
PE BSP	0.0000	0.0000	24.000
PE SCA	945.0000	0.0000	24.000
PE RCL	478.5000	0.0000	24.000
PE LMR	1800.0000	0.0000	24.000
PE AMR	1800.0000	0.0000	24.000
PE RPL	2500.0000	0.0000	24.000
PE SMR	0.0000	0.0000	24.000
PE CMP	907.5000	0.0000	24.000
PE ITU	0.0000	0.0000	24.000
PE ACB	0.0000	0.0000	24.000
PE CIC ARC	0.0000	0.0000	24.000
PE RPR	2500.5000	0.0000	24.000
PE JVL	0.0000	0.0000	24.000
PE GMM	0.0000	0.0000	24.000
PE GSP	553.5000	0.0000	24.000
PE BRQ	255.0000	0.0000	24.000
PE TJC	432.5000	0.0000	24.000
PE SPA	0.0000	0.0000	24.000
PE TBR	0.0000	0.0000	24.000
PE URS	391.5000	0.0000	24.000
PE NVZ	432.5000	0.0000	24.000
PE VZC	0.0000	0.0000	24.000
PE ARA	0.0000	0.0000	24.000
PE CCH	0.0000	0.0000	24.000
PE RFP	0.0000	0.0000	24.000
PE CAN	2409.0000	0.0000	24.000
PE JGN	0.0000	0.0000	24.000
PE ITA	0.0000	0.0000	24.000
PE GRM	0.0000	0.0000	24.000
EMED GRM	7000.0000	0.0000	24.000
PE IND	432.5000	0.0000	24.000
UTE ARC	2560.5000	0.0000	24.000
UTE CAN	0.0000	0.0000	24.000
PE PFZ	0.0000	0.0000	24.000
PE CLG	0.0000	0.0000	24.000
PE GMN	0.0000	0.0000	24.000
EMED GASCAR_S	0.0000	0.0000	24.000
PE IGR	0.0000	0.0000	24.000
EMED JCT	300.0000	0.0000	24.000
PE GUA	0.0000	0.0000	24.000
PE VLP	0.0000	0.0000	24.000
PE IAC	0.0000	0.0000	24.000

PE IBT	0.0000	0.0000	24.000
UFN TLG	1405.0000	0.0000	24.000
PE ITP	0.0000	0.0000	24.000
PE ITR	0.0000	0.0000	24.000

### Delivery Quality Summary Report : 0.000 hours

Delivery Quality Summary			
Delivery Name	Specific Gravity	Heating Value	Wobbe Index
		MJ/m3	MJ/m3
PE CBA	0.6325	35.9734	0.0000
PE CGR	0.6325	35.9734	0.0000
UTE TLG	0.6325	35.9734	0.0000
PE BLC	0.6325	35.9734	0.0000
PE BSP	0.6325	35.9734	0.0000
PE SCA	0.6325	35.9734	0.0000
PE RCL	0.6325	35.9734	0.0000
PE LMR	0.6325	35.9734	0.0000
PE AMR	0.6325	35.9734	0.0000
PE RPL	0.6325	35.9734	0.0000
PE SMR	0.6325	35.9734	0.0000
PE CMP	0.6325	35.9734	0.0000
PE ITU	0.6325	35.9734	0.0000
PE ACB	0.6325	35.9734	0.0000
PE CIC ARC	0.6325	35.9734	0.0000
PE RPR	0.6325	35.9734	0.0000
PE JVL	0.6325	35.9734	0.0000
PE GMM	0.6325	35.9734	0.0000
PE GSP	0.6325	35.9734	0.0000
PE BRQ	0.6325	35.9734	0.0000
PE TJC	0.6325	35.9734	0.0000
PE SPA	0.6325	35.9734	0.0000
PE TBR	0.6325	35.9734	0.0000
PE URS	0.6325	35.9734	0.0000
PE NVZ	0.6325	35.9734	0.0000
PE VZC	0.6325	35.9734	0.0000
PE ARA	0.6325	35.9734	0.0000
PE CCH	0.6325	35.9734	0.0000
PE RFP	0.6325	35.9734	0.0000
PE CAN	0.6325	35.9734	0.0000
PE JGN	0.6325	35.9734	0.0000



