City of Elkins

Sanitary Board

August 11, 2025
3:00 PM
Phil Gainer Community Center
142 Robert E Lee Ave. Ext.

AGENDA

1. **Call to order and roll call**
2. **Public comment**
3. **Minutes**
   a. Proposed minutes for the meeting of July 21, 2025
4. **Reports**
   a. Wastewater Superintendent/Chief Operator
   b. Wastewater Collection Supervisor
   c. Financial Statements as of July 31, 2025
5. **Unfinished business**
   a. Davis Avenue Bridge Utility Agreement
6. **New business**
   a. Approval of Sewer Invoices
   b. Sewer Reimbursement Request for 12 1/2 Walnut St.
   c. Review and Discussion of Long Term Control Plan (LTCP)
   d. Review and Discussion of Georgetown Road Area and Trickett Lane Project (2025S-2666)
   e. Review and Discussion of Griffth & Associates PLCC Agreement: Rule 42-Sewer Rate Analysis/Study and Preliminary Project Planning for Wastewater
7. **Announcements**
8. **Adjournment**

CITY OF ELKINS
AGENDA ITEM REPORT

Meeting Date:	August 11, 2025
Section:	Minutes
Category:	Action Item
Agenda Item Name:	Proposed minutes for the meeting of July 21, 2025
Recommended By:	Whitney L. Hymes - Wastewater Superintendent/Chief Operator
Summary:	Approval of minutes for the July 21, 2025, Sanitary Board Meeting.
Fiscal Impact:	N/A
Recommendation:	Consider for Approval
Attachments:	1. Sanitary Board - 2025_7_21 - Minutes

SANITARY BOARD
REGULAR MEETING
MINUTES

142 Robert E Lee Avenue
Phil Gainer Center
July 21, 2025
10:00 a.m.

Present were Committee Members: Jerry Marco (Chair), Randall Biller (Committee Member), & Richard Carr (Committee Member)

Also attending: Whitney Hymes (Wastewater Chief Operator), Gerry Roberts (City Attorney), Mark Hartley (Wastewater Collection Supervisor), and Jasmine Mallow (Wastewater Administrative Assistant) were also present.

Tracy Judy (City Treasurer) was absent.

PUBLIC COMMENT

Adam J. Skidmore and Ellen Yoakum-Skidmore, 12 ½ Walnut Street, Mr. & Mrs. Skidmore spoke out about issues with ongoing sewer damage situation with their residence. He asked the Sanitary Board to reconsider the full reimbursement request of $1,750 for the sidewalk estimate and the $4,500 for the bill of having corrections done to their driveway.

MINUTES

Randall Biller**, MOVED THE APPROVAL OF THE MINUTES OF JUNE 16, 2025, MEETING.** The motion carried.

REPORTS

Whitney Hymes, Wastewater Superintendent/Chief Operator, provided a report for the month of June 2025.

Mark Hartley, Wastewater Collection Supervisor, provided a report for the month of June 2025.

Tracy Judy, City Treasurer, provided electronic financial reports for the month of June 30, 2025.

NEW BUSINESS

Richard Carr, **MOVED APPROVAL OF SEWER INVOICES**. The motion carried.

Richard Carr, **MOVED THE APPROVAL OF THE DAVIS AVENUE BRIDGE UTILITY AGREEMENT.** Richard Carr withdrew his approval. No action taken – moved to next meeting.

Richard Carr, **MOVED THE APPROVAL OF CREATION OF ADDITIONAL JOB POSITIONS IN THE WASTEWATER DEPARTMENT AS PRESENTED.** The motion carried.

The meeting was adjourned at 10:28 a.m.

The foregoing minutes were approved at the meeting of _____, 2025 Sanitary Board meeting.

_____ _____

Name & Title Signature

CITY OF ELKINS-SANITARY BOARD

WASTEWATER SUPERINTENDENT/CHIEF OPERATOR REPORT

Date:	August 11, 2025
Time:	3:00PM
Report Presented By:	Whitney Hymes-Wastewater Superintendent/Chief Operator

RECURITMENT OF A WASTEWATER EMPLOYEE

- Wastewater Treatment Plant is actively trying to recruit and employ a dedicated employee to replace a voluntary departure within department.

FY 2026 BUDGET CONTROL REPORT

Revenues	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Revenues Over Expenses	Total
	$277,103.36												$60,000.00	$277,103.36

Expenses	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun		
	$217,103.36													$217,103.36

Bank Balances as of 7/31/2025

Cash Account $302,202.66

Depreciation Account $196,051.10

O&M Account $617,548.29

FINANCIAL STATEMENT (UNAUDITED)

AS OF: JULY 31ST, 2025

401-SEWER FUND

FINANCIAL SUMMARY

% OF YEAR COMPLETED: 08.33

	CURRENT BUDGET	CURRENT PERIOD	PRIOR YEAR PO ADJUST.	Y-T-D BALANCE	TOTAL ENCUMBERED	BUDGET BALANCE	% OF BUDGET
REVENUE SUMMARY							
TAXES	28,087	1,819.35	0.00	1,819.35	0.00	26,267.65	6.48
CHARGES FOR SERVICES	2,884,592	252,500.94	0.00	252,500.94	0.00	2,632,091.06	8.75
MISCELLANEOUS REVENUE	261,920	22,876.17	0.00	22,876.17	0.00	239,043.83	8.73
TOTAL REVENUE	3,174,599	277,196.46	0.00	277,196.46	0.00	2,897,402.54	8.73
EXPENDITURE SUMMARY							
CSO	48,790	2,451.96	0.00	2,451.96	0.00	46,338.04	5.03
CSO-OTHER	152,533	12,033.20	0.00	12,033.20	0.00	140,499.80	7.89
SEWER COLLECTION	1,021,448	76,317.00	0.00	76,317.00	0.00	945,131.00	7.47
SEWER TREATMENT	1,397,380	101,778.68	0.00	101,778.68	0.00	1,295,601.32	7.28
UTILITY BILLING	35,115	1,846.81	0.00	1,846.81	0.00	33,268.19	5.26
ADMIN & GENERAL	511,733	22,675.71	0.00	22,675.71	0.00	489,057.29	4.43
CAPITAL OUTLAY	0	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL EXPENDITURES	3,166,999	217,103.36	0.00	217,103.36	0.00	2,949,895.64	6.86
REVENUE OVER/(UNDER) EXPENDITURES	7,600	60,093.10	0.00	60,093.10	0.00	(52,493.10)	790.70

FINANCIAL STATEMENT (UNAUDITED)

AS OF: JULY 31ST, 2025

401-SEWER FUND

% OF YEAR COMPLETED: 08.33

REVENUES	CURRENT BUDGET	CURRENT PERIOD	PRIOR YEAR PO ADJUST.	Y-T-D BALANCE	TOTAL ENCUMBERED	BUDGET BALANCE	% OF BUDGET
TAXES							
401-000-302-0000 Penalty Income	28,087	1,819.35	0.00	1,819.35	0.00	26,267.65	6.48
TOTAL TAXES	28,087	1,819.35	0.00	1,819.35	0.00	26,267.65	6.48
CHARGES FOR SERVICES							
401-000-361-0000 Metered Sales to Res Cu	1,350,000	119,868.12	0.00	119,868.12	0.00	1,230,131.88	8.88
401-000-361-0001 Metered Sales to Comm C	1,056,592	90,686.24	0.00	90,686.24	0.00	965,905.76	8.58
401-000-361-0002 Unmetered Sales to Res	18,000	1,306.02	0.00	1,306.02	0.00	16,693.98	7.26
401-000-361-0003 Taps & Connections	10,000	0.00	0.00	0.00	0.00	10,000.00	0.00
401-000-361-0004 Services to Other Syste	450,000	40,640.56	0.00	40,640.56	0.00	409,359.44	9.03
TOTAL CHARGES FOR SERVICES	2,884,592	252,500.94	0.00	252,500.94	0.00	2,632,091.06	8.75
MISCELLANEOUS REVENUE							
401-000-380-0000 Interest Earned	7,000	1,130.01	0.00	1,130.01	0.00	5,869.99	16.14
401-000-381-0000 Reimbursements	67,633	332.65	0.00	332.65	0.00	67,300.35	0.49
401-000-382-0000 Refunds & Rebates	5,000	0.00	0.00	0.00	0.00	5,000.00	0.00
401-000-383-0000 Sale Of Fixed Asset	0	1,940.00	0.00	1,940.00	0.00	(1,940.00)	0.00
401-000-386-0000 Insurance Claims	0	0.00	0.00	0.00	0.00	0.00	0.00
401-000-399-0000 Miscellaneous	12,287	269.00	0.00	269.00	0.00	12,018.00	2.19
401-000-399-0001 Lab Analysis Services	170,000	19,204.51	0.00	19,204.51	0.00	150,795.49	11.30
TOTAL MISCELLANEOUS REVENUE	261,920	22,876.17	0.00	22,876.17	0.00	239,043.83	8.73
TOTAL REVENUE	3,174,599	277,196.46	0.00	277,196.46	0.00	2,897,402.54	8.73

FINANCIAL STATEMENT (UNAUDITED)

AS OF: JULY 31ST, 2025

401-SEWER FUND

CSO

% OF YEAR COMPLETED: 08.33

EXPENDITURES	CURRENT BUDGET	CURRENT PERIOD	PRIOR YEAR PO ADJUST.	Y-T-D BALANCE	TOTAL ENCUMBERED	BUDGET BALANCE	% OF BUDGET
PERSONAL SERVICES							
401-509-103-0000 Salaries & Wages	21,800	1,637.60	0.00	1,637.60	0.00	20,162.40	7.51
401-509-104-0000 FICA Tax	1,680	120.98	0.00	120.98	0.00	1,559.02	7.20
401-509-105-0000 Group Health Insurance	5,530	545.99	0.00	545.99	0.00	4,984.01	9.87
401-509-106-0000 Retirement	2,110	147.39	0.00	147.39	0.00	1,962.61	6.99
401-509-108-0000 Overtime/Extra Help	1,170	0.00	0.00	0.00	0.00	1,170.00	0.00
TOTAL PERSONAL SERVICES	32,290	2,451.96	0.00	2,451.96	0.00	29,838.04	7.59
CONTRACTUAL SERVICES							
401-509-216-0000 Maint of CSO Equipment	10,000	0.00	0.00	0.00	0.00	10,000.00	0.00
401-509-217-0000 Maint Repair Autos & Tr	500	0.00	0.00	0.00	0.00	500.00	0.00
TOTAL CONTRACTUAL SERVICES	10,500	0.00	0.00	0.00	0.00	10,500.00	0.00
COMMODITIES							
401-509-341-0000 Supplies & Materials	6,000	0.00	0.00	0.00	0.00	6,000.00	0.00
401-509-343-0000 Automobile Supplies	0	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL COMMODITIES	6,000	0.00	0.00	0.00	0.00	6,000.00	0.00
TOTAL CSO	48,790	2,451.96	0.00	2,451.96	0.00	46,338.04	5.03

FINANCIAL STATEMENT (UNAUDITED)

AS OF: JULY 31ST, 2025

401-SEWER FUND

CSO-OTHER

% OF YEAR COMPLETED: 08.33

EXPENDITURES	CURRENT BUDGET	CURRENT PERIOD	PRIOR YEAR PO ADJUST.	Y-T-D BALANCE	TOTAL ENCUMBERED	BUDGET BALANCE	% OF BUDGET
PERSONAL SERVICES							
401-510-103-0000 Salaries & Wages	108,100	8,441.65	0.00	8,441.65	0.00	99,658.35	7.81
401-510-104-0000 FICA Tax	9,033	655.70	0.00	655.70	0.00	8,377.30	7.26
401-510-105-0000 Group Health Insurance	19,100	1,902.43	0.00	1,902.43	0.00	17,197.57	9.96
401-510-106-0000 Retirement	9,800	716.42	0.00	716.42	0.00	9,083.58	7.31
401-510-108-0000 Overtime/Extra Help	6,500	317.00	0.00	317.00	0.00	6,183.00	4.88
TOTAL PERSONAL SERVICES	152,533	12,033.20	0.00	12,033.20	0.00	140,499.80	7.89
TOTAL CSO-OTHER	152,533	12,033.20	0.00	12,033.20	0.00	140,499.80	7.89

FINANCIAL STATEMENT (UNAUDITED)

AS OF: JULY 31ST, 2025

401-SEWER FUND

SEWER COLLECTION % OF YEAR COMPLETED: 08.33

EXPENDITURES	CURRENT BUDGET	CURRENT PERIOD	PRIOR YEAR PO ADJUST.	Y-T-D BALANCE	TOTAL ENCUMBERED	BUDGET BALANCE	% OF BUDGET
PERSONAL SERVICES							
401-511-103-0000 Salaries & Wages	111,100	8,441.74	0.00	8,441.74	0.00	102,658.26	7.60
401-511-104-0000 FICA Tax	9,033	655.64	0.00	655.64	0.00	8,377.36	7.26
401-511-105-0000 Group Health Insurance	32,925	18,064.61	0.00	18,064.61	0.00	14,860.39	54.87
401-511-106-0000 Retirement	10,300	716.40	0.00	716.40	0.00	9,583.60	6.96
401-511-108-0000 Overtime/Extra Help	10,000	317.05	0.00	317.05	0.00	9,682.95	3.17
TOTAL PERSONAL SERVICES	173,358	28,195.44	0.00	28,195.44	0.00	145,162.56	16.26
CONTRACTUAL SERVICES							
401-511-211-0000 Telephone	3,000	293.91	0.00	293.91	0.00	2,706.09	9.80
401-511-213-0000 Utilities/Purchased Pow	112,000	299.87	0.00	299.87	0.00	111,700.13	0.27
401-511-214-0000 Travel	1,000	0.00	0.00	0.00	0.00	1,000.00	0.00
401-511-215-0002 Stormwater Supplies	1,000	0.00	0.00	0.00	0.00	1,000.00	0.00
401-511-216-0000 Maint Pumping Equipment	15,000	0.00	0.00	0.00	0.00	15,000.00	0.00
401-511-216-0001 Maint Structures/Improv	25,000	0.00	0.00	0.00	0.00	25,000.00	0.00
401-511-217-0000 Maint Repair Autos & T	20,000	165.95	0.00	165.95	0.00	19,834.05	0.83
401-511-221-0000 Training & Education	1,500	0.00	0.00	0.00	0.00	1,500.00	0.00
401-511-222-0000 Dues & Subscriptions	2,500	0.00	0.00	0.00	0.00	2,500.00	0.00
401-511-230-0000 Contracted Services	10,000	3,500.00	0.00	3,500.00	0.00	6,500.00	35.00
401-511-240-0000 Refunds & Reimbursement	1,000	0.00	0.00	0.00	0.00	1,000.00	0.00
TOTAL CONTRACTUAL SERVICES	192,000	4,259.73	0.00	4,259.73	0.00	187,740.27	2.22
COMMODITIES							
401-511-341-0000 Supplies & Materials	50,000	0.00	0.00	0.00	0.00	50,000.00	0.00
401-511-343-0000 Automobile Supplies	20,000	0.00	0.00	0.00	0.00	20,000.00	0.00
401-511-345-0000 Uniforms	5,100	0.00	0.00	0.00	0.00	5,100.00	0.00
401-511-399-0000 Miscellaneous	10,000	0.00	0.00	0.00	0.00	10,000.00	0.00
TOTAL COMMODITIES	85,100	0.00	0.00	0.00	0.00	85,100.00	0.00
CAPITAL OUTLAY							
401-511-457-0000 Wastewater Garage	0	1,425.22	0.00	1,425.22	0.00	(1,425.22)	0.00
401-511-458-0000 Bond Payable S-1-09-A-R	33,965	2,830.41	0.00	2,830.41	0.00	31,134.59	8.33
401-511-458-0001 Bond Payable S-1-15-A-R	87,233	7,269.39	0.00	7,269.39	0.00	79,963.61	8.33
401-511-458-0003 Bond Payable S-1-20-A-R	321,412	26,784.32	0.00	26,784.32	0.00	294,627.68	8.33
401-511-458-0004 Bond Payable S-2-20-A-R	31,442	2,620.15	0.00	2,620.15	0.00	28,821.85	8.33
401-511-459-0000 2018 Van & Sewera Camer	27,360	2,350.56	0.00	2,350.56	0.00	25,009.44	8.59
401-511-459-0001 2021 Ford F-150	6,758	563.16	0.00	563.16	0.00	6,194.84	8.33
401-511-459-0002 Capital Outlay	0	0.00	0.00	0.00	0.00	0.00	0.00
401-511-459-0003 900 ECO Cleaner	42,600	0.00	0.00	0.00	0.00	42,600.00	0.00
401-511-459-0004 Wastewater Garage	18,720	0.00	0.00	0.00	0.00	18,720.00	0.00
TOTAL CAPITAL OUTLAY	569,490	43,843.21	0.00	43,843.21	0.00	525,646.79	7.70
OTHER EXPENDITURES							
401-511-670-0000 Interest & Penalties	1,500	18.62	0.00	18.62	0.00	1,481.38	1.24
TOTAL OTHER EXPENDITURES	1,500	18.62	0.00	18.62	0.00	1,481.38	1.24
TOTAL SEWER COLLECTION	1,021,448	76,317.00	0.00	76,317.00	0.00	945,131.00	7.47

FINANCIAL STATEMENT (UNAUDITED)

AS OF: JULY 31ST, 2025

401-SEWER FUND

SEWER TREATMENT

% OF YEAR COMPLETED: 08.33

EXPENDITURES	CURRENT BUDGET	CURRENT PERIOD	PRIOR YEAR PO ADJUST.	Y-T-D BALANCE	TOTAL ENCUMBERED	BUDGET BALANCE	% OF BUDGET
PERSONAL SERVICES							
401-512-103-0000 Salaries & Wages	231,700	23,662.36	0.00	23,662.36	0.00	208,037.64	10.21
401-512-104-0000 FICA Tax	15,300	1,865.48	0.00	1,865.48	0.00	13,434.52	12.19
401-512-105-0000 Group Health Insurance	46,800	19,010.79	0.00	19,010.79	0.00	27,789.21	40.62
401-512-106-0000 Retirement	19,700	2,123.54	0.00	2,123.54	0.00	17,576.46	10.78
401-512-108-0000 Overtime/Extra Help	15,000	1,102.20	0.00	1,102.20	0.00	13,897.80	7.35
TOTAL PERSONAL SERVICES	328,500	47,764.37	0.00	47,764.37	0.00	280,735.63	14.54
CONTRACTUAL SERVICES							
401-512-211-0000 Telephone	2,660	0.00	0.00	0.00	0.00	2,660.00	0.00
401-512-213-0000 Utilities/Purchased Pow	180,000	0.00	0.00	0.00	0.00	180,000.00	0.00
401-512-214-0000 Travel	2,500	0.00	0.00	0.00	0.00	2,500.00	0.00
401-512-215-0000 Maint of Bldgs & Ground	3,551	0.00	0.00	0.00	0.00	3,551.00	0.00
401-512-216-0000 Maint Treat/Disp System	65,000	115.76	0.00	115.76	0.00	64,884.24	0.18
401-512-216-0001 Maint Structures/Improv	20,000	0.00	0.00	0.00	0.00	20,000.00	0.00
401-512-217-0000 Maint Repair Autos & Tr	10,000	0.00	0.00	0.00	0.00	10,000.00	0.00
401-512-218-0000 Postage	100	0.00	0.00	0.00	0.00	100.00	0.00
401-512-220-0000 Advertising	700	0.00	0.00	0.00	0.00	700.00	0.00
401-512-221-0000 Training & Education	2,000	42.50	0.00	42.50	0.00	1,957.50	2.13
401-512-222-0000 Dues & Subscriptions	2,000	0.00	0.00	0.00	0.00	2,000.00	0.00
401-512-230-0000 Contracted Services	95,000	5,907.00	0.00	5,907.00	0.00	89,093.00	6.22
TOTAL CONTRACTUAL SERVICES	383,511	6,065.26	0.00	6,065.26	0.00	377,445.74	1.58
COMMODITIES							
401-512-341-0000 Supplies & Materials	27,800	456.82	0.00	456.82	0.00	27,343.18	1.64
401-512-341-0001 Supplies & Matls Chemic	30,000	0.00	0.00	0.00	0.00	30,000.00	0.00
401-512-341-0002 Purification Supplies	5,000	0.00	0.00	0.00	0.00	5,000.00	0.00
401-512-343-0000 Automobile Supplies	12,000	0.00	0.00	0.00	0.00	12,000.00	0.00
401-512-345-0000 Uniforms	5,000	0.00	0.00	0.00	0.00	5,000.00	0.00
401-512-399-0000 Miscellaneous	600	0.00	0.00	0.00	0.00	600.00	0.00
TOTAL COMMODITIES	80,400	456.82	0.00	456.82	0.00	79,943.18	0.57
CAPITAL OUTLAY							
401-512-459-0000 Bond Payable S-1-06-A-R	563,268	46,939.02	0.00	46,939.02	0.00	516,328.98	8.33
401-512-459-0001 Bond Payable S-1-86-B-R	12,962	0.00	0.00	0.00	0.00	12,962.00	0.00
401-512-459-0002 Ford F-350	6,639	553.21	0.00	553.21	0.00	6,085.79	8.33
401-512-459-0003 Sewer Areation Equipmen	0	0.00	0.00	0.00	0.00	0.00	0.00
401-512-459-0004 Ford F-150	0	0.00	0.00	0.00	0.00	0.00	0.00
401-512-459-0005 Capital Outlay	0	0.00	0.00	0.00	0.00	0.00	0.00
401-512-459-0006 WWTP Dumping Station	5,100	0.00	0.00	0.00	0.00	5,100.00	0.00
401-512-459-0007 Skid Steer	0	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL CAPITAL OUTLAY	587,969	47,492.23	0.00	47,492.23	0.00	540,476.77	8.08
OTHER EXPENDITURES							
401-512-670-0000 Interest & Penalties	17,000	0.00	0.00	0.00	0.00	17,000.00	0.00
TOTAL OTHER EXPENDITURES	17,000	0.00	0.00	0.00	0.00	17,000.00	0.00
TOTAL SEWER TREATMENT	1,397,380	101,778.68	0.00	101,778.68	0.00	1,295,601.32	7.28

FINANCIAL STATEMENT (UNAUDITED)

AS OF: JULY 31ST, 2025

401-SEWER FUND

UTILITY BILLING

% OF YEAR COMPLETED: 08.33

EXPENDITURES	CURRENT BUDGET	CURRENT PERIOD	PRIOR YEAR PO ADJUST.	Y-T-D BALANCE	TOTAL ENCUMBERED	BUDGET BALANCE	% OF BUDGET
PERSONAL SERVICES							
401-513-103-0000 Salaries & Wages	22,190	1,231.20	0.00	1,231.20	0.00	20,958.80	5.55
401-513-104-0000 FICA Tax	1,375	92.22	0.00	92.22	0.00	1,282.78	6.71
401-513-105-0000 Group Health Insurance	5,750	404.75	0.00	404.75	0.00	5,345.25	7.04
401-513-106-0000 Retirement	2,000	111.46	0.00	111.46	0.00	1,888.54	5.57
401-513-108-0000 Overtime/ Extra Help	600	7.18	0.00	7.18	0.00	592.82	1.20
TOTAL PERSONAL SERVICES	31,915	1,846.81	0.00	1,846.81	0.00	30,068.19	5.79
CONTRACTUAL SERVICES							
401-513-214-0000 Travel	200	0.00	0.00	0.00	0.00	200.00	0.00
401-513-221-0000 Training & Education	0	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL CONTRACTUAL SERVICES	200	0.00	0.00	0.00	0.00	200.00	0.00
COMMODITIES							
401-513-341-0000 Supplies & Materials	3,000	0.00	0.00	0.00	0.00	3,000.00	0.00
TOTAL COMMODITIES	3,000	0.00	0.00	0.00	0.00	3,000.00	0.00
TOTAL UTILITY BILLING	35,115	1,846.81	0.00	1,846.81	0.00	33,268.19	5.26

FINANCIAL STATEMENT (UNAUDITED)

AS OF: JULY 31ST, 2025

401-SEWER FUND

ADMIN & GENERAL

% OF YEAR COMPLETED: 08.33

EXPENDITURES	CURRENT BUDGET	CURRENT PERIOD	PRIOR YEAR PO ADJUST.	Y-T-D BALANCE	TOTAL ENCUMBERED	BUDGET BALANCE	% OF BUDGET
PERSONAL SERVICES							
401-514-103-0000 Salaries & Wages	70,550	325.00	0.00	325.00	0.00	70,225.00	0.46
401-514-104-0000 FICA Tax	4,325	24.86	0.00	24.86	0.00	4,300.14	0.57
401-514-105-0000 Group Health Insurance	100	634.90	0.00	634.90	0.00	(534.90)	634.90
401-514-106-0000 Retirement	6,200	9.00	0.00	9.00	0.00	6,191.00	0.15
401-514-108-0000 Overtime/Extra Help	0	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL PERSONAL SERVICES	81,175	993.76	0.00	993.76	0.00	80,181.24	1.22
CONTRACTUAL SERVICES							
401-514-218-0000 Postage	9,500	758.02	0.00	758.02	0.00	8,741.98	7.98
401-514-220-0000 Advertising	0	0.00	0.00	0.00	0.00	0.00	0.00
401-514-223-0000 Professional Services	25,000	0.00	0.00	0.00	0.00	25,000.00	0.00
401-514-226-0000 Insurance & Bonds	10,000	1,298.60	0.00	1,298.60	0.00	8,701.40	12.99
401-514-226-0001 Insurances & Bonds/GL	38,000	14,974.16	0.00	14,974.16	0.00	23,025.84	39.41
401-514-230-0000 Contracted Services	15,000	152.52	0.00	152.52	0.00	14,847.48	1.02
401-514-230-0001 Cont Serv/Consent Decre	10,000	0.00	0.00	0.00	0.00	10,000.00	0.00
401-514-232-0000 Bank Charges	50	0.00	0.00	0.00	0.00	50.00	0.00
TOTAL CONTRACTUAL SERVICES	107,550	17,183.30	0.00	17,183.30	0.00	90,366.70	15.98
COMMODITIES							
401-514-341-0000 Supplies & Materials	1,000	0.00	0.00	0.00	0.00	1,000.00	0.00
401-514-348-0000 Charges by Other Funds	49,034	4,181.50	0.00	4,181.50	0.00	44,852.50	8.53
401-514-353-0000 Computer Software	10,000	0.00	0.00	0.00	0.00	10,000.00	0.00
401-514-399-0000 Miscellaneous Expenses	1,000	117.15	0.00	117.15	0.00	882.85	11.72
TOTAL COMMODITIES	61,034	4,298.65	0.00	4,298.65	0.00	56,735.35	7.04
CAPITAL OUTLAY							
401-514-465-0000 Depreciation Expense	0	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL CAPITAL OUTLAY	0	0.00	0.00	0.00	0.00	0.00	0.00
OTHER EXPENDITURES							
401-514-568-0000 Transfers	0	0.00	0.00	0.00	0.00	0.00	0.00
401-514-670-0000 Interest & Penalties	500	0.00	0.00	0.00	0.00	500.00	0.00
401-514-676-0000 Regulatory Commission	12,000	200.00	0.00	200.00	0.00	11,800.00	1.67
401-514-677-0000 R & R Requirement	78,765	0.00	0.00	0.00	0.00	78,765.00	0.00
401-514-677-0001 SB234 Requirement	170,709	0.00	0.00	0.00	0.00	170,709.00	0.00
TOTAL OTHER EXPENDITURES	261,974	200.00	0.00	200.00	0.00	261,774.00	0.08
TOTAL ADMIN & GENERAL	511,733	22,675.71	0.00	22,675.71	0.00	489,057.29	4.43

FINANCIAL STATEMENT (UNAUDITED)

AS OF: JULY 31ST, 2025

401-SEWER FUND

CAPITAL OUTLAY

% OF YEAR COMPLETED: 08.33

EXPENDITURES	CURRENT BUDGET	CURRENT PERIOD	PRIOR YEAR PO ADJUST.	Y-T-D BALANCE	TOTAL ENCUMBERED	BUDGET BALANCE	% OF BUDGET
CONTRACTUAL SERVICES							
401-515-216-0000 Depreciation Acc Mtn Tr	0	0.00	0.00	0.00	0.00	0.00	0.00
401-515-216-0001 Depreciation Acct Mnt/	0	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL CONTRACTUAL SERVICES	0	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL CAPITAL OUTLAY	0	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL EXPENDITURES	3,166,999	217,103.36	0.00	217,103.36	0.00	2,949,895.64	6.86
REVENUE OVER/(UNDER) EXPENDITURES	7,600	60,093.10	0.00	60,093.10	0.00	(52,493.10)	790.70

Agreement Executed Date	
Utility Company	City of Elkins
Project Name	DAVIS AVENUE BRIDGE
County	Randolph
State Project No.	S342-257-0.03 00
Federal Project No.	STBG-2023(116)DBC

THIS **AGREEMENT**, by and between the above, hereinafter referred to as "**ENTITY**", and the WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS, hereinafter referred to as "**DEPARTMENT**."

W I T N E S S E T H:

That ENTITY and DEPARTMENT hereby mutually covenant and agree as follows:

That ENTITY does not have the personnel, forces, or equipment necessary to perform the relocation design and/or construction of its facilities, which are in conflict with the above-referenced proposed project.

That DEPARTMENT will have its designer perform the relocation design of ENTITY's facilities. The Department will also have a contractor for the Department perform all work necessary to relocate and/or adjust ENTITY's facilities within the scope of the subject project at Department's expense, as a cost of construction.

ADDITIONALLY,

(1) ENTITY will be given the opportunity to review and approve the proposed relocation prior to being constructed.

(2) ENTITY agrees that it shall be responsible for any and all suits, claims, liabilities, losses, liens and demands, fines, costs, civil penalties, causes of action or any other obligation arising out of or in any manner connected with the work performed by ENTITY, its agents, employees, consultants, or contractors, under this Agreement, during or any time after such work is being or has been performed, or for failure to maintain its facilities after the work performed under this Agreement, including (without limitation) liability involving bodily injury, death, property damage or violation of any Federal, State or local law or regulation, except for any liability or damages due to the willful or intentional unlawful acts or negligence of the DEPARTMENT or its employees.

(3) ENTITY agrees to defend, indemnify and hold harmless the DEPARTMENT, its officers, agents and employees from and against any and all claims, damages, liability, losses and expenses, including but not limited to attorney's fees, brought because of any injuries or damages received or sustained by any person, persons, or property on account, arising out of or resulting from the ENTITY'S removal, relocation, inspection or alteration of ENTITY'S facilities or the ENTITY'S subsequent failure to maintain its facilities, whether caused either in whole or in part by the negligent acts or omissions of the ENTITY, its Contractor, or Subcontractor or anyone directly or

indirectly employed by the ENTITY, its Contractor, or Subcontractor or anyone whose acts the ENTITY may be liable, except for any liability or damages due to the willful or intentional unlawful acts or the sole negligence of the DEPARTMENT or its employees.

(4) This Agreement shall be governed by and interpreted in accordance with the substantive laws of the State of West Virginia. Any civil action pursuant to this contract must be commenced and heard in the State of West Virginia.

IN WITNESS WHEREOF, ENTITY and DEPARTMENT have caused their respective names to be signed by their duly authorized officers. The parties agree and consent to the use of electronic signatures solely for the purposes of executing the Agreement, Contract, or any related transactional document. Such electronic signature in all respects has the same full and binding effect as a handwritten signature.

ENTITY:

By _____

Its _____

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION,
DIVISION OF HIGHWAYS:

By _____
Stephen T. Rumbaugh, P.E.
Secretary of Transportation/Commissioner of Highways

APPROVED AS TO FORM ON

_____
ATTORNEY LEGAL DIVISION
WEST VIRGINIA DEPARTMENT
OF TRANSPORTATION,
DIVISION OF HIGHWAYS

_____

NUMBER:_____

CITY OF ELKINS
AGENDA ITEM REPORT

Meeting Date:	August 11, 2025
Section:	New business
Category:	Action Item
Agenda Item Name:	Approval of Sewer Invoices
Recommended By:	Whitney L Hymes - Wastewater Superintendent/Chief Operator
Summary:	Crim Law Invoice #504 Total = $550.00
Fiscal Impact:	Total= $550.00
Recommendation:	Consider for Approval
Attachments:	1. CrimLawInvoice504

City of Elkins

June 2025

Sanitary Board Matters

Crim Law Office, PLLC
842 South Chestnut Street
Post Office Drawer 1920
Clarksburg, West Virginia 26302-1920
Phone: (304)918-1001
Fax: (304)918-1005
www.wvlawyers.com

City of Elkins - Sanitary Board
401 Davis Street
Elkins, WV 26241

Invoice

Invoice Number	504
Invoice Date	07/29/2025
Payment Due On	08/12/2025
Amount Due	**$550.00**

City of Elkins - Sanitary Board - Municipality

Fees

Date	Description	Staff	Rate	Hours	Total
06/11/2025	Review of information from J. Mallow	GSR	$100.00	0.20	$20.00
06/11/2025	Email from Mayor Marco	GSR	$100.00	0.10	$10.00
06/16/2025	Review of meeting packet and attend Board meeting	GSR	$100.00	1.10	$110.00
06/16/2025	Email concerning agenda	GSR	$100.00	0.10	$10.00
06/16/2025	Review of timeline on 12 1/2 Walnut Street	GSR	$100.00	0.20	$20.00
06/16/2025	Email from W. Hymes	GSR	$100.00	0.10	$10.00
06/17/2025	Review of release and email from W. Hymes	GSR	$100.00	0.20	$20.00
06/17/2025	Review of extensive review of stormwater by W. Hymes	GSR	$100.00	0.50	$50.00
06/17/2025	Email to W. Hymes	GSR	$100.00	0.10	$10.00
06/17/2025	Email from W. Hymes	GSR	$100.00	0.10	$10.00
06/24/2025	Email from W. Hymes	GSR	$100.00	0.10	$10.00
06/24/2025	Conference with W. Hymes on various topics	GSR	$100.00	0.30	$30.00
06/24/2025	Review of email about agreement with DOH	GSR	$100.00	0.20	$20.00
06/24/2025	Email to M. Griffith	GSR	$100.00	0.10	$10.00
06/24/2025	Email from W. Hymes about release	GSR	$100.00	0.10	$10.00

06/24/2025	Email from W. Hymes about meeting	GSR	$100.00	0.10	$10.00
06/26/2025	Emails concerning meeting	GSR	$100.00	0.40	$40.00
06/27/2025	Conference with W. Hymes, T. Judy and M. Griffith	GSR	$100.00	1.40	$140.00
06/30/2025	Email from W. Hymes	GSR	$100.00	0.10	$10.00
					$550.00

Subtotal	**$550.00**
Total	**$550.00**
Total Balance Due	**$550.00**

Whitney L. Hymes

Approved/Reviewed By Whitney Hymes (WWTP Superintendent/Chief Operator) on 8/5/2025

CITY OF ELKINS
AGENDA ITEM REPORT

Meeting Date:	August 11, 2025
Section:	New business
Category:	Action Item
Agenda Item Name:	Sewer Reimbursement Request for 12 1/2 Walnut St.
Recommended By:	Whitney L Hymes - Wastewater Superintendent/Chief Operator
Summary:	Adam J. Skidmore and Ellen Yoakum-Skidmore, 12 ½ Walnut Street, Mr. & Mrs. Skidmore spoke out in public comment about issues with ongoing sewer damage situation within their residence at the July 21, 2025 Sanitary Board Meeting. They asked the Sanitary Board to reconsider the full reimbursement request of $1,750 for the sidewalk estimate and the $4,500 for the bill of having corrections done to their driveway.
Fiscal Impact:	$6,250
Recommendation:	Consider for Approval
Attachments:	None

CITY OF ELKINS
AGENDA ITEM REPORT

Meeting Date:	August 11, 2025
Section:	New business
Category:	Action Item
Agenda Item Name:	Review and Discussion of Long Term Control Plan (LTCP)
Recommended By:	Whitney L Hymes - Wastewater Superintendent/Chief Operator
Summary:	Discussion of proposed steps to having the Long-Term Control Plan (LTCP) re-reviewed and re-drafted for resubmittal to WVDEP and EPA.
Fiscal Impact:	N/A
Recommendation:	Discussion and Planning
Attachments:	1. Elkins Revised LTCP 2-8-2024

Long-Term Control Plan Update

City of Elkins Sanitary Board

Randolph County, West Virginia

DRAFT

February 2024

City of Elkins Sanitary Board

Long-Term Control Plan Update

February 2024

Prepared by:

Burgess & Niple, Inc.
4424 Emerson Avenue
Parkersburg, WV 26104

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CHAPTER 1
SUMMARY

Separation of combined sewers is the goal of the City of Elkins (City), creating separate sanitary sewer and storm drainage systems. However, if complete separation becomes impractical, improvements will be made to the combined sewer overflow (CSO) discharges allowing the City to meet the requirements of the Total Maximum Daily Loading (TMDL) associated with the receiving streams.

Phasing for the implementation schedule follows:

Phase 3 – The City will complete the following items associated with Phase 3:

1. Design and construct the Steward Avenue Sewer Separation and Relocation of the South Interceptor. Complete design of Phase 3 by no later than January 31, 2025.
2. Complete construction of the Phase 3 project by no later than May 31, 2026.
3. Submit post construction monitoring evaluation following completion of the construction of Phase 3 improvement by no later than February 28, 2027.

Phase 4 – The City will complete the following items associated with Phase 4:

1. Design and construct the Central Street Sewer Separation project. Complete design of Phase 4 by no later than August 31, 2028.
2. Complete construction of the Phase 4 project by no later than December 31, 2029.
3. Submit post construction monitoring evaluation following completion of the construction of Phase 4 improvement by no later than December 31, 2030.

Phase 5 – The City will complete the following items associated with Phase 5:

1. Design and construct the Boundary Avenue/Buffalo Street Sewer Separation and the second phase of WWTP improvements. Complete design of Phase 5 by no later than June 30, 2032.

2. Complete construction of the Phase 5 project by no later than December 31, 2033.

3. Submit post construction monitoring evaluation following completion of the construction of Phase 5 improvement by no later than June 30, 2035.

Phase 6 – At the completion of Phase 5, the City will review information from the post construction monitoring reports prepared during the first three phases of the Implementation Schedule. Should the need arise to make further improvements to the collection system associated with sewer separation, another phase will be conducted that will either remove the outfalls or will provide sufficient disinfection at the outfalls to meet the water quality standard for fecal coliform. Based upon this information, the estimated timeframe for tasks associated with this phase of the Implementation Schedule follows:

1. Complete design of Phase 6 by no later than December 31, 2036.

2. Complete construction of the Phase 6 project by no later than June 30, 2038.

3. Submit post construction monitoring evaluation following completion of the construction of Phase 6 improvement by no later than December 31, 2039.

CHAPTER 2
INTRODUCTION

The City of Elkins (City) is a combined sewer system (CSS) community of approximately 7,000 people located in the Potomac Highlands region of West Virginia at the crossroads of US Routes 33 and 219. Elkins is situated on a bend in the Tygart Valley River in Randolph County. Management and operation of the City wastewater treatment plant (WWTP) is performed by the City of Elkins Sanitary Board (Board) under National Pollutant Discharge Elimination System (NPDES) Permit WV0020028 (see most recent copy in Appendix A) and has a permitted effluent flow of 4.99 million gallons per day (mgd).

Any issues associated with the Long-Term Control Plan (LTCP) can be addressed by Ms. Whitney Hymes, Chief Wastewater Operator, at:

City of Elkins Sanitary Board
401 Davis Avenue
Elkins, WV 26241
(304) 636-1122
(304) 636-1177 (fax)
whymes@cityofelkinswv.com

In 1994, the United States Environmental Protection Agency (EPA) issued a national policy statement entitled "Combined Sewer Overflow (CSO) Control Policy." The purpose of this policy was to establish a consistent approach for controlling CSO discharges through the National Pollutant Discharge Elimination System (NPDES). CSO permittees are required to incorporate provisions of the CSO Control Policy including accurately characterizing their CSS and CSO discharges, demonstrating implementation of minimum technology-based controls, and developing long term CSO control plans, which evaluate alternatives for achieving compliance with the Clean Water Act. West Virginia Department of Environmental Protection (WVDEP) is the NPDES and water quality standards authority responsible for reviewing the long-term control plans and ensuring consistency with the CSO Control Policy.

In 2011 the City entered into a Consent Decree (Civil Action No. 2:11cv61) with the WVDEP, EPA, and the United States Department of Justice (DOJ) associated the combined sewer system (CSS). As part of the Consent Decree, the City submitted a LTCP, which was approved by WVDEP and USEPA. Within the LTCP, the Implementation Schedule identified two sewer separation projects within the CSS. The City completed the separation projects per the Implementation Schedule with the submission of the Post Construction Monitoring Report for the CSS Improvements, Phase 2 project on January 26, 2023.

Elkins has chosen to use the Presumptive Approach for addressing CSOs. Use of the Presumptive Approach allows Elkins to focus on more easily identifiable issues (number and frequency of overflow events), instead of the required sampling with the demonstrative approach. From the Phase 2 Post Construction Monitoring Report, wet weather CSOs continue to occur at a greater frequency than permitted under the presumptive approach, the CSS does not capture 85% of the CSOs, and fecal coliform counts in the receiving stream are above the TMDL. Based upon this information, the LTCP is being updated to provide an Implementation Schedule conforming to the EPA CSO Policy.

Combined Sewer Overflows

From information provided in the City's NPDES Permit, the City of Elkins has fourteen active CSOs. Appendix B contains a map of the above CSS boundaries and CSO locations. Locations of the actively permitted CSOs are summarized below:

Table No. 1
List of CSOs

CSO #	Description	Receiving Stream	Latitude	Longitude
002	Barron Avenue	Tygart Valley River	38º55'00"	79º50'46"
003	Cherokee Street	Tygart Valley River	38º56'04"	79º50'29"
004	Henry Avenue	Tygart Valley River	38º55'23"	79º50'49"
005	Kerens Avenue	Tygart Valley River	38º55'25"	79º50'54"
006	North Davis Avenue	Tygart Valley River	38º55'28"	79º50'59"
007	Railroad Ave. & 1st St.	Tygart Valley River	38º55'28"	79º51'06"
008	Worth Avenue	Tygart Valley River	38º55'32"	79º51'28"
009	Lower Pleasant	Leading Creek	38º56'38"	79º51'36"
011	Mt. View Drive	Tygart Valley River	38º55'35"	79º52'20"
**012*	*Flood Control Road*	*Tygart Valley River*	*38º55'27"*	*79º51'59"*
**013*	*Scott Ford Road*	*Tygart Valley River*	*38º54'23"*	*79º51'35"*
**014*	*Whiteman Avenue*	*Tygart Valley River*	*38º54'46"*	*79º50'58"*
**015*	*15th Street*	*Tygart Valley River*	*38º55'13"*	*79º51'27"*
016	Railroad Ave.&10th St.	Tygart Valley River	38º55'23"	79º51'02"
017	South Davis Avenue	Tygart Valley River	38º55'22"	79º50'57"
018	South Kerens Avenue	Tygart Valley River	38º55'22"	79º50'52"
019	South Henry Avenue	Tygart Valley River	38º55'20"	79º50'48"
020	Flood Control Road	Tygart Valley River	38º55'27"	79º51'59"

* CSO Permanently Blocked.

CSO regulators are located upstream of the CSO to control the amounts of flow that either enters the interceptor or discharged through the CSOs. Though the Board does know where each of the regulator structures is located, information on all of these structures has not been thoroughly documented. Board staff will work to document the following information for each regulator device:

- Type of control device
- Height from bottom of the interceptor to top of control device
- Length of control device

To protect the sanitary sewer system from backups from the Tygart Valley River, the Board has installed flap gates on CSOs 002, 003, 004, 005, 006, 007, 008, 015, 016, and 017. "Duckbill-style" check valves have been installed on CSOs 009, 018, and 019.

Collection System

Though much of the wastewater collection system is comprised of combined sanitary/storm sewers, there are locations within the service area that contains separate sewers. The collection system is comprised of the following pipe sizes and materials:

- 200 feet of 4" clay tile and PVC
- 18,400 feet of 6" clay tile and PVC
- 67,950 feet of 8" clay tile and PVC
- 41,153 feet of 10" clay tile and PVC
- 29,700 feet of 12" clay tile and PVC
- 10,100 feet of 15" clay tile
- 10,400 feet of 18" clay tile and PVC
- 3,400 feet of 21" clay tile
- 6,600 feet of 24" clay tile
- 650 feet of 27" clay tile
- 2,300 feet of 30" concrete
- 425 feet of 4" ductile iron force main
- 7,000 feet of 6" ductile iron and PVC force main
- 7,200 feet of 10" PVC force main
- 400 feet of 12" ductile iron force main
- 2,800 feet of 18" ductile iron force main

Based on the connectivity of the wastewater collection system, many of the tributary areas affect the activity of CSOs located downstream of the tributary areas. Appendix C contains a schematic diagram of the flows for the collection system and a summary of the tributary areas, surface area of the tributaries, and the downstream tributary areas they impact are summarized in the following table:

Table No. 2
Tributary Areas of the Collection System

Tributary Area	Total Area (Acres)	Downstream Tributary Areas Impacted
002	158	003, 005, 006 and 008
003	77	005, 006 and 008
004	14	005, 006 and 008
005	73	006 and 008
006	41	008
007	36	008
008	214	N/A
009	158	012 and 020
011	34	012 and 020
015	60	N/A
016	146	017, 018, 019, 005, 006, 007 and 008
017	11	018, 019, 005, 006, 007 and 008
018	12	019, 005, 006, 007 and 008
019	37	005, 006, 007 and 008
020	85	N/A
TOTAL AREA	**1,156**	

Lift Stations

A total of eleven lift stations are located within the Elkins collection system. The Midland Public Service District (PSD) Lift Station enters the Elkins WWTP directly, while the Leadsville PSD Lift Station enters the Elkins collection system upstream of Lift Station #11. Appendix D contains the locations of the lift stations, while the lift station number, common name, and capacity are contained in the following table:

Table No. 3
Lift Station Information

Lift Station #	Common Name	Capacity*
1	Barron Avenue	500 gpm
2	Cherokee	2,000 gpm
3	Glendale	3,100 gpm**
4	Steward Avenue	1,140 gpm
5	Reidboard	175 gpm
6	A.B. Andrews	175 gpm
7	Vector Avenue	215 gpm
8	Whiteman Avenue	175 gpm
9	15th Street	100 gpm
10	Teaberry Hills	100 gpm
11	Lift Station #11	1,180 gpm

* - Each station is a duplex station. Rated capacity is for one pump running.
** - Design information lists the capacity as 2,200 gpm, but flow metering at the plant suggests that the capacity is actually 3,100 gpm.

Wastewater Treatment Plant

As previously discussed, the Elkins WWTP was rehabilitated and expanded in 2008. Capacity of the facility was taken from an average daily design flow of 2.5 million gallons per day (mgd) to an average daily design flow capacity of 4.99 mgd. Peak hourly design flow capacity was also increased to 10.0 mgd. Additional information on the WWTP (including a block flow diagram, basic design data, and a site plan) is included in Appendix E. The following subsections indicate the unit processes within the treatment facility, along with improvements that were made during the most recent upgrades.

Preliminary Treatment Facilities

Once wastewater reaches the treatment plant from the collection system, it first enters the preliminary treatment structure. The previous facility was undersized and utilized a comminutor (grinder system) for preliminary treatment, which did not remove nuisance solids from the incoming wastewater. Improvements to this portion of the plant included installing a new mechanically-cleaned screen to remove nuisance solids, replacing the existing grit removal system with a new grit pump, and constructing a new building to enclose these new and existing components.

Oxidation Ditch

Wastewater flows from the preliminary treatment facilities into the existing oxidation ditch structure, where biological treatment of the wastewater occurs. The treatment capacity of the oxidation ditch was increased by 50% without increasing the size of the existing concrete structure. This was accomplished by utilizing an innovative scheme involving the installation of additional diffusers within the oxidation ditch and two new blowers. A third effluent weir was added to the oxidation ditch's splitter box system so that flow could be conveyed to a new secondary clarifier.

Secondary Clarifiers

Wastewater discharged from the oxidation ditch flows through its splitter box and into the secondary clarifiers. The secondary clarifiers provide further treatment by allowing the solids within the wastewater stream to be settled and recycled, or wasted, from the treatment process. The project included improvements to the two existing secondary clarifiers (59.5 ft. diameter, each), which involved rebuilding their drive units and the installation of Stamford baffles to optimize their performance. A new secondary clarifier (90 ft. diameter), return/waste activated sludge (RAS/WAS) pump station, and two scum pump stations were also added to the treatment process.

Post Aeration Tank

Wastewater discharged from the secondary clarifiers flows into the post aeration tank. As the biological treatment process depletes oxygen from the wastewater flow stream, air must be added to increase the dissolved oxygen content within the flow, thus avoiding impacts to the aquatic wildlife of the Tygart Valley River. Since the existing floating aerator was near the end of its design life, it was replaced with two, higher capacity aerators. The hydraulic capacity of the aeration tank was further increased through the replacement of piping. Although the aeration and piping improvements did increase the capacity of the post aeration system, increasing the size of the post aeration tank structure was not necessary.

Ultraviolet Disinfection

Wastewater discharged from the post aeration tank is discharged into the ultraviolet disinfection system. Prior to being discharged to the Tygart Valley River, treated wastewater must be disinfected, which is accomplished by passing the wastewater through a system of ultraviolet lights. As was similar with other components of the existing treatment plant, portions of the ultraviolet light system were near the end of their useful life and did not have adequate capacity to meet future needs. The existing, deteriorated, fiberglass tanks were replaced with new and larger stainless-steel tanks, and modifications were made to the piping and electrical systems.

Decant Tanks

Solids (sludge) removed from the wastewater stream by the secondary clarifiers can be "wasted" and pumped into the decant tanks by the RAS/WAS pump station. In 2017, the Board replaced the mixer system with a diffused aeration system consisting of coarse bubble diffusers and three positive-displacement blowers sized as 750 standard cubic feet per minute (scfm) at 9.2 pounds per square inch (psi). Blower motors are sized as 50 Hp, 480-V, 60-Hz.

Sludge Dewatering

The reduction of water from the waste sludge was previously accomplished utilizing two 1-meter belt filter presses, each of which had a history of maintenance issues and had exceeded their useful lives. To increase the plant's sludge dewatering capacity, the existing presses were replaced with two 1.5-meter presses (which was an extensive operation requiring a hole to be cut into the side of the existing building). In addition to increasing the plant's sludge handling capacity, the installation of these presses allows the WWTP's staff to complete their routine dewatering operations within a typical 8-hour working day, eliminating the need for overtime work. Both presses were installed within an existing building, which was modified to accommodate maintenance and future replacement of the presses.

Miscellaneous Upgrades

Other treatment plant improvements included:

- Construction of a sludge storage building, which will be utilized to store dewatered sludge cake during periods of adverse weather conditions. As the dewatered sludge is applied to local farm fields, adequate space was provided to store the sludge during extended periods of cold and/or wet weather.
- Expanding the existing laboratory to meet the requirements of the WVDEP.
- Installing a new septage receiving and storage system. The new septage system includes components for screening, storing, and pumping septage discharged into the plant by local haulers.
- Paving the plant's access road and expanding the parking area.

Wastewater Flows

Average daily flow observed at the WWTP from July 2021 through June 2022 was approximately 1.72 mgd with the average dry weather flow of 0.83 mgd. Comparing the actual average daily flow to the design daily flow of 5.0 mgd suggests the WWTP is currently 35% hydraulically loaded. Additional effluent flow information for the Elkins WWTP is included in the following table:

Table No. 4
Elkins WWTP Effluent Flow Data

Month	Minimum Daily Flow	Maximum Daily Flow	Average Daily Flow
July 2021	0.981 mgd	3.229 mgd	1.409 mgd
August 2021	0.962 mgd	3.313 mgd	1.399 mgd
September 2021	1.110 mgd	5.923 mgd	1.911 mgd
October 2021	0.826 mgd	3.370 mgd	1.267 mgd
November 2021	0.852 mgd	1.695 mgd	1.127 mgd
December 2021	0.800 mgd	3.595 mgd	1.371 mgd
January 2022	1.121 mgd	5.190 mgd	2.093 mgd
February 2022	1.357 mgd	5.994 mgd	2.412 mgd
March 2022	1.244 mgd	3.500 mgd	1.971 mgd
April 2022	1.139 mgd	3.634 mgd	1.934 mgd
May 2022	1.316 mgd	5.677 mgd	2.391 mgd
June 2022	1.156 mgd	4.077 mgd	1.369 mgd

CSO events are monitored by the Board using visual observations and flow meters located on the discharge pipes or in the diversion manholes. In 2022, the Board purchased fourteen new flow meters to install at the CSOs for a cost of $154,380.20. For rainfall data, the Board records daily rainfall on a manual rain gauge at the WWTP; however, the Board is contemplating purchasing a tipping bucket rain gauge to assist with analyzing the CSS during rain events.

Inspections are performed by the Board on the CSOs weekly and after each rain events when personnel are available during normal working hours. During this time, the CSOs were activated with a minimum 0.32-inch storm event. The following table indicates the most recent discharge activity from the CSOs:

Table No. 5
CSO Activity

Reporting Period	Wet Weather Events	Dry Weather Events
October 2017 – April 2018	24	0
April 2018 – October 2018	19	0
October 2018 – April 2019	18	1
April 2019 – October 2019	17	1
October 2019 – April 2020	16	1
April 2020 – October 2020	22	0
October 2020 – April 2021	16	2
April 2021 – October 2021	15	0
October 2021 – April 2022	14	0

Causes of the dry weather CSO activation are provided below:

- 3/16/19 – 3/17/19 – Fuse on electric company transformer tripped causing partial loss of power to the Cherokee Lift Station including tripping the lift station pumps.
- 5/19/19 – 5/20/19 - Fuse on electric company transformer tripped causing partial loss of power to the Cherokee Lift Station including tripping the lift station pumps.
- 11/23/19 – Power failure at Lift Station No. 11.
- 10/23/20 – Lead float went bad in lift station causing pumps not to kick on leading to discharge into the river.
- 2/20/21 – "OFF" float switch at Glendale Lift Station failed, preventing pumps from operating automatically.

Satellite Communities

Elkins provides sewer service to two satellite communities: Leadsville Public Service District (PSD) and Midland PSD. Leadsville PSD has multiple tie-in points throughout the City's system. Leadsville's flow contributes to the tributary sewer areas relieved by CSOs 002, 003, 004, 005, 006, 007, 008, 009, and 020. Flow from Midland PSD is conveyed directly to the WWTP, thus having no direct impact on a given CSO tributary sewer area.

Leadsville PSD

As previously mentioned, Leadsville PSD system is connected to the Elkins collection system at several different locations. Leadsville PSD provides sewer service to a total of 773 customers (699 residential and 74 commercial) according to the 2021 Annual Report to the Public Service Commission of West Virginia (PSC). With the scattering of connection locations, it will be difficult for the City of Elkins to develop a strategy to determine the effect of the Leadsville PSD on the Elkins collection system. As time allows, the City will observe conditions of the Leadsville PSD near the connection points with the Elkins collection system. If during these observations, there appears to be abnormally high flows associated with the Leadsville collection system, further analysis (such as metering) may occur to quantify the flows. The City of Elkins will document any findings from these observations and place the information into the Semi-Annual Report.

Midland PSD

Midland PSD transports wastewater directly to the Elkins WWTP through the Midland PSD Lift Station. From information provided in the 2021 Annual Report to the PSC, an average of 910 customers (787 residential and 123 commercial) were provided sewer service by the Midland PSD. Flow from the Midland PSD comes from three separate lift stations that discharge into a common force main. These lift stations are designated Bridgewater Lift Station, Ward Road #1, and Ward Road #2 with capacities of 100 gallons per minute (gpm), 700 gpm, and 50 gpm, respectively. Midland PSD also has two additional lift stations at Pineview and on Route 219 South below the Super 8 Motel, which discharge into Ward Road Lift Station. For purposes of this report, all three lift stations will be considered the "Midland PSD Lift Station". The Midland PSD Lift Station has a peak capacity of 850 gpm (1.22 mgd). Discharge from the Midland PSD Lift Station is metered at the preliminary treatment facility at the Elkins WWTP. Pumping data from the Midland PSD Lift Station is provided in the following table:

Table No. 6
Midland PSD Flows

Month	Minimum Daily Flow	Maximum Daily Flow	Average Daily Flow
July 2021	172,700 gpd	388,100 gpd	218,900 gpd
August 2021	159,000 gpd	494,900 gpd	218,800 gpd
September 2021	211,200 gpd	1,086,000 gpd	343,300 gpd
October 2021	185,900 gpd	547,500 gpd	237,600 gpd
November 2021	195,200 gpd	319,700 gpd	227,400 gpd
December 2021	189,300 gpd	662,500 gpd	288,900 gpd
January 2022	249,800 gpd	1,431,000 gpd	453,900 gpd
February 2022	247,800 gpd	1,222,000 gpd	469,300 gpd
March 2022	233,600 gpd	770,000 gpd	362,000 gpd
April 2022	211,600 gpd	662,400 gpd	342,600 gpd
May 2022	219,100 gpd	1,149,000 gpd	373,600 gpd
June 2022	208,200 gpd	714,900 gpd	320,500 gpd

Water Quality Information

Total Maximum Daily Loads (TMDLs) were established by WVDEP in 2016 for 251 impaired streams within the Tygart Valley watershed. For the section of the Tygart Valley River directly upstream from the City of Elkins (identified in the TMDL as an unnamed tributary [UNT]/Tygart Valley River - River Mile [RM] 76.87), impairments requiring TMDLs are Iron (Fe) and fecal coliform.

Water quality data collected during the Post Construction Monitoring Report for the Combined Sewer System (CSS) Improvements, Phase 1 project is included in Appendix F. It should be noted Elkins is collecting water quality data for the Tygart Valley River associated with the Post Construction Monitoring Report for the CSS Improvements, Phase 2 project.

Capital Projects Completed in the CSS

Improvements to the wastewater system completed since the original LTCP in 2011:

- CSS Improvements, Phase 1 – Included the following major improvements:
  - Sanitary sewer lining along Barron Avenue, which is located along the banks of the Tygart Valley River and contained significant inflow from the river.
  - New storm drains on College Street and Hemlock Avenue to remove catch basins from the combined sewer system.
  - New storm drains on Wilson Street and Glendale Avenue to remove catch basins from the combined sewer system.
  - New storm drains on Kerens Avenue to remove catch basins from the combined sewer system.
  - Sanitary sewer lining on Kerens Avenue to remove groundwater infiltration from the sewer and provide structural improvements.
  - Extending new storm drains along Glendale Avenue to Central Street. Additional catch basins were removed from the combined sewer system.
  - New storm drains along the alley at Kerens Avenue adjacent to the West Virginia Division of Highways (WVDOH) garage. Additional catch basins were removed from the combined sewer system.
  - Extending new storm drains along Third Street (east and west) from Kerens Avenue to and including the alleys. Also includes sanitary sewer lining from the west alley at Third Street along Third Street to Henry Avenue.
  - New storm drains along the alley at Kerens Avenue adjacent to the First United Methodist Church. Additional catch basins were removed from the combined sewer system.
  - New storm drains along First Street from Kerens Avenue to Henry Avenue. Additional catch basins were removed from the combined sewer system
- CSS Improvements, Phase 2 – Included the following major improvements:
  - Separated sewers in South Elkins by installing new storm drains and outfalls to the Tygart Valley River.
  - Removed sanitary sewer laterals previously entering the Buffalo Creek culvert and rerouted to the existing sanitary sewer system.
- Purchased Sewer Closed-Circuit Televising (CCTV) truck – Purchased sewer televising equipment including a truck to facilitate inspecting of sewers within the Elkins collection system.

- Blower Installation for WWTP Decant Tanks – Replaced the mixers in the tanks with diffused aeration systems including diffusers in the tanks and positive-displacement blowers.
- Purchased New Effluent Meters on the CSOs – Purchased and installed 14 effluent flow meters on the active CSOs.

CHAPTER 3
NINE MINIMUM CONTROLS

As required in the CSO Control Policy, municipalities were obligated to immediately implement best management practices to reduce CSOs and their effects on receiving streams no later than January 1, 1997. The Board has previously submitted documentation demonstrating compliance with the nine minimum controls (NMCs) requirement. In this section, a brief description of each minimum control measure implemented is provided. A more thorough explanation of NMC efforts is summarized in the CSO NMC Implementation Policy Audit provided in Appendix G. The audit has been updated based on action items carried out by the Board. Additionally, the Board submits semi-annual CSO reports to USEPA and WVDEP updating the Agencies on progress made in maintaining the Nine Minimum Controls.

Proper Operation and Regular Maintenance Programs

According to the EPA's "Guidance for Nine Minimum Controls," a program that clearly establishes operation, maintenance, and inspection procedures to ensure that a CSS and treatment facility will function in a way to maximize treatment of combined sewage and comply with NPDES permit limitations is required. Its aim is to ensure that existing facilities perform as effectively as possible.

The Wastewater System Superintendent of the City of Elkins Sanitary Board directs the activities of six employees dedicated full-time to the WWTP, while the Wastewater Collection Department Supervisor directs the activities of five employees (four fulltime and one parttime) dedicated to the sewer system. Reports from the Wastewater System Superintendent and Collections Supervisor regarding the status of the WWTP and sewer operations are provided to members of the Board. Based upon this information, the Board provides general instructions to the Wastewater System Superintendent and Collections Supervisor.

In order to ensure compliance with the LTCP, the Wastewater System Superintendent and Collections Supervisor of the Board are licensed wastewater operators responsible for all aspects of the operation and maintenance of the combined sewer system. These duties include:

- Preparation of annual operation, maintenance and equipment replacement budgets for presentation to the Board for approval. Upon approval, responsible for monitoring budget expenditures (deficits and surpluses).
- Ensuring that sanitary board staff are adequately trained and equipped for completing assigned tasks, particularly tasks associated with maintaining compliance with the NPDES permit.
- Properly scheduling routine operation and maintenance procedures.
- Reporting the status of the combined sewer system to the Board.
- Preparation of discharge monitoring reports (DMRs) for submittal to the WVDEP.

Board staff perform the following tasks and quantify findings in the semi-annual CSO report:

- Line maintenance activities for main lines, sewer taps, cleanouts, and storm drains.
- Lift station maintenance including routine inspections, cleaning floats, and cleaning trash baskets.
- Lift station emergency maintenance including unplugging pumps, pump rebuilds, repairing pump guide rails and cleaning wet wells.
- Lift station generator repair and maintenance.
- Maintenance of buildings and lift station access roads.
- Resident assistance for complaints, callouts, and utility locates.
- Attend weekly safety meetings.
- Removing debris from regulator manholes.
- Maintenance of screening devices at three outfalls.
- CSO maintenance including inspecting outfalls, duckbill valves, flapper valves, and regulators.
- Maintenance of flow meters and rain gauges.
- Removing debris and trimming weeds at the outfalls.

Maximization of Storage in the Collection System

Maximizing storage in the collection system means making relatively simple and inexpensive modifications enabling the CSS to store wet weather flows until downstream facilities can handle the increased volumes. In some instances, the Board has opted to separate sewers and reduce infiltration and inflow to maximize the ability of the collection system to convey wastewater.

Activities to maximize storage provided by the Board and summarized in the semi-annual CSO reports are listed below:

- Maintaining existing equipment.
- Inspection and repair of lift stations.
- Line cleaning and repair.
- Inspections of CSO structures including regulators to detect any blockages.
- Inspecting backflow preventers for proper operation.
- Maintaining repair/service equipment and inventory.

Review and Modification of Pretreatment Requirements

EPA guidance document stipulates that the Board should determine whether non-domestic sources are contributing to CSO impacts and investigate ways to control them. Examples of typical contributing nondomestic sources may include restaurants, gas stations, industrial users, etc.

Board staff regularly perform inspections of grease traps and oil/water separators located within the City limits. Staff at the WWTP help monitor permitted industrial dischargers to the plant, including facilities designated as an Industrial User (IU) or a Significant Industrial User (SIU). From information in the NPDES Permit, Elkins provides treatment to the following industrial users:

- IU06 – Elkins Landfill (SIU)
- IU15 – Elkins New Water Plant (SIU)
- IU18 – Lohr and Barb Funeral Home (IU)
- IU19 – Tomblyn's Funeral Home (IU)
- IU20 – Big Timber Brewing Company (IU)

Maximization of Flow to the POTW for Treatment

Maximization of flow to the Board's publicly owned treatment works (POTW) can entail simple modifications to the CSS and treatment plant to allow as much flow as reasonably possible to enter the treatment plant during wet weather events. Ultimately, maximizing the flow to the treatment plant will reduce the magnitude, frequency, and duration of CSO events.

Activities to address maximization of flows at the Elkins WWTP include:

- Regular maintenance of upstream lift stations.
- Placing all clarifiers in service prior to anticipated wet weather events.
- Maintaining the mixed liquor suspended solids (MLSS) in the secondary treatment tanks to a level to promote treatment without solids washout occurring in the clarifiers.
- Wasting sludge in the secondary treatment tanks ahead of potential storm events.

Elimination of CSOs during Dry Weather

Dry weather overflows are prohibited by the NPDES program. Therefore, this control is enforceable outside of any CSO control program. Elkins is unaware of any regularly occurring dry weather overflows within the CSS.

To ensure that an occurrence of a dry weather overflow would be noticed, the Board observes each CSO location weekly and downloads flow meters monthly. Should a dry weather overflow be encountered, the Board maintains a procedure to contact the West Virginia Water Pollution Spill Alert Hotline immediately.

Activities performed by the Board to mitigate concerns with dry weather sanitary sewer overflows include:

- Line cleaning and repair.
- Regularly inspecting lift stations, CSO regulators and outfalls.
- Performing maintenance and repair as issues arise.

Control of Solid and Floatable Materials in CSOs

Reducing visible floatables from the CSS using simple control measures is the sixth minimum control measure. Such equipment may include trash racks, screens, grease traps, and oil skimmers. Other maintenance operations such as street sweeping may further reduce the solids and floatables that enter the CSS. Control devices on the CSOs include:

- CSO 004 = wire screen
- CSO 005 = wire screen
- CSO 020 = trash basket and baffle

Pollution Prevention Programs to Reduce Contaminants in CSOs

Keeping contaminants from entering the CSS and impacting the receiving stream through CSOs is the goal of this minimum control. The control measure is predicated upon the Pollution Prevention Act of 1990 that established a national strategy for pollution prevention. This measure is focused more on behavioral changes as opposed to construction of infrastructure. Currently, the Board maintains street sweeping and trash collection programs. One street sweeper is owned and operated by Elkins, which runs on a regular basis to reduce trash and litter on City streets.

Trash receptacles have been placed in appropriate spots in areas of high pedestrian traffic (i.e. downtown city streets, playgrounds, parks, ball fields, etc.). Regular trash collection is conducted for all City residents. In the fall, Elkins has a leaf removal program.

An ordinance has been adopted to prohibit illegal dumping of materials to waterways, inlets, or onto the ground. A copy of the ordinance prohibiting littering and illegal dumping is included as Appendix H.

Public Notification

Informing the public of the location of CSOs; the actual occurrences of CSOs; the possible health and environmental impacts of CSOs; and the recreational activities limited as a result of CSOs is critical to the effectiveness of the CSO program. Posting of signs at all CSO discharge locations warning of the need to stay away from the CSO locations during wet weather events is the primary notification measure for the Board. These signs alert the recreational public that CSOs are nearby and to avoid them should they be discharging.

Monitoring to Characterize CSO Impacts and the Efficacy of CSO Controls

Determining the occurrence and apparent impacts of CSOs through visual observation or other simple methods is the ninth and final control measure. Over time, changes in the occurrences of CSO events can provide a preliminary indication of the effectiveness of the nine minimum controls.

In order to begin to characterize the CSO impacts, accurate mapping of the CSS must be available. Historically, system mapping put together in the early 1990s of the combined sewer system has been used by the Board to locate existing CSS infrastructure. Over the past several years, the City of Elkins employed a geographic information system (GIS) coordinator, who was attempting to digitize the information into a GIS platform. Currently the GIS coordinator position is open and the City hopes to hire a replacement in the near future. Progress on the hiring of the GIS coordinator will be documented in the semi-annual CSR.

Observations are made of each CSO location weekly, whether it is overflowing, and weather observations are recorded. In addition, when wet weather events occur, observations are made at each overflow that can be correlated with rainfall data gathered from the Board's rainfall gauge. When significant wet weather events occur during working hours, Board staff makes observations at representative CSOs to ensure that systems are functioning properly.

Effectiveness of the Nine Minimum Controls

The City has found a benefit in continuing to focus on the controls, as noted below:

- Proper Operation and Regular Maintenance. Mitigated occasions of dry weather overflows. Regular preventative lift station maintenance has reduced overflows associated with pump station outages. Logging of collection system issues (manhole surcharging, catch basin cleaning, sewer plugging, etc.) allows operators to focus on certain locations prior to causing overflows.

- Maximize Storage in Collection System. Mitigated occasions of dry weather overflows. Regular preventative lift station maintenance has reduced overflows associated with pump station outages. Logging of collection system issues (manhole surcharging, catch basin cleaning, sewer plugging, etc.) allows operators to focus on certain locations prior to causing overflows.

- Review and Modification of Pretreatment Requirements. Focus on grease traps and oil/water separator inspections has decreased the amount of sewer clogging from fats, oils and greases (FOG). FOG reduces the capacity of sewers, leading to possible CSO events.

- Maximization of Flow to POTW for Treatment. Mitigated occasions of dry weather overflows. Regular preventative lift station maintenance has reduced overflows associated with pump station outages. Logging of collection system issues (manhole surcharging, catch basin cleaning, sewer plugging, etc.) allows operators to focus on certain locations prior to causing overflows.

- Elimination of CSO Dry Weather Events. Mitigated occasions of dry weather overflows. Regular preventative lift station maintenance has reduced overflows associated with pump station outages. Logging of collection system issues (manhole surcharging, catch basin cleaning, sewer plugging, etc.) allows operators to focus on certain locations prior to causing overflows.

- Control of Solids and Floatable Material. Staff regularly clean the trash baskets installed at the outfalls for the CSOs, as well as perform regularly scheduled street sweeping and catch basin cleaning. Residents continue to take advantage of trash containers located throughout the downtown area and city parks, fall leaf pickup, yard waste recycling, and voluntary community recycling.

- Pollution Prevention. Public has responded to CSO information provided by the City in pamphlets, newspaper articles, and on the website listing ways residents can assist with meeting water quality standards. Residents have reduced the amounts of grass entering the collection system by sweeping clippings following mowing. The banks of the Tygart Valley River have noticeably less trash. Residents have been using recycling and yard waste collections to assist with the amounts of solids entering receiving streams.

- Public Notification. Public has responded to CSO information provided by the City in pamphlets, newspaper articles, and on the website listing ways residents can assist with meeting water quality standards. Residents have reduced the amounts of grass entering the collection system by sweeping clippings following mowing. The banks of the Tygart Valley River have noticeably less trash. Residents have been using recycling and yard waste collections to assist with the amounts of solids entering receiving streams.

- Monitoring to Characterize CSO Impacts. Operators regularly check the outfalls looking for structural issues with the CSOs and the condition of the river upstream and downstream. The City also maintains rain gauges and flow meters on the CSOs to look for changes in the combined sewer system operation. Reviewing the physical condition of the CSOs and meter data, the City has been able to better determine the needs of the CSS to reduce overflow events.

CHAPTER 4
PUBLIC PARTICIPATION AND CONSIDERATION OF SENSITIVE AREAS

Public Participation and Notification

Public participation and notification of CSO issues and events is a key goal of the LTCP program. Based upon this goal, the City has implemented several initiatives that are described in this section.

Legal Advertisement

A legal advertisement is placed in the Elkins Intermountain newspaper annually explaining the importance of avoiding CSOs and identifies the streams impacted by CSOs. In the advertisement, the public is cautioned to avoid these CSO locations when actively discharging and to contact the City at the number provided in the advertisement for any further information on CSOs.

Signage

The primary notification measure is the posting of signs at all CSO discharge locations warning of the need to stay away from the CSO locations during wet weather events. The signs are located at each CSO discharge location (see Appendix I for information on the signs). Additional signs have been placed at known locations that are accessed by the public, such as fishing and wading areas, also warning of the dangers associated with the CSO discharges.

Brochures

Brochures educating residents of the potential health risks associated with exposure to CSOs are made available at City Hall. The brochures are made available free of charge by WVDEP.

Public Meeting

The City of Elkins Sanitary Board held a Public Meeting on January 23, 2023 to discuss the LTCP. A copy of the advertisement, attendance sheet and information provided to attendees is presented in Appendix J.

Website

Recently the City of Elkins added a link on the website to allow information for the combined sewer system to provide additional information to residents on the combined sewer system (https://cityofelkinswv.com/sewer-overflow-reduction-program/). Information will be included in a future Semi-Annual report listing the data included within the website.

Identification of Sensitive and Priority Areas

Sensitive areas, as defined by the US EPA Combined Sewer Overflow Control Policy, include "designated Outstanding National Resource Waters, National Marine Sanctuaries, waters with threatened or endangered species and their habitat, waters with primary contact recreation, public drinking water intakes or their designated protection areas, and shellfish beds." This section of the report will look at each of these areas.

Outstanding National Resource Waters

"Outstanding National Resource Waters" are defined as "Tier 3 Waters" in West Virginia. Neither the Tygart Valley River nor Cravens Run are identified as Tier 3 Waters.

National Marine Sanctuaries

West Virginia does not have National Marine Sanctuaries.

Waters with Threatened or Endangered Species and Their Habitat

The US Fish and Wildlife Service (USFWS) provides information on threatened or endangered species for communities. Information from the agency is provided in Appendix K.

Waters with Primary Contact Recreation

WVDEP does not find that the Tygart Valley River supports Water Contact Recreation as a primary use.

Public Drinking Water Intakes

Previously, the main sensitive area had been CSO 014, which was located upstream of the public drinking water intake for the Elkins Water Treatment Plant (WTP). However, as previously noted in this plan, CSO 014 was permanently plugged in April of 2010. Therefore, the largest sensitive area with the drinking water source was removed from the collection system.

Though the largest possible contributor to the water intake was removed, there still remains a threat (though much more remote) to the drinking water source. The City has identified CSO 002 (downstream of the water intake) as a potential sensitive area site. This section of the Tygart Valley River can experience reverse flows under certain conditions which could allow a CSO discharge to flow toward the WTP intake.

Shellfish Beds

Freshwater mussels were not identified by the USFWS as being in the Elkins area. See Appendix K for additional information.

CHAPTER 5
CSO CONTROL ALTERNATIVES

One of the most important elements of the CSO long-term control plan is evaluation of CSO control alternatives. This section of the plan reviews the options available for the Board to reduce the impacts of the CSOs on water quality. Options considered in this section of the report are evaluated based upon the applicability of performing the improvements in the given location – not necessarily based upon project costs. The CSO control alternatives that will be considered as part of this plan are: 1) conveyance to and treatment at the wastewater treatment plant, 2) inflow reduction, 3) "green" initiatives, 4) sewer separation, 5) off-line storage, and 6) wet weather treatment facilities. A brief description for each control alternative is provided below. Cost estimates for each of the alternatives are included in Appendix L. A map outlining the boundary of the tributary sewer areas is provided in Appendix B.

LTCP-EZ

From information provided in USEPA's "Guidance for Long-Term Control Plans", CSO communities under a population of 75,000 are not held to the same requirements as larger CSO communities. As such, USEPA created the LTCP Template for Small Communities (LTCP-EZ) to be used by smaller communities in preparation of their Long-Term Control Plans. More recently, USEPA further expanded the LTCP-EZ format to include "green" alternatives for dealing with storm flows. For purposes of this report, the LTCP-EZ template will be used to approximate proposed capacities of alternatives, in order to determine the size of structural improvements required to implement the alternative. Forms summarizing the results of the LTCP-EZ format are provided in Appendix M.

A summary of the sub-sewer shed areas associated with each CSO is provided in the following table:

Table No. 7
Land Information Upstream of CSOs

CSO #	Land Area (acres)	Principal Land Use	% Impervious	CSO Volume (million gallons)
002	158	Residential/Commercial	40	2.02
003	77	Residential/Commercial	60	1.50
004	14	Residential/Commercial	75	0.16
005	73	Residential/Commercial	75	1.52
006	41	Residential/Commercial	85	0.65
007	36	Residential/Commercial	40	2.64
008	214	Residential/Commercial	60	3.06
009	158	Residential	30	0.32
011	34	Residential/Commercial	45	0.51
012/020	85	Residential/Commercial	25	0.63
015	60	Commercial	65	1.41
016	146	Commercial	60	3.04
017	11	Commercial	80	0.11
018	12	Residential	70	0.10
019	37	Residential	70	0.72
TOTALS	**1,156**			**18.39**

Conveyance and Treatment at the Wastewater Treatment Plant

From previous information provided in the LTCP, the collection system appears to be sized properly in order to provide the 10.0 mgd peak hourly design flow to the WWTP. It should also be noted that the WWTP was expanded in 2008 to meet the current peak flow design capacity. This alternative will look at further expanding the WWTP to treat additional flows.

Expanding the WWTP to treat additional peak flows would require expansion to the following treatment units: preliminary treatment facility (screening and grit removal), oxidation ditch splitter box, secondary clarifiers, and UV disinfection. In reviewing the site plan provided in Appendix E, little room exists on the existing WWTP site for expansion of the WWTP. The WWTP is bounded on the south side of the property by the railroad, the Tygart Valley River on the east side, and the ball fields on the north and west sides. With the site limitations, expansion of the treatment plant site would not easily be accomplished.

Information included in previous chapters of the LTCP indicated that the CSOs upstream of the Glendale Lift Station are the most active and largest contributors to the volume of overflow events. As such, it would be proposed that the capacities of the Glendale and Cherokee Lift Stations be expanded and the north and south interceptors increased in size. From information provided in Appendix K, the following improvements would be needed to provide less than four overflow events at CSOs 004 through 008 and CSOs 016 through 019:

- Expand the south interceptor from 15-inch to 27-inch or install a 24-inch overflow sewer from CSO 016 to CSO 017.
- Expand the south interceptor from 15-inch to 30-inch or install a 24-inch overflow sewer from CSO 017 to CSO 018.
- Expand the south interceptor from 15-inch to 30-inch or install a 24-inch overflow sewer from CSO 018 to CSO 019.
- Expand the south interceptor crossing the Tygart Valley River into the Cherokee Lift Station to 30-inches.
- Increase the capacity of the Cherokee Lift Station from 2,000 gpm to 4,700 gpm and replace the resultant force main with a larger diameter pipe.
- Expand the north interceptor from 18-inch to 36-inch or install a 30-inch overflow sewer from CSO 005 to CSO 006.
- Expand the north interceptor from 21-inch to 42-inch or install a 30-inch overflow sewer from CSO 006 to CSO 007.
- Expand the north interceptor from 24-inch to 42-inch or install a 36-inch overflow sewer from CSO 007 to the Glendale Lift Station.
- Increase the capacity of the Glendale Lift Station from 2,200 gpm to 7,750 gpm and replace the resultant force main with a larger diameter pipe.
- Increase the peak hourly design flow capacity of the WWTP from 10.0 mgd to 18.5 mgd.

Several issues are encountered in trying to perform the “convey and treat” option for the Elkins system. As previously noted, the existing site is becoming crowded and there are few options in expanding the existing WWTP due to site constraints outside of the existing property. In almost doubling the peak flow

capacity, several additional units will be needed that will not fit onto the existing site. Also, the current plant has a design average daily flow of 4.99 mgd and a peak hourly design flow rate of 10.0 mgd or a peak-to-average flow ratio of 2:1. Average daily flows currently encountered at the facility have average 2.29 mgd, which indicate a peak-to-average flow ratio of 4.4:1. Increasing the peak hourly design flow to 18.5 mgd without the benefit of additional sewage flows would increase the peak-to-average flow ratio to 8.1:1. Typically, plants sized similarly to the City of Elkins are designed with a maximum of peak-to-average flow ratio of 4:1, though actual conditions may create ratios to 6:1. With a ratio of greater than 8:1, it would be difficult for the WWTP to ensure compliance with the NPDES permit. Finally, expanding the WWTP, lift stations, and interceptors are anticipated to cost more than Elkins could reasonably finance and keep rates within the affordability threshold for the City without substantial grant assistance. The cost associated with these improvements, including necessary upgrades to the treatment plant, is summarized in the table below (see Appendix L for detailed cost estimate):

Table No.8
Conveyance And Maximization of Treatment at the Plant

Improvements	Estimated Cost
Expand Interceptor from CSO 016 to CSO 017	$216,000.00
Expand Interceptor from CSO 017 to CSO 018	$273,000.00
Expand Interceptor from CSO 018 to CSO 019	$260,000.00
Expand Interceptor Crossing Tygart Valley River to the Cherokee Lift Station	$160,000.00
Increase Capacity for Cherokee Lift Station	$1,350,000.00
Increase Size of Cherokee Lift Station Force Main	$201,000.00
Expand Interceptor from CSO 005 to CSO 006	$497,000.00
Expand Interceptor from CSO 006 to CSO 007	$384,000.00
Expand Interceptor from CSO 007 to the Glendale Lift Station	$2,488,000.00
Increase Capacity for Glendale Lift Station	$2,775,000.00
Increase Size of the Glendale Lift Station Force Main	$1,136,000.00
Increase Peak Flow Capacity at the WWTP	$15,300.00
TOTAL ESTIMATED COST	**$25,040,000.00**

Wastewater treatment plant cost is based on $1,800,000 per million gallons of excess combined sewage conveyed to the plant (8.05 million gallons), while the cost for the new force main is based on a unit cost of $220 per linear foot.

Inflow Reduction

Inflow reduction is not just a method of controlling flows in combined sewer systems, but also is commonly used in older separate sanitary sewer systems to remove excess flows from the collection system. For purposes of this report, inflow reduction will include private property issues associated with the collection system, which includes roof leaders/downspout disconnections; repair of broken laterals; and disconnection of sump pumps, yard drains, foundation drains, etc. One of the main issues with this type improvement is that improvements made to personal property cannot be funded with public money. For Elkins, the most important task for inflow reduction is through education of the public. It would be hopeful that several of the customers would try to eliminate clean water sources from the sanitary system without additional prompting by the City. However, the City will work, as time permits, to identify clean water sources through investigations (smoke testing, dye testing, sewer televising, etc.) and inform customers of any issues found on private property.

Inflow reduction is a widely used CSO control practice centered on removal of direct sources of clean water connected to the CSS. For purposes of this report, roof leader and downspout disconnections will be the only inflow reduction measures considered. Costs for these disconnections are based on a unit cost of $400 per dwelling in the tributary sewer area. Total costs associated with inflow reduction for each tributary sewer area is summarized in the table below:

Table No. 9
Estimated Cost of Residential Inflow Reduction

Tributary Sewer Area	Estimated Cost
002	$160,000.00
003	$140,000.00
004	$20,000.00
005	$40,000.00
006	$40,000.00
007	$40,000.00
008	$220,000.00
009	$180,000.00
011	$40,000.00
012/020	$60,000.00
015	$40,000.00
016	$160,000.00
017	$20,000.00
018	$40,000.00
019	$60,000.00
TOTAL ESTIMATED COST	**$1,234,000**

"Green" Infrastructure Initiatives

According to the "Green Long Term Control Plan-EZ Template" guide document prepared by the USEPA:

> *"Green infrastructure practices are those that use or mimic natural processes to infiltrate, evapotranspire (i.e., return water to the atmosphere either through evaporation or through uptake by plants), or store (e.g., through rain barrels and cisterns) stormwater or runoff on or near the site where it is generated. Such practices reduce stormwater runoff, which in turn minimizes the frequency, duration and volume of CSOs."*

Five general green infrastructure runoff controls are considered in the USEPA guidance document, which include:

- Green Roofs
- Bioretention
- Vegetated Swales
- Permeable Pavement
- Rain Barrels

Each of these items will be discussed in greater detail in the following sections.

Green Roofs

In order to reduce the amount of rainfall reaching the collection system, green roofs can be placed on new and existing buildings. Green roofs are formed by placing growth media and vegetation on the top of roofs of buildings with membrane roofs, typical of flat top roofs. Elkins is a community of residential homes, commercial developments, and older manufacturing complexes. Few buildings are constructed with the types of parapet walls that would facilitate the construction of green roofs within the City. Therefore, constructing green roofs for future or existing structures within the City of Elkins is unlikely.