PE ITA	0.6325	35.9734	0.0000
PE GRM	0.6325	35.9734	0.0000
EMED GRM	0.6325	35.9734	0.0000
PE IND	0.6325	35.9734	0.0000
UTE ARC	0.6325	35.9734	0.0000
UTE CAN	0.6325	35.9734	0.0000
PE PFZ	0.6325	35.9734	0.0000
PE CLG	0.6325	35.9734	0.0000
PE GMN	0.6325	35.9734	0.0000
EMED GASCAR_S	0.6325	35.9734	0.0000
PE IGR	0.6325	35.9734	0.0000
EMED JCT	0.6325	35.9734	0.0000
PE GUA	0.6325	35.9734	0.0000
PE VLP	0.6325	35.9734	0.0000
PE IAC	0.6325	35.9734	0.0000
PE IBT	0.6325	35.9734	0.0000
UFN TLG	0.6325	35.9734	0.0000
PE ITP	0.6325	35.9734	0.0000
PE ITR	0.6325	35.9734	0.0000

Delivery Quality Summary						
Delivery Name	C1	C2	C3	IC4	NC4	IC5
	%	%	%	%	%	%
PE CBA	89.20	5.90	1.81	0.29	0.40	0.12
PE CGR	89.20	5.90	1.81	0.29	0.40	0.12
UTE TLG	89.20	5.90	1.81	0.29	0.40	0.12
PE BLC	89.20	5.90	1.81	0.29	0.40	0.12
PE BSP	89.20	5.90	1.81	0.29	0.40	0.12
PE SCA	89.20	5.90	1.81	0.29	0.40	0.12
PE RCL	89.20	5.90	1.81	0.29	0.40	0.12
PE LMR	89.20	5.90	1.81	0.29	0.40	0.12
PE AMR	89.20	5.90	1.81	0.29	0.40	0.12
PE RPL	89.20	5.90	1.81	0.29	0.40	0.12
PE SMR	89.20	5.90	1.81	0.29	0.40	0.12
PE CMP	89.20	5.90	1.81	0.29	0.40	0.12
PE ITU	89.20	5.90	1.81	0.29	0.40	0.12
PE ACB	89.20	5.90	1.81	0.29	0.40	0.12
PE CIC ARC	89.20	5.90	1.81	0.29	0.40	0.12
PE RPR	89.20	5.90	1.81	0.29	0.40	0.12
PE JVL	89.20	5.90	1.81	0.29	0.40	0.12
PE GMM	89.20	5.90	1.81	0.29	0.40	0.12
PE GSP	89.20	5.90	1.81	0.29	0.40	0.12
PE BRQ	89.20	5.90	1.81	0.29	0.40	0.12
PE TJC	89.20	5.90	1.81	0.29	0.40	0.12