Bioretention

Bioretention facilities, such as rain gardens, collect storm water in shallow vegetated depressions and are located in mainly urban settings. Water is stored in the depression during the storm and, following the storm, the water leaves through either infiltration into neighboring soils or consumed through evapotranspiration. Ideally, the bioretention basin would be located in an area where sewer separation is anticipated to occur. In review of the locations of proposed sewer separation, insufficient land exists to properly install bioretention basins and this option will not be considered.

Vegetated Swales

Vegetated swales are used in place of gutters and storm drains for conveying storm water to the receiving streams. These swales consist of vegetation on the sides and bottom of the channel, which helps to manage the water quality of the storm water runoff. Storm water reduction can also be realized by infiltration into the soils of the channel and by evapotranspiration of the plant material. Vegetated swales are similar to the bioretention facilities in practice, but typically are placed linearly and can cover a larger runoff area. For Elkins, installation of vegetated swales could be accomplished in the downtown areas, especially where paved parking areas are upstream. With upcoming projects identified for streetscape and river walk trail, the City can review the viability of installing vegetated swales within the project footprint.

Permeable Pavements

Unlike typical concrete and asphalt pavements found within the City, permeable pavements allow storm water to drain through the pavement and infiltrate into the neighboring soils. These pavements are placed in areas that do not contain a heavy vehicular load, such as parking lots and sidewalks. Previous installations of permeable pavement in environments like Elkins have shown limited success with a very short useful life for the pavement. As such, the City will not consider permeable pavements for upcoming projects.

Rain Barrels

Perhaps the easiest of the green initiatives to incorporate into planning is the use of rain barrels. Rain barrels are holding structures that collect storm water from downspouts and can be discharged for other uses during dry periods. In the future, the City can attempt a pilot program for installing rain barrels in high density areas throughout the collection system (as an example, provide 20 rain barrels for homeowners to install). Following completion of the pilot program, the City could decide whether providing additional rain barrels is beneficial in reducing CSO events.

Sewer Separation

Sewer separation is the practice of replacing the single pipe system of a combined sewage system with separate pipes for sanitary and storm water flows. Existing pipes can either: 1) continue to be used for sanitary sewers or storm drains or 2) new storm drains and sanitary sewers can be installed. As part of the previously approved LTCP, the City of Elkins has completed two phases of improvements to the collection system using sewer separation techniques.

Interceptor sewers on both the north and south sides of the Tygart Valley River are the largest contributors to overflows in the Elkins collection system. Separating sewers in the tributary sewers to the interceptors would not only have the effect of reducing overflows at the diversion structure directly downstream of the sewer separation but would also affect each downstream diversion structure by reducing the total amount of storm flows reaching the diversion. Therefore, performing sewer separation starting at the furthest points upstream of the interceptors and working downstream would provide added benefit to the collection system. Total costs associated with the construction of separating sewers for each tributary sewer area is summarized in the table below:

Table No. 10
Estimated Cost of Sewer Separation

Tributary Sewer Area	Estimated Cost
002	$2,750,000.00
003	$2,040,000.00
004	$220,000.00
005	$2,070,00.00
006	$880,000.00
007	$3,590,000.00
008	$4,160,000.00
009	$440,000.00
011	$690,000.00
012/020	$860,000.00
015	$1,920,000.00
016	$4,130,000.00
017	$150,000.00
018	$140,000.00
019	$980,000.00
TOTAL ESTIMATED COST	**$25,010,000.00**

Off-Line Storage

Off-line storage is considered to be any structure (tank, basin, pipe, etc.) that inventories flow during storm events and bleeds the wastewater back into the collection system once the flow can be handled without creating an overflow event. For off-line storage to be a feasible option, sufficient land must be present in order for the storage structure to be constructed. Based upon information provided in Appendix K, storage basins for the CSO subareas would range from approximately 200,000 gallons to 4,400,000 gallons. Another issue is that off-line storage structures require relatively significant maintenance, as the tanks will need to be cleaned following use to mitigate odors.

Perhaps the most feasible location to install an off-line storage structure would be at Lift Station #11 (CSO 020). This lift station is located at the old WWTP site and has sufficient land surrounding the station to construct the estimated 850,000 gallon tank. However, CSO 020 is the least frequently activated CSO of those outfalls that were metered. Therefore, work associated with CSO 020 would not be highly successful in improving water quality. Total costs associated with the construction of separating sewers for each tributary sewer area is summarized in the table below:

Table No. 11
Estimated Construction Cost of Offline Storage

Tributary Sewer Area	Estimated Cost
002	$2,520,000.00
003	$1,880,000.00
004	$200,000.00
005	$1,900,00.00
006	$810,000.00
007	$3,300,000.00
008	$3,830,000.00
009	$400,000.00
011	$640,000.00
012/020	$790,000.00
015	$1,760,000.00
016	$3,800,000.00
017	$140,000.00
018	$130,000.00
019	$900,000.00
TOTAL ESTIMATED COST	**$23,000,000.00**

Wet Weather Treatment Facilities

In order to meet the requirements of wet weather treatment facilities, the treatment plant needs to include screening, primary level treatment, and disinfection. Typically, wet weather treatment facilities are installed at locations with relatively large anticipated flows, as the economy of scale suggests that these locations are more cost effective. In several CSO communities, treatment is performed by high-rate primary treatment alternatives, such as Actiflo by Veolia Water or DensaDeg by Degremont Technologies (though many other companies are actively pursuing wet weather treatment options), in place of standard primary clarifiers. These high-rate clarifiers improve treatment over standard clarifiers by more rapidly reaching the optimum treatment conditions.

Installing wet weather treatment facilities has the benefit over the "convey and treat" option in that the effluent does not need to meet secondary treatment levels. This reduces not only the capital costs associated with additional treatment, but reduces the operational costs associated with biological treatment. Also, by treating high peak flows at a different location away from the existing WWTP, typical daily treatment can occur at the existing WWTP without concerns of how the high peak flows will interfere with meeting the secondary treatment requirements in the NPDES permit.

As previously noted, the most active outfalls are located within the north and south interceptor of the Elkins collection system. In order for the wet weather facility option to be feasible, the overflow volume currently associated with the interceptors would need to be upsized and redirected to a new pump station or a series of pump stations would need to be constructed to transport the wastewater to a new treatment facility. Though no location was clearly defined for the proposed treatment facility, a location near the intersection of Railroad Avenue and Wilson Street would provide an area upstream of the Glendale Lift Station and downstream of most of the CSOs.

Issues with a new wet weather treatment facility for the City of Elkins are mainly related to cost considerations. A new treatment facility will require the City to add staff to operate and maintain not only the treatment facility, but also any new lift stations constructed to transport flow to the facility. Operations costs of these facilities are also relatively high due to the power requirements associated with additional pumping. Construction costs for these treatment options are relatively high and the City of Elkins may be required to purchase land to construct the new treatment facility. Total costs associated with the construction of separating sewers for each tributary sewer area is summarized in the table below:

Table No. 12
Estimated Construction Cost of Wet Weather Treatment

Tributary Sewer Area	Estimated Cost
002	$3,640,000.00
003	$2,700,000.00
004	$290,000.00
005	$2,740,00.00
006	$1,170,000.00
007	$4,750,000.00
008	$5,510,000.00
009	$580,000.00
011	$920,000.00
012/020	$1,130,000.00
015	$2,540,000.00
016	$5,470,000.00
017	$200,000.00
018	$180,000.00
019	$1,300,000.00
TOTAL ESTIMATED COST	**$33,100,000.00**

Summary of CSO Control Alternatives

Of the alternatives presented in this section of the LTCP, the "convey and treat" and off-line storage options appear to not be viable for the City of Elkins. With the City of Elkins previously completing an upgrade to the WWTP and utilizing the majority of available land at the site, the option of providing a second upgrade to treat additional peak flows is not practicable. Site limitations at the most active outfalls limit the viability of providing off-line storage devices for the collection system.

Constructing a wet weather treatment facility could be viable for the City, as most of the most active overflow structures are located within a relatively confined space. However, cost requirements associated with constructing and operating a new facility and constructing improvements to the collection system to transport flows to the proposed facility appear to be greater than the City of Elkins could realistically afford in their rate schedule.

Green initiatives and inflow reduction will be considered to be non-structural elements of the plan to improve water quality. During plan reviews for proposed new development or redevelopment, the City will request that green infrastructure initiatives be considered where possible, such as rain gardens and vegetated swales. This will include evaluating options available to the City for municipal improvements. Any use of green infrastructure initiatives within the City of Elkins will be documented in the Semi-Annual Report.

As previously noted, education of the public for issues with clean water sources entering the sanitary sewer system will be one of the key components to reduce the effect of inflow on the collection system. Locations of clean water sources entering the collection system will be determined through investigative procedures (smoke testing, dye testing, sewer televising, etc.) performed by the City staff as time allows. When residences are found to have issues with clean water entering the collection system, a letter will be sent to the homeowners informing them of the issue and requesting that the homeowner remove the source. The City of Elkins will include any information collected on inflow sources in the Semi-Annual Report.

The following table provides a summary of the alternatives considered for CSO mitigation for the City of Elkins:

Table No. 13
Summary of Alternatives

Alternative	Construction Cost	Impact on O&M	Other Considerations
Conveyance & Treatment	$25,040,000.00	Significant increase	Issues dealing with wide range of flows
Inflow Reduction	$1,260,00.00	Slight decrease	Little impact on CSOs
Sewer Separation	$25,010,000.00	Significant decrease	Employed for first two phases of improvements
Offline Storage	$23,000,000.00	Increase	Significant odor issues, needs cleaned between uses. Lack of available space
Wet Weather Treatment	$33,100,000.00	Significant increase	Chemical usage, operator supervision, lack of available space

With the limitations for most of the options, the most appropriate CSO control alternative continues to be sewer separation. Two phases of projects have been performed by the City utilizing sewer separation with good success. The City of Elkins will continue utilizing sewer separation as the main alternative to address CSO concerns.

CHAPTER 6

WATER QUALITY CONSIDERATIONS

As noted in the previous section of the LTCP, sewer separation will be the main structural improvement alternative employed by the City of Elkins in improving water quality. This section of the report focuses on a plan to help the City of Elkins meet the goal of the Long-Term Control Plan: meet water quality standards for the Tygart Valley River.

Water Quality

In order to determine the scope of improvements needed to meet water quality standards, it is important to understand the level of treatment required. For CSO communities, the main receiving water constituent that needs to be reviewed is fecal coliform. Water quality standards for fecal coliform in West Virginia are the following:

> *"Maximum allowable level of fecal coliform content for Water Contact Recreation (either MPN or MF) shall not exceed 200/100 ml as a monthly geometric mean based on not less than 5 samples per month; nor to exceed 400/100 ml in more than ten percent of all samples taken during the month."*

These limits are similar to the NPDES permit limits for the discharge from the City of Elkins WWTP. Using this criterion, the plan for the City will be to meet the monthly 200/100 mL count for fecal coliform.

Information contained in Appendix F of this report includes fecal coliform sampling performed by the City of Elkins during the Post Construction Monitoring Report for the Phase 1 sewer separation project. Data was collected at three points along the Tygart Valley River: 1) the Scott Ford Road Boat Ramp; 2) Worth Avenue; and 3) Oak Grove. From the data at the boat ramp (upstream of the impacts from the Elkins collection system), fecal counts during dry weather averaged approximately 72 counts/100 mL for the eleven samples (taken monthly). During wet weather, fecal coliform concentrations increased significantly with the two wet weather results being greater than 600 counts/100 mL.

Worth Avenue samples, which were collected near the mid-point of the Tygart Valley River within the City of Elkins, indicated fecal coliform counts during dry weather regularly above 200 counts/100 mL for the eleven samples (taken monthly). Seven of the months in the sampling period (64%) had coliform counts greater than the water quality standards concentration and four of the samples registered fecal concentrations greater than the maximum testing concentration of 600 counts/100 mL. During wet weather, each of the fecal coliform concentrations increased to over 600 counts/100 mL.

Oak Grove samples, which were collected downstream of all CSOs from Elkins entering the Tygart Valley River, indicated average fecal coliform counts during dry weather of 201 counts/100 mL for the eleven samples (taken monthly). Six of the months in the sampling period (55%) had coliform counts greater than the water quality standards concentration. During wet weather, one of the fecal coliform concentrations was 512 counts/100 mL, while the other was over 600 counts/100 mL.

Elkins will continue to collect water quality samples and compare results to the sampling data contained in the Post Construction Monitoring Report of the Phase 1 project. Information on the results of the fecal coliform sampling for the Phase 2 project is being collected and will be inserted into the Post Construction Monitoring Report for the Phase 2 project.

CHAPTER 7
PLANNED PROJECTS

As noted in previous sections of the LTCP, sewer separation will be the main structural improvement alternative employed by the City of Elkins in improving water quality. In 2022 the City completed a Water and Wastewater Needs Assessment focusing on potable water and wastewater projects. A portion of the assessment analyzed needs associated with developing an implementation schedule for sewer separation project. This schedule was created using a three-phase project with an undefined fourth future phase (Phases 3-5 of the sewer separation projects). The future phase project(s) will be established following completion of the Phase 5 post construction monitoring report.

User Rates

Median household income (MHI) for the City of Elkins is $38,910 based upon 2020 data provided by the US Census Bureau. For an average water usage of 3,400 gallons per month, customers for the City of Elkins pay a rate of $50. 80 per month, which is 1.56% of the MHI.

Funding Sources

Upon the approval of the Long-Term Control Plan, the Board may approach the West Virginia Infrastructure and Jobs Development Council (WVIJDC) for funding recommendations for the proposed improvements. The sources of funds that may be available for constructing sanitary sewers include:

- Small Cities Block Grant
- WVIJDC Loan and/or Grant
- Appalachian Regional Commission (ARC) Grant
- WVDEP State Revolving Fund
- United Stated Department of Agriculture (USDA) Rural Utility Services (RUS) Loan and/or Grant

Using the 3,099 customers listed in the 2023 Public Service Commission of West Virginia (PSC) Annual Report, the information contained in the following table indicates the size of project the Board could complete to increase annual sewer rates to a certain amount of the City's MHI:

Table No. 14
Estimated Project to be Funded

% MHI	Rate	Loan Amount (3%, 20 years)	Loan Amount (0%, 40 years)
1.75	$56.74	$3,280,000	$8,840,000
2.00	$64.85	$7,800,000	$20,900,000

For other communities in the State of West Virginia, the affordability criteria for rates as a percentage of MHI is 1.75%. In reviewing the project costs that would increase Elkins rates to the 1.75% threshold, the total project costs would be $3,280,000 based upon the 3%, 20 year loan option.

Recently Completed Implementation Activities

To assist the Board staff in identifying infiltration/inflow (I/I) sources within the collection system, the Board purchased a closed-circuit televising (CCTV) truck. Delivery of the CCTV truck was completed in October 2018.

In January of 2022, fourteen flow meters were purchased to be installed on the remaining CSO outfalls. Installation of the flow meters was completed in May 2022. Results from the flow metering were used in the Post Construction Monitoring Report for the Combined Sewer System Improvements, Phase 2 project.

Smaller Projects

In 2022, the City completed a Water and Wastewater Needs Assessment to allow City Council to capitalize on funding opportunities and ensure future projects address the critical needs of the systems. For the wastewater system, the following table contains the smaller projects being considered over the next 10-years:

Table No. 15
Summary of Potential Wastewater System Improvements

Component	Construction Costs
Rolling Stock	
Service Truck (2)	$360,000
Superintendent Truck	$90,000
Supervisors Truck	$50,000
Dump Truck	$120,000
Wastewater Collection System	
North Interceptor Sewer Cleaning	$200,000
South Interceptor Sewer Cleaning	$80,000
AutoZone Sewer Cleaning	$70,000
Dairy Street Sewer Relocation	$320,000
Lift Stations	
Barron Avenue	$400,000
Cherokee	$630,000
Glendale	$610,000
Steward Avenue	$280,000
Reidboard	$170,000
AB Andrews	$260,000
Vector	$400,000
Whiteman	$400,000
15th Street	$180,000
Teaberry Hills	$420,000
Old Plant	$80,000
CSOs	
CSO 005	$120,000
CSO 009	$80,000
CSO 016	$200,000
CSO 020	$50,000
Facilities	
Building at Old WWTP	$50,000

Larger Projects

In order to meet the requirements of the USEPA and WVDEP, an additional three phases of improvements have been proposed for the City of Elkins. Phases were chosen to allow the City sufficient time to complete construction of the improvements and then perform post-construction monitoring to determine the effects of the improvements on the system. Appendix N contains a map of the proposed improvement locations for the three phases. Appendix O includes detailed cost estimates for each of the proposed phases of sewer separation. Information in the following sections lists the improvements associated with each phase.

Phase 3

Improvements proposed for this phase of the implementation plan includes two separate projects: 1) Steward Avenue Separation and 2) South Interceptor Realignment. Descriptions of the improvements are provided below:

- Redirect the south interceptor from the Cherokee Lift Station to the Glendale Lift Station, thus minimizing the impact of flows from the south interceptor impacting the north interceptor.
- Sewer separation occurring in the collection system upstream from the Steward Avenue Lift Station.

Project costs for the combined Phase 3 project are approximately $7,760,000. It is anticipated that the sewer rates will need to be increased by $14.03 (28% increase in rates) based upon an assumed 3%, 20 year loan. This suggests that the new rate will be $64.83, which is approximately 2.00% of the MHI for the City.

Phase 4

Improvements proposed for this phase of the implementation plan includes the Central Avenue Sewer Separation. This proposed construction is a continuation of the Wilson Avenue sewer separation that occurred during the Phase 1 project.

Project costs for the combined Phase 4 project are approximately $3,120,000. It is anticipated that the sewer rates will need to be increased by $5.64 (8.7% increase in rates) based upon an assumed 3%, 20 year loan. This suggests that the new rate will be $70.47, which is approximately 2.17% of the MHI for the City.

Phase 5

Improvements proposed for this phase of the implementation plan includes three separate projects: 1) Boundary Avenue/Buffalo Street Sewer Separation and 2) Wastewater Treatment Plant Improvements, Phase 2. Descriptions of the improvements are provided below:

- Boundary Avenue/Buffalo Street – includes addressing storm drainage in the area, which can lead to ponding of water. Installing a new storm drainage system would mitigate the impacts of storm flows on the wastewater collection system in the area. For Boundary Avenue, new storm sewers would be installed from the intersection of Terrace Avenue to the proposed discharge point in Wees Run. Improvements along Buffalo Street include new sanitary sewers along with connections to the existing Buffalo Creek culvert for storm drains from the intersection with Sycamore Street to the intersection with Randolph Avenue.
- WWTP Improvements, Phase 2 – includes the following improvements to the facility:
  - Site work
  - Preliminary treatment building rehabilitation
  - Clarifier rehabilitation
  - WAS/RAS pump station rehabilitation
  - Decant tank screen replacement
  - Solids handling improvements
  - Generator improvements
  - Operations building improvements

Project costs for the combined Phase 5 project are approximately $5,830,000. It is anticipated that the sewer rates will need to be increased by $10.54 (15% increase in rates) based upon an assumed 3%, 20 year loan. This suggests that the new rate will be $81.01, which is approximately 2.50% of the MHI for the City.

CHAPTER 8
IMPLEMENTATION SCHEDULE

As previously noted, the City has proposed three phases of improvements to the collection system within this long-term control plan. The phases and proposed activities are outlined as follows:

Phase 3 – The Board will complete the following items associated with Phase 3:

1. Design and construct the Steward Avenue Sewer Separation and relocation of the South Interceptor. Complete design of Phase 3 by no later than January 31, 2025.

2. Complete construction of the Phase 3 project by no later than May 31, 2026.

3. Submit post construction monitoring evaluation following completion of the construction of Phase 3 improvement by no later than February 28, 2027.

Phase 4 – The City of Elkins will complete the following items associated with Phase 4:

1. Design and construct the Central Avenue Sewer Separation project. Complete design of Phase 4 by no later than August 31, 2028.

2. Complete construction of the Phase 4 project by no later than December 31, 2029.

3. Submit post construction monitoring evaluation following completion of the construction of Phase 4 improvement by no later than December 31, 2030.

Phase 5 – The City of Elkins will complete the following items associated with Phase 5:

1. Design and construct the Boundary Avenue/Buffalo Street Sewer Separation and the second phase of WWTP improvements. Complete design of Phase 5 by no later than June 30, 2032.

2. Complete construction of the Phase 5 project by no later than December 31, 2033.

3. Submit post construction monitoring evaluation following completion of the construction of Phase 5 improvement by no later than June 30, 2035.

Phase 6 – At the completion of Phase 5, the Board will review information from the post construction monitoring reports prepared during the first three phases of the Implementation Schedule. Should the need arise to make further improvements to the collection system associated with sewer separation, another phase will be conducted that will either remove the outfalls or will provide sufficient disinfection at the outfalls to meet the water quality standard for fecal coliform. Based upon this information, the estimated timeframe for tasks associated with this phase of the Implementation Schedule follows:

4. Complete design of Phase 6 by no later than December 31, 2036.

5. Complete construction of the Phase 6 project by no later than June 30, 2038.

6. Submit post construction monitoring evaluation following completion of the construction of Phase 6 improvement by no later than December 31, 2039.

Following each phase of improvements, the City will review information from the post construction monitoring reports. Based upon the information from the reports, the City may choose to remove projects from the schedule and add new projects that would have a greater effect on water quality of the Tygart Valley River. If the Implementation Schedule needs to be altered, the City will work with WVDEP to modify the terms of the Long-Term Control Plan.

CHAPTER 9
POST CONSTRUCTION MONITORING

Currently, there is no guidance available from USEPA on post construction monitoring for CSO improvements. However, in discussions with WVDEP and USEPA, the City will need to determine a course of action to verify the effect of improvements on the system associated with the improvements. Effects of the improvements will be evaluated by two methods: 1) flow metering and 2) water quality analyses.

Flow Metering

Similar to work that is currently being performed by the City of Elkins; CSO outfalls will have meters placed in the discharge pipes to determine the activation of CSOs during storm events. It is anticipated that the flow metering will occur for six months following completion of the improvements projects. Following the metering period, information will be assembled for each of the post construction metered outfalls and an analysis will be made between metering conducted prior to the improvements projects to determine the reduction in overflow events associated with the improvements projects. As the City owns fourteen flow meters, each should be analyzed to determine impacts from the improvements.

Water Quality Analyses

As a baseline for the water quality analyses, water quality data collected by the City of Elkins in 2016 and included in Appendix F will be used for analysis of the improvement projects listed in the Implementation Schedule. Analyses will be taken for dry weather (one sample per month) at each location and for a minimum of three wet weather events (wet weather events will be considered as events that are greater than 0.50-inches of rain within an eight hour period). Monitoring will occur for a six-month period. For wet weather events, two samples will be taken – one within 1 hour of the completion of the event and the second sample taken 12 hours following completion of the event.

As the improvements projects listed in the Implementation Schedule are directed at addressing the north and south interceptors (and these interceptors are located directly across the Tygart Valley River from each other), it is anticipated that sampling will occur downstream of the last CSO serving these interceptors (CSO 008). The following lists sampling that is anticipated for both phases of the Implementation Schedule:

Dry Weather – Sampling will occur monthly for three locations: 1) Scott Ford Road Boat Ramp; 2) Downstream of CSO 008 (Worth Avenue); and 3) River behind Oak Grove. A single grab sample will be collected at each location.

Wet Weather – Sampling will occur at the same three locations as dry weather. Samples will be taken 1 hour following completion of the storm event and an additional sample taken 12 hours following completion of the storm event.

Reporting

The City of Elkins will prepare a single "Post Construction Monitoring Report" following each phase of improvements as listed in the Implementation Schedule. It is anticipated that each report will be submitted twelve months following completion of the improvements; however, dependent upon rainfall events, the report may need to be delayed until sufficient information is available. If this occurs, the City of Elkins will inform the WVDEP prior to the due date. Contents of the report are presented below:

- Rainfall data
- Flow metering data
- Water quality data
- Summary of the effects of the improvements project
- Recommendation on whether the implementation schedule should be altered

Appendix A

NPDES Permit

west virginia department of environmental protection

Division of Water and Waste Management
601 57th Street SE
Charleston, West Virginia 25304-2345
Phone: 304-926-0495/Fax: 304-926-0496

Harold D. Ward, Cabinet Secretary
https://dep.wv.gov

June 23, 2022

HONORABLE JERRY MARCO
ELKINS, CITY OF
401 DAVIS AVE
ELKINS, WV 26241

CERTIFIED RETURN RECEIPT REQUESTED

Dear Permittee:

Enclosed please find WV/NPDES Permit Number WV0020028 dated June 23, 2022.

Please note that a Discharge Monitoring Report (DMR) is to be completed and submitted to this Division each month.

Finally note that copies of all future correspondence regarding the permit must be forwarded to the Field Inspector and Field Supervisor at the following address:

Department of Environmental Protection
Environmental Enforcement
22288 Northwestern Pike
Romney, WV 26757

Also, please note the attachment to this permit which describes the annual permit fee requirement. Reissuance of your permit does not change the annual fee billing cycle.

If you have any questions, please contact Sybil Meikle of this Division at (304) 926-0499 at extension 43816, or by email at sybil.f.meikle@wv.gov.

Sincerely,

Katheryn Emery, P. E.

KE:sm

Enclosures

Permit Number: WV0020028

Permittee: ELKINS, CITY OF

cc: Bureau of Public Health
Construction Assistance
Env. Insp. Supv.
Env. Insp.
Public Service Commission
US EPA

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER AND WASTE MANAGEMENT
601 57TH STREET SE
CHARLESTON, WV 25304-2345

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
WATER POLLUTION CONTROL PERMIT

NPDES PERMIT NO.: WV0020028
SUBJECT: Sewage

ISSUE DATE: June 23, 2022
EFFECTIVE DATE : August 01, 2022
EXPIRATION DATE: June 22, 2027
SUPERSEDES: Permit No. WV0020028 dated October 26, 2017

LOCATION:	ELKINS	Randolph	Tygart Valley River
	(City)	**(County)**	**(Drainage Basin)**

See the next page for a list of Outlets.

TO WHOM IT MAY CONCERN:

This is to certify that: ELKINS, CITY OF
401 DAVIS AVE
ELKINS, WV 26241

is hereby granted a West Virginia NPDES Water Pollution Control Permit to:
To operate and maintain an existing 4.99 million gallon per day (MGD) combined sewage collection and wastewater treatment system. The combined collection system consists of approximately 200 linear feet of four (4) inch diameter gravity sewer line, 19,570 linear feet of six (6) inch diameter gravity sewer line, 80,745 linear feet of eight (8) inch diameter gravity sewer line, 43,176 linear feet of 10 inch diameter gravity sewer line, 31,939 linear feet of 12 inch diameter gravity sewer line, 10,100 linear feet of 15 inch diameter gravity sewer line, 10,400 linear feet of 18 inch diameter gravity sewer line, 3,400 linear feet of 21 inch diameter gravity sewer line, 6,600 linear feet of 24 inch diameter gravity sewer line, 650 linear feet of 27 inch diameter gravity sewer line, 2,300 linear feet of 30 inch diameter gravity sewer line, 350 linear feet of 36 inch diameter gravity sewer line, 553 manholes, 8 cleanouts, 11 lift stations, 425 linear feet of four (4) inch force main, 7,000 linear feet of six (6) inch force main, 2,700 linear feet of eight (8) inch force main, 4,500 linear feet of 10 inch force main, 400 linear feet of 12 inch force main, 2,800 linear feet of 18 inch force main, and other necessary appurtenances. The wastewater treatment system (oxidation ditch) consists of an automatic bar screen, a grit removal unit, a 1.925 million gallon oxidation ditch, three (3) brush aerators with 40 HP motors for each, a 25 HP blower, a 40 HP blower, and two (2) 75 HP blowers, two (2) 241,050 gallon circular clarifiers, a 1.2 million gallon circular clarifier, two (2) 2,500 gpm ultraviolet (UV) light disinfection units, a 44,600 gallon post aeration tank, a 115,500 gallon aerated sludge decant tank, a 188,000 gallon aerated sludge holding tank, two (2) 1.5 meter belt presses, and all other necessary appurtenances.

Also, to operate and maintain disposal systems, best management practices, and the nine minimum controls for the direct discharge of sanitary wastewater and storm water from Combined Sewer Overflow (CSO) Outlets C002-C008, C011, and C016-C020 to the Tygart Valley River and Outlet C009 to an unnamed tributary of Craven Run of Leading Creek, a tributary of the Tygart Valley River. These CSO Outlets are permitted to discharge only when the hydraulic capacity of the collection system is exceeded during wet weather events.

This system is designed to serve a population equivalent of about 50,000 persons within the City of Elkins, the Leadsville Public Service District, the Midland Public Service District and discharges treated and disinfected

wastewater to the Tygart Valley River via Outlet 001 approximately 66.5 miles from its mouth, of the Monongahela River.

Also, to operate and maintain disposal systems and best management practices for the direct discharge of untreated storm water runoff from the WWTP site from Outlet 002 to the Tygart Valley River.

The City of Elkins also accepts non-domestic pretreatment waste from the Elkins Water Treatment Plant, the Elkins Landfill, Lohr and Barb Funeral Home, Tomblyn's Funeral Home, and Big Timber Brewing Company.

This permit is subject to the following terms and conditions :
The information submitted on and with Permit Application No. WV0020028, dated the 22nd day of December 2021, and additional information received January 28, 2022, is all hereby made terms and conditions of this Permit with like effect as if all such Permit application information was set forth herein, and with other conditions set forth in Sections A, B, C, D, E, F and Appendix A.

The validity of this permit is contingent upon the payment of the applicable annual permit fee, as required by Chapter 22, Article 11, Section 10 of the Code of West Virginia.

Inspectable Unit	Latitude	Longitude	Receiving Stream	Dist. to Stream Mouth (in Mile)	Milepost
001	38°55'12"	79°51'52"	TYGART VALLEY RV	N/A	66.5
002	38°55'12"	79°51'52"	TYGART VALLEY RV	N/A	66.5
C002	38°55'00"	79°50'46"	TYGART VALLEY RV -- No Monitoring Required	N/A	65.7
C003	38°56'04"	79°50'29"	TYGART VALLEY RV -- No Monitoring Required	N/A	65.8
C004	38°55'23"	79°50'49"	TYGART VALLEY RV -- No Monitoring Required	N/A	65.9
C005	38°55'25"	79°50'54"	TYGART VALLEY RV -- No Monitoring Required	N/A	66
C006	38°55'28"	79°50'59"	TYGART VALLEY RV -- No Monitoring Required	N/A	66.1
C007	38°55'28"	79°51'06"	TYGART VALLEY RV -- No Monitoring Required	N/A	66.2
C008	38°55'32"	79°51'28"	TYGART VALLEY RV -- No Monitoring Required	N/A	66.3
C009	38°56'38"	79°51'36"	Unnamed Tributary Of CRAVEN RN -- No Monitoring Required	0.1	N/A
C011	38°55'35"	79°52'20"	TYGART VALLEY RV -- No Monitoring Required	N/A	66.8
C016	38°55'23"	79°51'02"	TYGART VALLEY RV -- No Monitoring Required	N/A	66.2
C017	38°55'22"	79°50'57"	TYGART VALLEY RV -- No Monitoring Required	N/A	66.2
C018	38°55'22"	79°50'52"	TYGART VALLEY RV -- No Monitoring Required	N/A	66
C019	38°55'20"	79°50'48"	TYGART VALLEY RV -- No Monitoring Required	N/A	65.9
C020	38°55'27"	79°51'59"	TYGART VALLEY RV -- No Monitoring Required	N/A	66.7
IU06	38°55'12"	79°51'52"	N/A	N/A	N/A
IU15	38°55'12"	79°55'12"	N/A	N/A	N/A
IU18	38°55'12"	79°51'52"	N/A	N/A	N/A
IU19	38°55'12"	79°51'52"	N/A	N/A	N/A
IU20	38°55'12"	79°51'52"	N/A	N/A	N/A
S01	38°55'12"	79°51'52"	N/A	N/A	N/A

A.001 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Permit Limits

During the period beginning 8/1/2022 and lasting through midnight 6/22/2027 the permittee is authorized to discharge from Outlet Number(s) 001 (Sanitary)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
50050 - (Flow,in Conduit or thru plant) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mgd	Continuous	measured
00310 - (BOD, 5-Day 20 Deg.C) (Year Round) (ML-B) (RF-A)	624.2 Avg. Monthly	1248.5 Max. Daily	Lbs/Day	N/A	15 Avg. Monthly	30 Max. Daily	mg/l	1/week	8 hr comp
00530 - (Total Suspended Solids) (Year Round) (ML-A) (RF-A)	1248.5 Avg. Monthly	2497 Max. Daily	Lbs/Day	N/A	30 Avg. Monthly	60 Max. Daily	mg/l	1/week	8 hr comp
81010 - (BOD, % Removal) (Year Round) (ML-K) (RF-A)	N/A	N/A	N/A	85 Month. Avg. Min.	N/A	N/A	Percent	1/week	Calculated
81011 - (Suspended Solids, % Remova (Year Round) (ML-K) (RF-A)	N/A	N/A	N/A	85 Month. Avg. Min.	N/A	N/A	Percent	1/week	Calculated
74055 - (Coliform, Fecal) (Year Round) (ML-A) (RF-A)	N/A	N/A	N/A	N/A	200 Mon. Geo. Mean	400 Max. Daily	Cnts/100ml	1/week	Grab
00400 - (pH) (Year Round) (ML-A) (RF-A)	N/A	N/A	N/A	6 Inst. Min.	N/A	9 Inst. Max.	S.U.	1/week	Grab
00300 - (Dissolved Oxygen) (Year Round) (ML-A) (RF-A)	N/A	N/A	N/A	7.25 Inst. Min.	N/A	N/A	mg/l	1/week	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Effluent BOD5 samples shall be collected at a location immediately preceding disinfection. Other effluent samples shall be collected at or as near as possible to the point of discharge.

This discharge shall comply with Appendix A - I MANAGEMENT CONDITIONS I - 12.

A.001 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Permit Limits

During the period beginning 8/1/2022 and lasting through midnight 6/22/2027 the permittee is authorized to discharge from Outlet Number(s) 001 (Sanitary)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
00610 - (Ammonia Nitrogen) (Year Round) (ML-A) (RF-A)	41.6 Avg. Monthly	83.2 Max. Daily	Lbs/Day	N/A	1 Avg. Monthly	2 Max. Daily	mg/l	1/week	8 hr comp
00665 - (Phosphorus, Total) (Summer May 1-Oct 31) (ML-A) (RF-A)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	2/month	8 hr comp
Refer to Section C.30.									
01119 - (Copper, Total Recoverable) (Year Round) (ML-A) (RF-A)	N/A	N/A	N/A	N/A	0.006 Avg. Monthly	0.012 Max. Daily	mg/l	1/month	8 hr comp
01114 - (Lead, Total Recoverable) (Year Round) (ML-A) (RF-A)	N/A	N/A	N/A	N/A	0.002 Avg. Monthly	0.005 Max. Daily	mg/l	1/month	8 hr comp
01094 - (Zinc, Total Recoverable) (Year Round) (ML-A) (RF-A)	N/A	N/A	N/A	N/A	0.054 Avg. Monthly	0.106 Max. Daily	mg/l	1/month	8 hr comp
01002 - (Arsenic, Total (as As)) (Year Round) (ML-A) (RF-D)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/year	8 hr comp
01113 - (Cadmium, Total Recoverable) (Year Round) (ML-A) (RF-D)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/year	8 hr comp
01032 - (Chromium, Hexavalent) (Year Round) (ML-A) (RF-D)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/year	8 hr comp

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Effluent BOD5 samples shall be collected at a location immediately preceding disinfection. Other effluent samples shall be collected at or as near as possible to the point of discharge.

This discharge shall comply with Appendix A - I MANAGEMENT CONDITIONS I - 12.

A.001 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Permit Limits

During the period beginning 8/1/2022 and lasting through midnight 6/22/2027 the permittee is authorized to discharge from Outlet Number(s) 001 (Sanitary)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
00718 - (Cyanide, Weak Acid Dissocia (Year Round) (ML-A) (RF-D)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/year	Grab
71900 - (Mercury, Total (as Hg)) (Year Round) (ML-A) (RF-D)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	ug/l	1/year	Grab
01074 - (Nickel, Total Recoverable) (Year Round) (ML-A) (RF-D)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/year	8 hr comp
01079 - (Silver, Total Recoverable) (Year Round) (ML-A) (RF-D)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/year	8 hr comp
00900 - (Hardness, Total (as CaCO3)) (Year Round) (ML-6) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
See Section C.31 of this permit for further information and instructions.									
01104 - (Aluminum, Total Recoverable) (Year Round) (ML-A) (RF-D)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/year	8 hr comp
61426 - (Chronic Tox-Ceriodaphnia Du (Year Round) (ML-A) (RF-D)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	TUc	1/year	8 hr comp
61428 - (Chronic Toxicity - Pimephales (Year Round) (ML-A) (RF-D)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	TUc	1/year	8 hr comp

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Effluent BOD5 samples shall be collected at a location immediately preceding disinfection. Other effluent samples shall be collected at or as near as possible to the point of discharge.

This discharge shall comply with Appendix A - I MANAGEMENT CONDITIONS I - 12.

A.002 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Permit Limits

During the period beginning 8/1/2022 and lasting through midnight 6/22/2027 the permittee is authorized to discharge from Outlet Number(s) 002 (Storm Water Runoff)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
50050 - (Flow,in Conduit or thru plant) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mgd	1/6 months	Estimated
00310 - (BOD, 5-Day 20 Deg.C) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00530 - (Total Suspended Solids) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
74055 - (Coliform, Fecal) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Mon. Geo. Mean	400 Max. Daily	Cnts/100ml	1/6 months	Grab
00400 - (pH) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	Rpt Only Inst. Min.	N/A	Rpt Only Inst. Max.	S.U.	1/6 months	Grab
00610 - (Ammonia Nitrogen) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
81017 - (Chem. Oxygen Demand) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00552 - (Oil and Grease, Hexane EXTF (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Samples shall be collected at or as close as possible to the point of discharge. Additional terms concerning this stormwater outfall are found in Section C.25 through C.28 of this permit.

This discharge shall comply with Appendix A - I MANAGEMENT CONDITIONS I - 12.

A.IU06 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Permit Limits

During the period beginning 8/1/2022 and lasting through midnight 6/22/2027 the permittee is authorized to accept the discharge from Outlet Number(s) IU06 (Pretreatment - Significant Industrial User)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
00056 - (Flow Rate) (Year Round) (ML-4) (RF-A)	Rpt Only Avg. Monthly	50000 Max. Daily	gpd	N/A	N/A	N/A	N/A	1/daily	Estimated
00310 - (BOD, 5-Day 20 Deg.C) (Year Round) (ML-4) (RF-A)	Rpt Only Avg. Monthly	210 Max. Daily	Lbs/Day	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	2/month	Comp
00530 - (Total Suspended Solids) (Year Round) (ML-4) (RF-A)	Rpt Only Avg. Monthly	Rpt Only Max. Daily	Lbs/Day	N/A	Rpt Only Avg. Monthly	300 Max. Daily	mg/l	2/month	Comp
00625 - (Nitrogen, Kjeldahl Total) (Year Round) (ML-4) (RF-A)	Rpt Only Avg. Monthly	21 Max. Daily	Lbs/Day	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	2/month	Comp
01002 - (Arsenic, Total (as As)) (Year Round) (ML-4) (RF-A)	Rpt Only Avg. Monthly	Rpt Only Max. Daily	Lbs/Day	N/A	Rpt Only Avg. Monthly	0.01 Max. Daily	mg/l	2/month	Comp
71900 - (Mercury, Total (as Hg)) (Year Round) (ML-4) (RF-A)	Rpt Only Avg. Monthly	Rpt Only Max. Daily	Lbs/Day	N/A	Rpt Only Avg. Monthly	0.0005 Max. Daily	mg/l	2/month	Grab
01027 - (Cadmium, Total (as Cd)) (Year Round) (ML-4) (RF-A)	Rpt Only Avg. Monthly	Rpt Only Max. Daily	Lbs/Day	N/A	Rpt Only Avg. Monthly	0.005 Max. Daily	mg/l	2/month	Comp
01042 - (Copper, Total (as Cu)) (Year Round) (ML-4) (RF-A)	Rpt Only Avg. Monthly	Rpt Only Max. Daily	Lbs/Day	N/A	Rpt Only Avg. Monthly	0.4 Max. Daily	mg/l	2/month	Comp

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Elkins Landfill: Refer to Sections E.2.a.2 and E.2.b.2 for sampling and monitoring requiremnts

A.IU06 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Permit Limits

During the period beginning 8/1/2022 and lasting through midnight 6/22/2027 the permittee is authorized to accept the discharge from Outlet Number(s) IU06 (Pretreatment - Significant Industrial User)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
01051 - (Lead, Total (as Pb))	Rpt Only	Rpt Only	Lbs/Day	N/A	Rpt Only	0.05	mg/l	2/month	Comp
(Year Round) (ML-4) (RF-A)	Avg. Monthly	Max. Daily			Avg. Monthly	Max. Daily			
01077 - (Silver, Total (as Ag))	Rpt Only	Rpt Only	Lbs/Day	N/A	Rpt Only	0.1	mg/l	2/month	Comp
(Year Round) (ML-4) (RF-A)	Avg. Monthly	Max. Daily			Avg. Monthly	Max. Daily			
01092 - (Zinc, Total (as Zn))	Rpt Only	Rpt Only	Lbs/Day	N/A	Rpt Only	0.5	mg/l	2/month	Comp
(Year Round) (ML-4) (RF-A)	Avg. Monthly	Max. Daily			Avg. Monthly	Max. Daily			
01067 - (Nickel, Total (as Ni))	Rpt Only	Rpt Only	Lbs/Day	N/A	Rpt Only	0.2	mg/l	2/month	Comp
(Year Round) (ML-4) (RF-A)	Avg. Monthly	Max. Daily			Avg. Monthly	Max. Daily			

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Elkins Landfill: Refer to Sections E.2.a.2 and E.2.b.2 for sampling and monitoring requiremnts

A.IU15 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Permit Limits

During the period beginning 8/1/2022 and lasting through midnight 6/22/2027 the permittee is authorized to accept the discharge from Outlet Number(s) IU15 (Pretreatment - Significant Industrial User)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
00056 - (Flow Rate)	Rpt Only	70000	gpd	N/A	N/A	N/A	N/A	1/daily	Estimated
(Year Round) (ML-4) (RF-A)	Avg. Monthly	Max. Daily							
00530 - (Total Suspended Solids)	Rpt Only	Rpt Only	Lbs/Day	N/A	Rpt Only	200	mg/l	1/month	Comp
(Year Round) (ML-4) (RF-A)	Avg. Monthly	Max. Daily			Avg. Monthly	Max. Daily			
01042 - (Copper, Total (as Cu))	Rpt Only	Rpt Only	Lbs/Day	N/A	Rpt Only	0.05	mg/l	1/month	Comp
(Year Round) (ML-4) (RF-A)	Avg. Monthly	Max. Daily			Avg. Monthly	Max. Daily			
01105 - (Aluminum, Total (as Al))	Rpt Only	Rpt Only	Lbs/Day	N/A	Rpt Only	Rpt Only	mg/l	1/month	Comp
(Year Round) (ML-4) (RF-A)	Avg. Monthly	Max. Daily			Avg. Monthly	Max. Daily			
01092 - (Zinc, Total (as Zn))	Rpt Only	Rpt Only	Lbs/Day	N/A	Rpt Only	0.1	mg/l	1/month	Comp
(Year Round) (ML-4) (RF-A)	Avg. Monthly	Max. Daily			Avg. Monthly	Max. Daily			
01045 - (Iron, Total (as Fe))	Rpt Only	Rpt Only	Lbs/Day	N/A	Rpt Only	Rpt Only	mg/l	1/month	Comp
(Year Round) (ML-4) (RF-A)	Avg. Monthly	Max. Daily			Avg. Monthly	Max. Daily			

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Elkins Water Plant: Refer to sections E.2.a.3 and E.2.b.3 for additional sampling and monitoring requirements.

A.IU20 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Permit Limits

During the period beginning 8/1/2022 and lasting through midnight 6/22/2027 the permittee is authorized to accept the discharge from Outlet Number(s) IU20 (Pretreatment - Non Significant Industrial User)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units	Other Units			Units	Measurement Frequency	Sample Type
00056 - (Flow Rate) (Year Round) (ML-4) (RF-A)	Rpt Only Avg. Monthly	5000 Max. Daily	gpd	N/A	N/A	N/A	N/A	1/daily	Estimated
00310 - (BOD, 5-Day 20 Deg.C) (Year Round) (ML-4) (RF-A)	Rpt Only Avg. Monthly	Rpt Only Max. Daily	Lbs/Day	N/A	Rpt Only Avg. Monthly	6000 Max. Daily	mg/l	1/month	Comp
00530 - (Total Suspended Solids) (Year Round) (ML-4) (RF-A)	Rpt Only Avg. Monthly	Rpt Only Max. Daily	Lbs/Day	N/A	Rpt Only Avg. Monthly	2000 Max. Daily	mg/l	1/month	Comp
00400 - (pH) (Year Round) (ML-4) (RF-A)	N/A	N/A	N/A	5 Inst. Min.	N/A	10 Inst. Max.	S.U.	1/month	Grab
00625 - (Nitrogen, Kjeldahl Total) (Year Round) (ML-4) (RF-A)	Rpt Only Avg. Monthly	Rpt Only Max. Daily	Lbs/Day	N/A	Rpt Only Avg. Monthly	100 Max. Daily	mg/l	1/month	Comp
01042 - (Copper, Total (as Cu)) (Year Round) (ML-4) (RF-A)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	0.08 Max. Daily	mg/l	1/month	Comp
01092 - (Zinc, Total (as Zn)) (Year Round) (ML-4) (RF-A)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	0.5 Max. Daily	mg/l	1/month	Comp
00011 - (Temperature, F) (Year Round) (ML-4) (RF-A)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	DEG.F	1/month	Insitu

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Big Timber Brewing Company. Refer to Section E.2.a.6 and E.2.b.6 for sampling and monitoring requirements.

A.S01 SEWAGE SLUDGE LIMITATIONS AND MONITORING REQUIREMENTS:

Permit Limits

During the period beginning 8/1/2022 and lasting through midnight 6/22/2027 the permittee is authorized to dispose sludge in accordance with the following from Outlet Number S01 (Sludge)

Effluent Characteristic	Quantity		Units	Limitations	Other Units		Units	Monitoring Requirements: Measurement Frequency	Monitoring Requirements: Sample Type
00400 - (pH) (Year Round) (ML-+) (RF-B)	N/A	N/A	N/A	Rpt Only Minimum	N/A	Rpt Only Maximum	S.U.	1/quarter	Grab
61521 - (Arsenic, Sludge Tot. Dry Wt.) (Year Round) (ML-+) (RF-B)	N/A	N/A	N/A	N/A	N/A	20 Maximum	mg/kg	1/quarter	1 Week Comp
78476 - (Cadmium,Sludge,Tot Dry Wt.) (Year Round) (ML-+) (RF-B)	N/A	N/A	N/A	N/A	N/A	39 Maximum	mg/kg	1/quarter	1 Week Comp
78473 - (Chromium, Dry Wt.) (Year Round) (ML-+) (RF-B)	N/A	N/A	N/A	N/A	N/A	1000 Maximum	mg/kg	1/quarter	1 Week Comp
78475 - (Copper,Sludge,Tot,Dry Wt.) (Year Round) (ML-+) (RF-B)	N/A	N/A	N/A	N/A	N/A	1500 Maximum	mg/kg	1/quarter	1 Week Comp
78468 - (Lead, Dry. Wt.) (Year Round) (ML-+) (RF-B)	N/A	N/A	N/A	N/A	N/A	250 Maximum	mg/kg	1/quarter	1 Week Comp
78471 - (Mercury, Dry Wt.) (Year Round) (ML-+) (RF-B)	N/A	N/A	N/A	N/A	N/A	10 Maximum	mg/kg	1/quarter	1 Week Comp
78465 - (Molybdenum,Dry Wgt) (Year Round) (ML-+) (RF-B)	N/A	N/A	N/A	N/A	N/A	18 Maximum	mg/kg	1/quarter	1 Week Comp

Sludge

A.S01 SEWAGE SLUDGE LIMITATIONS AND MONITORING REQUIREMENTS:

Permit Limits

During the period beginning 8/1/2022 and lasting through midnight 6/22/2027 the permittee is authorized to dispose sludge in accordance with the following from Outlet Number S01 (Sludge)

Effluent Characteristic	Quantity		Units	Limitations	Other Units		Units	Monitoring Requirements: Measurement Frequency	Monitoring Requirements: Sample Type
78469 - (Nickel, Dry Wt.) (Year Round) (ML-+) (RF-B)	N/A	N/A	N/A	N/A	N/A	200 Maximum	mg/kg	1/quarter	1 Week Comp
49031 - (Selenium,Sludge,Tot. Dry Wt. (Year Round) (ML-+) (RF-B)	N/A	N/A	N/A	N/A	N/A	36 Maximum	mg/kg	1/quarter	1 Week Comp
78467 - (Zinc, Dry Wt.) (Year Round) (ML-+) (RF-B)	N/A	N/A	N/A	N/A	N/A	2800 Maximum	mg/kg	1/quarter	1 Week Comp
00916 - (Calcium, Total (as Ca)) (Year Round) (ML-+) (RF-B)	N/A	N/A	N/A	N/A	N/A	Rpt Only Maximum	mg/kg	1/quarter	1 Week Comp
61553 - (Solids, Total Sludge Percent) (Year Round) (ML-+) (RF-B)	N/A	N/A	N/A	Rpt Only Minimum	Rpt Only Avg.	Rpt Only Maximum	Percent	1/quarter	1 Week Comp
78472 - (Potassium, Sludge Tot. Dry W (Year Round) (ML-+) (RF-B)	N/A	N/A	N/A	N/A	N/A	Rpt Only Maximum	mg/kg	1/quarter	1 Week Comp
78478 - (Phosphorus,Sludge,Tot,Dry W (Year Round) (ML-+) (RF-B)	N/A	N/A	N/A	N/A	N/A	Rpt Only Maximum	mg/kg	1/quarter	1 Week Comp
82294 - (Nitrogen, Ammonia Tot. DW) (Year Round) (ML-+) (RF-B)	N/A	N/A	N/A	N/A	N/A	Rpt Only Maximum	mg/kg	1/quarter	1 Week Comp

Sludge

A.S01 SEWAGE SLUDGE LIMITATIONS AND MONITORING REQUIREMENTS:

Permit Limits

During the period beginning 8/1/2022 and lasting through midnight 6/22/2027 the permittee is authorized to dispose sludge in accordance with the following from Outlet Number S01 (Sludge)

Effluent Characteristic	Quantity		Units	Limitations	Other Units		Units	Monitoring Requirements: Measurement Frequency	Monitoring Requirements: Sample Type
78470 - (Nitrogen, Sludge Tot. Dry Wt) (Year Round) (ML-+) (RF-B)	N/A	N/A	N/A	N/A	N/A	Rpt Only Maximum	mg/kg	1/quarter	1 Week Comp
51020 - (Organic Nitrogen) (Year Round) (ML-+) (RF-B)	N/A	N/A	N/A	N/A	N/A	Rpt Only Maximum	mg/kg	1/quarter	1 Week Comp
00927 - (Magnesium,Tot (as Mg)) (Year Round) (ML-+) (RF-B)	N/A	N/A	N/A	N/A	N/A	Rpt Only Maximum	mg/kg	1/quarter	1 Week Comp
31641 - (Fecal Coliform (Sludge)) (Year Round) (ML-+) (RF-B)	N/A	N/A	N/A	N/A	N/A	Rpt Only Maximum	col/gr	1/quarter	Grab

Sludge

B. SCHEDULE OF COMPLIANCE

1. **The permitee shall achieve compliance with the provisions for waste treatment and the monitoring requirements specified in the permit in accordance with the following schedule :**

   Effective date of permit.

2. **Reports of compliance or non-compliance with, and progress reports on interim and final requirements contained in the above compliance schedule, if any, shall be postmarked no later than 14 days following each schedule date.**

Section C - Other Requirements

1. The herein-described treatment works, structures, electrical and mechanical equipment shall be adequately protected from physical damage by the maximum expected one hundred (100) year flood level and operability be maintained during the twenty-five (25) year flood level.
2. The entire sewage treatment facility shall be adequately protected by fencing.
3. The proper operation and maintenance of the listed sewage treatment facility shall be performed, or supervised, by a certified operator possessing at least a Class III certificate for Wastewater System Operators as issued by the State of West Virginia. The on-site attendance of this facility's Class III operator shall be determined and directed by the Bureau for Public Health, Office of Environmental Health Services.
4. The permittee shall submit each month according to the enclosed format, a Discharge Monitoring Report (DMR) indicating in terms of concentration and/or quantities, the values of the constituents listed in Section A analytically determined to be in the plant effluent(s). Additional information pertaining to effluent monitoring and reporting can be found in Section III of Appendix A.
5. The required DMRs shall be received by the agency no later than 25 days following the end of the reporting period in accordance with the following requirements. The agency is now requiring the permittee to utilize our electronic discharge monitoring report (eDMR) system which is now mandatory. The permittee is not required to submit hard copies of the DMRs to the addresses listed below when using eDMR. Special circumstances may result in the agency granting an exemption to eDMR and are considered on case by case basis. If the permittee was exempted by the agency from using the eDMR system, then the permittee is required to send hard copies to the addresses below. The permittee may contact the agency for more information about the eDMR system and potential exemptions from using it. Regardless, in accordance with Appendix A, Section III.6 of this permit, the permittee shall maintain copies of DMRs (either hard copies or electronic copies) at the plant site and the DMRs shall be made readily available upon request for DEP personnel.

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Director                                U. S. Environmental Protection Agency
Division of Water and Waste Management  Region III, Water Protection Division
601 57th Street SE                      NPDES Enforcement Branch (3WP42)
Charleston, West Virginia  25304        1650 Arch Street
Attention:  Permitting Program          Philadelphia, PA  19103

-----------------------------------------------------------
Department of Environmental Protection
Environmental Enforcement
22288 Northwestern Pike
Romney, WV 26757-8005
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6. The permittee shall not use alternate DMRs without prior approval from this Agency.
7. For any noncompliance reports required to be submitted in writing by Section IV.4 of Appendix A of this permit, a copy shall be forwarded to the USEPA at the location specified in Section C.5 above.
   a. In conjunction with all other reporting requirements of this permit, copies of all future correspondence regarding this permit will be forwarded to the Environmental Inspector and Environmental Inspector Supervisor at the following address:

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   Department of Environmental Protection
   Environmental Enforcement
   22288 Northwestern Pike
   Romney, WV 26757-8005
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8. The average daily design flow of the Publicly Owned Treatment Works has been established at 4.99 million gallons per day. When the average monthly effluent flow reported on Discharge Monitoring Reports reaches, or exceeds, 90 percent of the established average design flow (4.5 MGD) during three (3) consecutive monthly periods, the permittee shall submit a Plan of Action to the Director. The Plan of Action shall present, at a minimum, an analysis of current hydraulic and organic loadings on the plant, an analysis of the future projected loadings, and a Schedule of Tasks to accomplish procedures necessary to maintain required treatment levels.

Section C - Other Requirements

8. Should the permittee experience and report average monthly flows at or greater than 4.5 MGD during three (3) consecutive monthly periods, but can demonstrate that these monthly average flows resulted from the maximization of wet weather flow through the POTW in accordance with the Combined Sewer Overflow requirements of this permit, then submission of the following information shall satisfy the requirement in Section C.8 herein for the submission of a Plan of Action:
   a. During the period, compliance with applicable BOD5, TSS, and Fecal Coliform effluent limitations was maintained.
   b. Average monthly dry weather flows experienced at the POTW over the period are less than 4.5 MGD.
   c. The permittee is compliant with the Combined Sewer Overflow requirements of this permit, and that continued operation in accordance with said requirements will ensure the maintenance of required treatment levels.
9. Any future collection system extension that is projected to increase wastewater flows to the WWTP by 250,000 gallons per day shall require the permittee to contact the Director to secure approval of the extension. After consideration of the complexity of the projected extension and the available treatment capacity of the POTW, the Director may require the permittee to seek approval of said extension through a modification of the permit.
10. Over the term of this permit, the permittee is allowed up to three (3) excursion(s) of the maximum daily fecal coliform effluent limitation prescribed in Section A.001. The number of allowed excursions is based upon one (1) percent of the number of required self-monitoring events. Utilization of the excursion allowance is conditioned as follows:
    a. Excursion allowances are afforded only to self-monitoring results and only when self-monitoring activities assess compliance with the maximum daily effluent limitation by analysis of an individual grab sample. No excursion allowance can be applied to analytical results obtained by representatives of the Director in the performance of their compliance assessment activities. Additionally, representatives of the Director may assess compliance with the maximum daily effluent limitation by collection and analysis of an individual grab sample.
    b. No more than one excursion may be utilized in any calendar month.
    c. The excursion allowance is contingent upon the permittee's prompt return to compliance as evidenced by the next required fecal coliform self-monitoring event.
    d. The result for which an excursion allowance is claimed shall be included in the calculation of the average monthly effluent value.
    e. Should an excursion allowance be utilized by the permittee, said allowance shall be reported as an attachment to the Discharge Monitoring Report. This attachment should state that (1) an excursion allowance was taken in accordance with the requirements outlined above, (2) the total number of allowances taken to date during the term of this permit, and (3) the total number of allowances remaining during the term of this permit. The permittee shall maintain an on-site record of the excursion allowances utilized during the term of the permit.
11. The permittee shall be required to test the sewage treatment plant's influent in order to calculate the percent (%) removal parameters for BOD5 and TSS contained in Section A.001 of this permit. Influent sampling requirements include:
    a. Percent removal shall be defined as a percentage expression of the removal efficiency across the wastewater treatment plant for a given pollutant parameter, as determined from the thirty day average values of the influent concentrations to the facility and the thirty day average effluent pollutant concentrations. Only influent and effluent samples taken concurrently as specified below shall be used for reporting.
    b. Influent BOD5 and TSS samples shall be collected using the permittee's established sampling schedule at least four (4) times per month for the wastewater treatment facility.
    c. The permittee shall collect representative BOD and TSS influent samples using their established sampling procedures over an 8-hour period.
    d. Influent BOD5 and TSS sampling shall be performed over the same 8-hour time period as the effluent BOD5 and TSS sampling.

Section C - Other Requirements

12. Any "not detected (ND)" sampling result obtained by the permittee must be "ND" at the method detection limit (MDL) for the test method used for that parameter and shall be reported on the DMR as less than the MDL used (<MDL). The permittee shall not report a sampling result as Zero or "ND" or report the result as less than a minumum level (ML), reporting limit (RL), or practical quantitation limit (PQL).

    When averaging values of analytical results for DMR reporting purposes for monthly averages, the permittee should use actual analytical results when these results are greater than or equal to the MDL and should use zero (0) when these results are less than the MDL. If all analytical results are non-detect at the MDL (<MDL), then the permittee should use the actual MDL in the calculation for averaging and report the result as less than the average calculation.

13. In incidences where a specific test method is not defined, the permittee shall utilize an EPA approved method with a method detection limit (MDL) sensitive enough to confirm compliance with the permit effluent limit for that parameter. If a MDL is not sensitive enough to confirm compliance, the most sensitive approved method must be used. If a more sensitive EPA approved method becomes available, that method shall be used. Should the current and/or new method not be sensitive enough to confirm compliance with the permitted effluent limit, analytical results reported as "not detected" at the MDL of the most sensitive method available will be deemed compliant for purposes of permit compliance. Results shall be reported on the Discharge Monitoring Reports as a numeric value less than the MDL.

14. Unless otherwise authorized under Section A or Section D of this permit, any discharge from any point other than a permitted treatment system outfall and/or a permitted combined sewer overflow (CSO) outfall is expressly prohibited. In the event there is a prohibited discharge from a sewer conveyance system, the permittee shall follow the reporting requirements contained in Appendix A, Part IV, Section 2.

15. Because the permittee is using ultraviolet light as their disinfection method, no total residual chlorine (TRC) effluent limitation shall currently be imposed. Should the permittee in the future decide to use chlorine as a disinfection method, the Division shall promulgate and impose a TRC effluent limitation.

16. Certain characteristics of sewage, industrial wastes, and other wastes cause pollution and are objectionable in all waters of the State. Certain conditions are not to be allowed in any of the wters of the state. Therefore, the effluent discharge, and specifically the disscharge via Outlet 001, from the permittee's treatment facility shall not cause violation to Chapter 22B, Article 3 and Appendix A, Section I.12.

17. Effluent monitoring for the following pollutants shall be conducted using the most sensitive methods and detection levels commercially available and economically feasible. The following methods are to be used unless the permittee desires to use an EPA Approved Test Method with a listed lower method detection level. Regardless, it is recognized that detection levels can vary from analysis to analysis and that non-detect results at a different MDL for the specified test method would not constitute a permit violation.

Parameter	EPA Method No.	Method Detection Level (ug/l)
Aluminum, Total Recoverable	200.8	1.0
Copper, Total Recoverable	200.8	0.5
Lead, Total Recoverable	200.8	0.6
Zinc, Total Recoverable	200.8	1.8
Chromium, Dissolved Hexavalent	218.6	0.6
Nickel, Total Recoverable	200.8	0.5
Cadmium, Total Recoverable	200.8	0.5
Silver, Total Recoverable	200.8	0.1
Arsenic, Total	200.8	1.4
Mercury, Total*	245.7	0.0018
Mercury, Total*	1631	0.0002
Cyanide, Free *	Refer to comment below	

* The permittee may use either Method 245.7 or Method 1631 for the sampling of Total Mercury. Additionally, for the measurement of "free" cyanide, the permittee shall use the standard method for "weak acid dissociable" cyanide as specified in the latest addition of Standard Methods.

Section C - Other Requirements

17. a. The analytical test procedures, set forth in 40 CFR Part 136, prescribes colorimetric methods for certain parameters. The digestion process for the performance of total recoverable is not sufficient for the utilization of a colorimetric procedure. Therefore, colorimetric procedures shall not be acceptable for the analysis of parameters prescribed as total recoverable.

18. The arithmetic mean of values for effluent samples collected in a period of seven (7) consecutive days shall not exceed 45.0 mg/l for Total Suspended Solids (TSS). Furthermore, the permittee may submit mitigating factors as an attachment to its Discharge Monitoring Report (DMR) related to an excursion of this requirement. The Director may choose to take those mitigating factors into consideration in determining whether enforcement action is required.

19. The permittee shall perform annual (1/year) chronic toxicity tests on the effluent from Outlet(s) 001 as prescribed below:

    a. Such testing will determine if an appropriate dilute effluent sample affects the survival or reproduction of the test species. Eight (8) hour flow weighted composite samples of the effluent, as prescribed in Section A, shall be collected for testing. An appropriate statistical test shall be used to determine whether differences in control and effluent data are significant.

        1. The permittee shall conduct a three brood (6-8 days) Ceriodaphnia Dubia survival and reproduction toxicity test on the final effluent diluted by appropriate control water. Toxicity will be demonstrated if there is a statistically significant difference at the 95 percent confident level in survival of reproduction between Ceriodaphnia Dubia exposed to an appropriate control water and the final effluent. All test solutions shall be renewed using an approved renewal schedule. If, in any control, more than 20% of the test organisms die, or less than 60% of surviving females in controls produced their third brood, that test shall be repeated.

        2. The permittee shall conduct a 7-day Pimephales Promelas fathead minnow larval survival and growth toxicity test on the final effluent diluted by appropriate control water. Toxicity will be demonstrated if there is a statistically significant difference at the 95 percent confidence level in survival or growth between fathead minnows exposed to an appropriate control water and the final effluent. All test solutions shall be renewed using an approved renewal schedule. If, in any control, more than 20% of the test organisms die, or average dry weight of surviving controls was less than 0.25 mg/l that test shall be repeated.

    b. Results shall be reported in terms of chronic toxic units (TUc) and shall be submitted with the corresponding monthly Discharge Monitoring Report (DMR).

        TUc= 100/NOEC or NOEL
        Where NOEC (or NOEL) is No Observed Effect Concentration (or Level), which is expressed as percent (volume) effluent in dilution water.
        For Example, if NOEC is 10%, TUc= 100/10=10

        When the effluent demonstrates no toxicity at 100% effluent (no observed effect), the permittee may report zero TUc.

    c. The monitoring required, herein, shall be conducted in accordance with the sample collection, preservation, and analytical procedures specified in 40 CFR 136.

    d. In addition to the monitoring data reporting requirements of 40 CFR 136, the exact age of the test organisms at the initiation of the test shall be reported. Values of less than or equal to 24 hours are acceptable for Pimephales Promelas, fathead minnow. The range of the Ceriodaphnia Dubia used must be reported as a range in hours. All Ceriodaphnia Dubia used in the test must be less than 24 hours of age at test commencement. The age difference between the youngest and oldest Ceriodaphnia Dubia used in the test must not exceed eight (8) hours.

    e. The chronic toxicity testing shall be performed on an annual (1/year) basis. The first chronic toxicity testing shall be carried out within 6 months from the effective date of the permit for Outlet(s) 001. There shall be a minimum of three (3) months between sampling events.

Section C - Other Requirements

19. f. If chronic effluent toxicity testing shows exceeds an indicator value of 1 TUc, the permittee shall immediately resample and test the effluent. This shall be performed within 30 days of the initial demonstration of the exceedance with the whole effluent toxicity discharge indicator value prescribed herein. Copies of the retesting results shall be provided to the Director immediately upon completion of the test.

    If the second test shows compliance with the indicator value, chronic effluent toxicity testing shall continue in accordance with the requirements, as prescribed herein. However, if the second test shows noncompliance, the Director shall impose further requirements, as may be necessary, in order to obtain compliance with the chronic effluent toxicity discharge limitations.

    g. The Director may impose further requirements should the chronic effluent toxicity testing results demonstrate toxicity.

20. The permittee shall not accept any new nondomestic discharges without first obtaining approval from the Director of the Division of Water and Waste Management as provided in Title 47, Series 10, Section 14 of the West Virginia Legislative Rules.

21. If any existing nondomestic discharge causes, or is suspected of causing, interference or pass through, as defined by 40 CFR Part 403.3, or otherwise violates any provision of 40 CFR Part 403, the permittee shall notify the Director of such violation or suspected violation.

22. If any existing nondomestic discharge is identified as being subject to Categorical Pretreatment Standard under 40 CFR Chapter 1, Subchapter N, and the discharge is not regulated by this permit, the permittee shall notify the Director of such identification.

23. The permittee shall be required to sample the discharge from Outlet No. 001 for the pollutants listed in Appendix J, Table 2 of 40 CFR 122 as part of its next reissuance permit application following the procedures listed below. This sampling data shall be submitted as a necessary part of the next reissuance permit application.

    a. Grab samples shall be collected for pH, temperature, cyanide, total phenols, residual chlorine, oil and grease, fecal coliform, and volatile organics. Twenty-four (24) hour composite samples shall be collected for all other pollutants found in Appendix J, Table 2 of 40 CFR 122.

    b. A minimum of three (3) test results for each pollutant shall be obtained a minimum of four (4) months apart. Each sampling result shall be collected in a manner to be representative of seasonal variations (such as April, August, and December).

    c. All data collected over the term of the previous permit for a specific pollutant shall be summarized and submitted to the agency by the permittee.

    d) The sample collection, preservation, and analysis shall be conducted in accordance with the procedures of 40 CFR Part 136. The permittee shall assure that all required quantitative data are collected in accordance with sufficiently sensitive analytical methods approved under 40 CFR part 136 or required under 40 CFR chapter I, subchapter N or O. For the purposes of this requirement, a method approved under 40 CFR part 136 or required under 40 CFR chapter I, subchapter N or O is "sufficiently sensitive" when:

        i) The method minimum level (ML) is at or below the level of the applicable water quality criterion for the measured pollutant or pollutant parameter; or

        ii) The method ML is above the applicable water quality criterion, but the amount of the pollutant or pollutant parameter in a facility's discharge is high enough that the method detects and quantifies the level of the pollutant or pollutant parameter in the discharge; or

        iii) The method has the lowest ML of the analytical methods approved under 40 CFR part 136 or required under 40 CFR chapter I, subchapter N or O for the measured pollutant or pollutant parameter.

        iv) When there is no analytical method that has been approved under 40 CFR part 136, required under 40 CFR chapter I, subchapter N or O, and is not otherwise required by the Director, the applicant may use any suitable method but shall provide a description of the method. When selecting a suitable method, other factors such as a method's precision, accuracy, or resolution, may be considered when assessing the performance of the method.

Section C - Other Requirements

24. The Division acknowledges that the City utilizes the treated and disinfected effluent from the wastewater treatment plant as a source of irrigation water for the City's youth league baseball fields.

25. Monitoring for Stormwater Outlet No. 002 identified herein shall be performed in accordance with the following requirements:

    a. Sampling: The collection of the samples for the reported analyses shall be in accordance with Appendix A, Part III of this permit. Any specific requirements contained in the applicable analytical methods must be followed for sample containers, sample preservation, holding times, the collection of duplicate samples, etc.

    b "Grab sample" is defined for this section as an individual sample of at least 100 milliliters of the stormwater discharge.

    c. A grab sample shall be collected during the first thirty (30) minutes of the discharge and analyzed. If the collection of a grab sample during the first thirty (30) minutes of the discharge is impractical, a grab sample can be taken during the first hour of the discharge. However, the permittee shall submit with the discharge monitoring report an explanation of why the sample collection during the first thirty (30) minutes was impractical.

    d. Sample Type: Samples shall be collected from a discharge resulting from a storm event that is greater than 0.1 inches in magnitude and that occurs at least 72 hours from the previously measurable (greater than 0.1 inch rainfall) storm event. Where once per six (6) month sampling is required, the samples for each six (6) month period shall be collected at least three (3) months apart, if possible.

26. If there is evidence indicating potential or realized impacts on water quality due to any stormwater discharge associated with the wastewater treatment facility covered by this permit, the permit may be promptly modified and/or reissued to include effluent limitations and/or other requirements to control such storm water discharges.

27. The permittee shall develop and implement a storm water pollution prevention plan (SWPPP) for the wastewater treatment facility site. The SWPPP shall be maintained in accordance with good engineering practices. The SWPPP shall identify potential sources of pollution which may reasonably be expected to affect the quality of storm water discharges associated with the industrial activity. In addition, the plan shall describe and ensure the implementation of practices which are to be used to reduce the pollutants in storm water discharges associated with the industrial activity at the facility and to assure compliance with the terms and conditions of this permit. A copy of the plan shall be retained at the site for review upon request.

28. The following storm water requirements apply to Outlet 002:

    a. Samples shall be collected from the discharge resulting from a storm event that is greater than 0.1 inches in magnitude and that occurs at least 72 hours from the previously measurable (greater than 0.1 inch rainfall) storm event. Samples shall be taken during the first thirty (30) minutes, or as soon thereafter as practicable, of the storm event.

    b. Each outlet shall be monitored separately.

    c.

Pollutant	Benchmark Value
Total Suspended Solids	100 mg/l
pH	6.0 to 9.0 S.U.
Oil and Grease	15 mg/l
Ammonia Nitrogen	4 mg/l
Biological Oxygen Demand	30 mg/l
Chemical Oxygen Demand	120 mg/l

Section C - Other Requirements

28. c. When the concentration results from a minimum of four (4) consecutive samples of a pollutant are all less than the corresponding benchmark value for the pollutant, additional monitoring for the pollutant is not required (all pH values of the samples must be within the range 6.0 to 9.0 S.U.). The facility shall submit, each year, to the Division of Water and Waste Management, in lieu of the monitoring data, a certification (form will be provided upon request) that there has not been a significant change in the industrial activity or the pollution prevention measures in the area of the facility that drains to the outlet for which sampling is to be waived. If the concentration of a pollutant exceeds the corresponding benchmark concentration or a pH value is not within the range of 6.0 to 9.0 S.U., monitoring shall be continued and storm water pollution prevention practices shall be revised and implemented. A letter stating the revised and implemented storm water pollution prevention practices shall be submitted to the Division of Water and Waste Management at the address listed in Section C.05. These requirements do not apply to pollutants with effluent limitations.

    d. The sample collection, preservation, and analysis shall be conducted in accordance with the procedures of 40 CFR Part 136. The permittee shall assure that the test procedure being utilized has an appropriate method detection level (MDL) for the parameters. Analyses shall be conducted using the most sensitive methods and detection levels commercially available, and economically feasible.

29. Domestic septage may be accepted into the City's POTW, at the existing receiving station at the WWTP headworks, for subsequent processing, treatment, and disposal. Authorization is subject to, and contingent upon, compliance with the following terms and conditions.

    a. The City may accept septage at the WWTP when CSOs are active, so long as adequate treatment capacity, as well as proper handling and storage of this septage is provided.

    b. The septage hauler(s), utilized for the transport of the septage, shall be registered to operate under the WV/NPDES General Permit for septage handling and disposal. The City should obtain and maintain a copy of the septage hauler(s) general permit registration(s) as part of their recordkeeping.

    c. Records shall be logged and maintained that present the date(s), time(s), name of the septage hauler(s), and volume(s) of septage accepted.

    d. The City shall report monthly on the Sewage Sludge Management Report, the total volume of septage accepted during the reporting period.

    e. The City shall assure that the acceptance and processing of the domestic septage does not result in effluent discharge limitation violations, or degradation of the receiving stream, or adversely impact sewage sludge disposal. Authorization of the City's acceptance of domestic septage in no way relieves the City of its obligation to comply with all terms and conditions of its WV/NPDES water pollution control permit, and shall not constitute an affirmative defense in any enforcement action brought against the City.

30. Permit monitoring requirements for total phosphorous are being implemented. The permit monitoring requirements shall be self-monitored in accordance with the following:

    a. Sampling for phosphorus at Outlet 001 shall be conducted during the months of May through October at a frequency of twice per month (2/month).

    b. The twice per month (2/month) phosphorus sampling for Outlet 001 shall be collected at a minimum of seven (7) days apart.

    c. Effluent monitoring for the following pollutants shall be conducted using the most sensitive methods and detection levels commercially available and economically feasible. The following methods and detection levels are recommended to be used unless the permittee desires to use an EPA Approved Method with a lower detection level:

Parameter	EPA Method No.	Method Detection Limit (mg/l)
Total Phosphorous	365.4	0.01

    Any "not detected (ND)" results by the permittee must be "ND" at the method detection limit (MDL) for the test method used for that parameter and must be reported as less than the MDL used. The permittee may not report the result as zero, "ND", or report the result as less than a minimum level (ML), reporting limit (RL), or practical quantitation limit (PQL).

Section C - Other Requirements

30. d. The permittee shall collect eight (8) hour composite samples for total phosphorous. All sampling shall be collected concurrently and shall be representative of normal operations.

31. In order to more accurately assess the reasonable potential for hardness based pollutants for water quality based effluent limitations (WQBELs), representative instream total hardness sampling shall be collected. The total hardness sampling as provided in Section A.001 are to be collected from the Tygart Valley River at a location immediately downstream of, and after mixing with, the WWTP's effluent discharge. The total hardness samples shall be collected on a one per six months (1/6 months) frequency.

Section D - Combined Sewer System Overflows

1. Outlet Numbers C002 through C009, C011, C016 through C020 (14 CSO relief points) serve as combined sewer relief points. Combined sewer overflows (CSOs) are allowed only when flows in the combined sewers exceed the conveyance and/or treatment capacities during wet weather periods. Wet weather shall be defined for this requirement as any period of time in which flows within the combined sewer system, or portion thereof, are being substantially influenced by rainfall, snowmelt, and/or other natural phenomena. Dry weather overflow events from any CSO are prohibited. The permittee shall ensure that all CSO events comply with the requirements found in Section D and any other pertinent portions of this permit. The requirements in this permit shall not supersede the 1994 CSO Policy or the recommended EPA Guidance for Nine Minimum Controls.

Outlet Number	Name and/or Location	Receiving Stream
C002	Barron Ave Latitude 38° 55' 00"N Longitude 79° 50' 46"W	Tygart Valley River (Mile Point 65.7)
C003	Cherokee Street / Center Street Latitude 38° 56' 04"N Longitude 79° 50' 29"W	Tygart Valley River (Mile Point 65.8)
C004	Henry Ave / River Street Latitude 38° 55' 23"N Longitude 79° 50' 49"W	Tygart Valley River (Mile Point 65.9)
C005	Keren Ave / River Street Latitude 38° 55' 25"N Longitude 79° 50' 54"W	Tygart Valley River (Mile Point 66)
C006	Davis Avenue Latitude 38° 55' 28"N Longitude 79° 50' 59"W	Tygart Valley River (Mile Point 66.1)
C007	1st Street / Railroad Ave Latitude 38° 55' 28"N Longitude 79° 51' 06"W	Tygart Valley River (Mile Point 66.2)
C008	Worth Avenue Latitude 38° 55' 32"N Longitude 79° 51' 28"W	Tygart Valley River (Mile Point 66.3)
C009	Gilmore Street Latitude 38° 56' 38"N Longitude 79° 51' 06"W	Unnamed Tributary of Craven Run (Mile Point 0.1) of the Tygart Valley River
C011	Mountainview Drive Latitude 38° 55' 35"N Longitude 79° 52' 20"W	Tygart Valley River (Mile Point 66.8)
C016	S. Railroad Avenue Latitude 38° 55' 23"N Longitude 79° 51' 02"W	Tygart Valley River (Mile Point 66.2)
C017	S. Davis Avenue Latitude 38° 55' 22"N Longitude 79° 50' 57"W	Tygart Valley River (Mile Point 66.2)
C018	S. Kerens Avenue Latitude 38° 55' 22"N Longitude 79° 50' 52"W	Tygart Valley River (Mile Point 66.0)
C019	S. Henry Avenue Latitude 38° 55' 20"N Longitude 79° 50' 48"W	Tygart Valley River (Mile Point 65.9)

Section D - Combined Sewer System Overflows

1.

Outlet Number	Name and/or Location	Receiving Stream
C020	Jones Drive Latitude 38° 55' 27"N Longitude 79° 51' 59"W	Tygart Valley River (Mile Point 66.7)

2. TECHNOLOGY-BASED EFFLUENT LIMITATION REQUIREMENTS

The permittee shall comply with the following technology-based nine minimum CSO control requirements:

a. CONDUCT PROPER OPERATION AND REGULAR MAINTENANCE PROGRAMS

The permittee shall prepare and implement a proper Operation and Maintenance Program for their combined sewer system (CSS). The permittee shall prepare, maintain, and implement a Combined Sewer Overflow (CSO) Operation and Maintenance Manual (OMM) describing routine operation, inspection, maintenance, and training activities. The OMM shall be reviewed and updated at least one time per year to ensure the OMM's accuracy. The OMM shall include, but is not limited to, the following listed elements.

1. The permittee shall establish an annual CSO budget and shall provide documentation of the process used to establish said budget in the OMM.
2. The permittee shall provide and document as a part of the OMM the following items:

   i) Current and accurate sketch/map of CSS depicting CSO outfall locations, receiving streams, identified sensitive areas, and the location of rain gauges.

   ii) For a minimum of three years, all inspection reports and forms, operation and maintenance logs, training records, customer complaints, and annual summaries of wet and dry weather CSO events.

   iii) Accurate program documents that describes current operations, inspection, and maintenance procedures for any CSO equipment and structures.

   iv) Summaries of up-to-date information concerning wet and dry weather CSO events that can be publicly viewed.
3. The permittee shall establish municipal ordinances to prevent illicit CSS connections and to prevent dumping of debris into the CSS.
4. The permittee shall provide adequate training programs pertaining to CSO activities for the staff.
5. The permittee shall identify and document any sensitive areas (e.g. receiving stream segments having primary contact recreation uses, marinas and boat ramps, drinking water intakes, public parks) and shall document whether there are CSOs outfalls discharging in or just upstream of these sensitive areas. Based on this information, CSO outfalls shall be prioritized for proper development of CSO controls.
6. The permittee shall establish and maintain regularly scheduled outfall inspections with procedures that can accurately detect and document wet and dry weather CSO discharge events.
7. The permittee shall maintain at a minimum one (1) rain gauge in order to obtain measurements of local precipitation during wet weather periods. Additional gauges may be required depending upon the size of the CSS. The rain gauge measurement data shall be submitted as a part of the periodic reports and will assist the permittee in developing an accurate characterization of the CSS during wet weather CSO discharge events.
8. The permittee shall prepare a list of critical CSO equipment and shall establish and properly document a preventive maintenance schedule for said equipment. The permittee shall properly document any repairs made to the CSS and/or CSO equipment/structures.
9. The permittee shall establish, implement, and document a routine maintenance schedule for the following specific activities described and listed below. There may be need to do some of these activities at times by necessity, however, an established schedule to routinely complete these activities shall be put in place.

Section D - Combined Sewer System Overflows

2. a. 9. i) Routine inspection and cleaning of catch basins and manholes
ii) Routine inspection , cleaning and maintenance of lift stations including pumps
iii) Routine vacuum cleaning and/or jet flushing of the combined sewer system
iv) Routine street cleaning
v) Routine inspections of portions of the combined collection system

10. Periodic inspections of grease traps from restaurants, schools, and other facilities with food services shall be conducted and documented. Periodic inspections of businesses and /or other customers that may be contributing waste streams other than domestic sewage shall be conducted and documented.

11. The permittee shall establish a procedure detailing how CSS customer complaints are taken, tracked, processed, and resolved. A summary list of complaints and resolutions for the past three years shall be readily available for review by the public or the WVDEP.

b. MAXIMIZE USE OF STORAGE IN COLLECTION SYSTEM

The permittee shall identify, and document in the OMM, portions of the combined sewer system (CSS) usable for storage and determine the CSS storage capacity including the configuration, size, and lift station capacities. The permittee shall identify, and document in the OMM, any unused tanks or piping that could potentially be used as off-line storage at the existing facilities. The permittee shall identify any bottlenecks in the combined sewer system and provide recommendations on increasing flows through these areas. The permittee shall identify procedures (and document them in the OMM) such as pre-storm drawdowns of lift station wet wells and interceptor collection lines that could provide additional wet weather storage capacity.

c. REVIEW AND MODIFICATION OF PRETREATMENT PROGRAM

The permittee shall document in the OMM, the procedures used to inspect and evaluate the necessity of pretreatment for indirect non-domestic wastewater dischargers (i.e., restaurants, gasoline stations, garages, funeral homes, hospitals, schools, etc.) to minimize their impacts on CSO discharges. The permittee shall maintain a list of non-domestic dischargers to their combined collection systems and evaluate the necessity to require dischargers to reduce or cease their discharges during wet weather periods when CSO discharges are occurring. A summary of pretreatment inspections or evaluations shall be submitted as a part of the CSR.

d. MAXIMIZATION OF FLOW TO POTW FOR TREATMENT

The permittee shall document the plans and procedures being implemented to maximize the combined wastewater flow to the POTW during wet weather events and to deliver as much of the combined wastewater flow as possible to the treatment plant within the treatment plant's hydraulic capacity and the treatment plant's constraints as imposed by the permit effluent limitations. The plan shall be documented in the OMM and a summary of any ongoing activities shall be submitted as a part of the periodic CSR. The permittee shall evaluate annually and document any maximization procedures implemented including the following:

1. Evaluate and document the performance of critical CSO equipment in the combined sewer system and POTW.
2. Evaluate and document the potential of raising CSO diversion weirs or other devices to the maximum heights possible to reduce CSO activity.
3. Evaluate and document the comparison between existing flow rates to design capacity for both the POTW and the lift station pumps.
4. Evaluate and document the capacities of major interceptors and pumping stations delivering flows to the POTW.
5. Evaluate and document wet weather flow rates to the POTW compared to typical dry weather flows.
6. Evaluate and document whether some portion of wet weather flow could receive partial treatment at the POTW.
7. Evaluate and document the status of any excessive inflow and infiltration (I&I) correction projects.