PE SPA	89.20	5.90	1.81	0.29	0.40	0.12
PE TBR	89.20	5.90	1.81	0.29	0.40	0.12
PE URS	89.20	5.90	1.81	0.29	0.40	0.12
PE NVZ	89.20	5.90	1.81	0.29	0.40	0.12
PE VZC	89.20	5.90	1.81	0.29	0.40	0.12
PE ARA	89.20	5.90	1.81	0.29	0.40	0.12
PE CCH	89.20	5.90	1.81	0.29	0.40	0.12
PE RFP	89.20	5.90	1.81	0.29	0.40	0.12
PE CAN	89.20	5.90	1.81	0.29	0.40	0.12
PE JGN	89.20	5.90	1.81	0.29	0.40	0.12
PE ITA	89.20	5.90	1.81	0.29	0.40	0.12
PE GRM	89.20	5.90	1.81	0.29	0.40	0.12
EMED GRM	89.20	5.90	1.81	0.29	0.40	0.12
PE IND	89.20	5.90	1.81	0.29	0.40	0.12
UTE ARC	89.20	5.90	1.81	0.29	0.40	0.12
UTE CAN	89.20	5.90	1.81	0.29	0.40	0.12
PE PFZ	89.20	5.90	1.81	0.29	0.40	0.12
PE CLG	89.20	5.90	1.81	0.29	0.40	0.12
PE GMN	89.20	5.90	1.81	0.29	0.40	0.12
EMED GASCAR_S	89.20	5.90	1.81	0.29	0.40	0.12
PE IGR	89.20	5.90	1.81	0.29	0.40	0.12
EMED JCT	89.20	5.90	1.81	0.29	0.40	0.12
PE GUA	89.20	5.90	1.81	0.29	0.40	0.12
PE VLP	89.20	5.90	1.81	0.29	0.40	0.12
PE IAC	89.20	5.90	1.81	0.29	0.40	0.12
PE IBT	89.20	5.90	1.81	0.29	0.40	0.12
UFN TLG	89.20	5.90	1.81	0.29	0.40	0.12
PE ITP	89.20	5.90	1.81	0.29	0.40	0.12
PE ITR	89.20	5.90	1.81	0.29	0.40	0.12

Delivery Quality Summary					
Delivery Name	NC5	C6	CO2	N2	O2
	%	%	%	%	%
PE CBA	0.08	0.09	1.39	0.71	0.01
PE CGR	0.08	0.09	1.39	0.71	0.01
UTE TLG	0.08	0.09	1.39	0.71	0.01
PE BLC	0.08	0.09	1.39	0.71	0.01
PE BSP	0.08	0.09	1.39	0.71	0.01
PE SCA	0.08	0.09	1.39	0.71	0.01
PE RCL	0.08	0.09	1.39	0.71	0.01
PE LMR	0.08	0.09	1.39	0.71	0.01
PE AMR	0.08	0.09	1.39	0.71	0.01
PE RPL	0.08	0.09	1.39	0.71	0.01
PE SMR	0.08	0.09	1.39	0.71	0.01

PE CMP	0.08	0.09	1.39	0.71	0.01
PE ITU	0.08	0.09	1.39	0.71	0.01
PE ACB	0.08	0.09	1.39	0.71	0.01
PE CIC ARC	0.08	0.09	1.39	0.71	0.01
PE RPR	0.08	0.09	1.39	0.71	0.01
PE JVL	0.08	0.09	1.39	0.71	0.01
PE GMM	0.08	0.09	1.39	0.71	0.01
PE GSP	0.08	0.09	1.39	0.71	0.01
PE BRQ	0.08	0.09	1.39	0.71	0.01
PE TJC	0.08	0.09	1.39	0.71	0.01
PE SPA	0.08	0.09	1.39	0.71	0.01
PE TBR	0.08	0.09	1.39	0.71	0.01
PE URS	0.08	0.09	1.39	0.71	0.01
PE NVZ	0.08	0.09	1.39	0.71	0.01
PE VZC	0.08	0.09	1.39	0.71	0.01
PE ARA	0.08	0.09	1.39	0.71	0.01
PE CCH	0.08	0.09	1.39	0.71	0.01
PE RFP	0.08	0.09	1.39	0.71	0.01
PE CAN	0.08	0.09	1.39	0.71	0.01
PE JGN	0.08	0.09	1.39	0.71	0.01
PE ITA	0.08	0.09	1.39	0.71	0.01
PE GRM	0.08	0.09	1.39	0.71	0.01
EMED GRM	0.08	0.09	1.39	0.71	0.01
PE IND	0.08	0.09	1.39	0.71	0.01
UTE ARC	0.08	0.09	1.39	0.71	0.01
UTE CAN	0.08	0.09	1.39	0.71	0.01
PE PFZ	0.08	0.09	1.39	0.71	0.01
PE CLG	0.08	0.09	1.39	0.71	0.01
PE GMN	0.08	0.09	1.39	0.71	0.01
EMED GASCAR_S	0.08	0.09	1.39	0.71	0.01
PE IGR	0.08	0.09	1.39	0.71	0.01
EMED JCT	0.08	0.09	1.39	0.71	0.01
PE GUA	0.08	0.09	1.39	0.71	0.01
PE VLP	0.08	0.09	1.39	0.71	0.01
PE IAC	0.08	0.09	1.39	0.71	0.01
PE IBT	0.08	0.09	1.39	0.71	0.01
UFN TLG	0.08	0.09	1.39	0.71	0.01
PE ITP	0.08	0.09	1.39	0.71	0.01
PE ITR	0.08	0.09	1.39	0.71	0.01