Section D - Combined Sewer System Overflows

2. d. 8. Evaluate and document whether CSO discharge events are occurring even when the POTW flow volumes at the POTW falls below the rated design capacity. If occurrences are happening, develop corrective actions that can be taken to prevent recurrence.

e. ELIMINATION OF CSOs DURING DRY WEATHER

Dry weather overflows (DWO) from CSOs are prohibited and shall be reported to the WVDEP's emergency spill line within 24 hours of its detection. The permittee shall conduct annual evaluations for the following:

1. Evaluate the number of reported DWO events that have occurred during the past three years.
2. Determine the causes of DWO, and provide the actions that the permittee has taken and will take in the future to prevent recurrence.
3. Evaluate the existing methods of detecting DWO and their efficacy.
4. Evaluate remediation procedures for the treatment, removal, or flushing of objectionable materials deposited in receiving streams or the stream bank after DWO - due to either complaints or health issues.
5. Evaluate whether a DWO event could potentially directly endanger the health of recreational stream users or the environment itself.
6. Identify the processes used to make these evaluations and document them in the OMM.
7. A summary of these annual results shall be submitted as a part of the CSR.

f. CONTROL OF SOLIDS AND FLOATABLE MATERIALS

The permittee shall control solid and floatable materials discharging from all CSO discharges and the permittee shall have these objectionable materials removed should an abnormally large amount of these materials be deposited in the receiving stream or on the stream bank. The permittee shall conduct an annual evaluation of past performance, and recommend corrective actions to reduce the presence of solids and floatable materials in CSO discharges and the receiving steam. The process of making these evaluations shall be documented in the OMM. Actions taken to control solid and floatable materials shall be documented in the CSR. The following list is items that should be reviewed:

1. The permittee shall evaluate and implement control technologies at each outfall to control solids and floatable materials. These technologies should be maintained and documented.
2. The permittee shall evaluate and give consideration to installing screens at catch basins and or outfall structures prior to discharging to receiving streams.
3. The permittee shall evaluate having annual leaf pickups as a preventative measure.
4. The permittee shall evaluate having a community recycling programs as a preventative measure.
5. The permittee shall evaluate providing trash containers in high traffic areas.
6. The permittee shall evaluate their control of illegal dumping and their enforcement of local litter laws.
7. The permittee shall evaluate and give consideration to installing outfall booms, netting, etc. for control of floatable materials.
8. The permittee shall evaluate the effectiveness of a street cleaning program.

g. POLLUTION PREVENTION

The permittee shall summarize any pollution prevention activity in the CSR, and conduct an annual evaluation and recommend corrective actions. The following items should be evaluated:

1. The permittee shall evaluate the need for source control measures at the government level for pollution prevention.
2. The permittee shall provide educational opportunities for the general public concerning the need for their assistance to reduce pollution reaching the combined sewer system.
3. The permittee shall evaluate the opportunity of organizing the collection and disposal of household hazardous waste materials.

Section D - Combined Sewer System Overflows

2. h. PUBLIC NOTIFICATION

The permittee shall conduct an annual evaluation on the effectiveness of its public notification process by reviewing and providing documentation of the following items:

1. The permittee shall ensure and document that adequate warning signs are installed at each CSO outfall that notify and alert the public to avoid contact with waters near or downstream of discharging CSO outfalls.
2. The permittee shall evaluate the feasibility and document that adequate warning signs are installed at public stream access points (e.g. marinas and boat launches) that notify and alert the public to avoid recreational contact with waters during or just after any CSO discharge.
3. The permittee shall develop and document procedures to provide to the general public, and specific entities that might be expected to be affected by CSO discharges, information concerning CSO discharge occurrences and their impacts to water quality in the receiving stream(s) (e.g. newspaper public notifications, newspaper advertisements, public service announcements on radio and/or television).
4. The permittee shall develop and document procedures for public notification in circumstances where public notification concerning of CSO discharge activity is critical and immediate.
5. The permittee shall ensure and document the availability of CSO pamphlets for distribution and education of the general public.
6. The permittee shall ensure and document the availability of a logbook of CSO discharges and activities that is readily available for public review (e.g. payment offices, town halls, community centers).
7. The permittee shall evaluate and document any public education programs concerning CSOs and the community's response and any other plans addressing them.
8. The permittee shall record and document any public involvement including any comments or suggestions made by the public concerning CSOs.
9. The permittee shall provide general notification, as appropriate, to the water treatment facility when CSOs upstream of the water intakes become active. The permittee shall document these notifications in a log.

i. MONITORING TO CHARACTERIZE CSO IMPACTS TO RECEIVING STREAMS AND THE EFFICIENCY OF CSO CONTROLS

The permittee shall monitor CSO outfall discharges and the receiving waters into which these CSOs discharge and shall characterize their impacts and also make determinations about concerning how well CSO controls are improving water quality in the receiving stream(s).

1. The permittee shall ensure and document that they have installed and are maintaining a rain gauge(s) to measure precipitation within the CSS drainage areas.
2. The permittee shall evaluate and document whether they use or can use stream gage information from the National Weather Service or the US Geological Survey to specify the amount and intensity of rain or snow events that could trigger CSO activity and also to obtain stream flow data for analysis.
3. The permittee shall ensure and document the specific location and the receiving stream of each CSO outfall in the CSS and shall also investigate and determine if any CSO outfalls discharge to environmentally sensitive areas. CSO outfalls that discharge to environmentally sensitive areas (i.e. near water intakes; near parks, schools, or marinas; water recreation areas or areas where there exists a high possibility of human contact and exposure; and areas likely to affect threatened or endangered animal species) should be given a high priority. Outfalls that have the highest frequency of discharge or that discharge the greatest volume of wastewater should also be considered a high priority.

Section D - Combined Sewer System Overflows

2. i. 4. The permittee shall implement and document the procedures utilized by the permittee to collect and summarize data concerning the total number of CSO overflow events (both wet and dry weather) and the frequency and duration of CSO activities for at least a representative number of CSO outfalls. The permittee shall monitor and maintain a record of CSO activity for the duration and estimated volume for all overflow events that occur at a minimum of 10 percent (%) of the highest priority CSO outlets in the permittee's combined collection system. The permittee shall also record rainfall data during these CSO overflow events. The CSO flow monitoring data and rainfall data shall be submitted to this agency as a portion of the semi-annual progress reports required below.

5. The permittee shall implement and document the procedures utilized by the permittees to correlate the precipitation data and the CSO activity data in order to predict what measured amount and intensity of rainfall/snowmelt events will trigger CSO activity.

6. The permittee shall implement and document the procedures utilized to collect water quality data and other information on chemical, physical, and biological impacts resulting from CSO discharges (e.g. swimming area closings, excessive floatable materials in streams, fish kills, sludge banks, impaired habitat for aquatic life).

7. The permittee shall implement and document the procedures utilized by the permittee following the completion of a CSO control project in order to evaluate any improvements made to water quality from said control projects.

3. WATER QUALITY-BASED EFFLUENT LIMITATIONS FOR CSOs

a. To the extent provided by law, the discharges from the permittee's CSOs shall not cause or contribute to an in-stream excursion above any numeric or narrative criteria developed and adopted as part of the WV water quality standards.

b. The selected performance standard for the selected CSO abatement controls contained within the permittee's approved LTCP falls under the presumptive approach. The permittee shall capture for treatment no less than 85 percent by volume of the combined sewage collected in the combined sewer system. Additionally, the performance standard identified in Section D.3.b herein, shall not supersede any specific allocation or requirement for a CSO outfall contained within any approved TMDL.

4. LONG-TERM CONTROL PLAN (LTCP)

a. The permittee shall implement and effectively operate and maintain the current CSO controls and any completed CSO abatement projects in accordance with the April 2011 LTCP that was approved by the signing of a Federal Consent Order on the 22nd day of September 2011.

b. Post Construction Compliance Monitoring. The LTCP shall include a post-construction monitoring program that is adequate to ascertain the effectiveness of the CSO controls and can be used to verify attainment of water quality standards. The program shall include details of monitoring protocols to be followed, including CSO and ambient monitoring.

5. POST CONSTRUCTION COMPLIANCE MONITORING

The permittee shall implement an approved post-construction monitoring program that is adequate to ascertain the effectiveness of the CSO controls, and to verify attainment of water quality standards and protection of designated uses.

6. REPORTING REQUIREMENTS

a. The permittee shall submit a semi-annual (1/6 months) progress report detailing actions taken to meet the CSO Policy requirements and the LTCP. The progress report shall include the flow monitoring information as required in Sections D.2.i. above. The progress reports shall be postmarked no later than 20 days or shall be received no later than 25 days following the end of the six (6) month period.

b. The semi-annual (1/6 Months) progress reports shall be addressed and submitted to the following:

Section D - Combined Sewer System Overflows

6. b. **Director**
Division of Water and Waste Management
601 57th Street SE
Charleston, WV 25304
Attention: Permitting Section

7. CSO LANGUAGE REOPENER CLAUSE

   a. This permit may be modified or revoked and reissued to include new or revised conditions should new information, not available at the time of permit issuance or permit modification issuance, indicate that CSO controls imposed under the terms of the permit have failed to ensure the attainment of the WV water quality standards.

   b. This permit may be modified or revoked and reissued to include new or revised conditions based upon new information resulting from the implementation of the LTCP.

8. TOTAL MAXIMUM DAILY LOAD (TMDL)

   a) The receiving stream(s), Tygart Valley River, for Outlets C002 through C008, C011, C016 through C020 and Craven Run of Leading Creek for Outlet No. C009 have a TMDL developed in 2016, for fecal coliform bacteria. The EPA approved the TMDL on June 17, 2016, and the TMDL specifies wasteload allocations of 200 counts per 100 milliliters for fecal coliform for the aforementioned CSO outlets. As such, the permittee must implement procedures in its LTCP to afford compliance with the wastelaod allocations prescribed by the TMDL.

   b) For the CSO outfalls noted above, LTCP implementation procedures should include scheduling the TMDL compliance measures in the LTCP and implementation of those measures should be represented in the LTCP compliance/implementation schedule. If any changes in water quality standards and/or TMDL revisions or updates occur during implementation of the LTCP, the LTCP may need to be revised to address those changes.

Section E - Pretreatment (Industrial Users)

1. The permittee may accept non-domestic wastewater from the following Industrial User(s) providing each respective Industrial User maintains continued compliance with all applicable requirements of this section and all applicable limitations and monitoring requirements prescribed in Section A.IU06, A.IU15 and IU20:

Industrial User Facility Name	Outfall	Classification
Elkins Landfill	IU06	SIU
Elkins New Water Plant	IU15	SIU
Lohr and Barb Funeral Home	IU18	IU
Tomblyn's Funeral Home	IU19	IU
Big Timber Brewing Company	IU20	IU

IU - Industrial User
CIU - Categorical Industrial User
SIU - Significant Industrial User

2. The acceptance of non-domestic wastewater from the Industrial Users listed in Section E.1 above is subject to and contingent upon the following terms and conditions:
   a. NON-DOMESTIC WASTEWATERS APPROVED FOR ACCEPTANCE:
      1. Reserved
      2. The non-domestic wastewater approved for acceptance from the Elkins-Randolph County Landfill consists of leachate from the landfill. The wastewater shall be transported by truck to the headworks, where it will be held in an aerated holding tank prior to discharge to the headworks. The maximum daily flow accepted shall not exceed 50,000 gallons. The actual flow shall be estimated and recorded daily. The industrial user and the permittee shall identify and take all practical steps to reduce the volume of leachate accepted on days when flows through the treatment plant exceed 4.5 MGD.
      3. The non-domestic wastewater approved for acceptance from the New Elkins Water Plant consists of backwash from membrane filters. The back wash is pretreated by settling and only decant water shall be sent to the collection system. No sludge from the sedimentation basin shall be sent. The maximum daily flow accepted shall not exceed 70,000 gallons. The actual flow shall be estimated and recorded daily. In additon, the non-domestic wastewater from the garage area, is pretreated by an oil/water separator. A maintenace log for the oil/water separator shall be submitted separately to the City of Elkins wastewater treatment plant.
      4. The non-domestic wastewater approved for acceptance from Lohr and Barb Funeral Home consists of embalming chemicals and human fluids from embalming deceased persons. The wastewater shall be pretreated to disinfect blood and bodily fluids and to neutralize any excess formalin from its discharge. The maximum daily flow accepted shall not exceed 30 gallons. The actual flow shall be estimated and recorded daily.
      5. The non-domestic wastewater approved for acceptance from Tomblyn's Funeral Home consists of embalming chemicals and human fluids from embalming deceased persons. The wastewater shall be pretreated to disinfect blood and bodily fluids and to neutralize any excess formalin from its discharge. The maximum daily flow accepted shall not exceed 30 gallons. The actual flow shall be estimated and recorded daily.
      6. The non-domestic wastewater approved for acceptance from the Big Timber Brewing Company is wasterwater from a brewery operation. Any solids that are separated from the wastewater shall not be introduced into the collection system or sent to the POTW. The maximum daily volume accepted shall not exceed 5,000 gallons. The actual volume accepted shall be estimated and recorded daily.

         Big Timber Brewing Company shall not add yeast nutrients or source water additives containing Copper or Zinc without prior approval from the Agency.
   b. SAMPLING PROCEDURES:

Section E - Pretreatment (Industrial Users)

2. b. 1. **Reserved**

2. **Elkins Landfill**

Composite samples shall be obtained by collection and combination of a minimum of four (4) equal volume aliquots with aliquots accepted at approximately equal time intervals over the daily discharge period.

3. **Elkins Water Plant**

Composite samples shall be obtained by collection and combination of a minimum of four (4) equal volume aliquots with aliquots accepted at approximately equal time intervals over the daily discharge period.

The attached maintenace log for the oil/water separator shall be submitted separately to the City of Elkins wastewater treatment plant. The City of Elkins shall submit this log to the agency every quarter as an attachment to the DMR.

4. **Lohr and Barb Funeral Home**

Self-monitoring is not required at this time. However in lieu of self-monitoring, Lohr and Barb Funeral Home shall follow recommendations from its embalming chemicals' vendor, to disinfect blood and bodily fluids and to neutralize any excess formalin from its discharge. The discharge shall not cause any odor problems in the sewer collection system. Lohr and Barb Funeral Home shall maintain a record on the attached log for bodies embalmed, volume of formalin used, volume of effluent generated prior to dilution and amount of neutralizing chemicals used. The funeral home shall submit this quarterly to the POTW and the POTW shall submit this with their next DMR report to the agency.

5. **Tomblyn's Funeral Home**

Self-monitoring is not required at this time. However in lieu of self-monitoring, Tomblyn's Funeral Home shall follow recommendations from its embalming chemicals' vendor, to disinfect blood and bodily fluids and to neutralize any excess formalin from its discharge. The discharge shall not cause any odor problems in the sewer collection system. Tomblyn's Funeral Home shall maintain a record on the attached log for bodies embalmed, volume of formalin used, volume of effluent generated prior to dilution and amount of neutralizing chemicals used. The funeral home shall submit this quarterly to the POTW and the POTW shall submit this with their next DMR report to the agency.

6. **Big Timber Brewing Company**

The Big Timber Brewing Company shall sample the discharge as it gets into the sewer line prior to mixing with any other waste stream. An individual grab sample and pH measurement shall be obtained at a time that is representative of normal operations.

Composite samples shall be obtained by collection and combination of a minimum of four (4) equal volume aliquots with aliquots acceted at approximately equal time intervals over the daily dischare period.

Sampling shall be representative of normal operations and wasted lots of beer (while discharging).

c. SAMPLING AND MONITORING REQUIREMENTS:

1. Samples on non-domestic wastestreams shall be collected at the discharge point prior to its mixing with any other wastestream unless otherwise specified.
2. Sampling and analyses required by Section A.IU06, A.IU15 and A.IU20 shall be conducted in accordance with sample collection, preservation, and analytical procedures specified in 40 CFR 136.
3. As specified in Section(s) A.IU06, A.IU15 and A.IU20, the quarterly monitoring periods are Jan-Mar, Apr-Jun, Jul-Sep, and Oct-Dec.
4. If the permittee or industrial user monitors any parameter more frequently than required by Section(s) A.IU06, A.IU15 and IU.20, using procedures specified by Section E.2.c.2, then the results of additional monitoring must be reported.

Section E - Pretreatment (Industrial Users)

2. c. 5. All industrial users shall maintain information relative to self-monitoring for a minimum of three (3) years. The information maintained shall include: the date, exact location, method, and time of sampling; the sample preservation techniques used; the name of the person taking the samples; the date(s) the analyses were performed; the name of the person performing the analyses; and the analytical results.

6. Reporting of monitoring required by Section(s) A.IU06, A.IU15, and A.IU20 shall be submitted to the Division of Water Resources along with the permittee's Discharge Monitoring Reports. Reports shall contain results of all analysis performed, and the estimated daily volume of the wastewater accepted. Reports shall be due on the 25th day of the month following the end of the monitoring period. The agency is now requiring the permittee to utilize our electronic discharge monitoring report (eDMR) system which is now mandatory. The permittee is not required to submit hard copies of the DMRs to the addresses listed below when using eDMR. Special circumstances may result in the agency granting an exemption to eDMR and are considered on case by case basis. If the permittee was exempted by the agency from using the eDMR system, then the permittee is required to send hard copies to the addresses below. The permittee may contact the agency for more information about the eDMR system and potential exemptions from using it. Regardless, in accordance with Appendix A, Section III.6 of this permit, the permittee shall maintain copies of DMRs (either hard copies or electronic copies) at the plant site and the DMRs shall be made readily available upon request for DEP personnel.

Director
Division of Water and Waste Management
601 57th Street, SE
Charleston, West Virginia 25304
Attn: Permitting Branch

d. NOTIFICATION REQUIREMENTS:

1. All industrial users shall notify the permittee immediately of all discharges that could cause problems to the POTW, including any slug loadings, as defined by 40 CFR 403.5(b) of the Code of Federal Regulations.

2. All industrial users shall notify the permittee and the Division of Water and Waste Management of any discharge into the POTW of any substance, which otherwise disposed of, would be considered a hazardous waste under 40 CFR 261 of the Code of Federal Regulations unless they discharge less than fifteen (15) kilograms of non-acute hazardous waste in a calendar month.

3. For any instances that sampling results have a result of "non-detect" (less than the minimum detection level), the results shall be reported as less than the minimum detection level used. For example, if the laboratory results indicate non-detect for a parameter and the MDL is listed as 0.005 mg/l, the Industrial User shall indicate on the Discharge Monitoring Report for that parameter "< 0.005 mg/l". For purposes of averaging values, the Industrial User shall use the MDL for any values listed as non-detect, when calculating averages.

4. Each Industrial User shall submit a Discharge Monitoring Report for every monitoring period. If the Industrial User does not discharge any non-domestic waste to the POTW during a given monitoring period, the Industrial User shall still submit the appropriately filled out and signed Discharge Monitoring Report indicating "NO DISCHARGE" during the monitoring period.

5. Alternative discharge monitoring report forms shall not be used without prior approval from this Agency.

e. PROHIBITED DISCHARGES:

1. Pollutants which create a fire or explosion hazard in the POTW (wastestreams with a closed cup flashpoint of less than 140 degrees F or 60 degrees C using test methods specified in 40 CFR 261.21 of the Code of Federal Regulations).

2. Solid or viscous pollutants in amounts which will cause obstruction to the flow in the POTW resulting in interference.

3. Heat in such quantities that the temperature at the POTW exceeds 40 degrees C (104 degrees F).

Section E - Pretreatment (Industrial Users)

2. e. 4. Pollutants which result in the presence of toxic gases, vapors, or fumes within the POTW in a quantity that may cause acute worker health and safety problems.

5. Any trucked or hauled pollutants, except at discharge points designated by the POTW.

6. Any pollutant(s) discharged in a quantity which has the potential to cause Pass Through or Interference.

7. Pollutants which will cause corrosive structural damage to the POTW and, in no case, discharges with a pH lower than 5.0 S.U.

3. BYPASS:

a. Definitions.

1. Bypass means the intentional diversion of wastestreams from any portion of an Industrial User's treatment facility.

2. Severe property damage means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.

b. Bypass not violating applicable Pretreatment Standards or Requirements. An Industrial User may allow any bypass to occur which does not cause Pretreatment Standards or Requirements to be violated, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provision of paragraphs (c) and (d) of this section.

c. Notice.

1. If an Industrial User knows in advance of the need for a bypass, it shall submit prior notice to the WVDEP, if possible at least ten days before the date of the bypass.

2. An Industrial User shall submit oral notice of an unanticipated bypass that exceeds applicable Pretreatment Standards to the WVDEP within 24 hours from the time the Industrial User becomes aware of the bypass. A written submission shall also be provided within 5 days of the time the Industrial User becomes aware of the bypass. The written submission shall contain a description of the bypass and its cause; the duration of the bypass, including exact dates and times, and, if the bypass has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the bypass. The WVDEP may waive the written report on a case-by-case basis if the oral report has been received within 24 hours.

d. Prohibition of Bypass.

1. Bypass is prohibited, and the WVDEP may take enforcement action against an Industrial User for a bypass, unless;

(i) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;

(ii) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventative maintenance; and

(iii) The Industrial User submitted notices as required under paragraph (c) of this section.

2. The WVDEP may approve an anticipated bypass, after considering its adverse effects, if the WVDEP determines that it will meet the three conditions listed in paragraph (d)(1) of this section.

4. In addition to the conditions listed in Section E.2, the following conditions apply specifically to Categorical and Significant Industrial User facilities listed in Section E.1.

a. All baseline reports, reports on compliance, and self monitoring reports must be signed and certified in accordance with 40 CFR 403.12 of the Code of Federal Regulations.

Section E - Pretreatment (Industrial Users)

4. b. If a Categorical Industrial User listed in Section E.1 conducts sampling that reveals a violation of their respective limitations prescribed in Section A or any of the prohibited discharges listed in Section E.2.e, the Categorical Industrial User shall notify the Director of said violation within 24 hours of becoming aware of the violation. In addition, the Categorical Industrial User shall repeat the sampling and analysis for the pollutant in violation and submit the results to the Director within 30 days.

5. Should any of the permittee's industrial users fail to comply with the specific terms and conditions pertaining to that specific industrial user in this permit, the permittee shall immediately contact said industrial user and identify the violation causing the noncompliance with the permit. The permittee shall take all reasonable, escalating enforcement steps, up to and including disallowing the continued acceptance of the nondomestic wastewater from the industrial user, to keep the industrial user compliant with the terms and conditions of the permit. Also, the permittee shall immediately inform the Agency of any current noncompliance by industrial users by attaching a written summary of these violations, the cause of each violation, and the steps taken to prevent their recurrence with the submitted Discharge Monitoring Reports. Should the permittee take all of the enforcement steps outlined above, these actions may be used as a mitigating factor to any enforcement actions taken upon the permittee for the noncompliance by the industrial users to the terms and conditions of Section E or Sections A.IU06, A.IU15 and A.IU20 herein. However, the burden of proof in relation to the use of this mitigating factor shall lie exclusively upon the permittee. This condition shall not be used as a mitigating factor to any noncompliance associated with any other section of this permit, even if said noncompliance is, in whole or in part, caused by an industrial user.

6. The permittee shall ensure that each respective industrial user shall complete and submit a DMR and logs in accordance with Section A and Section E of this permit. DMRs and logs for industrial users shall be submitted in accordance with the agency's eDMR system as prescribed in Section C of this permit. All analytical lab forms need not be submitted, but should be available for inspection at the industrial user's facility.

7. This Division reserves the right to disallow the continued acceptance of the nondomestic wastewater(s) from any of the facilities described in Section E.1, or to require installation of additional pretreatment facilities, should the wastewater violate specified limitations, cause interference or pass-through at the POTW and result in effluent limitation violations or receiving stream degradation, or adversely impact POTW sludge disposal. Approval of the permittee's acceptance of the indirect discharge(s) in no way relieves the permittee of its obligation to comply with all terms and conditions of its WV/NPDES Permit and shall not constitute an affirmative defense in any enforcement action brought against the permittee.

Section F - Sewage Sludge Management Requirements

1. The permittee shall monitor and report monthly on the enclosed Sewage Sludge Management Report form the quality and quantity of sewage sludge produced. The required report shall be received no later than 25 days following the end of the reporting period in accordance with the following:
   a. The agency encourages the permittee to utilize our electronic Discharge Monitoring Report (eDMR) system. If the permittee uses the eDMR system, the permittee is not required to submit any hard copies to the addresses listed below. The permittee can contact the agency for more information about the eDMR system.
   b. If the permittee elects to not use the eDMR system, then the permittee is required to send hard copies to the following addresses:

```
Director
Division of Water and Waste Management
601 57th Street, SE
Charleston, West Virginia  25304
Attn: Permitting Program
---------------------------------------
Department of Environmental Protection
Environmental Enforcement
22288 Northwestern Pike
Romney, WV 26757-8005
```

2. The permittee shall provide copies of monthly reports to the county or regional solid waste authority in which the facility or land application site(s) is located.
3. The Sewage Sludge Monitoring Report form shall be submitted quarterly. The required report shall be received no later than 25 days following the end of the reporting period in accordance with the following:
   a. The agency encourages the permittee to utilize our electronic Discharge Monitoring Report (eDMR) system. If the permittee uses the eDMR system, the permittee is not required to submit any hard copies to the addresses listed below. The permittee can contact the agency for more information about the eDMR system.
   b. If the permittee elects to not use the eDMR system, then the permittee is required to send hard copies to the following addresses:

```
Director
Division of Water and Waste Management
601 57th Street, SE
Charleston, West Virginia  25304
Attn: Permitting Program
---------------------------------------
Department of Environmental Protection
Environmental Enforcement
22288 Northwestern Pike
Romney, WV 26757-8005
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4. In conjunction with all other reporting requirements of this permit, copies of all future correspondence regarding this permit will be forwarded to the Environmental Inspector and Environmental Inspector Supervisor at the following address:

```
Department of Environmental Protection
Environmental Enforcement
22288 Northwestern Pike
Romney, WV 26757
```

5. The following method(s) of sludge disposal shall be used for sewage sludge generated and/or processed at the permitted facility:
   a. Land Application: Sewage sludge shall not be applied in a manner or in an amount that would cause the land application site(s) to exceed the annual, five (5) year cumulative, and lifetime loading rates as listed below. The following site(s) may be used for land application:

Section F - Sewage Sludge Management Requirements

5. a.

Land Application Site(s)	Maximum Annual Loading Rate(s) Tons/Acre	Five (5) Year Cumulative Loading Rate(s)Tons/Acre	Lifetime Loading Rate(s)Tons/Acre
Cleveland Biller			
Big Meadow Field	2.1	8.3	117
Harris Field	2.1	8.3	120
Loading Chute	2.1	8.3	130
Riddleburger House Field	2.1	8.3	123
Schoolhouse Field	2.1	8.3	130
John Wilson			
Elliott's Ridge	2.1	8.3	92
Phillips Family			
Barn Field	2.1	8.3	118
Cabin Field	2.1	8.3	132
Far Back Field	2.1	8.3	137
Strip Field	2.1	8.3	130
Big Meadow Behind House	2.1	8.3	136
Grace Sinns Field - Leased	2.1	8.3	140
Howard Howell			
Tower Field	2.1	8.3	140
Pond Field	2.1	8.3	138
Hipple Farm - McCoy Brothers			
Field #1	2.1	8.3	128
Field #2	2.1	8.3	121
Greg Rolling			
Rolling Farm	2.1	8.3	114
Kevin Lyons			
Kevin Lyons Field	2.1	8.3	128
Strip Field	2.1	8.3	123

b. Landfill Disposal: Sewage sludge may also be disposed at a landfill by placing the sewage sludge in the landfill cell, provided that the landfill obtains approval from the Division of Water and Waste Management to allow the acceptance of sewage sludge from the permittee, and provided that the landfill(s) is/are identified in the permit application. Prior approval by the Division of Water and Waste Management is required to change landfill disposal site(s).

6. Sewage sludge shall not be applied to land that has any of the following siting restrictions and/or location standards:

a. Land that is frozen, snow-covered, or known to be flooded on a regular basis unless the applicant can demonstrate to the Secretary that the land application will not cause runoff into streams or wetlands.

b. Land that is within 50 feet of surface water including any streams, springs, ponds, wetlands, or other collection points for surface water.

c. Land that is within 200 feet of drinking water supply wells or other personal water supply.

d. Land that is within 200 feet of an occupied dwelling.

e. Land that is within 50 feet of a federal or state highway.

f. Land that is within 100 feet of an adjacent property owner's property line.

g. Land that drains into a sinkhole.

h. Land that has been tested and determined to have a pH of less than 6.2 S.U., unless the pH is adjusted to 6.2 S.U. or greater.

i. Land that has a slope greater than 15 percent.

j. Land that has a seasonal high groundwater table less than two (2) feet from the surface.

k. Land that has less than 6 inches of soil over bedrock or an impervious pan.

Section F - Sewage Sludge Management Requirements

6. l. Land that contains soil with surface permeability of less than 0.6 inches/hour or greater than 6 inches/hour.

   m. Land that, if sewage sludge was applied, is likely to adversely affect a threatened or endangered species listed under Section 4 of the Endangered Species Act or its designated critical habitat.

   n. Other land determined by the Secretary to be unsuitable of sewage sludge.

7. The following requirements concerning crops grown on land used for application of sewage sludge, the time requirements between application of sewage sludge and the harvesting of crops, and the restrictions on animal grazing and public access shall be met:

   a. Food crops with harvested parts that touch the sewage sludge/soil mixture and are totally above the land surface shall not be harvested for 14 months after application of sewage sludge.

   b. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after application of sewage sludge when the sewage sludge remains on the land surface for four (4) months or longer prior to incorporation into the soil.

   c. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months after application of sewage sludge when the sewage sludge remains on the land surface for less than four (4) months prior to incorporation into the soil.

   d. Food crops (human consumption), feed crops (animal consumption), and fiber crops shall not be harvested for 30 days after application of sewage sludge.

   e. Animals shall not be allowed to graze on the land for 30 days after application of sewage sludge.

   f. Turf grown on land where sewage sludge is applied shall not be harvested for one (1) year after application of the sewage sludge when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by the permitting authority.

   g. Public access to land with a high potential for public exposure shall be restricted for one year after application of sewage sludge.

   h. Public access to land with a low potential for public exposure shall be restricted for 30 days after application of sewage sludge.

8. Sewage sludge shall not be stored at a land application site for a period longer than one week; except, storage can be allowed for a period not to exceed three months when provisions, approved by the Director of the Division of Water and Waste Management of the Department, are made to prevent leachate runoff to the surface water and/or groundwater.

9. Sewage sludge shall only be land applied during the hours of daylight.

10. Sewage sludge which is land applied shall not contain excessive amounts of other solid waste materials, as defined in Title 33, Series 2, Section 2.34 of the Legislative Rules.

11. Areas used for processing, curing, and/or storage of sewage sludge shall be designed, constructed and operated to prevent release of contaminants to the groundwater and/or surface water.

12. The land application site(s) shall maintain the soil pH at a minimum of 6.2 S.U. for at least five (5) years from the date of application. The soil pH and soil nutrients shall be monitored once per year by obtaining a composite sample of each field utilized for land application during the previous year. The composite samples shall be made up of a minimum of four (4) aliquots taken at locations equally spaced through the land application site(s). The samples may be analyzed through the WVU Extension Service or by other certified laboratories.

13. All analyses performed on soils and sewage sludges shall be analyzed in accordance with analytical methods listed in 40 CFR Part 503.8 except that Nutrients may be analyzed in accordance with the most recently approved edition of Standard Methods and pH may be analyzed using EPA Method 9045D. Additionally, Fecal Coliform samples shall be prepared for analysis by using the method described in EPA 625R-92/013, Appendix F.

Section F - Sewage Sludge Management Requirements

14. Sewage sludge disposed in a landfill cell shall be a non-hazardous material as defined in 40 CFR Part 261.24 and a minimum of 20 percent solids. If the sewage sludge is not 20 percent solids, a bulking agent may be used to achieve 20 percent solids before the sewage sludge is weighed in at the landfill. Alternative sludge disposal methods at the landfill can be utilized upon obtaining prior written approval from the Director of the Division of Water and Waste Management.
15. The permittee shall ensure that the landfill is properly notified of how the sewage sludge being provided to the landfill can be properly disposed and that the sewage sludge being provided by the permittee meets the landfill disposal requirements, however, it may not meet the land application requirements. Should the permittee and the landfill agree that the sewage sludge will be used for revegetation, or will be spread in any other manner at the landfill, the sewage sludge shall meet all land application requirements. These requirements include vector attraction and pathogen reduction methods, heavy metals limits, and abiding by an approved loading rate based on proper soil analyses.
16. The following primary method for pathogen reduction shall apply to the sewage sludge or sewage sludge products:
    a. Fecal Coliform Analyses - Seven (7) samples are collected and analyzed separately using either MF or MPN Method. The geometric mean of these results must be less than 2,000,000 colonies/dry gram. The permittee shall maintain all laboratory bench sheets indicating all raw data used in the analyses and the calculation of the results (unless analysis was performed by a certified contract laboratory). The seven (7) individual samples shall be evenly spaced over the monitoring period with two (2) samples taken in each calendar month with the additional sample being taken during the monitoring period.
    b. If compliance cannot be achieved using the primary method for pathogen reduction, then the permittee must provide a written notification to the Director prior to using a secondary method so long as the secondary method has been previously approved and contained in this permit. The permittee shall not dispose of sewage sludge until providing this written notification to the Director. The following secondary method for pathogen reduction shall apply to the sewage sludge or sewage sludge products:

       Lime Stabilization - Lime is added to maintain the sewage sludge pH above 12.0 S.U. for at least two (2) hours after the lime addition. The permittee shall record the pH of the sewage sludge at least twice, once upon addition of lime and once two (2) hours after addition.
17. The following primary method for vector attraction reduction shall apply to the sewage sludge or sewage sludge products:
    a. Specific Oxygen Uptake Rate (SOUR) - Sewage sludge is considered stable enough for land application if the SOUR is equal to or less than 1.5 milligrams of oxygen per hour per gram of total solids (dry weight basis) at a temperature of 20 degrees Celsius. The permittee shall take dissolved oxygen (DO) readings of the sewage sludge over a fifteen(15) minute period. Either the temperature (degrees Celsius) of the sample must be adjusted to 20 degrees Celsius or the SOUR of the sewage sludge is measured at the same temperature at which digestion is occurring in the treatment works and corrected to 20 degrees Celsius.
    b. If compliance cannot be achieved using the primary method for vector attraction reduction, then the permittee must provide a written notification to the Director prior to using a secondary method so long as the secondary method has been previously approved and contained in this permit. The permittee shall not dispose of sewage sludge until providing this written notification to the Director. The following secondary method for vector attraction reduction shall apply to the sewage sludge or sewage sludge products:

       Lime Stabilization - Lime is added to maintain the sewage sludge pH above 12.0 SUs for two (2) hours and above 11.5 SUs for 24 hours after the lime addition. The permittee shall record the pH of the sewage sludge at the 0, 2, and 24 hour intervals of treatment, and record the duration of time (hours) that the pH is maintained at or above the specified minimum levels.
18. The permittee shall maintain all records and reports of all monitoring required by Section D of this permit for five (5) years after the date of monitoring or reporting. Records should include all sample results, including pathogen and vector attraction reduction monitoring; any landfill receipts; land application records, including site maps, the landowner agreement, soil sample results, daily and cumulative sludge loading rate information; copies of all required reports; and records of all data used to complete these reports.

Section F - Sewage Sludge Management Requirements

19. The appropriate composite sampling procedures shall be based upon the particular sludge processing methods used by the permittee. The composite sampling procedures for the various methods are described as follows:

    Belt Press or Vacuum Filter - During the week that the composite sample is obtained, the permittee shall take a minimum of three (3) grab samples during each day of the week that the dewatering system is in operation. These grab samples are to be mixed together and the final sample obtained from the composite. Samples should be collected at a point immediately after the dewatering operation.

    Liquid Sludge - During the week that the composite sample is obtained, the permittee shall take a representative grab sample from each truck load of sewage sludge hauled during that week. These grab samples are to be mixed together and the final sample obtained from the composite. Samples should be collected from the sewage sludge being pumped into the truck or as the sewage sludge is being discharged from the truck.

    Sewage Sludge Drying Beds - During the week that the composite sample is obtained, the permittee shall take a minimum of four (4) grab samples from each bed finished during that week. These grab samples are to be mixed together and the final sample obtained from the composite.

    Composting or Stock Piles - The permittee shall obtain a minimum of eight (8) grab samples from the pile of finished product. These grab samples are to be mixed together and the final sample obtained from the composite.

20. Written notification shall be given to the Director within five (5) days of the determination of any excursion(s) of the maximum allowable limitations for sewage sludge listed in Section A.S01 of this Permit. A written plan to identify and correct the excursion(s) must be submitted to the Director within sixty (60) days.

21. When representatives of the Director are performing compliance assessment activities that are independent of the data provided by the permittee, no single instantaneous grab sample of the final sewage sludge product shall exceed the values found below as listed in Table 2 of the West Virginia Sewage Sludge Management Regulations (Title 33, Series 2).

Metal	Concentration (mg/kg)
Arsenic	75
Cadmium	85
Chromium	3000
Copper	4300
Lead	840
Mercury	57
Molybdenum	75
Nickel	420
Selenium	100
Zinc	7500

22. Sewage sludge shall not be land applied in a manner or in an amount that will cause the land application site(s) to exceed the maximum soil concentrations for the following heavy metals:

Parameter	Maximum Allowable Limitations For Soils (mg/kg)
Arsenic	13.0
Cadmium	2.4
Chromium	290.0
Copper	92.0
Lead	85.0
Mercury	2.4
Molybdenum	4.6
Nickel	83.0*
Selenium	10.0
Zinc	290.0**

* For sandy to silt loam soils with a permeability greater than 2.0 inches per hour, the maximum allowable soil concentration for nickel is 50.0 mg/kg.

Section F - Sewage Sludge Management Requirements

22. ** For those sites with greater than 30% legume species, the maximum allowable soil concentration for zinc is 130.0 mg/kg for sandy to silt loam soils with permeability greater than 2.0 inches per hour and 200.0 mg/kg for other soil types.

23. All land application site(s) shall have new soil analyses performed for the metals listed in Section F.22 of this Permit when the cumulative loading reaches 50% of the assigned lifetime loading rate.

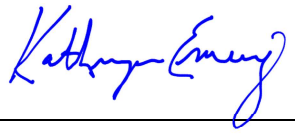
24. Should any landowner of a sludge land application site fail to comply with the terms and conditions pertaining to the landowner under an applicable landowner agreement, the permittee shall immediately contact said landowner and identify the violation causing the noncompliance with the said agreement. The permittee shall take all reasonable, escalating enforcement steps, up to and including disallowing further land application of sludge on the owner's site, in order to keep the landowner compliant with the terms and conditions of said land owner agreement. Also, the permittee shall immediately inform the Agency of any current noncompliance by the owner of a land application site by attaching a written summary of these violations, the cause of each violation, and the steps taken to prevent their recurrence with the submitted Sludge Monitoring Reports. Should the permittee take all of the enforcement steps outlined above, these actions may be used as a mitigating factor to any enforcement actions taken upon the permittee for the noncompliance by the land application site owners to the terms and conditions of Section D herein. However, the burden of proof in relation to the use of this mitigating factor shall lie exclusively upon the permittee. This condition shall not be used as a mitigating factor to any noncompliance associated with any other sections of this permit, even if said noncompliance is, in whole or in part, caused by the land application site owner.

25. The City of Elkins sewage treatment facility may accept sewage sludge from the City of Belington, the Town of Junior, the City of Beverly, Alpine Shores Campground, McCarty’s Septic Service, The Outhouse, and M&M Septic Plumbing, LLC. However, sewage sludge from the above listed sources must be deposited into the WWTP's sewage sludge processing facilities for final processing and disposal.

The herein-described activity is to be extended, modified, added to, made, enlarged, acquired, constructed or installed, and operated, used and maintained strictly in accordance with the terms and conditions of this permit, with the plans and specifications submitted with Permit Application No. WV0020028; with the plan of maintenance and method of operation thereof submitted with such application(s); and with any applicable rules and regulations promulgated by the Environmental Quality Board and the Secretary of the Department of Environmental Protection.

Failure to comply with the terms and conditions of this permit, with the plans and specifications submitted with Permit Application No. WV0020028; and with the plan of maintenance and method of operation thereof submitted with such application(s) shall constitute grounds for the revocation or suspension of this permit and the invocation of all the enforcement procedures set forth in Chapter 22, Article 11, or 15 of the Code of West Virginia.

This permit is issued in accordance with the provisions of Chapter 22, Article 11 and 12 and/or 15 of the Code of West Virginia and is transferable under the terms of Section 11 of Article 11.



Katheryn Emery, P.E., Director

Appendix A

I. MANAGEMENT CONDITIONS:

1. Duty to Comply

a) The permittee must comply with all conditions of this permit. Permit noncompliance constitutes a violation of the CWA and State Act and is grounds for enforcement action; for permit modification, revocation and reissuance, suspension or revocation; or for denial of a permit renewal application.

b) The permittee shall comply with all effluent standards or prohibitions established under Section 307(a) of the CWA for toxic pollutants within the time provided in the regulations that establish these standards or prohibitions, even if the permit has not yet been modified to incorporate the requirement.

2. Duty to Reapply

If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must apply for a new permit at least 180 days prior to expiration of the permit.

3. Duty to Mitigate

The permittee shall take all reasonable steps to minimize or prevent any discharge in violation of this permit, which has a reasonable likelihood of adversely affecting human health or the environment.

4. Permit Actions

This permit may be modified, revoked and reissued, suspended, or revoked for cause. The filing of a request by the permittee for permit modification, revocation and reissuance, or revocation, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.

5. Property Rights

This permit does not convey any property rights of any sort or any exclusive privilege.

6. Signatory Requirements

All applications, reports, or information submitted to the Director shall be signed and certified as required in Title 47, Series 10 , Section 4.6 of the West Virginia Legislative Rules.

7. Transfers

This permit is not transferrable to any person except after notice to the Director. The Director may require modification or revocation and reissuance of the permit to change the name of the permittee and incorporate such other requirements as may be necessary.

8. Duty to Provide Information

The permittee shall furnish to the Director, within a reasonable specified time, any information which the Director may request to determine whether cause exists for modifying, revoking and reissuing, suspending, or revoking this permit, or to determine compliance with this permit. The permittee shall also furnish to the Director, upon request, copies of records required to be kept by this permit.

9. Other Information

Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Director, it shall promptly submit such facts or information.

10. Inspection and Entry

The permittee shall allow the Director, or an authorized representative, upon the presentation of credentials and other documents as may be required by law, to:

a) Enter upon the permittee's premises in which an effluent source or activity is located, or where records must be kept under the conditions of this permit;

b) Have access to and copy at reasonable times, any records that must be kept under the conditions of this permit;

c) Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and

d) Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the State Act, any substances or parameters at any location.

11. Permit Modification

This permit may be modified, suspended, or revoked in whole or in part during its term in accordance with the provisions of Chapter 22-11-12 of the Code of West Virginia.

12. Water Quality

This discharge shall not cause or materially contribute to: distinctly visible floating or settable solids, suspended solids, scum, foam or oily slicks; deposits or sludge bank on the bottom; odors in the vicinity of the waters; taste or odor that would adversely affect the designated uses of the affected waters; distinctly visible color which may impair or interfere with the designated uses of the affected waters; and shall not cause a fish or mussel kill. The limitations and conditions in this permit for the discharges identified in this permit are limitations and conditions that are necessary to meet applicable West Virginia water quality standards, Requirements Governing Water Quality Standards 47 CSR 2.

13. Outlet Markers

A permanent marker at the establishment shall be posted in accordance with Title 47, Series 11, Section 9 of the West Virginia Legislative Rules.

14. Liabilities

a) Any person who violates a permit condition implementing sections 301, 302, 306, 307, 308, 318, or 405 of the Clean Water Act is subject to a civil penalty not to exceed $25,000 per day of such violation. Any person who willfully or negligently violates permit conditions implementing sections 301, 302, 306, 307, 308 or 405 of the Clean Water Act is subject to a fine of not less than $2,500 nor more than $25,000 per day of violation, or by imprisonment for not more than 1 year, or both.

b) Any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under this permit shall, upon conviction, be punished by a fine of not more than $10,000 per violation, or by imprisonment for not more than 2 years, or by both.

c) Any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or noncompliance shall, upon conviction, be punished by a fine of not more than $10,000 per violation, or by imprisonment for not more than 2 years, or by both.

d) Nothing in I.14 a), b), and c) shall be construed to limit or prohibit any other authority the Director may have under the State Water Pollution Control Act, Chapter 22, Article 11.

II. OPERATION AND MAINTENANCE:

1. Proper Operation and Maintenance

The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance also includes adequate laboratory controls, and appropriate quality assurance procedures. Unless otherwise required by Federal or State law, this provision requires the operation of back-up auxiliary facilities or similar systems which are installed by the permittee only when the operation is necessary to achieve compliance with the conditions of the permit. For domestic waste treatment facilities, waste treatment operators as classified by the WV Bureau of Public Health Laws, W. Va. Code Chapter 16-1, will be required except that in circumstances where the domestic waste treatment facility is receiving any type of industrial waste, the Director may require a more highly skilled operator.

2. Need to Halt or Reduce Activity Not a Defense

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit.

3. Bypass

a) Definitions
   (1) "Bypass" means the intentional diversion of waste streams from any portion of a treatment facility; and
   (2) "Severe property damage" means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.

b) Bypass not exceeding limitations. The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provision of II.3.c) and II.3.d) of this permit.

c) (1) If the permittee knows in advance of the need for a bypass, it shall submit prior notice, if possible at least ten (10) days before the date of the bypass;
   (2) If the permittee does not know in advance of the need for bypass, notice shall be submitted as required in IV.2.b) of this permit.

d) Prohibition of bypass
   (1) Bypass is permitted only under the following conditions, and the Director may take enforcement action against a permittee for a bypass, unless;
      (A) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
      (B) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate backup equipment should have been installed in the exercise of reasonable engineering judgement to prevent a bypass which occurred during normal periods of equipment downtime or preventative maintenance; and
      (C) The permittee submitted notices as required under II.3.c) of this permit.
   (2) The Director may approve an anticipated bypass, after considering its adverse effects, if the Director determines that it will meet the three conditions listed in II.3.d.(1) of this permit.

4. Upset

a) Definition. "Upset" means an exceptional incident in which there is unintentional and temporary noncompliance with technology-based permit effluent limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventative maintenance, or careless or improper operation.

b) Effect of an upset. An upset constitutes an affirmative defense to an action brought for noncompliance with such technology-based permit effluent limitation if the requirements of II.4.c) are met. No determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is final administrative action subject to judicial review.

c) Conditions necessary for a demonstration of upset. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:
   (1) An upset occurred and that the permittee can identify the cause(s) of the upset;
   (2) The permitted facility was at the time being properly operated;
   (3) The permittee submitted notice of the upset as required in IV.2.b) of this permit.
   (4) The permittee complied with any remedial measures required under I.3. of this permit.

d) Burden of proof. In any enforcement proceeding the permittee seeking to establish the occurrence of an upset has the burden of proof.

5. Removed Substances

Where removed substances are not otherwise covered by the terms and conditions of this permit or other existing permit by the Director, any solids, sludges, filter backwash or other pollutants (removed in the course of treatment or control of wastewaters) and which are intended for disposal within the State, shall be disposed of only in a manner and at a site subject to the approval by the Director. If such substances are intended for disposal outside the State or for reuse, i.e., as a material used for making another product, which in turn has another use, the permittee shall notify the Director in writing of the proposed disposal or use of such substances, the identity of the prospective disposer or users, and the intended place of disposal or use, as appropriate.

III. MONITORING AND REPORTING

1. Representative Sampling

Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.

2. Reporting

a) Permittee shall submit, according to the enclosed format, a Discharge Monitoring Report (DMR) indicating in terms of concentration, and/or quantities, the values of the constituents listed in Part A analytically determined to be in the plant effluent(s). DMR submissions shall be made in accordance with the terms contained in Section C of this permit.

b) Enter reported average and maximum values under "Quantity" and "Concentration" in the units specified for each parameter, as appropriate.

c) Specify the number of analyzed samples that exceed the allowable permit conditions in the columns labeled "N.E." (i.e., number exceeding).

d) Specify frequency of analysis for each parameter as number of analyses/specified period (e.g.,3/month is equivalent to 3 analyses performed every calendar month). If continuous, enter "Cont.". The frequency listed on format is the minimum required.

3. Test Procedures

Samples shall be taken, preserved and analyzed in accordance with the latest edition of 40 CFR Part 136, unless other test procedures have been specified elsewhere in this permit.

4. Recording of Results

For each measurement or sample taken pursuant to the permit, the permittee shall record the following information.

a) The date, exact place, and time of sampling or measurement;

b) The date(s) analyses were performed;

c) The individual(s) who performed the sampling or measurement;

d) The individual(s) who performed the analyses; if a commercial laboratory is used, the name and address of the laboratory;

e) The analytical techniques or methods used, and

f) The results of such analyses. Information not required by the DMR form is not to be submitted to this agency, but is to be retained as required in III.6.

5. Additional Monitoring by Permittee

If the permittee monitors any pollutant at any monitoring point specified in this permit more frequently than required by this permit, using approved test procedures or others as specified in this permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the Discharge Monitoring Report Form. Such increased frequency shall also be indicated. Calculations for all limitations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified in the permit.

6. Records Retention

The permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for the permit, for a period of at least three (3) years from the date of the sample, measurement, report or application. This period may be extended by request of the Director at any time.

7. Definitions

a) "Daily discharge" means the discharge of a pollutant measured during a calendar day or within any specified period that reasonably represents the calendar day for purposes of sampling. For pollutants with limitations expressed in units of mass, the daily discharge is calculated as the total mass of the pollutant discharged over the day. For pollutants with limitations expressed in other units of measurement, the daily discharge is calculated as the average measurement of the pollutant over the day.

b) "Average monthly discharge limitation" means the highest allowable average of daily discharges over a calendar month, calculated as the sum of all daily discharges measured during a calendar month divided by the number of daily discharges measured during that month.

c) "Maximum daily discharge limitation" means the highest allowable daily discharge.

d) "Composite Sample" is a combination of individual samples obtained at regular intervals over a time period. Either the volume of each individual sample is proportional to discharge flow rates or the sampling interval (for constant volume samples) is proportional to the flow rates over the time period used to produce the composite. The maximum time period between individual samples shall be two hours.

e) "Grab Sample" is an individual sample collected in less than 15 minutes.

f) "is" = immersion stabilization - a calibrated device is immersed in the effluent stream until the reading is stabilized.

g) The "daily average temperature" means the arithmetic average of temperature measurements made on an hourly basis, or the mean value plot of the record of a continuous automated temperature recording instrument, either during a calendar month, or during the operating month if flows are of shorter duration.

h) The "daily maximum temperature" means the highest arithmetic average of the temperatures observed for any two (2) consecutive hours during a 24 hour day, or during the operating day if flows are of shorter duration.

i) The "monthly average fecal coliform" bacteria is the geometric average of all samples collected during the month.

j) "Measured Flow" means any method of liquid volume measurement, the accuracy of which has been previously demonstrated in engineering practice, or which a relationship to absolute volume has been obtained.

k) "Estimate" means to be based on a technical evaluation of the sources contributing to the discharge including, but not limited to pump capabilities, water meters and batch discharge volumes.

l) "Non-contact cooling water" means the water that is contained in a leak-free system, i.e., no contact with any gas, liquid, or solid other than the container for transport; the water shall have no net poundage addition of any pollutant over intake water levels, exclusive of approved anti-fouling agents.

IV. OTHER REPORTING

1. Reporting Spills and Accidental Discharges

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to Title 47, Series 11, Section 2 of the West Virginia Legislative Rules promulgated pursuant to Chapter 22, Article 11. Attached is a copy of the West Virginia Spill Alert System for use in complying with Title 47, Series 11, Section 2 of the Legislative rules as they pertain to the reporting of spills and accidental discharges.

2. Immediate Reporting

a) The permittee shall report any noncompliance which may endanger health or the environment immediately after becoming aware of the circumstances by using the Agency's designated spill alert telephone number. A written submission shall be provided within five (5) days of the time the permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.

b) The following shall also be reported immediately:
   (1) Any unanticipated bypass which exceeds any effluent limitation in the permit;
   (2) Any upset which exceeds any effluent limitation in the permit; and
   (3) Violation of a maximum daily discharge limitation for any of the pollutants listed by the Director in the permit shall be reported immediately. This list shall include any toxic pollutant or hazardous substance, or any pollutant specifically identified as the method to control a toxic pollutant or hazardous substance.

c) The Director may waive the written report on a case-by-case basis if the oral report has been received in accordance with the above.