**Energy Delivery Hydraulic Summary Report :**  
**0.000 hours**

**Energy Delivery Quality Summary Report : 0.000  
hours**

**Fuel Delivery Hydraulic Summary Report : 0.000  
hours**

Fuel Delivery Summary						
Fuel Delivery Name	Mode of Control	Pressure	Flow	Temperature	Specific Gravity	Heating Value
		kg/cm2g	kSm3/d	Deg C		MJ/m3
COM_CBA	MaximumFlow	77.11	99.923	42.26	0.6325	35.97
COM_MRD	MaximumFlow	82.55	84.574	32.44	0.6325	35.97
COMB_ANT	MaximumFlow	82.48	84.640	32.26	0.6325	35.97
COMB_CGR	MaximumFlow	82.75	70.643	32.14	0.6325	35.97
COMB_RRP	MaximumFlow	82.50	83.504	32.53	0.6325	35.97
COMB_TLG	MaximumFlow	82.35	90.193	31.95	0.6325	35.97
COMB_MIR	MaximumFlow	82.64	79.269	30.30	0.6325	35.97
COMB_PEN	MaximumFlow	85.77	60.224	30.38	0.6325	35.97
COMB_IAC	MaximumFlow	85.39	71.554	29.72	0.6325	35.97
COMB_SCA	MaximumFlow	82.94	76.244	27.90	0.6325	35.97
COMB_ARC	MaximumFlow	69.37	0.000	21.17	0.6325	35.97
COMB_PLN	MaximumFlow	89.17	35.700	30.02	0.6325	35.97
COMB_CBO	MaximumFlow	77.13	39.328	24.15	0.6325	35.97
COMB_SID	MaximumFlow	60.61	4.807	20.35	0.6325	35.97
COMB_BIG	MaximumFlow	56.08	11.076	21.07	0.6325	35.97

Accumulated Volume Summary			
Fuel Delivery Name	Current Flow Rate	Accumulated Volume	Timer Value
	kSm3/d	KPM3	hours
COM_CBA	99.9228	0.0000	24.000
COM_MRD	84.5742	0.0000	24.000
COMB_ANT	84.6402	0.0000	24.000
COMB_CGR	70.6433	0.0000	24.000
COMB_RRP	83.5044	0.0000	24.000

COMB_TLG	90.1932	0.0000	24.000
COMB_MIR	79.2693	0.0000	24.000
COMB_PEN	60.2243	0.0000	24.000
COMB_IAC	71.5535	0.0000	24.000
COMB_SCA	76.2440	0.0000	24.000
COMB_ARC	0.0000	0.0000	24.000
COMB_PLN	35.7003	0.0000	24.000
COMB_CBO	39.3283	0.0000	24.000
COMB_SID	4.8074	0.0000	24.000
COMB_BIG	11.0763	0.0000	24.000