d) Compliance with the requirements of IV.2 of this section, shall not relieve a person of compliance with Title 47, Series 11, Section 2.

3. Reporting Requirements

a) Planned changes. The permittee shall give notice to the Director of any planned physical alterations or additions to the permitted facility which may affect the nature or quantity of the discharge. Notice is required when:
   (1) The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source in Section 13.7.b of Series 10, Title 47; or
   (2) The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations in the permit, nor to notification requirements under IV.2 of this section.

b) Anticipated noncompliance. The permittee shall give advance notice to the Director of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.

c) In addition to the above reporting requirements, all existing manufacturing, commercial, and silvicultural discharges must notify the Director in writing as soon as they know or have reason to believe:
   (1) That any activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, or any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":
      (A) One hundred micrograms per liter (100 ug/l);
      (B) Two hundred micrograms per liter (200 ug/l) for acrolein and acrylonitrile; five hundred micrograms per liter (500 ug/l) for 2,4-dinitro phenol; and for 2-methyl 4,6-dinitrophenol; and one milligram per liter (1 mg/l) for antimony;
      (C) Five (5) times the maximum concentration value reported for that pollutant in the permit application in accordance with Section 4.4.b.9 of Series10, Title 47.
      (D) The level established by the Director in accordance with Section 6.3.g of Series 10, Title 47;
   (2) That any activity has occurred or will occur which would result in any discharge (on a non-routine or infrequent basis) of a toxic which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":
      (A) Five hundred micrograms per liter (500 ug/l);
      (B) One milligram per liter (1 mg/l) for antimony;
      (C) Ten (10) times the maximum concentration value reported for that pollutant in the permit application in accordance with Section 4.4.b.7 of Series 10, Title 47;
      (D) The level established by the Director in accordance with Section 6.3.g of Series 10, Title 47.
   (3) That they have begun or expect to begin to use or manufacture as an intermediate or final product or by-product of any toxic pollutant which was not reported in the permit application under Section 4.4.b.9 of Series 10, Title 47 and which will result in the discharge on a routine or frequent basis of that toxic pollutant at levels which exceed five times the detection limit for that pollutant under approved analytical procedure.
   (4) That they have begun or expect to begin to use or manufacture as an intermediate or final product or by-product of any toxic pollutant which was not reported in the permit application under Section 4.4.b.9 of Series 10, Title 47 and which will result in the discharge on a non-routine or infrequent basis of that toxic pollutant at levels which exceed ten times the detection limit for that pollutant under approved analytical procedure.

4. Other Noncompliance

The permittee shall report all instances of noncompliance not reported under the above paragraphs at the time monitoring reports are submitted. The reports shall contain the information listed in IV.2.a). Should other applicable noncompliance reporting be required, these terms and conditions will be found in Section C of this permit.

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT

Permit Limits

FACILITY NAME: (ELKINS CITY OF) ELKINS, CITY OF
LOCATION OF FACILITY: ELKINS; Randolph County
PERMIT NO.: WV0020028 001
WASTELOAD FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E.				CEL*	Units	N.E.		
50050 (ML-1) RF-A Flow,in Conduit or thru plant Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mgd		Continuous	measured
00310 (ML-B) RF-A BOD, 5-Day 20 Deg.C Year Round	Reported												
	Permit Limits	624.2 Avg. Monthly	1248.5 Max. Daily	Lbs/Day		N/A	15 Avg. Monthly	30 Max. Daily	N/A	mg/l		1/week	8 hr comp
00530 (ML-A) RF-A Total Suspended Solids Year Round	Reported												
	Permit Limits	1248.5 Avg. Monthly	2497 Max. Daily	Lbs/Day		N/A	30 Avg. Monthly	60 Max. Daily	N/A	mg/l		1/week	8 hr comp
81010 (ML-K) RF-A BOD, % Removal Year Round	Reported												
	Permit Limits	N/A	N/A			85 Month. Avg. Min.	N/A	N/A	N/A	Percent		1/week	Calculated
81011 (ML-K) RF-A Suspended Solids, % Removal Year Round	Reported												
	Permit Limits	N/A	N/A			85 Month. Avg. Min.	N/A	N/A	N/A	Percent		1/week	Calculated
74055 (ML-A) RF-A Coliform, Fecal Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	200 Mon. Geo. Mean	400 Max. Daily	N/A	Cnts/100m		1/week	Grab

* CEL = Compliance Evaluation Level

Name of Principal Executive Officer	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations.	Date Completed
Title of Officer		Signature of Principal Executive Officer or Authorized Agent

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT

Permit Limits

FACILITY NAME: (ELKINS CITY OF) ELKINS, CITY OF
LOCATION OF FACILITY: ELKINS; Randolph County
PERMIT NO.: WV0020028 001
WASTELOAD FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E.				CEL*	Units	N.E.		
00400 (ML-A) RF-A pH Year Round	Reported												
	Permit Limits	N/A	N/A			6 Inst. Min.	N/A	9 Inst. Max.	N/A	S.U.		1/week	Grab
00300 (ML-A) RF-A Dissolved Oxygen Year Round	Reported												
	Permit Limits	N/A	N/A			7.25 Inst. Min.	N/A	N/A	N/A	mg/l		1/week	Grab
00610 (ML-A) RF-A Ammonia Nitrogen Year Round	Reported												
	Permit Limits	41.6 Avg. Monthly	83.2 Max. Daily	Lbs/Day		N/A	1 Avg. Monthly	2 Max. Daily	N/A	mg/l		1/week	8 hr comp
00665 (ML-A) RF-A Phosphorus, Total Summer May 1-Oct 31	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		2/month	8 hr comp
01119 (ML-A) RF-A Copper, Total Recoverable Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	0.006 Avg. Monthly	0.012 Max. Daily	N/A	mg/l		1/month	8 hr comp
01114 (ML-A) RF-A Lead, Total Recoverable Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	0.002 Avg. Monthly	0.005 Max. Daily	N/A	mg/l		1/month	8 hr comp

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Title of Officer		Signature of Principal Executive Officer or Authorized Agent

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT

Permit Limits

FACILITY NAME: (ELKINS CITY OF) ELKINS, CITY OF
LOCATION OF FACILITY: ELKINS; Randolph County
PERMIT NO.: WV0020028 001
WASTELOAD FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E.				CEL*	Units	N.E.		
01094 (ML-A) RF-A Zinc, Total Recoverable Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	0.054 Avg. Monthly	0.106 Max. Daily	N/A	mg/l		1/month	8 hr comp
01002 (ML-A) RF-D Arsenic, Total (as As) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/year	8 hr comp
01113 (ML-A) RF-D Cadmium, Total Recoverable Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/year	8 hr comp
01032 (ML-A) RF-D Chromium, Hexavalent Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/year	8 hr comp
00718 (ML-A) RF-D Cyanide, Weak Acid Dissociable Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/year	Grab
71900 (ML-A) RF-D Mercury, Total (as Hg) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	ug/l		1/year	Grab

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Title of Officer		Signature of Principal Executive Officer or Authorized Agent

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT

Permit Limits

FACILITY NAME: (ELKINS CITY OF) ELKINS, CITY OF
LOCATION OF FACILITY: ELKINS; Randolph County
PERMIT NO.: WV0020028 001
WASTELOAD FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E.				CEL*	Units	N.E.		
01074 (ML-A) RF-D Nickel, Total Recoverable Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/year	8 hr comp
01079 (ML-A) RF-D Silver, Total Recoverable Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/year	8 hr comp
00900 (ML-6) RF-C Hardness, Total (as CaCO3) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
01104 (ML-A) RF-D Aluminum, Total Recoverable Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/year	8 hr comp
61426 (ML-A) RF-D Chronic Tox-Ceriodaphnia Dubia Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	TUc		1/year	8 hr comp
61428 (ML-A) RF-D Chronic Toxicity - Pimephales Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	TUc		1/year	8 hr comp

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Title of Officer		Signature of Principal Executive Officer or Authorized Agent

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT

FACILITY NAME: (ELKINS CITY OF) ELKINS, CITY OF
LOCATION OF FACILITY: ELKINS; Randolph County
PERMIT NO.: WV0020028 002
WASTELOAD FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E.				CEL*	Units	N.E.		
50050 (ML-1) RF-C Flow,in Conduit or thru plant Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mgd		1/6 months	Estimated
00310 (ML-1) RF-C BOD, 5-Day 20 Deg.C Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
00530 (ML-1) RF-C Total Suspended Solids Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
74055 (ML-1) RF-C Coliform, Fecal Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Mon. Geo. Mean	400 Max. Daily	N/A	Cnts/100m		1/6 months	Grab
00400 (ML-1) RF-C pH Year Round	Reported												
	Permit Limits	N/A	N/A			Rpt Only Inst. Min.	N/A	Rpt Only Inst. Max.	N/A	S.U.		1/6 months	Grab
00610 (ML-1) RF-C Ammonia Nitrogen Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab

* CEL = Compliance Evaluation Level

Name of Principal Executive Officer	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations.	Date Completed
Title of Officer		Signature of Principal Executive Officer or Authorized Agent

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT

FACILITY NAME: (ELKINS CITY OF) ELKINS, CITY OF
LOCATION OF FACILITY: ELKINS; Randolph County
PERMIT NO.: WV0020028 002
WASTELOAD FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E.				CEL*	Units	N.E.		
81017 (ML-1) RF-C Chem. Oxygen Demand Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
00552 (ML-1) RF-C Oil and Grease, Hexane EXTR. Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab

* CEL = Compliance Evaluation Level

Name of Principal Executive Officer	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations.	Date Completed
Title of Officer		Signature of Principal Executive Officer or Authorized Agent

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT

FACILITY NAME: (Elkins Landfill) ELKINS, CITY OF
LOCATION OF FACILITY: ELKINS; Randolph County
PERMIT NO.: WV0020028 IU06
WASTELOAD FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E.				CEL*	Units	N.E.		
00056 (ML-4) RF-A Flow Rate Year Round	Reported			gpd					N/A			1/daily	Estimated
	Permit Limits	Rpt Only Avg. Monthly	50000 Max. Daily			N/A	N/A	N/A					
00310 (ML-4) RF-A BOD, 5-Day 20 Deg.C Year Round	Reported			Lbs/Day					N/A	mg/l		2/month	Comp
	Permit Limits	Rpt Only Avg. Monthly	210 Max. Daily			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
00530 (ML-4) RF-A Total Suspended Solids Year Round	Reported			Lbs/Day					N/A	mg/l		2/month	Comp
	Permit Limits	Rpt Only Avg. Monthly	Rpt Only Max. Daily			N/A	Rpt Only Avg. Monthly	300 Max. Daily					
00625 (ML-4) RF-A Nitrogen, Kjeldahl Total Year Round	Reported			Lbs/Day					N/A	mg/l		2/month	Comp
	Permit Limits	Rpt Only Avg. Monthly	21 Max. Daily			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
01002 (ML-4) RF-A Arsenic, Total (as As) Year Round	Reported			Lbs/Day					N/A	mg/l		2/month	Comp
	Permit Limits	Rpt Only Avg. Monthly	Rpt Only Max. Daily			N/A	Rpt Only Avg. Monthly	0.01 Max. Daily					
71900 (ML-4) RF-A Mercury, Total (as Hg) Year Round	Reported			Lbs/Day					N/A	mg/l		2/month	Grab
	Permit Limits	Rpt Only Avg. Monthly	Rpt Only Max. Daily			N/A	Rpt Only Avg. Monthly	0.0005 Max. Daily					

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Name of Principal Executive Officer	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations.	Date Completed
Title of Officer		Signature of Principal Executive Officer or Authorized Agent

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT

FACILITY NAME: (Elkins Landfill) ELKINS, CITY OF
LOCATION OF FACILITY: ELKINS; Randolph County
PERMIT NO.: WV0020028 IU06
WASTELOAD FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E.				CEL*	Units	N.E.		
01027 (ML-4) RF-A Cadmium, Total (as Cd) Year Round	Reported			Lbs/Day					N/A	mg/l		2/month	Comp
	Permit Limits	Rpt Only Avg. Monthly	Rpt Only Max. Daily			N/A	Rpt Only Avg. Monthly	0.005 Max. Daily					
01042 (ML-4) RF-A Copper, Total (as Cu) Year Round	Reported			Lbs/Day					N/A	mg/l		2/month	Comp
	Permit Limits	Rpt Only Avg. Monthly	Rpt Only Max. Daily			N/A	Rpt Only Avg. Monthly	0.4 Max. Daily					
01051 (ML-4) RF-A Lead, Total (as Pb) Year Round	Reported			Lbs/Day					N/A	mg/l		2/month	Comp
	Permit Limits	Rpt Only Avg. Monthly	Rpt Only Max. Daily			N/A	Rpt Only Avg. Monthly	0.05 Max. Daily					
01077 (ML-4) RF-A Silver, Total (as Ag) Year Round	Reported			Lbs/Day					N/A	mg/l		2/month	Comp
	Permit Limits	Rpt Only Avg. Monthly	Rpt Only Max. Daily			N/A	Rpt Only Avg. Monthly	0.1 Max. Daily					
01092 (ML-4) RF-A Zinc, Total (as Zn) Year Round	Reported			Lbs/Day					N/A	mg/l		2/month	Comp
	Permit Limits	Rpt Only Avg. Monthly	Rpt Only Max. Daily			N/A	Rpt Only Avg. Monthly	0.5 Max. Daily					
01067 (ML-4) RF-A Nickel, Total (as Ni) Year Round	Reported			Lbs/Day					N/A	mg/l		2/month	Comp
	Permit Limits	Rpt Only Avg. Monthly	Rpt Only Max. Daily			N/A	Rpt Only Avg. Monthly	0.2 Max. Daily					

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Name of Principal Executive Officer	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations.	Date Completed
Title of Officer		Signature of Principal Executive Officer or Authorized Agent

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT

FACILITY NAME: (Elkins Water Plant) ELKINS, CITY OF
LOCATION OF FACILITY: ELKINS; Randolph County
PERMIT NO.: WV0020028 IU15
WASTELOAD FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E.				CEL*	Units	N.E.		
00056 (ML-4) RF-A	Reported												
Flow Rate	Permit Limits	Rpt Only Avg. Monthly	70000 Max. Daily	gpd		N/A	N/A	N/A	N/A			1/daily	Estimated
Year Round													
00530 (ML-4) RF-A	Reported												
Total Suspended Solids	Permit Limits	Rpt Only Avg. Monthly	Rpt Only Max. Daily	Lbs/Day		N/A	Rpt Only Avg. Monthly	200 Max. Daily	N/A	mg/l		1/month	Comp
Year Round													
01042 (ML-4) RF-A	Reported												
Copper, Total (as Cu)	Permit Limits	Rpt Only Avg. Monthly	Rpt Only Max. Daily	Lbs/Day		N/A	Rpt Only Avg. Monthly	0.05 Max. Daily	N/A	mg/l		1/month	Comp
Year Round													
01105 (ML-4) RF-A	Reported												
Aluminum, Total (as Al)	Permit Limits	Rpt Only Avg. Monthly	Rpt Only Max. Daily	Lbs/Day		N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/month	Comp
Year Round													
01092 (ML-4) RF-A	Reported												
Zinc, Total (as Zn)	Permit Limits	Rpt Only Avg. Monthly	Rpt Only Max. Daily	Lbs/Day		N/A	Rpt Only Avg. Monthly	0.1 Max. Daily	N/A	mg/l		1/month	Comp
Year Round													
01045 (ML-4) RF-A	Reported												
Iron, Total (as Fe)	Permit Limits	Rpt Only Avg. Monthly	Rpt Only Max. Daily	Lbs/Day		N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/month	Comp
Year Round													

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Title of Officer		Signature of Principal Executive Officer or Authorized Agent

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT

FACILITY NAME: (Big Timber Brewing Company) ELKINS, CITY OF
LOCATION OF FACILITY: ELKINS; Randolph County
PERMIT NO.: WV0020028 IU20
WASTELOAD FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E.				CEL*	Units	N.E.		
00056 (ML-4) RF-A Flow Rate Year Round	Reported			gpd					N/A			1/daily	Estimated
	Permit Limits	Rpt Only Avg. Monthly	5000 Max. Daily			N/A	N/A	N/A					
00310 (ML-4) RF-A BOD, 5-Day 20 Deg.C Year Round	Reported			Lbs/Day					N/A	mg/l		1/month	Comp
	Permit Limits	Rpt Only Avg. Monthly	Rpt Only Max. Daily			N/A	Rpt Only Avg. Monthly	6000 Max. Daily					
00530 (ML-4) RF-A Total Suspended Solids Year Round	Reported			Lbs/Day					N/A	mg/l		1/month	Comp
	Permit Limits	Rpt Only Avg. Monthly	Rpt Only Max. Daily			N/A	Rpt Only Avg. Monthly	2000 Max. Daily					
00400 (ML-4) RF-A pH Year Round	Reported								N/A	S.U.		1/month	Grab
	Permit Limits	N/A	N/A			5 Inst. Min.	N/A	10 Inst. Max.					
00625 (ML-4) RF-A Nitrogen, Kjeldahl Total Year Round	Reported			Lbs/Day					N/A	mg/l		1/month	Comp
	Permit Limits	Rpt Only Avg. Monthly	Rpt Only Max. Daily			N/A	Rpt Only Avg. Monthly	100 Max. Daily					
01042 (ML-4) RF-A Copper, Total (as Cu) Year Round	Reported								N/A	mg/l		1/month	Comp
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	0.08 Max. Daily					

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Name of Principal Executive Officer	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations.	Date Completed
Title of Officer		Signature of Principal Executive Officer or Authorized Agent

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT

FACILITY NAME: (Big Timber Brewing Company) ELKINS, CITY OF
LOCATION OF FACILITY: ELKINS; Randolph County
PERMIT NO.: WV0020028 IU20
WASTELOAD FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E.				CEL*	Units	N.E.		
01092 (ML-4) RF-A Zinc, Total (as Zn) Year Round	Reported								N/A	mg/l		1/month	Comp
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	0.5 Max. Daily					
00011 (ML-4) RF-A Temperature, F Year Round	Reported								N/A	DEG.F		1/month	Insitu
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					

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Name of Principal Executive Officer	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations.	Date Completed
Title of Officer		Signature of Principal Executive Officer or Authorized Agent

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
SEWAGE SLUDGE MONITORING REPORT

FACILITY NAME: (ELKINS CITY OF) ELKINS, CITY OF
LOCATION OF FACILITY: ELKINS; Randolph County
PERMIT NO.: WV0020028 S01
RESULTS FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E.				CEL*	Units	N.E.		
00400 (ML-+) RF-B pH Year Round	Reported												
	Permit Limits	N/A	N/A			Rpt Only Minimum	N/A	Rpt Only Maximum	N/A	S.U.		1/quarter	Grab
61521 (ML-+) RF-B Arsenic, Sludge Tot. Dry Wt. Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	N/A	20 Maximum	N/A	mg/kg		1/quarter	1 Week Comp
78476 (ML-+) RF-B Cadmium,Sludge,Tot Dry Wt. Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	N/A	39 Maximum	N/A	mg/kg		1/quarter	1 Week Comp
78473 (ML-+) RF-B Chromium, Dry Wt. Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	N/A	1000 Maximum	N/A	mg/kg		1/quarter	1 Week Comp
78475 (ML-+) RF-B Copper,Sludge,Tot,Dry Wt. Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	N/A	1500 Maximum	N/A	mg/kg		1/quarter	1 Week Comp
78468 (ML-+) RF-B Lead, Dry. Wt. Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	N/A	250 Maximum	N/A	mg/kg		1/quarter	1 Week Comp

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Title of Officer		Signature of Principal Executive Officer or Authorized Agent

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
SEWAGE SLUDGE MONITORING REPORT

Permit Limits

FACILITY NAME: (ELKINS CITY OF) ELKINS, CITY OF
LOCATION OF FACILITY: ELKINS; Randolph County
PERMIT NO.: WV0020028 S01
RESULTS FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E.				CEL*	Units	N.E.		
78471 (ML-+) RF-B Mercury, Dry Wt. Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	N/A	10 Maximum	N/A	mg/kg		1/quarter	1 Week Comp
78465 (ML-+) RF-B Molybdenum,Dry Wgt Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	N/A	18 Maximum	N/A	mg/kg		1/quarter	1 Week Comp
78469 (ML-+) RF-B Nickel, Dry Wt. Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	N/A	200 Maximum	N/A	mg/kg		1/quarter	1 Week Comp
49031 (ML-+) RF-B Selenium,Sludge,Tot. Dry Wt. Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	N/A	36 Maximum	N/A	mg/kg		1/quarter	1 Week Comp
78467 (ML-+) RF-B Zinc, Dry Wt. Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	N/A	2800 Maximum	N/A	mg/kg		1/quarter	1 Week Comp
00916 (ML-+) RF-B Calcium, Total (as Ca) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Maximum	N/A	mg/kg		1/quarter	1 Week Comp

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Title of Officer		Signature of Principal Executive Officer or Authorized Agent

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
SEWAGE SLUDGE MONITORING REPORT

FACILITY NAME: (ELKINS CITY OF) ELKINS, CITY OF
LOCATION OF FACILITY: ELKINS; Randolph County
PERMIT NO.: WV0020028 S01
RESULTS FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E.				CEL*	Units	N.E.		
61553 (ML-+) RF-B Solids, Total Sludge Percent Year Round	Reported												
	Permit Limits	N/A	N/A			Rpt Only Minimum	Rpt Only Avg.	Rpt Only Maximum	N/A	Percent		1/quarter	1 Week Comp
78472 (ML-+) RF-B Potassium, Sludge Tot. Dry Wt. Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Maximum	N/A	mg/kg		1/quarter	1 Week Comp
78478 (ML-+) RF-B Phosphorus,Sludge,Tot,Dry Wt. Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Maximum	N/A	mg/kg		1/quarter	1 Week Comp
82294 (ML-+) RF-B Nitrogen, Ammonia Tot. DW Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Maximum	N/A	mg/kg		1/quarter	1 Week Comp
78470 (ML-+) RF-B Nitrogen, Sludge Tot. Dry Wt Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Maximum	N/A	mg/kg		1/quarter	1 Week Comp
51020 (ML-+) RF-B Organic Nitrogen Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Maximum	N/A	mg/kg		1/quarter	1 Week Comp

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Title of Officer		Signature of Principal Executive Officer or Authorized Agent

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
SEWAGE SLUDGE MONITORING REPORT

FACILITY NAME: (ELKINS CITY OF) ELKINS, CITY OF
LOCATION OF FACILITY: ELKINS; Randolph County
PERMIT NO.: WV0020028 S01
RESULTS FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E.				CEL*	Units	N.E.		
00927 (ML-+) RF-B Magnesium,Tot (as Mg) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Maximum	N/A	mg/kg		1/quarter	1 Week Comp
31641 (ML-+) RF-B Fecal Coliform (Sludge) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Maximum	N/A	col/gr		1/quarter	Grab

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Name of Principal Executive Officer	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations.	Date Completed
Title of Officer		Signature of Principal Executive Officer or Authorized Agent

SEWAGE SLUDGE MANAGEMENT REPORT

FACILITY NAME: (ELKINS CITY OF)ELKINS, CITY OF
ADDRESS: 401 Davis Ave, Elkins, WV 26241

DESIGN FLOW: 4,990,000 gpd
YEAR: _____
MONTH: _____

PERMIT NUMBER: WV0020028
MONITORING FREQUENCY: _____
LAST SAMPLE DATE: _____

Total Sludge Generated this Report Period: (Dry Tons) _____
Sludge Generated this Year to Date: (Dry Tons) _____
Sewage Sludge/Domestic Septage Received: (Gallons) _____

Disposal Method: _____
Amount Disposed: (Dry tons) _____
Name of Landfill or Compost Facility : _____

Percent Solids: Average: _____ Measurement Frequency: _____ Number of Loads Landfilled With Less Than 20% Solids: _____

Pathogen Reduction Method:

- ☐ Not Applicable. No land application of sewage sludge.
- ☐ Fecal Coliform Monitoring: Geometric mean of last seven samples is _____ col/dry gram
  Sample results for this report period were: _____ col/dry gram _____ col/dry gram
- ☐ Lime Addition: pH of sample two hours after lime addition: Range _____
- ☐ Aerobic Digestion: Average detention time for this report period:(days) _____
  Digester Temperature: Average _____ Range _____
- ☐ Anaerobic Digestion: Average detention time for this report period:(days) _____
  Digester Temperature: Average _____ Range _____
- ☐ Other: (Provide Description) _____

NE: Number of loads land applied which did not fully meet pathogen reduction requirements: _____

Vector Attraction Reduction Method:

- ☐ Not Applicable. No land application of sewage sludge.
- ☐ 38% Volatile Solids Reduction: Average volatile solids reduction for the month of _____ was _____ percent
- ☐ SOUR: The average Specific Oxygen Uptake rate for the month of _____ was _____ mg Oxygen/hour/dry gram
- ☐ Lime Addition: pH of sample two hours after lime addition: Range _____
  pH of sample 24 hours after lime addition: Range _____
- ☐ Other: (Provide Description) _____

NE: Number of loads land applied which did not fully meet vector attraction reduction requirements: _____

I certify under penalty of law that the management practices, vector attraction reduction requirements, and the pathogen reduction requirements of Federal regulations 40 CFR Part 503 and State Regulation Title 33, Series 2 have been met for all sewage sludge land applied during this report period. This determination has been made under my supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate information used to determine these requirements have been met. I also certify that this document and all the attachments were prepared under my direction or supervision, and that the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are penalties for false certification including the possibility of fine and imprisonment.

OFFICIAL _____ TITLE _____

SIGNATURE _____ DATE _____

Additional Comments or Explanation:

Oil Water Separator Log

Submit to wastewater treatment plant once per quarter

POTW Elkins, City of WV0020028

IU No. and location Water Plant Garage - IU15

Separator Vendor: _____

Model: _____

Separator Size (gallons): _____

Flow Capacity (gpm): _____

Design Sludge Depth (in): _____

Design Oil Depth (in): _____

Maximum daily flow sent during quarter _____

Enter data below a minimum of once per month and submit to POTW once per quarter.

Inspection Date	Inspected by: (Initials)	Floating Oil Depth (inches)	Sludge Depth (inches)	Date Separator Cleaned

Comments

_____

_____

_____

_____

_____

_____

Signature: _____

Title: _____

Date: _____

Funeral Home Log for Formalin usage

Submit to wastewater treatment plant once/quarter

POTW: Elkins, City of WV0020028 Funeral Home: Lohr and Barb - IU18

Neutralizing chemical used: _____

Enter data below at least once/month or more frequently if needed

Date	Number of bodies embalmed	Amount of formalin used (ounces)	Amount of neutralizing chemical used (ounces)	Initials of operator

Comments

_____

_____

_____

_____

_____

_____

Signature: _____

Title: _____

Date: _____

Funeral Home Log for Formalin usage

Submit to wastewater treatment plant once/quarter

POTW: Elkins, City of WV0020028 Funeral Home: Tomblyn's - IU19

Neutralizing chemical used: _____

Enter data below at least once/month or more frequently if needed

Date	Number of bodies embalmed	Amount of formalin used (ounces)	Amount of neutralizing chemical used (ounces)	Initials of operator

Comments

_____

_____

_____

_____

_____

_____

Signature: _____

Title: _____

Date: _____

EMERGENCY RESPONSE SPILL ALERT SYSTEM
WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION

REQUIREMENTS:

Title 47, Series 11, Section 2 of the West Virginia Legislative Rules, Environmental Protection, Water Resources - Waste Management, Effective July 1, 1994.

RESPONSIBILITY FOR REPORTING:

Each and every person who may cause or be responsible for any spill or accidental discharge of pollutants into the waters of the State shall give immediate notification to the Division of Water and Waste Management's Emergency Notification Number, 1-800-642-3074. Such notification shall set forth insofar as possible and as soon thereafter as practical the time and place of such spill or discharge, type or types and quantity or quantities of the material or materials therein, action or actions taken to stop such spill or discharge and to minimize the polluting effect thereof, the measure or measures taken or to be taken in order to prevent a recurrence of any such spill or discharge and such additional information as may be requested by the Division of Water and Waste Management. This also applies to spills to the waters of the State resulting from accidents to common carriers by highway, rail and water.

It shall be the responsibility of each industrial establishment or other entity discharging directly to a stream to have available the following information pertaining to those substances that are employed or handled in its operation in sufficiently large amounts as to constitute a hazard in case of an accidental spill or discharge into a public stream:

(1) Potential toxicity in water to man, animals and aquatic life;
(2) Details on analytical procedures for the quantitative estimation of such substances in water and
(3) Suggestions on safeguards or other precautionary measures to nullify the toxic effects of a substance once it has gotten into a stream.

Failure to furnish such information as required by Section 14, Article 11, Chapter 22, Code of West Virginia may be punishable under Section 24, Article 11, Chapter 22, and/or Section 22, Article 11, Chapter 22, Code of West Virginia.

It shall be the responsibility of any person who causes or contributes in any way to the spill or accidental discharge of any pollutant or pollutants into State waters to immediately take any and all measures necessary to contain such spill or discharge. It shall further be the responsibility of such person to take any and all measures necessary to clean-up, remove and otherwise render such spill or discharge harmless to the waters of the State.

When the Director determines it necessary for the effective containment and abatement of spills and accidental discharges, the Director may require the person or persons responsible for such spill or discharge to monitor affected waters in a manner prescribed by the Director until the possibility of any adverse effect on the waters of the State no longer exists.

VOLUNTARY REPORTING BY LAW OFFICERS, U. S. COAST GUARD, LOCK MASTERS AND OTHERS:

In cases involving river and highway accidents where the responsible party may or may not be available to report the incident, law officers, U. S. Coast Guard, Lock Masters and other interested person(s) should make the report.

WHO TO CONTACT:
Notify the following number: **1-800-642-3074**

INFORMATION NEEDED:
- Source of spill or discharge
- Location of incident
- Time of incident
- Material spilled or discharged
- Amount spilled or discharged
- Toxicity of material spilled or discharged
- Personnel at the scene
- Actions initiated
- Shipper/Manufacturer identification
- Railcar/Truck identification number
- Container type

NOTICE TO PERMITTEES

The 1999 regular session of the West Virginia legislature revised the Water Pollution Control Act, Chapter 22, Article 11, Section 10 of the Code of West Virginia relating to fees associated with permits. This section of the Code requires all holders of a State water pollution control permit or a national pollutant discharge elimination system permit to be assessed an annual permit fee, based upon rules promulgated by the Secretary of the Department of Environmental Protection. The Secretary has promulgated a final rule in accordance with the code revision to this effect and these rules were effective May 4, 2000. The rules establish an annual permit fee based upon the relative potential to degrade the waters of the State which, in most instances, relate to volume of discharge. However, for sewage facilities, the annual permit fee is based upon the number of customers served by the facility. You may contact the Secretary of State's Office, State Capitol Building, Charleston, WV 25305, to obtain a copy of the rules. The reference is Title 47, Legislative Rules, Department of Environmental Protection, Division of Water Resources, Series 26 Water Pollution Control Permit Fee Schedules.

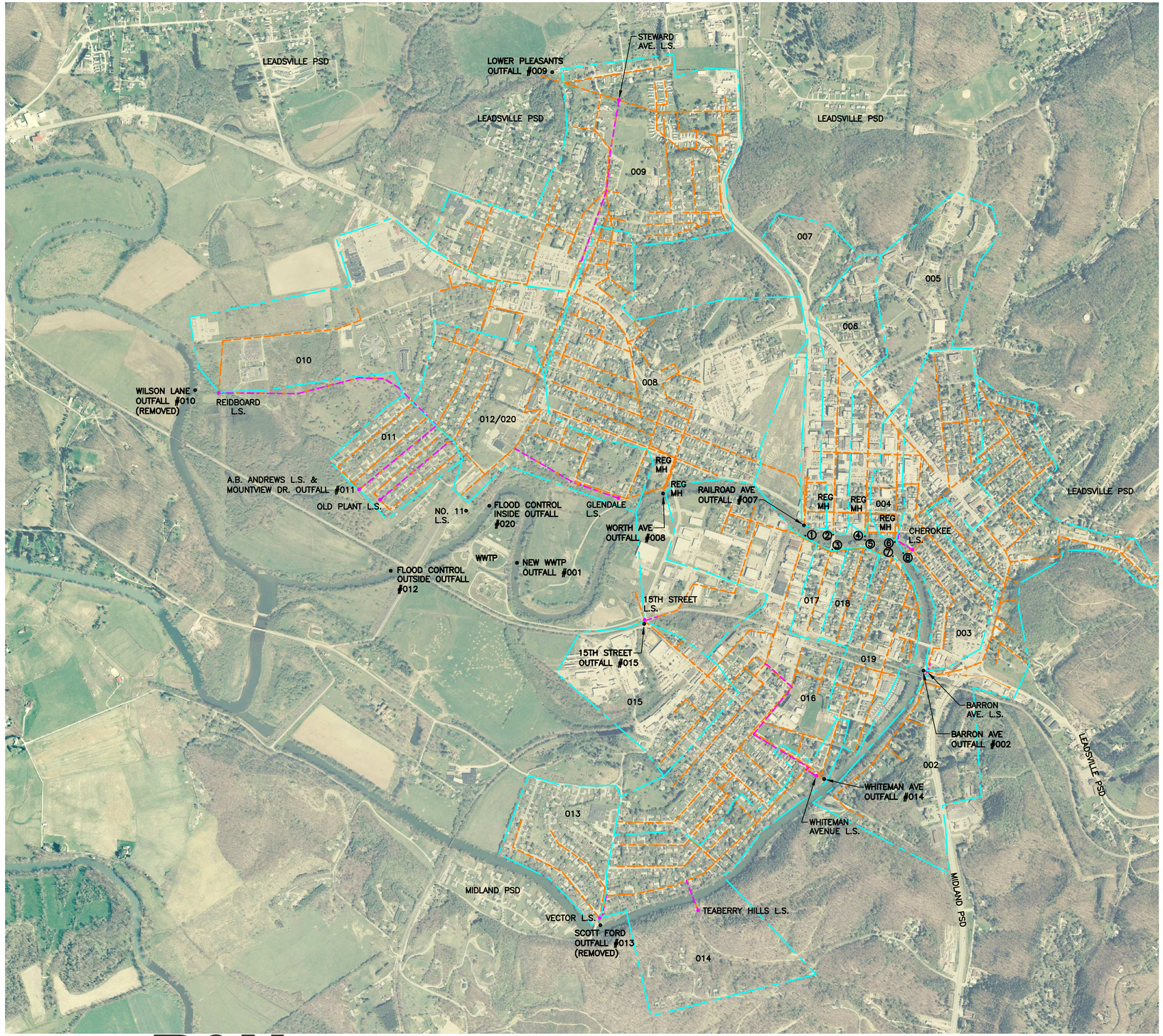
Based upon the volume of discharge for which your facility is currently permitted, the number of customers served by your facility or for the category you fall within, pursuant to Section 7 of Title 47, Series 26, your annual permit fee is **$2500.00**. This fee is due no later than the anniversary date of permit issuance in each year of the term of the permit or in the case of coverage under a general permit, the fee is due no later than the anniversary date of your coverage under the general permit. **You will be invoiced by this agency at the appropriate time for the fee**. Failure to submit the annual fee within ninety(90) days of the due date will render your permit void upon the date you are mailed a certified written notice to that effect.

RIGHT OF APPEAL

Notice is hereby given of your right to appeal the terms and conditions of this permit which you are aggrieved by to the Environmental Quality Board by filing a NOTICE OF APPEAL on the form prescribed by such Board for this purpose, with the Board, in accordance with the provisions of Section 21, Article 11, Chapter 22 of the Code of West Virginia within thirty (30) days after the date of receipt of the above permit.

Appendix B

CSS Boundaries and CSO Locations Map



① SOUTH RAILROAD AVE OUTFALL #016
② DAVIS AVE OUTFALL #006
③ SOUTH DAVIS AVE OUTFALL #017
④ KERENS AVE OUTFALL #005
⑤ SOUTH KERENS AVE OUTFALL #018
⑥ HENRY AVE OUTFALL #004
⑦ SOUTH HENRY AVE OUTFALL #019
⑧ CHEROKEE OUTFALL #003

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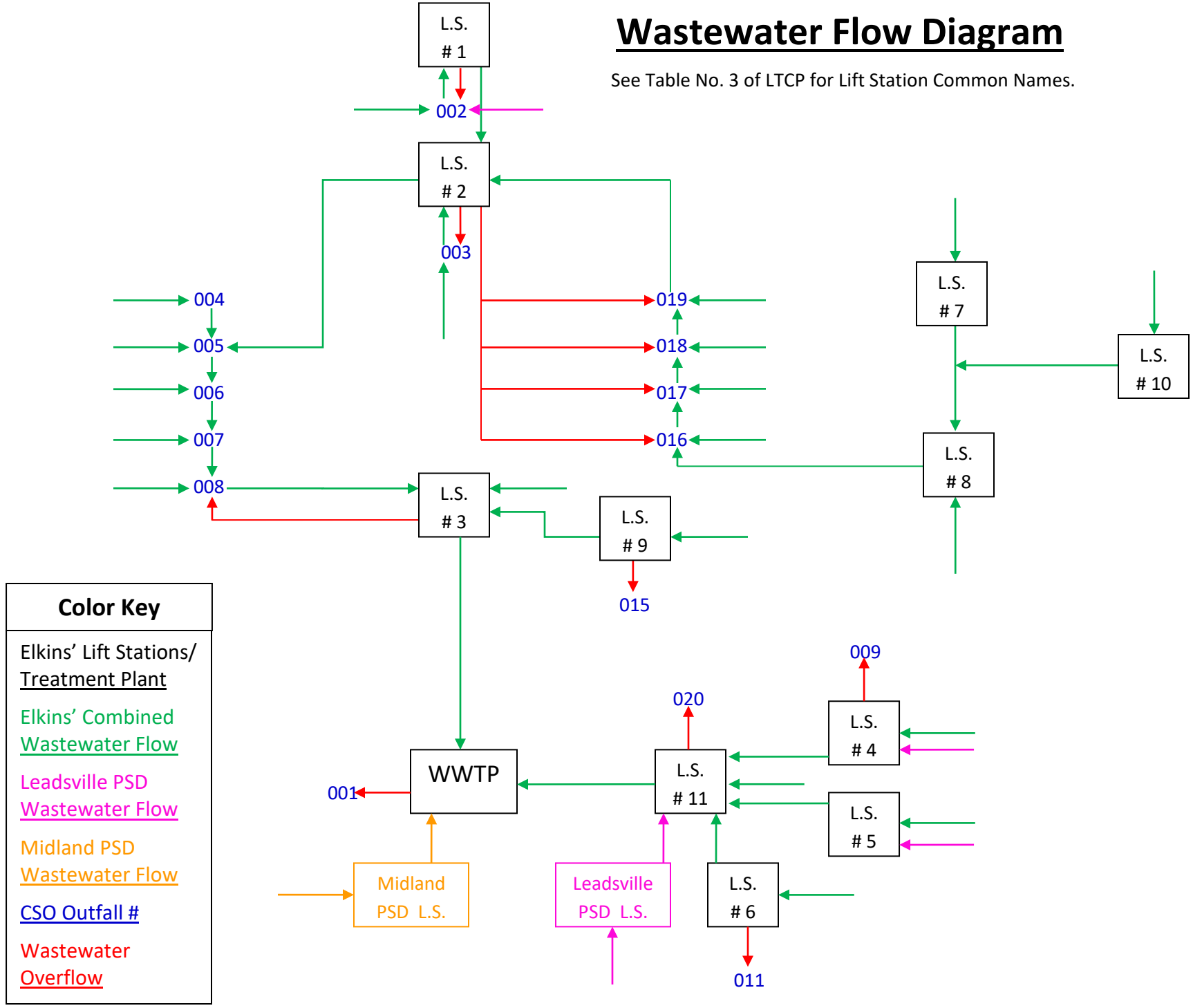
CITY OF ELKINS
LONG-TERM CONTROL PLAN UPDATED
TRIBUTARY AREA SEWERS

Appendix C

Schematic Diagram of the Combined Sewer System

Wastewater Flow Diagram

See Table No. 3 of LTCP for Lift Station Common Names.



Appendix D

Lift Station Location Map

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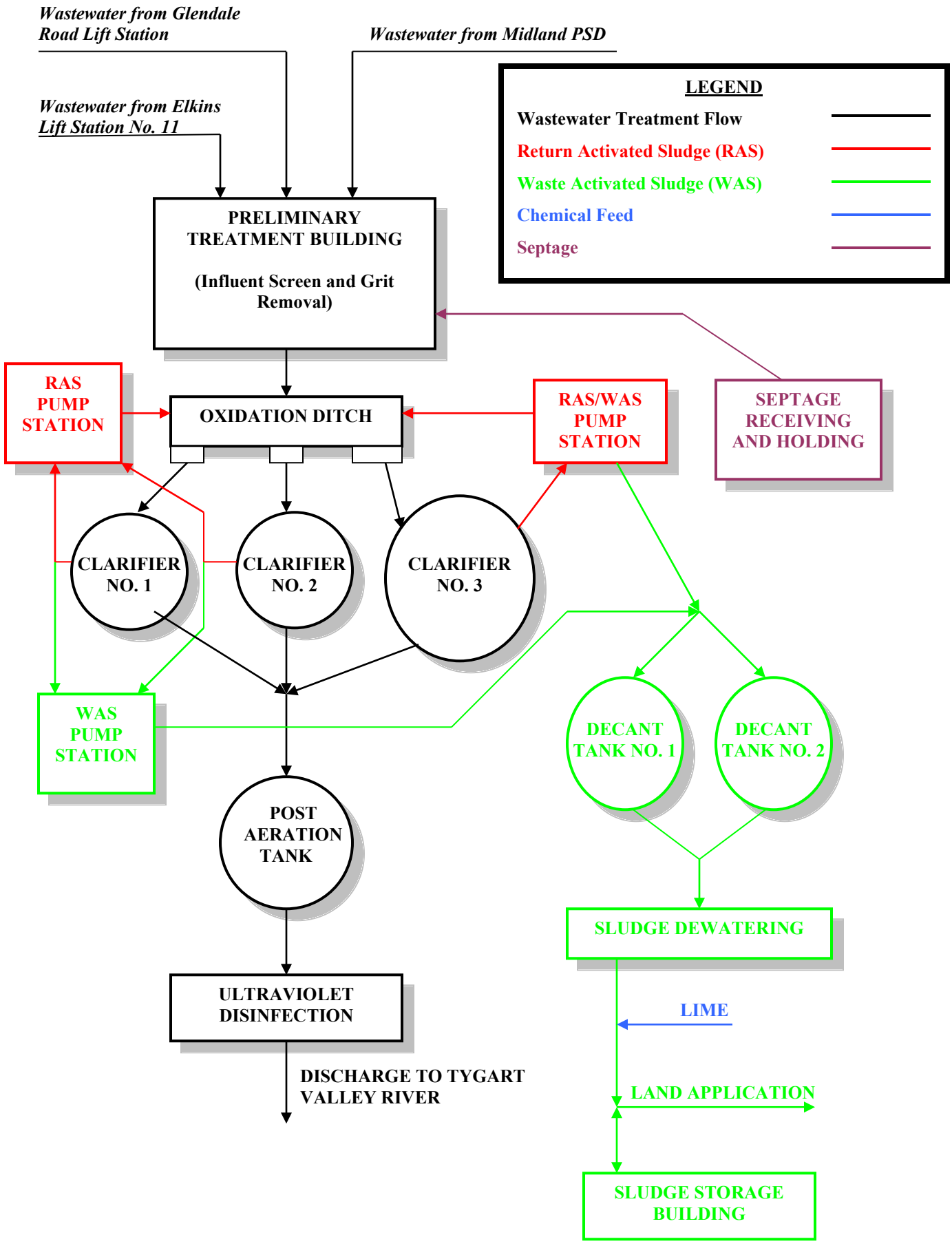
CITY OF ELKINS
LONG-TERM CONTROL PLAN UPDATE
LIFT STATION LOCATION MAP

Appendix E

Wastewater Treatment Plant Information


Wastewater from Glendale Road Lift Station
Wastewater from Midland PSD
Wastewater from Elkins Lift Station No. 11
LEGEND
Wastewater Treatment Flow
Return Activated Sludge (RAS)
Waste Activated Sludge (WAS)
Chemical Feed
Septage
PRELIMINARY TREATMENT BUILDING
(Influent Screen and Grit Removal)
RAS PUMP STATION
OXIDATION DITCH
RAS/WAS PUMP STATION
SEPTAGE RECEIVING AND HOLDING
CLARIFIER NO. 1
CLARIFIER NO. 2
CLARIFIER NO. 3
WAS PUMP STATION
DECANT TANK NO. 1
DECANT TANK NO. 2
POST AERATION TANK
SLUDGE DEWATERING
ULTRAVIOLET DISINFECTION
LIME
DISCHARGE TO TYGART VALLEY RIVER
LAND APPLICATION
SLUDGE STORAGE BUILDING

CITY OF ELKINS, WEST VIRGINIA
WASTEWATER TREATMENT PLANT IMPROVEMENTS PROJECT
BASIC DESIGN DATA

June 17, 2008

Preliminary Treatment

Influent Screen Number and Type	One, Step Screen
Screen Channel Width	3 ft
Screen Opening Size	0.25 inch (6 mm)
Screen Drive Size	2 Hp
Screenings Compactor Number and Type	One, Auger
Compactor Drive Size	1 Hp
Existing Grit Removal Number and Type	One, Vortex
Existing Grit Chamber Dimensions	10 ft diameter x 2 ft SWD
Grit Pump Number and Type	1, Recessed Impeller
Grit Pump Capacity	220 gpm at 25 ft TDH
Grit Pump Motor Size	10 Hp

Oxidation Ditch

Number and Layout	One, Racetrack
Approximate Dimensions	488 ft x 30 ft x 10 ft SWD
Capacity	257,400 cu ft