**Fuel Delivery Quality Summary Report : 0.000  
hours**

Fuel Delivery Quality Summary			
Fuel Delivery Name	Specific Gravity	Heating Value	Wobbe Index
		MJ/m3	MJ/m3
COM_CBA	0.6325	35.9734	0.0000
COM_MRD	0.6325	35.9734	0.0000
COMB_ANT	0.6325	35.9734	0.0000
COMB_CGR	0.6325	35.9734	0.0000
COMB_RRP	0.6325	35.9734	0.0000
COMB_TLG	0.6325	35.9734	0.0000
COMB_MIR	0.6325	35.9734	0.0000
COMB_PEN	0.6325	35.9734	0.0000
COMB_IAC	0.6325	35.9734	0.0000
COMB_SCA	0.6325	35.9734	0.0000
COMB_ARC	0.6325	35.9734	0.0000
COMB_PLN	0.6325	35.9734	0.0000
COMB_CBO	0.6325	35.9734	0.0000
COMB_SID	0.6325	35.9734	0.0000
COMB_BIG	0.6325	35.9734	0.0000

Fuel Delivery Quality Summary						
Fuel Delivery Name	C1	C2	C3	IC4	NC4	IC5
	%	%	%	%	%	%
COM_CBA	89.20	5.90	1.81	0.29	0.40	0.12
COM_MRD	89.20	5.90	1.81	0.29	0.40	0.12
COMB_ANT	89.20	5.90	1.81	0.29	0.40	0.12

COMB_CGR	89.20	5.90	1.81	0.29	0.40	0.12
COMB_RRP	89.20	5.90	1.81	0.29	0.40	0.12
COMB_TLG	89.20	5.90	1.81	0.29	0.40	0.12
COMB_MIR	89.20	5.90	1.81	0.29	0.40	0.12
COMB_PEN	89.20	5.90	1.81	0.29	0.40	0.12
COMB_IAC	89.20	5.90	1.81	0.29	0.40	0.12
COMB_SCA	89.20	5.90	1.81	0.29	0.40	0.12
COMB_ARC	89.20	5.90	1.81	0.29	0.40	0.12
COMB_PLN	89.20	5.90	1.81	0.29	0.40	0.12
COMB_CBO	89.20	5.90	1.81	0.29	0.40	0.12
COMB_SID	89.20	5.90	1.81	0.29	0.40	0.12
COMB_BIG	89.20	5.90	1.81	0.29	0.40	0.12

Fuel Delivery Quality Summary					
Fuel Delivery Name	NC5	C6	CO2	N2	O2
	%	%	%	%	%
COM_CBA	0.08	0.09	1.39	0.71	0.01
COM_MRD	0.08	0.09	1.39	0.71	0.01
COMB_ANT	0.08	0.09	1.39	0.71	0.01
COMB_CGR	0.08	0.09	1.39	0.71	0.01
COMB_RRP	0.08	0.09	1.39	0.71	0.01
COMB_TLG	0.08	0.09	1.39	0.71	0.01
COMB_MIR	0.08	0.09	1.39	0.71	0.01
COMB_PEN	0.08	0.09	1.39	0.71	0.01
COMB_IAC	0.08	0.09	1.39	0.71	0.01
COMB_SCA	0.08	0.09	1.39	0.71	0.01
COMB_ARC	0.08	0.09	1.39	0.71	0.01
COMB_PLN	0.08	0.09	1.39	0.71	0.01
COMB_CBO	0.08	0.09	1.39	0.71	0.01
COMB_SID	0.08	0.09	1.39	0.71	0.01
COMB_BIG	0.08	0.09	1.39	0.71	0.01

**Leak Delivery Hydraulic Summary Report : 0.000  
hours**

**Leak Delivery Quality Summary Report : 0.000**

**hours**

**Station Hydraulic Summary Report : 0.000 hours**

**Station C5**

**Station C6**

**Station C7**

**Station C8**

**Station C9**

**Station C10**

**Station C11**

**Station ECOMP\_PEN**

**Station C13**

**Station C14**

**Station C15**

Station C-17

Station C18

Station Station0032

Station Station0033

Bank Summary								
Bank Name	Mode of Control	Pressure		Flow	Temperature		Specific Gravity	Heating Value
		kg/cm2g		kSm3/d	Deg C			MJ/m3
		Up	Down		Up	Down		
CBA	MaximumDownstreamPressure	77.11	100.00	25095.247	42.26	62.64	0.6325	35.97
MRD	MaximumDownstreamPressure	82.55	100.00	25010.673	32.44	47.25	0.6325	35.97
ANT	MaximumDownstreamPressure	82.48	100.00	24926.034	32.26	47.12	0.6325	35.97
CGR	MaximumDownstreamPressure	82.75	100.00	24855.391	32.14	48.48	0.6325	35.97
RRP	MaximumDownstreamPressure	82.50	100.00	24771.888	32.53	47.36	0.6325	35.97
TLG	MaximumDownstreamPressure	82.35	100.00	24681.697	31.95	47.18	0.6325	35.97
MIR	MaximumDownstreamPressure	82.64	100.00	23197.429	30.30	44.81	0.6325	35.97
PEN	MaximumDownstreamPressure	85.77	100.00	23137.205	30.38	43.52	0.6325	35.97
IAC	MaximumDownstreamPressure	85.39	100.00	23065.653	29.72	41.80	0.6325	35.97
SCA	MaximumDownstreamPressure	82.94	100.00	22989.410	27.90	42.05	0.6325	35.97
ARC	Bypass	69.37	69.37	4489.883	21.17	21.17	0.6325	35.97
PLN	MaximumDownstreamPressure	89.17	99.80	10930.210	30.02	39.20	0.6325	35.97
CBO	MaximumDownstreamPressure	77.13	99.80	9550.882	24.15	45.13	0.6325	35.97
SID_mod	MaximumDownstreamPressure	60.61	74.50	2841.500	20.35	36.46	0.6325	35.97
BIG	MaximumDownstreamPressure	56.08	75.00	3237.807	21.07	43.89	0.6325	35.97

Member Summary								
Member Name	Mode of Control	Pressure		Flow	Temperature		Specific Gravity	Heating Value
		kg/cm2g		kSm3/d	Deg C			MJ/m3
		Up	Down		Up	Down		
CBA-B	BankControl	77.11	100.00	12547.623	42.26	62.64	0.6325	35.97
CBA-A	BankControl	77.11	100.00	12547.623	42.26	62.64	0.6325	35.97
MRD-B	BankControl	82.55	100.00	12505.337	32.44	47.25	0.6325	35.97



MRD-A	BankControl	82.55	100.00	12505.337	32.44	47.25	0.6325	35.97
ANT-B	BankControl	82.48	100.00	12463.017	32.26	47.12	0.6325	35.97
ANT-A	BankControl	82.48	100.00	12463.017	32.26	47.12	0.6325	35.97
CGR-D	Closed	82.75	100.00	0.000	32.14	48.48	0.6325	35.97
CGR-C	BankControl	82.75	100.00	8285.130	32.14	48.48	0.6325	35.97
CGR-B	BankControl	82.75	100.00	8285.130	32.14	48.48	0.6325	35.97
CGR-A	BankControl	82.75	100.00	8285.130	32.14	48.48	0.6325	35.97
RRP-B	BankControl	82.50	100.00	12385.944	32.53	47.36	0.6325	35.97
RRP-A	BankControl	82.50	100.00	12385.944	32.53	47.36	0.6325	35.97
TLG-A	BankControl	82.35	100.00	14004.045	31.95	47.18	0.6325	35.97
TLG-B	BankControl	82.35	100.00	14004.045	31.95	47.18	0.6325	35.97
MIR-B	BankControl	82.64	100.00	11598.714	30.30	44.81	0.6325	35.97
MIR-A	BankControl	82.64	100.00	11598.714	30.30	44.81	0.6325	35.97
PEN-D	Closed	85.77	100.00	0.000	30.38	43.52	0.6325	35.97
PEN-C	BankControl	85.77	100.00	7712.402	30.38	43.52	0.6325	35.97
PEN-B	BankControl	85.77	100.00	7712.402	30.38	43.52	0.6325	35.97
PEN-A	BankControl	85.77	100.00	7712.402	30.38	43.52	0.6325	35.97
IAC-B	MinimumSpeed	85.39	100.00	11662.624	29.72	41.80	0.6325	35.97
IAC-A	MinimumSpeed	85.39	100.00	11662.624	29.72	41.80	0.6325	35.97
SCA-B	BankControl	82.94	100.00	11494.705	27.90	42.05	0.6325	35.97
SCA-A	BankControl	82.94	100.00	11494.705	27.90	42.05	0.6325	35.97
ARC_MCD	Closed	91.56	91.56	0.000	21.17	21.17	0.6325	35.97
ARC_MCC	Closed	91.56	91.56	0.000	21.17	21.17	0.6325	35.97
ARC_MCB	Closed	91.56	91.56	0.000	21.17	21.17	0.6325	35.97
ARC_MCA	Closed	91.56	91.56	0.000	21.17	21.17	0.6325	35.97
PLN-A	MinimumSpeed	89.17	99.80	15474.294	30.02	39.20	0.6325	35.97
PLN-B	Closed	89.17	99.80	0.000	30.02	39.20	0.6325	35.97
CBO-C	Closed	77.13	99.80	0.000	24.15	45.13	0.6325	35.97
CBO-B	BankControl	77.13	99.80	4775.441	24.15	45.13	0.6325	35.97
CBO-A	BankControl	77.13	99.80	4775.441	24.15	45.13	0.6325	35.97
SID_MCC	Closed	60.61	74.50	0.000	20.35	36.46	0.6325	35.97
SID_MCB	BankControl	60.61	74.50	1420.750	20.35	36.46	0.6325	35.97
SID_MCA	BankControl	60.61	74.50	1420.750	20.35	36.46	0.6325	35.97
SID_MCD	Closed	60.61	74.50	0.000	20.35	36.46	0.6325	35.97
BIG_MCB	BankControl	56.08	75.00	1079.269	21.07	43.89	0.6325	35.97
BIG_MCA	BankControl	56.08	75.00	1079.269	21.07	43.89	0.6325	35.97
BIG_MCC	BankControl	56.08	75.00	1079.269	21.07	43.89	0.6325	35.97

Accumulated Volume Summary			
Bank Name	Current Flow Rate	Accumulated Volume	Timer Value
	kSm3/d	KPM3	hours
CBA	25095.2470	0.0000	24.000
MRD	25010.6733	0.0000	24.000

ANT	24926.0338	0.0000	24.000
CGR	24855.3913	0.0000	24.000
RRP	24771.8883	0.0000	24.000
TLG	24681.6966	0.0000	24.000
MIR	23197.4287	0.0000	24.000
PEN	23137.2055	0.0000	24.000
IAC	23065.6529	0.0000	24.000
SCA	22989.4095	0.0000	24.000
ARC	4489.8829	0.0000	24.000
PLN	10930.2098	0.0000	24.000
CBO	9550.8824	0.0000	24.000
SID_mod	2841.5000	0.0000	24.000
BIG	3237.8074	0.0000	24.000

Accumulated Volume Summary			
Member Name	Current Flow Rate	Accumulated Volume	Timer Value
	kSm3/d	KPM3	hours
CBA-B	12547.6235	0.0000	24.000
CBA-A	12547.6235	0.0000	24.000
MRD-B	12505.3366	0.0000	24.000
MRD-A	12505.3366	0.0000	24.000
ANT-B	12463.0169	0.0000	24.000
ANT-A	12463.0169	0.0000	24.000
CGR-D	0.0000	0.0000	24.000
CGR-C	8285.1304	0.0000	24.000
CGR-B	8285.1304	0.0000	24.000
CGR-A	8285.1304	0.0000	24.000
RRP-B	12385.9441	0.0000	24.000
RRP-A	12385.9441	0.0000	24.000
TLG-A	14004.0455	0.0000	24.000
TLG-B	14004.0455	0.0000	24.000
MIR-B	11598.7143	0.0000	24.000
MIR-A	11598.7143	0.0000	24.000
PEN-D	0.0000	0.0000	24.000
PEN-C	7712.4018	0.0000	24.000
PEN-B	7712.4018	0.0000	24.000
PEN-A	7712.4018	0.0000	24.000
IAC-B	11662.6237	0.0000	24.000
IAC-A	11662.6237	0.0000	24.000
SCA-B	11494.7048	0.0000	24.000
SCA-A	11494.7048	0.0000	24.000
ARC_MCD	0.0000	0.0000	24.000
ARC_MCC	0.0000	0.0000	24.000

ARC_MCB	0.0000	0.0000	24.000
ARC_MCA	0.0000	0.0000	24.000
PLN-A	15474.2938	0.0000	24.000
PLN-B	0.0000	0.0000	24.000
CBO-C	0.0000	0.0000	24.000
CBO-B	4775.4412	0.0000	24.000
CBO-A	4775.4412	0.0000	24.000
SID_MCC	0.0000	0.0000	24.000
SID_MCB	1420.7500	0.0000	24.000
SID_MCA	1420.7500	0.0000	24.000
SID_MCD	0.0000	0.0000	24.000
BIG_MCB	1079.2691	0.0000	24.000
BIG_MCA	1079.2691	0.0000	24.000
BIG_MCC	1079.2691	0.0000	24.000

**Pressure/Flow Violation Reports : 0.000 hours**

Xreg Pressure/Flow Violation					
Xreg Name	Node Name	Pressure	Flow	Mode	Violation Status
		kg/cm2g	kSm3/d		
ALL XREGS FALL WITHIN PRESSURE BOUNDS					

Equipment Pressure/Flow Violation							
Equipment Name	Up Node Name	Down Node Name	Up Pressure	Down Pressure	Flow	Mode	Violation Status
			kg/cm2g	kg/cm2g	kSm3/d		
ALL EQUIPMENTS FALL WITHIN PRESSURE BOUNDS							

Bank Pressure/Flow Violation							
Bank Name	Up Node Name	Down Node Name	Up Pressure	Down Pressure	Flow	Mode	Violation Status
			kg/cm2g	kg/cm2g	kSm3/d		
ALL BANKS FALL WITHIN PRESSURE BOUNDS							

Pipe Pressure/Flow Violation							
	Up	Down	Distance				

Pipe Name	Node Name	Node Name	From Head	Pressure	Flow	Velocity	Violation Status
			km	kg/cm2g	kSm3/d	kSm3/d	
ALL INTERNAL KNOTS FALL WITHIN PRESSURE BOUNDS							

**Setpoint/Constraint Violation Reports : 0.000 hours**

Xreg Setpoint/Constraint Violation				
Xreg Name	Mode	Setpoint Value	Computed Value	Mode Lock Status
ALL XREGS COMPLY WITH MONITORED CONSTRAINTS				

Equipment Setpoint/Constraint Violation				
Equipment Name	Mode	Setpoint Value	Computed Value	Mode Lock Status
ALL EQUIPMENTS COMPLY WITH MONITORED CONSTRAINTS				

Bank Setpoint/Constraint Violation				
Bank Name	Mode	Setpoint Value	Computed Value	Mode Lock Status
ALL BANKS COMPLY WITH MONITORED CONSTRAINTS				

Device Locked Modes		
Type	Name	Mode
XREG	EMED GASCAR_E	MaximumPressure
XREG	TGS	MaximumFlow