	1,950,000 gal
Brush Aerator Size	40 Hp
Existing Blower Number and Capacity	Two, 600 scfm
Existing Blower Motor Size	40 Hp
New Blower Number and Capacity	Two, 1,350 scfm @ 5.5 psi
New Blower Motor Size	75 Hp

Secondary Clarifiers

Existing Clarifier Number and Type	Two, Circular
Existing Clarifier Dimensions, Each	59 ft 6 in diameter x 12 ft SWD
Existing Clarifier Surface Area, Total	5,560 sq ft
New Clarifier Number and Type	One, Circular
New Clarifier Dimensions	90 ft diameter x 12 ft SWD
New Clarifier Surface Area	6,360 sq ft

Post Aeration (Existing)

Number and Type	One, Circular
Dimensions	28 ft 6 in diameter x 12 ft SWD
Capacity	2,440 cu ft
	18,200 gal
New Aerator Number and Type	Two, Submerged Aspirating Aerator
New Aerator Size	15 Hp

Ultraviolet Radiation (Existing)

Number of Unit and Type	Two, Flow Tubes

RAS Pumps (Existing)

Number and Type	Two, Screw Pumps
Pump Size	36 in diameter
Capacity	2,066 gpm
Motor Size	7.5 Hp

WAS Pumps (Existing)

Number and Type	Two, Submersible
Capacity	350 gpm @ 38 ft TDH
Motor Size	10 Hp

RAS/WAS Pump Station (New)

RAS Pump Number and Type	Two, Vertical Centrifugal
RAS Pump Maximum Capacity	2,050 gpm @ 45 ft TDH
Motor Size and Control	40 Hp, VFD
WAS Pump Number and Type	Two, Vertical Centrifugal
WAS Pump Capacity	400 gpm @ 16 ft TDH
Motor Size	5 Hp

Scum Pump Station No. 1 (New)

Manhole Size	5 ft diameter
Pump Number and Type	One, Double Disc Positive Displacement
Pump Capacity	30 gpm @ 18 ft TDH
Pump Motor Size	3 Hp

Scum Pump Station No. 2 (New)

Manhole Size	5 ft diameter
Pump Number and Type	One, Double Disc Positive Displacement
Pump Capacity	30 gpm @ 34 ft TDH
Pump Motor Size	3 Hp

Decant Tanks

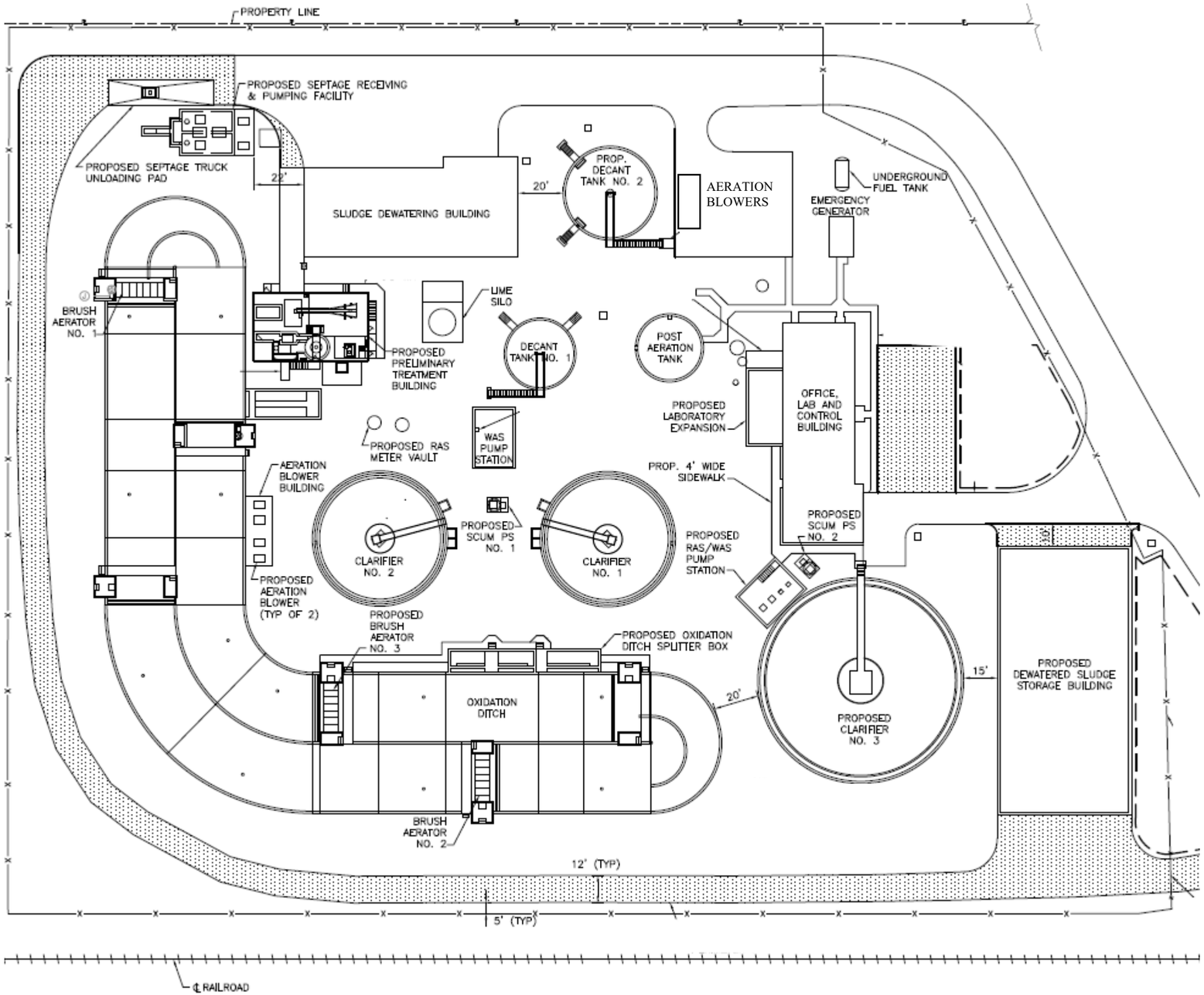
Existing Tank Number and Type	One, Circular
Existing Tank Dimensions	30 ft diameter x 20 ft SWD
Existing Tank Capacity	15,400 cu ft
	115,500 gal
New Mixer Number and Type	One, Submersible
Mixer Size	25 Hp
New Tank Number and Type	One, Circular
New Tank Dimensions	40 ft diameter x 20 ft diameter
New Tank Capacity	25,100 cu ft
	188,000 gal
New Mixer Number and Type	One, Submersible
Mixer Size	25 Hp

Sludge Dewatering

New Belt Press Feed Pumps Number and Type	Two, Progressive Cavity
Maximum Capacity	120 gpm @ 28 ft TDH
Motor Size and Control	7.5 Hp, VFD
New Belt Press Number and Type	Two, Two-Belt
Belt Size	1.5 meter
Capacity	600 lbs/hr/meter
Belt Filter Wash Pump Capacity	65 gpm @ 70 psi
Hydraulic Pump Motor Size (each press)	7.5 Hp
Belt Drive Motor Size (each press)	1.5 Hp

Septage Receiving (New)

Screen Type	Manually Cleaned Bar Screen
Bar Opening	1.25 inch
Number and Type of Storage Tanks	Two, Rectangular
Tank Dimensions	22 ft x 8 ft 6 in x 10 ft SWD
Tank Volume, Each	1,870 cu ft
	14,000 gal
Septage Pump Number and Type	Two, Double Disc Positive Displacement
Septage Pump Capacity	75 gpm @ 30 ft TDH
Septage Pump Motor Size	5 Hp



BURGESS & NIPLE

CITY OF ELKINS
LONG-TERM CONTROL PLAN UPDATE
WASTEWATER TREATMENT PLANT LAYOUT

Appendix F

Water Quality Data from CSS Improvements, Phase 1 Project

CITY OF ELKINS SANITARY BOARD
POST CONSTRUCTION MONITORING REPORT
SAMPLING DATA

December 22, 2016

Date	Type	Fecal Concentration (counts/100 mL)		
		Scott Ford Boat Dock	Worth Avenue	Oak Grove
12/7/2015	Dry Weather	102	136	159
1/14/2016	Dry Weather	29	185	123
2/22/2016	Dry Weather	130	>600	290
3/29/2016	Dry Weather	123	937	257
4/19/2016	Dry Weather	23	80	82
5/26/2016	Dry Weather	79	458	226
6/22/2016	Dry Weather	120	469	340
6/23/2016	Wet Weather	738	>600	512
7/21/2016	Dry Weather	70	521	252
8/24/2016	Dry Weather	59	>600	231
9/26/2016	Dry Weather	24	>600	168
9/30/2016	Wet Weather	>600	>600	>600
10/27/2016	Dry Weather	28	75	81

Appendix G

Nine Minimum Controls Audit

CSO NMC Implementation Policy Audit

City of Elkins Sanitary Board	401Davis Avenue, Elkins, WV 26241	WV0020028
FACILITY NAME	FACILITY ADDRESS	NPDES PERMIT NO.
Whitney Hymes	Wastewater Superintendent	September 27, 2022
CONTACT NAME	CONTACT TITLE	DATE OF AUDIT
(304) 636-1122	(304) 636-1177	Mike Currence .
PHONE NUMBER	FAX NUMBER	AUDIT LEADER

1. Proper Operation and Maintenance - The permittee shall prepare, maintain and implement a Combined Sewer Overflow (CSO) Operation and Maintenance Manual (OMM).

	YES	NO	N/A	Source*
a. Does the OMM describe routine operation, inspection, maintenance and training activities?	√			OMM
b. Is the OMM reviewed and updated at least one time a year to ensure accuracy?	√			OMM
c. Does the OMM describe the entities involved in developing and approving the **annual CSO budget**?	√			OMM
d. Does the annual budget address adequate CSO staffing, equipment and training needs?	√			P
e. Has the annual budget been approved for the current year?	√			P
f. Does the OMM address a **documentation and recordkeeping** system?	√			OMM
g. Does a current and accurate sketch/map depict CSO outfall locations, receiving streams (and nearby tributaries of the receiving streams), any potential areas of concern (i.e. identified swimming or water recreational areas, drinking water intakes) and the location of rain gauges?	√			OMM
h. Does the recordkeeping system maintain the following records for a minimum of five (5) years:				
1) Collection system and outfall inspection reports and forms?	√			CSR
2) Operation and maintenance Logs?	√			CSR
3) Training records?	√			CSR
4) CSO related customer complaints?	√			CSR
5) Annual summaries of wet-weather and dry-weather CSO events?	√			CSR
6) Procedures that accurately describe the current operations, inspections and maintenance of CSO equipment and controls?	√			OMM
7) CSO Summary Reports (CSR) that are issued in a timely manner that accurately summarize CSO activities that occurred in the past reporting period, including a year-to-date wet and dry-weather CSO events?	√			CSR
i. Has the permittee implemented **municipal ordinances** to prevent connections of roof drains and to prevent the intentional dumping of trash or other unwanted solid waste into the collection system?	√			L

*Information Source= **OMM** -Operations & Maintenance Manual, **CSR**-CSO Summary Report, **P** -Procedure, **L**=LTCP, **P**=Permit, **D**=Direct Observation, **I**=Interview

CSO NMC Implementation Policy Audit

j.	Does the **Training Program** include such activities as: state certification for collection system, safe use tools, handling hazardous chemicals, electrical hazards, confined space, etc.?	√			P
k.	Are the Training Program activities adequately summarized in the OMM and CSRs?	√			OMM/ CSR
l.	Does the permitte properly establish and maintain regularly scheduled **CSO outfall inspections** that accurately detect, identify and document all wet-weather and dry-weather discharges?	√			OMM
m.	Is the inspection frequency for dry-weather overflows based on the priory rating of the CSOs?	√			OMM
n.	Are the high priority CSOs inspected for dry-weather discharges on a daily basis?			√	L
o.	Are the lower rated priority CSOs inspected for dry-weather discharges on a weekly basis?	√			OMM
p.	Can the permittee ensure either by visual observations or by use of some other detection methods (flow meters, flow diction devices, wood blocks, chalk marks, etc.) that all wet-weather and dry-weather events are accurately detected?	√			L
q.	At a minimum do the **CSO outfall inspection records** include the following information:				
	1) Date of inspection?	√			CSR
	2) CSO outfalls inspected?	√			CSR
	3) Name of inspector?	√			CSR
	4) Comments when outfall is discharging or not?	√			CSR
	5) Rain gauge precipitation measurements?	√			CSR
	6) Measured or estimated volumes discharged and/or durations of discharges ?	√			L
	7) General observations about condition of outfall warning signs?	√			CSR
	8) Presence of trash or sludge banks in or near the receiving stream?	√			CSR
	9) Comments about condition of outfall structure?	√			CSR
	10) Summary of any corrective actions taken?	√			CSR
r.	Does the permittee maintain a minimum of one (1) **rain gauge** to record the amount of precipitation?	√			I
	1) Has the permittee determined whether additional rain gauges are needed, based on the number of CSO outfalls, their location, and the relative location of areas of concern?	√			I
	2) Has the permittee developed more accurate characterization of their collection system by using the precipitation data?	√			L
s.	Does permittee maintain an updated list of **critical CSO equipment** and establish a preventative maintenance schedule for each item?	√			OMM
t.	Is a brief summary of the maintenance work being documented in the CSRs?	√			CSR

*Information Source= **OMM** -Operations & Maintenance Manual, **CSR**-CSO Summary Report, **P** -Procedure, **L**=LTCP, **P**=Permit, **D**=Direct Observation, **I**=Interview

u. Has the permittee established the following **routine inspection and cleaning** for the critical CSO equipment list below:				
1) Inspection and cleaning of catch basins and manholes?	√			OMM
2) Inspection, cleaning and maintenance of lift stations, including pumps?	√			OMM
3) Vacuum cleaning and/or jet flushing of combined collection system?	√			OMM
4) Street cleaning?	√			P
5) Inspection and cleaning of known troublesome areas of the collection system?	√			OMM
v. Other types of **miscellaneous inspections** may include the following:				
1) Grease traps at restaurants, schools or other services?		√		L
2) Periodic visits to non-residential customers?	√			OMM
w. Has the permittee established a procedure for detailing how customer **CSO complaints** are recorded, tracked, processed and resolved?	√			OMM
x. Does the permittee properly document the customer complaints in the CSR?	√			CSR
y. Is the procedure of process the customer complaints described in the OMM?	√			OMM
z. Is a five-year summary log of the customer complaints maintained and readily available for review by the public?	√			L

2. Maximize Use of Storage in Collection System

a. Has the permittee identified and documented in the OMM, any portions of the combined sewer system that has usable storage (unused tanks, basins or piping) that could potentially be used a off-line storage?	√			OMM
b. Has the permittee established any procedures, such as pre-storm drawdowns of lift station wet wells and interceptor collection lines, that could provide additional wet-weather storage?			√	L

3. Review and Modification of Pretreatment Programs

a. Has the permittee documented in the OMM, any procedures used to inspect and evaluate the pretreatment requirements for non-residential wastewater discharges (i.e., restaurants, gasoline stations, garges, funeral homes, hospitals, schools, etc) to minimize their impacts on CSO discharges?	√			OMM
b. Does permittee maintain a list of non-residential customers that discharges to the combined collection systems and evaluate whether it is appropriate to require discharges to reduce or cease their discharges during wet-weather periods when CSO discharges are occurring?	√			OMM
c. Does permittee document a summary of pretreatment inspections or evaluations in the CSR?	√			CSR

*Information Source= **OMM** -Operations & Maintenance Manual, **CSR**-CSO Summary Report, **P** -Procedure, **L**=LTCP, **P**=Permit, **D**=Direct Observation, **I**=Interview

4. Maximization of Flow to POTW for Treatment - The permittee shall deliver as much combined wastewater flow as possible to the treatment plant within the treatment plant's hydraulic capacity and within the treatment plant's imposed NPDES permit limitations and other limiting conditions.

a. Does the permittee document the plans and procedures being used to maximize the combined wastewater flow to the POTW during wet weather events?	√			OMM
b. Is the plan documented in the OMM and a summary of any ongoing activities documented In the CSR?	√			OMM/ CSR
c. Does the permittee annually evaluate and document any maximization procedures implemented:				
1) Performance of critical equipment?	√			CSR
2) Raise diversion weirs or other devices to the maximum heights possible to reduce CSO discharges without causing problems like basement backups ?	√			L
3) Comparison between existing flow rates to the design capacity for both the POTW and the lift station pumps?	√			L
4) Capacities of major interceptors?	√			L
5) Compare wet-weather flow rates and dry-weather flow to POTW?	√			L
6) Diverting portion of wet-weather flow that could receive partial treatment at POTW?	√			L
7) Status of I&I projects?	√			L
8) Correcting bottlenecks in the collection system to increase flow to POTW?	√			L
9) Does wet-weather discharges ever occur when flow to POTW is below normal rates?		√		I

5. Elimination of CSOs During Dry Weather – Dry weather overflows (DWO) from CSOs are prohibited. DWO shall be reported to the WVDEP spill line immediately upon its discovery, but no later than 24 hours rom its initial detection.

a. Does permittee conduct annual reviews of the following items:				
1) Trend of the number of dry-weather overflows (DWO) occurring?	√			OMM
2) Corrective actions to prevent recurring DWO?	√			OMM
3) Effectiveness of existing inspection procedures for detecting the DWO?	√			OMM
4) Adequate remediation procedures for the removal of objectionable materials being deposited in the receiving streams?	√			OMM
5) Is method used to make these reviews of DWO documented in OMM?	√			OMM
6) Are brief summary of these reviews annually documented in CSR?	√			CSR

6. Control of Solids and Floatable Materials – The permittee shall control solid and floatable materials discharging from all CSO discharges. The permittee shall conduct an annual evaluation of past performance, and recommend corrective actions to reduce the presence of solids and floatable materials in CSO discharges and the receiving steam. The process of making these evaluations shall be documented in the OMM. Progress of action items shall be documented in the CSR. The following are items that should be reviewed:

1) The technologies currently in place to control solids and floatable materials outfall can be specific or a part of a larger solids control program such as street sweeping. Are the technologies properly implemented and documented?	√			OMM

*Information Source= **OMM** -Operations & Maintenance Manual, **CSR**-CSO Summary Report, **P** -Procedure, **L**=LTCP, **P**=Permit, **D**=Direct Observation, **I**=Interview

2) Has the permittee evaluated installing screens at catch basins and/or at the CSO outfalls or the installation or outfall booms or netting?	√			OMM
3) Does the permittee have an annual leaf pickup program?	√			I
4) Does the community have a recycling program?	√			I
5) Does the community provide convenient trash containers in high traffic areas?	√			I
6) Does the community enforce illegal dumping of trash, especially into catch basins?	√			I
7) Does the community periodically evaluate the effectiveness of its street cleaning program?	√			OMM

7. Pollution Prevention

The pemrittee shall:

1) Have a Pollution Prevention program stated in its OMM?	√			OMM
2) Conduct an annual review on the effectiveness of its program?	√			OMM
3) Summarize Pollution Prevention activity in its CSR?	√			CSR
4) Provide public education concerning the need for public assistance	√			I
5) Evaluated the need of a program to collect and dispose of household hazardous waste?	√			P

8. Public Notification – The permittee shall annually conduct a review and evaluate the effectiveness of their public notification procedures by addressing the following items:

1) Verify that adequate warning signs are installed at each CSO outfall that clearly notify and alert the public to avoid contact with waters near or downstream of active CSO outfalls?	√			CSR
2) Verify that adequate warning signs are installed at public stream access points(i.e., marinas and boat launches) that notify and alert the public to avoid recreational contact with water during or just after any CSO activity ?	√			CSR
3) Develop and document procedures to provide to the general public, and specific entities that might be expected to be affected by CSO discharges, information concerning CSO discharge occurrences and their impacts to water quality in the receiving stream(s) – i.e., newspaper public notifications, newspaper advertisements, public service announcements on radio and/or television.	√			OMM
4) Develop and document procedures for public notification in circumstances where public notification concerning of CSO discharge activity is critical and immediate	√			OMM
5) Ensure and document the availability of CSO pamphlets for distribution and education of the general public?	√			CSR
6) Ensure and document the availability of a logbook of CSO discharges and activities that is readily available for public review (i.e., payment offices, town halls, community centers, etc).	√			OMM
7) Evaluate and document public education programs concerning CSOs and the community's response and plans addressing them?	√			OMM
8) Record and document any public involvement including comments or suggestions made by the public concerning CSOs.	√			CSR

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9. Monitoring to Characterize CSO Impacts to Receiving Streams and the Efficiency of CSO Controls – The permittee shall monitor CSO outfall discharges, the receiving waters into which these CSOs discharge. The pemittee shall also characterize their impacts and make determinations about how well CSO controls are improving water quality in the receiving stream as noted below:

1) Are adequate number of rain gauge(s) in place?	√			L
2) Are available stream gauge information from the National Weather Service or the US Geological Survey being used to specify the amount and intensity of rain or snow events that could trigger CSO activity and also to obtain stream flow data for additional analysis?			√	L
3) Are all CSO outfalls being prioritized in relation to the their contribution to water quality impacts, as well as locations of sensitive areas?	√			L
4) Does the permittee collect and summarize data concerning total number of CSO events (both wet and dry-weather) and the frequency and duration of CSO activities for at least a representative number - minimum of 10% of total CSO outfalls?	√			CSR
5) Is the permittee able to correlate the precipitation data and the CSO activity data in order to predict what measured amount and intensity of rainfall/snowmelt will trigger CSO activity?	√			L
6) Does the permittee collect water quality monitoring data and other information on chemical, physical, and biological impacts resulting from representative CSO discharges such as: swimming area closing, excessive solid and floatable materials in streams, fish kills, sludge banks, identified habitat impairments for aquatic life?			√	L

*Information Source= **OMM** -Operations & Maintenance Manual, **CSR**-CSO Summary Report, **P** -Procedure, **L**=LTCP, **P**=Permit, **D**=Direct Observation, **I**=Interview

Appendix H

Littering Ordinance

CHAPTER 50: GARBAGE

Section

Statutory reference:

Authority of the Council to prohibit the accumulation and require the disposal of garbage and refuse, and to provide for the elimination of public health and safety hazards and to abate nuisances, see W.Va. Code § 8-12-5(10), (23)

§ 50.01 SERVICE TO BE PROVIDED BY CITY; EXCEPTIONS.

No person shall engage in the business of collecting and disposing garbage or refuse, or shall collect or dispose of garbage or refuse within the city limits except the city; provided, that farmers and other persons who desire to collect garbage for the feeding of hogs or other animals and fowl may, upon application to the Mayor, be authorized to do so, under such regulations as the Mayor may prescribe; but such farmers and other persons shall make no charge nor receive any compensation whatever for garbage service to or from any person.

(1991 Code, § 9-6) (Ord. passed 6-15-1950; Ord. passed 12-5-1968) Penalty, see §50.99

§ 50.02 DEPARTMENT OF SANITATION; RULES AND REGULATIONS.

There shall be a Department of Sanitation under the supervision and direction of the Director of Public Works. The Department of Sanitation, with the approval of the Council, shall be adequately equipped and supplied with personnel and equipment to properly and satisfactorily carry out the essential public service of collecting, removing and disposing of refuse produced in the households and places of business of the citizens of the city. The Mayor or other duly authorized officer, with the approval of the Council, shall have the authority to prescribe, publish, promulgate and enforce any and all reasonable rules and regulations deemed by him or her necessary or proper, consistent with state law, this code and other ordinances, to carry out the objects and purposes thereof and for the safety and health of the citizens of the city with respect to the collection, removal and disposal of refuse as herein defined; and it shall be unlawful for any person to violate or fail to comply with any such rules and regulations as approved by the Council.

(1991 Code, § 9-7) (Ord. passed 6-15-1950) Penalty, see §50.99

§ 50.03 PROVISION OF TRASH RECEPTACLES.

Every person in the city who produces or accumulates garbage shall have it removed in the manner prescribed by this chapter and shall provide a suitable garbage can or receptacle, to be approved by the Director of Public Works, in which such garbage shall be deposited as it, from time to time, is made or accumulates, and a separate receptacle in which shall be deposited all crockery, glass, glass bottles, tin cans and other similar articles which are subject to being collected.

(1991 Code, § 9-8) (Ord. passed 6-15-1950)

§ 50.04 PLACEMENT AND REMOVAL OF RECEPTACLES AND GARBAGE OR REFUSE.

All receptacles and/or garbage or refuse to be hauled in accordance with the provisions of this chapter shall be placed in a spot accessible to the Sanitation Department not more than 24 hours previous to 6:00 a.m. on the day of collection. No receptacles and/or garbage or refuse shall be allowed to stand or remain on any of the sidewalks, streets or alleys of the city for more than 24 hours after such collection has been made by the Sanitation Department.

(Ord. 176, passed 3-6-2014) Penalty, see §50.99

§ 50.05 RATES FOR CITY SERVICE; DESIGNATED.

(A) The Council shall, from time to time, establish the charges that will be imposed for garbage and refuse collection services. A current list of such charges shall be maintained in the office of the City Clerk where it shall be available for public inspection during normal city office hours.

(B) At no time, however, shall rates which are disclosed to be producing less revenue than is required to meet all obligations and costs involved in rendering such service be continued.

(1991 Code, § 9-9) (Ord. passed 3-5-1992; Ord. O-008, passed 1-15-2004; Ord. 113, passed 6-3-2010; Ord. 169, passed 7-18-2013; Ord. 200, passed 9-24-2015)

§ 50.06 RATES FOR CITY SERVICE; AUTHORITY OF DIRECTOR OF PUBLIC WORKS.

(A) The Director of Public Works is authorized and empowered to prescribe rates for the removal and disposal of other refuse materials not expressly mentioned in § 50.05.

(B) If the number of times for the weekly collection of garbage set out in that section shall prove burdensome and a good service can be given by collections a lesser number of times weekly, the Director may, at his or her discretion, modify § 50.05 accordingly in such cases.

(1991 Code, § 9-10) (Ord. passed 6-15-1950)

§ 50.07 RATES FOR CITY SERVICE; CONSEQUENCES OF NONPAYMENT.

Upon the failure of any person receiving such service to pay therefor when due, the city may discontinue such service after appropriate notice.

(1991 Code, § 9-11) (Ord. passed 6-15-1950)

§ 50.08 PRIVATE DISPOSITION.

Private scavengers, pushcart operators and private garbage collectors are hereby prohibited from engaging in the business of transporting or disposing of raw or prepared garbage and refuse containing organic wastes, putrid matter and wastes or excreta subject to putrification.

(1991 Code, § 9-12) (Ord. passed 6-15-1950) Penalty, see §50.99

§ 50.09 LANDFILL USAGE.

(A) The schedule of fees charged for landfill usage shall be an amount set by Council from time to time.

(B) A finance charge in the amount as set by Council from time to time on the past due balance will be imposed on all accounts not paid within 60 days of the billing date.

(C) The city landfill closed on September 2015.

(Ord. passed 3-5-1992)

§ 50.10 DISPOSAL OF TRASH.

A person shall not place trash in trash receptacle belonging to another private individual, corporation, partnership, proprietorship or association without that person’s or entity’s prior consent.

(Ord. passed 4-16-1992) Penalty, see §50.99

§ 50.11 PROHIBITION OF ILLEGAL DUMPING.

(A) *Definition.* For the purpose of this section, the following definition shall apply unless the context clearly indicates or requires a different meaning.

ILLEGAL DUMPING.

(a) The disposal of trash or refuse generated outside the city limits by nonresidents of the city or persons or entities who do not pay city sanitation fees into city maintained trash receptacles.

(b) ***ILLEGAL DUMPING*** shall also be defined as disposal of trash or refuse generated outside the city limits of the city into city maintained trash receptacles by persons or entities who do not pay city sanitation fees, but who use city trash receptacles with the permission of those friends, family members, employers, or others who do pay city sanitation fees.

(B) *Enforcement.* Enforcement of the prohibition on illegal dumping shall be assumed by the Police Department and Municipal Court of the city. Enforcement of penalties and collection of fines shall be conducted pursuant to Chapter 37 of this code of ordinances.

(Ord. O-009, passed 1-22-2004) Penalty, see §50.99

§ 50.99 PENALTY.

(A) Any person violating any provision of this chapter, for which no other penalty is provided, shall be subject to the penalty provisions of § 10.99.

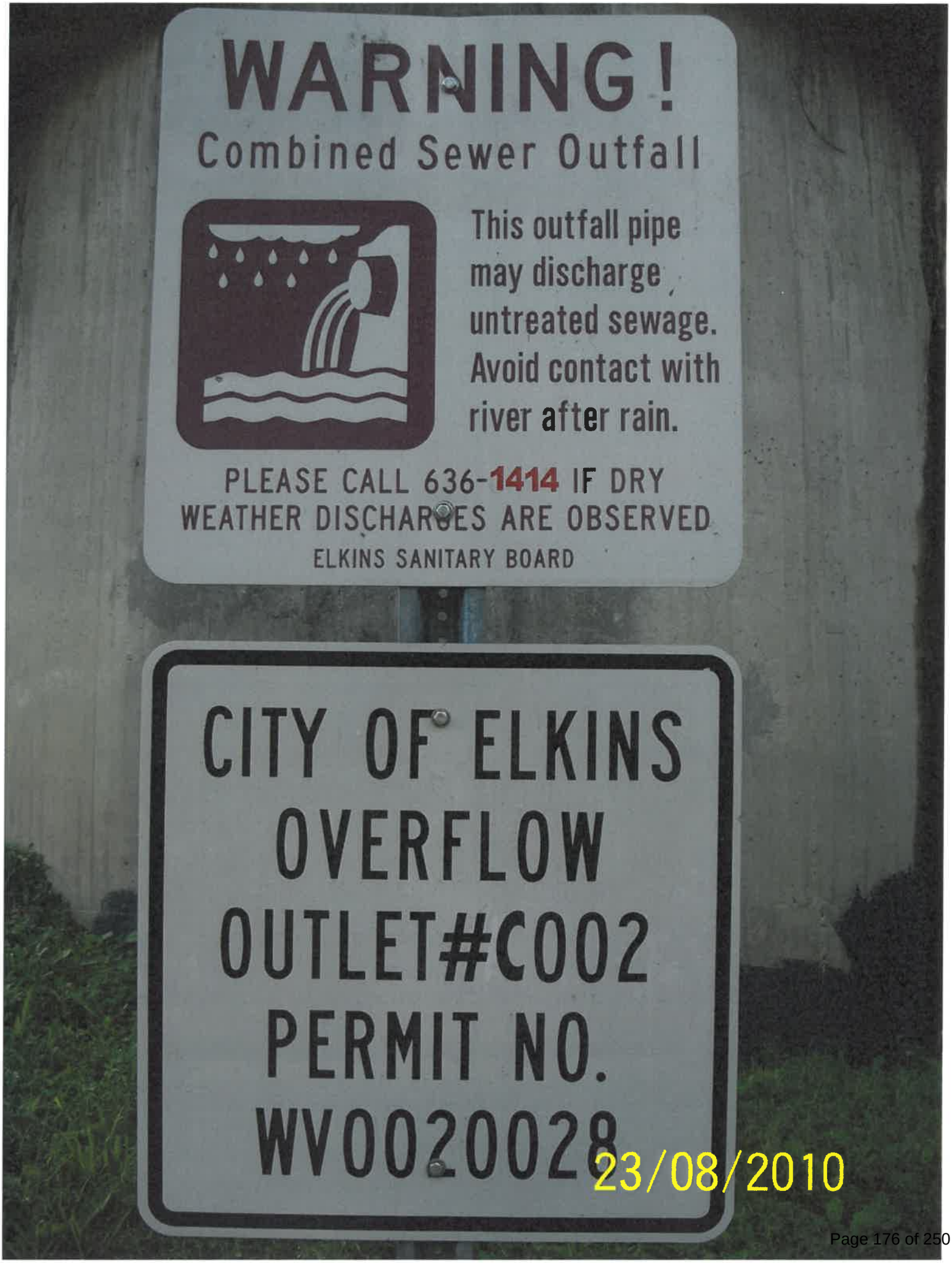
(B) Any person who violates § 50.10 shall be subject to a fine of an amount set by Council from time to time plus court costs.

(C) Any person or entity found guilty of illegal dumping in violation of § 50.11 in the Municipal Court shall be guilty of a misdemeanor offense against the city, and shall be fined an amount set by Council from time to time.

(Ord. passed 4-16-1992; Ord. O-009, passed 1-22-2004)

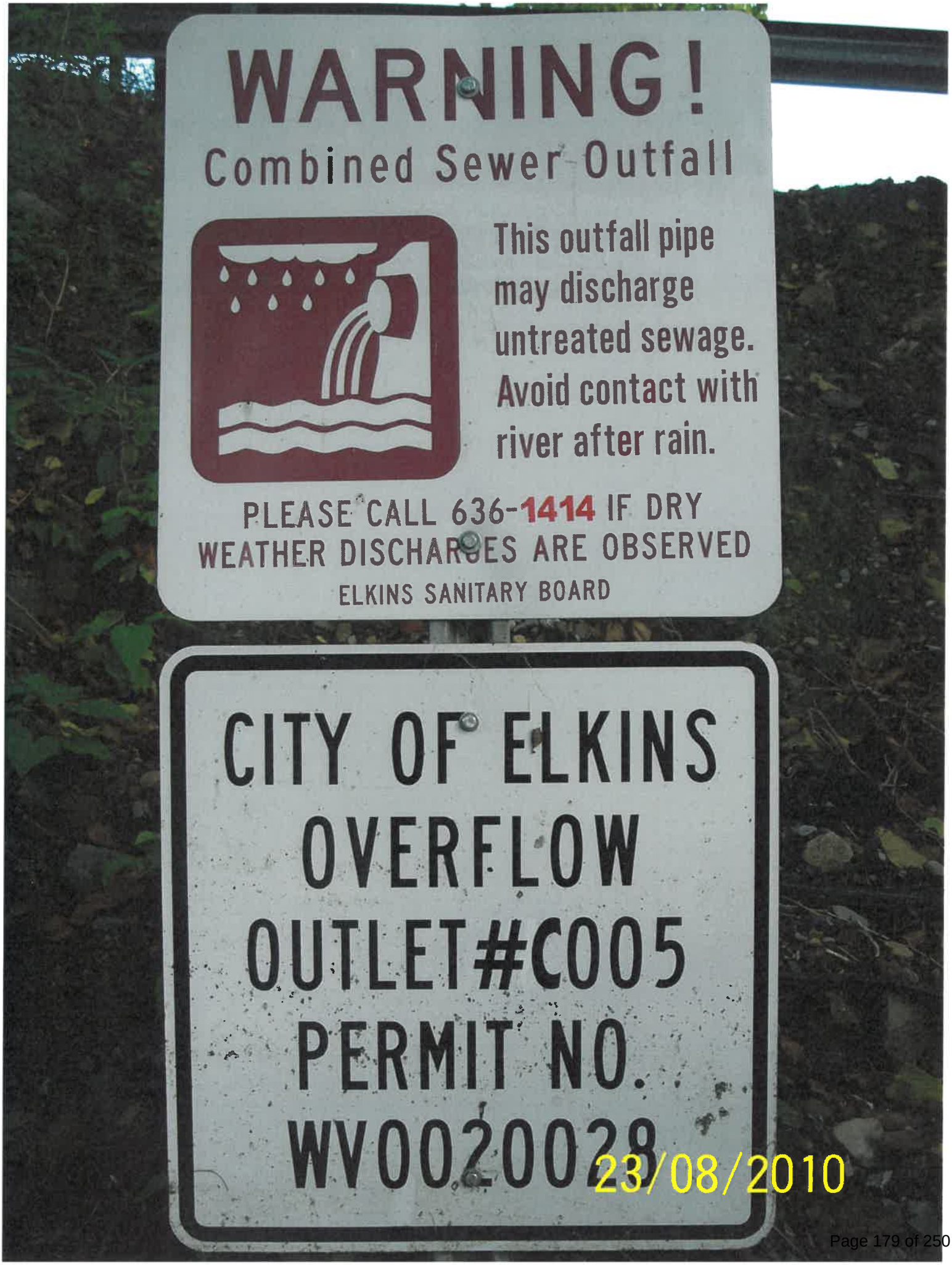
Appendix I

CSO Sign Information


WARNING!
Combined Sewer Outfall
This outfall pipe may discharge untreated sewage. Avoid contact with river after rain.
PLEASE CALL 636-1414 IF DRY WEATHER DISCHARGES ARE OBSERVED
ELKINS SANITARY BOARD
CITY OF ELKINS
OVERFLOW
OUTLET#C002
PERMIT NO.
WV0020028
23/08/2010


WARNING!
Combined Sewer Outfall
This outfall pipe may discharge untreated sewage. Avoid contact with river after rain.
PLEASE CALL 636-1414 IF DRY WEATHER DISCHARGES ARE OBSERVED
ELKINS SANITARY BOARD
CITY OF ELKINS
OVERFLOW
OUTLET#C003
PERMIT NO.
WV0020028
23/08/2010


WARNING!
Combined Sewer Outfall
This outfall pipe may discharge untreated sewage. Avoid contact with river after rain.
PLEASE CALL 636-1414 IF DRY WEATHER DISCHARGES ARE OBSERVED
ELKINS SANITARY BOARD
CITY OF ELKINS
OVERFLOW
OUTLET#C004
PERMIT NO.
WV0020028
23/08/2010


WARNING!
Combined Sewer Outfall
This outfall pipe may discharge untreated sewage. Avoid contact with river after rain.
PLEASE CALL 636-1414 IF DRY WEATHER DISCHARGES ARE OBSERVED
ELKINS SANITARY BOARD
CITY OF ELKINS
OVERFLOW
OUTLET#C005
PERMIT NO.
WV0020028
23/08/2010

WARNING!

Combined Sewer Outfall

This outfall pipe may discharge untreated sewage. Avoid contact with river after rain.

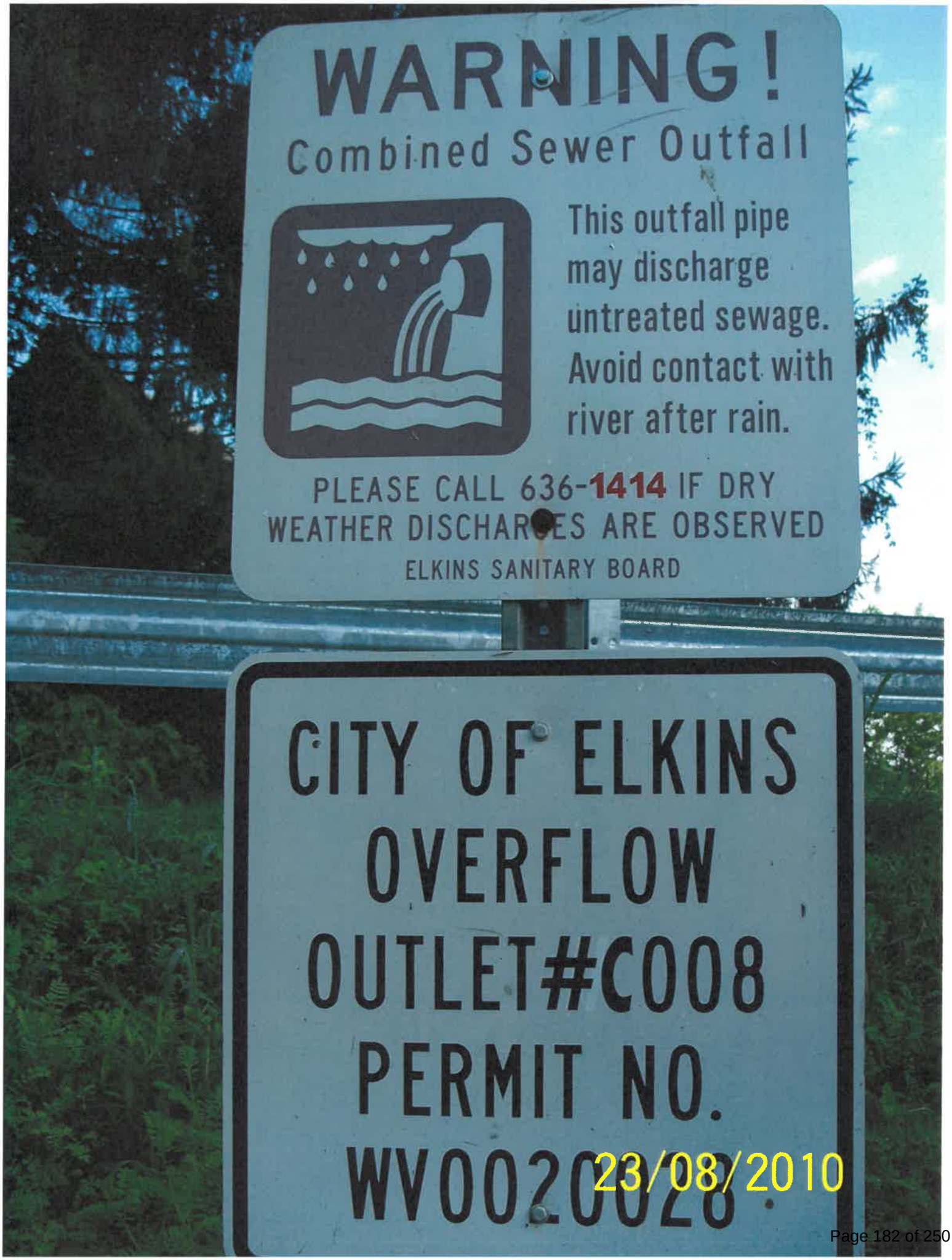
PLEASE CALL 636-1414 IF DRY WEATHER DISCHARGES ARE OBSERVED

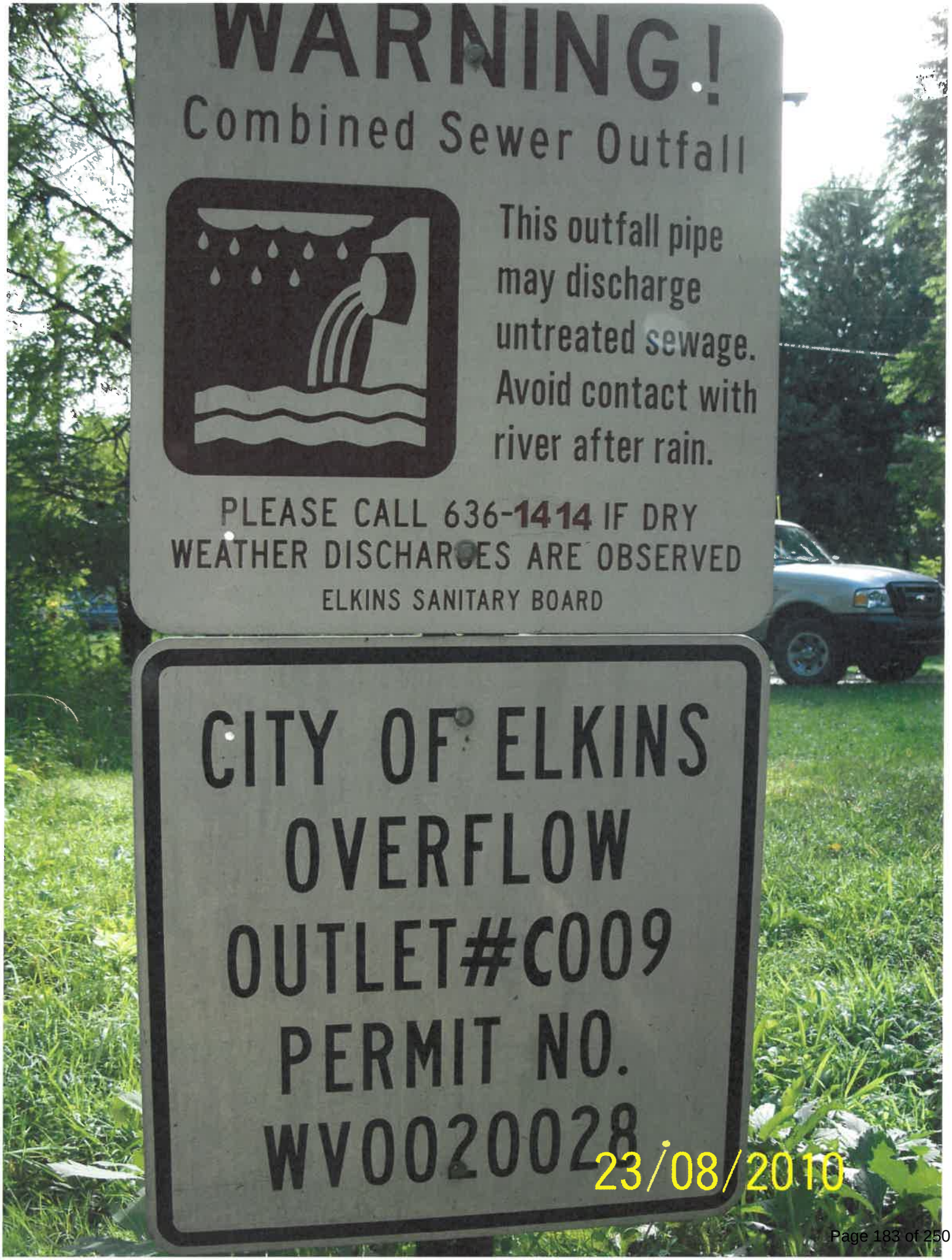
ELKINS SANITARY BOARD

CITY OF ELKINS
OVERFLOW
OUTLET#C006
PERMIT NO.
WV0020028

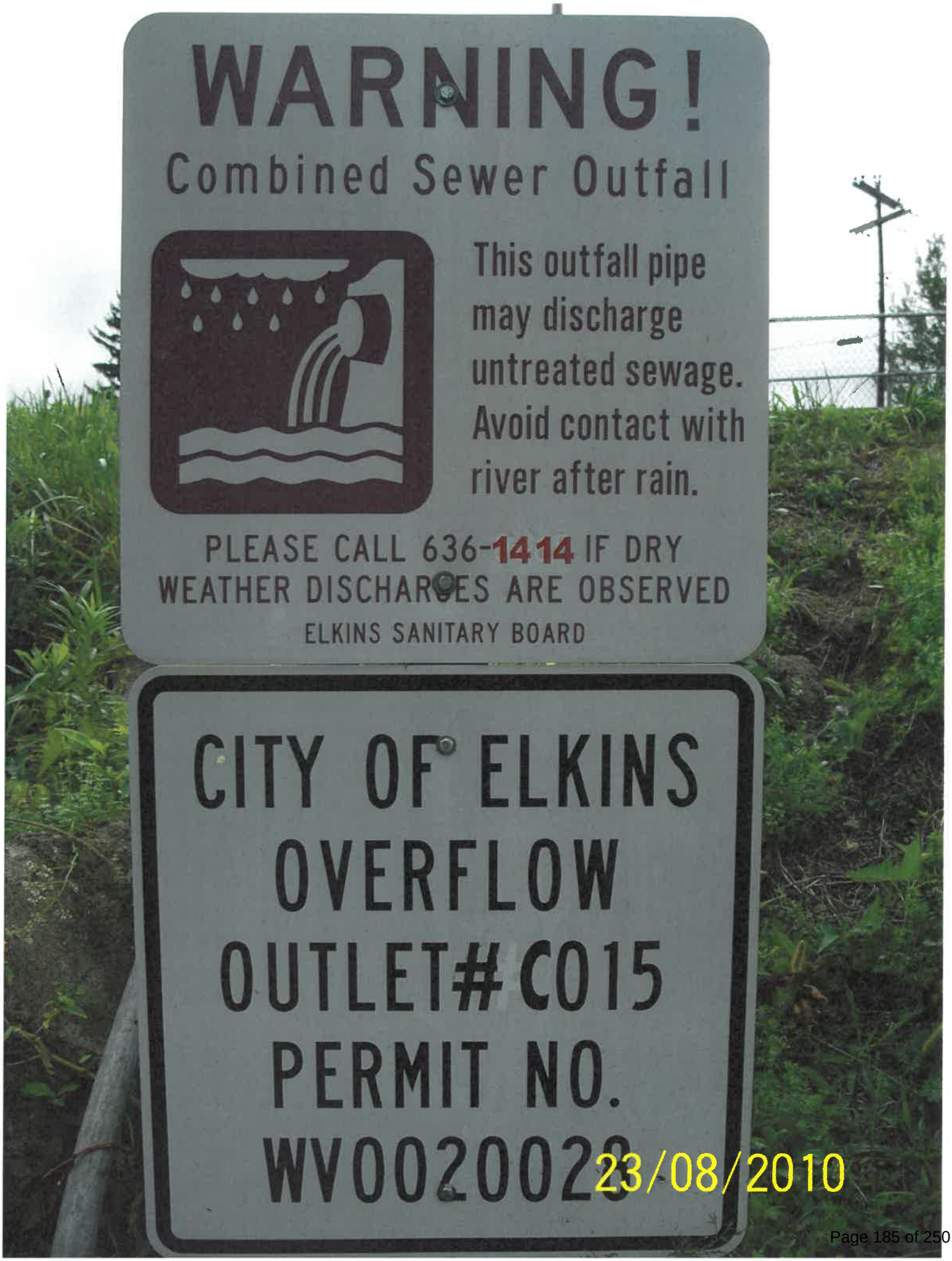
23/08/2010


WARNING!
Combined Sewer Outfall
This outfall pipe may discharge untreated sewage. Avoid contact with river after rain.
PLEASE CALL 636-1414 IF DRY WEATHER DISCHARGES ARE OBSERVED
ELKINS SANITARY BOARD
CITY OF ELKINS
OVERFLOW
OUTLET# C007
PERMIT NO.
WV0020028
23/08/2010

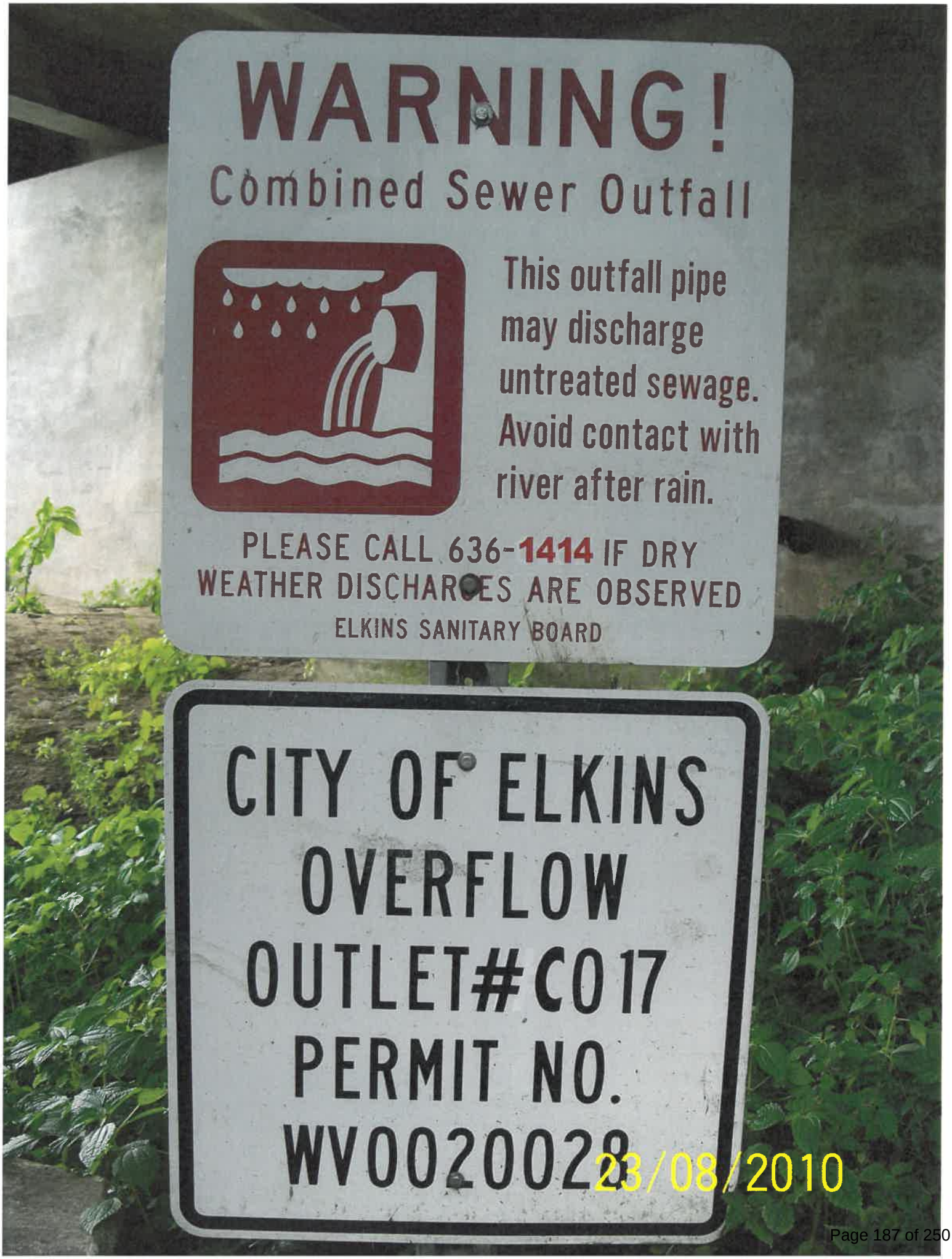

WARNING!
Combined Sewer Outfall
This outfall pipe may discharge untreated sewage. Avoid contact with river after rain.
PLEASE CALL 636-1414 IF DRY WEATHER DISCHARGES ARE OBSERVED
ELKINS SANITARY BOARD
CITY OF ELKINS
OVERFLOW
OUTLET#C008
PERMIT NO.
WV0020028
23/08/2010


WARNING!
Combined Sewer Outfall
This outfall pipe may discharge untreated sewage. Avoid contact with river after rain.
PLEASE CALL 636-1414 IF DRY WEATHER DISCHARGES ARE OBSERVED
ELKINS SANITARY BOARD
CITY OF ELKINS
OVERFLOW
OUTLET#C009
PERMIT NO.
WV0020028
23/08/2010


WARNING!
Combined Sewer Outfall
This outfall pipe
untreated sewage.
Avoid contact with
river after rain.
PLEASE CALL 636-1414 IF DRY
WEATHER DISCHARGES ARE OBSERVED
ELKINS SANITARY BOARD
CITY OF ELKINS
OVERFLOW
OUTLET #C011
PERMIT NO.
WV0020028
23/08/2010


WARNING!
Combined Sewer Outfall
This outfall pipe may discharge untreated sewage. Avoid contact with river after rain.
PLEASE CALL 636-1414 IF DRY WEATHER DISCHARGES ARE OBSERVED
ELKINS SANITARY BOARD
CITY OF ELKINS
OVERFLOW
OUTLET# C015
PERMIT NO.
WV0020028
23/08/2010


WARNING!
Combined Sewer Outfall
This outfall pipe may discharge untreated sewage. Avoid contact with river after rain.
PLEASE CALL 636-1414 IF DRY WEATHER DISCHARGES ARE OBSERVED
ELKINS SANITARY BOARD
CITY OF ELKINS
OVERFLOW
OUTLET#C016
PERMIT NO.
WV0020028
23/08/2010


WARNING!
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PLEASE CALL 636-1414 IF DRY WEATHER DISCHARGES ARE OBSERVED
ELKINS SANITARY BOARD
CITY OF ELKINS
OVERFLOW
OUTLET#C017
PERMIT NO.
WV0020028
23/08/2010


WARNING!
Combined Sewer Outfall
This outfall pipe may discharge untreated sewage. Avoid contact with river after rain.
PLEASE CALL 636-1414 IF DRY WEATHER DISCHARGES ARE OBSERVED
ELKINS SANITARY BOARD
CITY OF ELKINS
OVERFLOW
OUTLET#C018
PERMIT NO.
WV0020028
23/08/2010


WARNING!
Combined Sewer Outfall
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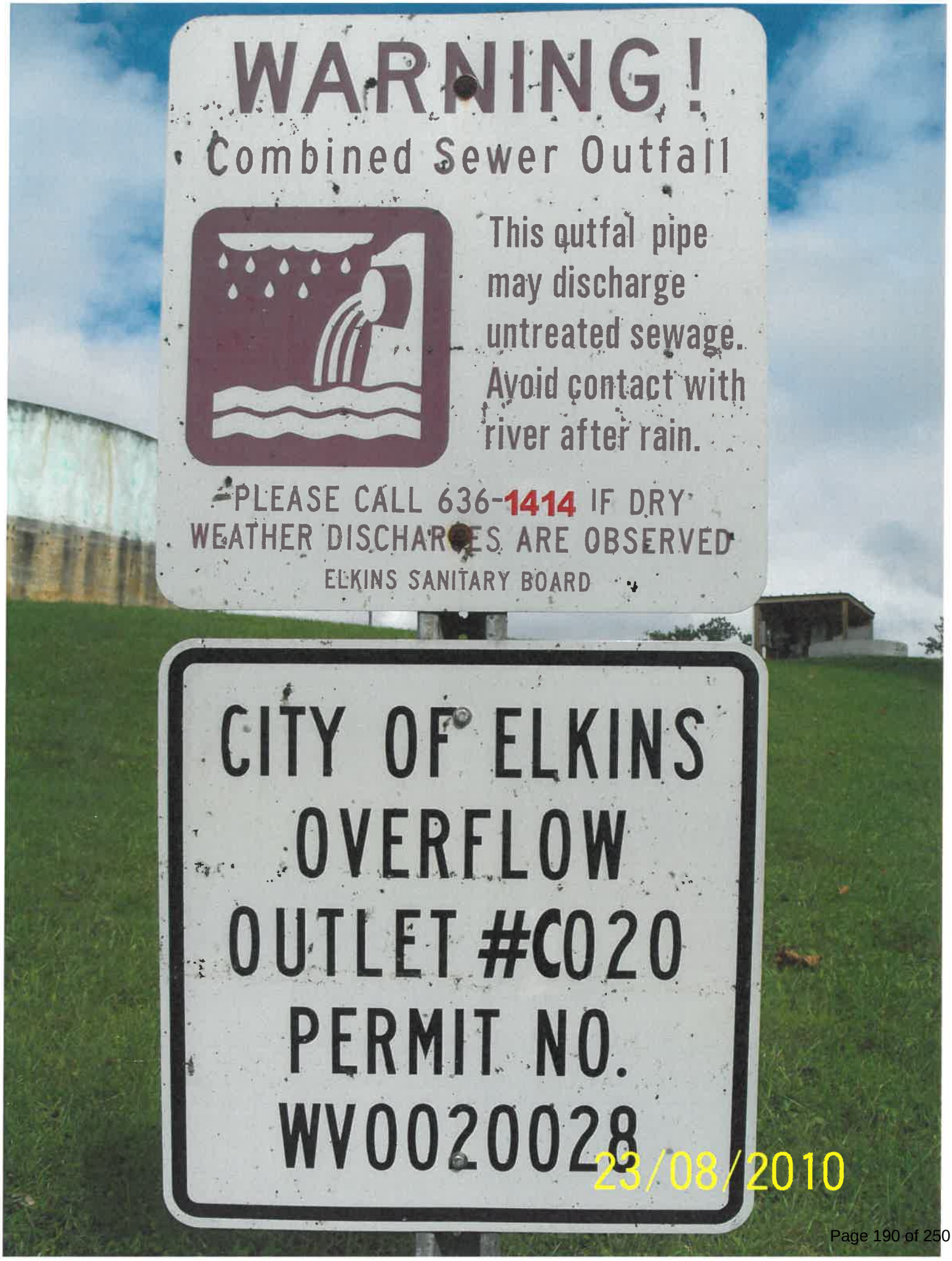
PLEASE CALL 636-1414 IF DRY WEATHER DISCHARGES ARE OBSERVED
ELKINS SANITARY BOARD
CITY OF ELKINS
OVERFLOW
OUTLET#C019
PERMIT NO.
WV0020028
23/08/2010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PLEASE CALL 636-1414 IF DRY WEATHER DISCHARGES ARE OBSERVED
ELKINS SANITARY BOARD
CITY OF ELKINS
OVERFLOW
OUTLET #C020
PERMIT NO.
WV0020028
23/08/2010

WARNING

COMBINED SEWER OUTFALLS LOCATED ALONG RIVER

POSSIBLE SEWAGE OVERFLOWS

AVOID CONTACT WITH RIVER DURING AND 48 HOURS FOLLOWING HEAVY RAIN

QUESTIONS?
CALL:
304-636-1414 8AM-4PM, M-F

City of Elkins Sanitary Board

23/08/2010

Appendix J

Public Meeting Information

facebook

Log In

Events

Search Events

Home

Categories

- Classics
- Comedy
- Crafts
- Dance
- Drinks
- Fitness & Workouts
- Foods
- Games
- Gardening
- Health & Medical
- Healthy Living & Self-Care
- Home & Garden
- Music & Audio
- Parties

23

MONDAY, JANUARY 23, 2023 AT 10:00 AM EST

Public Meeting: Long-Term Control Plan for Combined Sewer Overflows

Elkins City Hall

Details

4 people responded

Event by **Elkins City Hall**

Elkins City Hall

Public · Anyone on or off Facebook

In 2011, the City of Elkins negotiated a Long-Term Control Plan (LTCP) for Combined Sewer Overflows (CSOs), which identified two sewer separation projects.

With the completion o... **See more**

Causes

Elkins City Hall

401 Davis Ave, Elkins, WV

This is the Facebook page of the government of Elkins, West Virginia,

Notice: Public Meeting on Sewer Overflows

January 6th, 2023 | *11:33 am*

In 2011, the City of Elkins negotiated a Long-Term Control Plan (LTCP) for Combined Sewer Overflows (CSOs), which identified two sewer separation projects.

With the completion of the two phases of improvements (https://cityofelkinswv.com/government/current-projects-initiatives/sewer-project/), the City is required to update Agencies on the progress of the program and to update the LTCP, which includes receiving input from the public.

As such, a Public Meeting will be held at 10:00 a.m. on January 23, 2023 to discuss continued conformance with USEPA requirements and finalizing an Implementation Schedule for future improvements in the wastewater collection system.

This meeting will be held in the council chamber at Elkins City Hall.

Select Category

Select Month

Alerts

MLK Day (1/16) Schedule

Elkins City Hall will be closed on Monday, January 16 in observance of Martin Luther King, Jr. Day.

Garbage service will run on regular schedule.

Christmas Tree Disposal

The City of Elkins Street Department will collect Christmas trees for disposal January 3-20. Please place trees at the curb after removing all ornaments, tinsel, lights, etc.

Starting Jan. 1: No more phone payments

Starting Jan. 1, City of Elkins will no longer accept phone payments for any city bills or services. Learn more (https://cityofelkinswv.com/no-longer-accepting-phone-payments/).

No Spring Cleanup

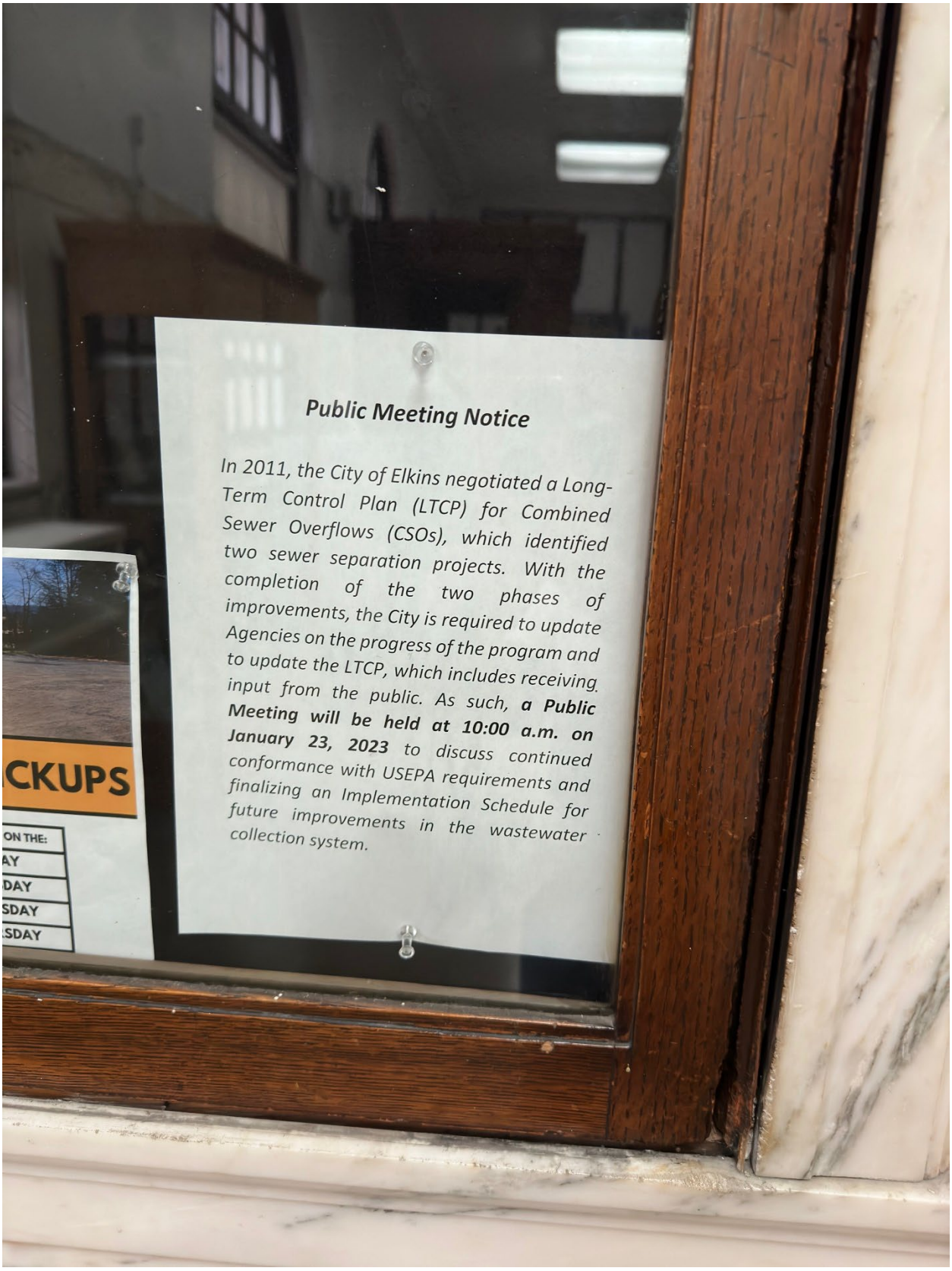
Because of the city's monthly bulk-item pickup program, we will no longer be offering Spring Cleanup. Don't wait until spring, put your items out each month. Find the schedule for pickups here (https://cityofelkinswv.com/bulk-pickups/).

Bulk Pickups Schedule Change

As of the week of October 17, the bulk-item pickup schedule is changing. Find the new schedule here (https://cityofelkinswv.com/bulk-pickups/).

Water Issues?

Last modified on May 8th, 2022 at 10:51 am


Public Meeting Notice
In 2011, the City of Elkins negotiated a Long-Term Control Plan (LTCP) for Combined Sewer Overflows (CSOs), which identified two sewer separation projects. With the completion of the two phases of improvements, the City is required to update Agencies on the progress of the program and to update the LTCP, which includes receiving input from the public. As such, a Public Meeting will be held at 10:00 a.m. on January 23, 2023 to discuss continued conformance with USEPA requirements and finalizing an Implementation Schedule for future improvements in the wastewater collection system.
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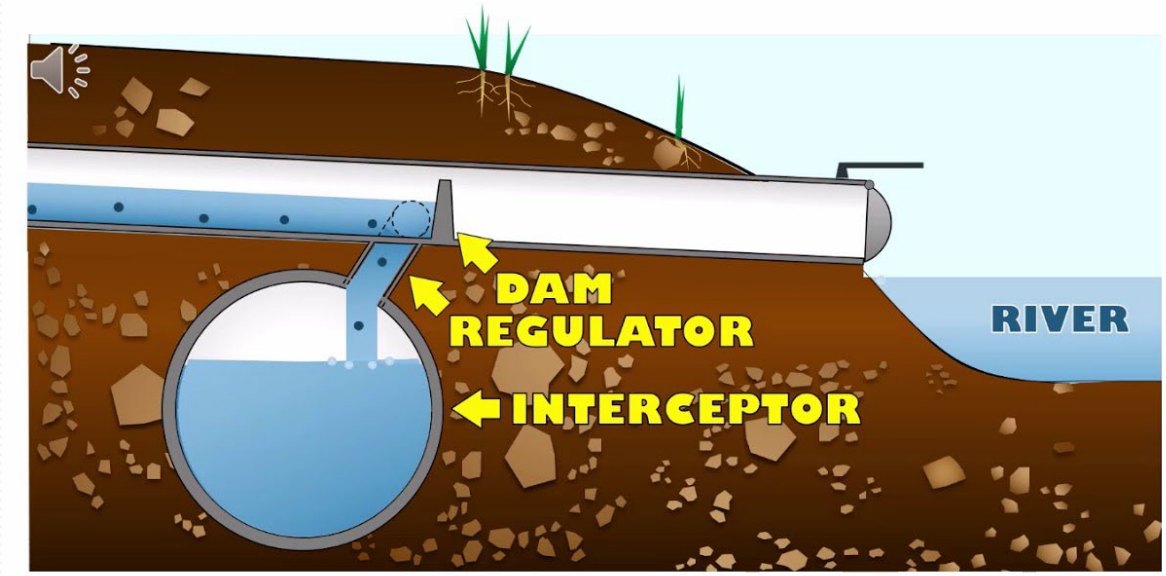
Long-Term Control Plan Update

City of Elkins Sanitary Board

January 23, 2023

Definitions

- Combined Sewer System
- Combined Sewer Overflow
- Long-Term Control Plan

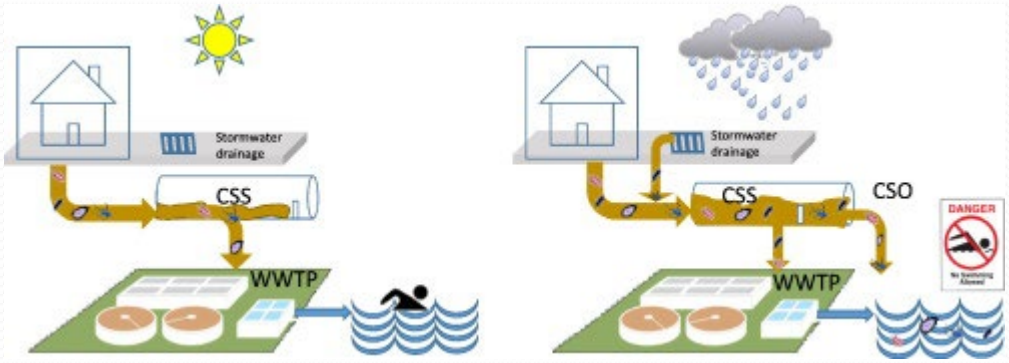


USEPA CSO Control Policy

- Began January 1, 1997
- Established nine minimum controls
- Must meet “Water Quality Standards”
- Two options for control:
  - Pump and treat
  - Sewer separation

Nine Minimum Controls

1. Proper operation & regular maintenance programs
2. Maximization of storage in collection system.
3. Review & modification of pretreatment requirements.
4. Maximization of flow to the POTW for treatment.
5. Elimination of CSOs during dry weather
6. Control of solids and floatable materials in CSOs
7. Pollution prevention programs to reduce contaminants in CSOs
8. Public notification
9. Monitoring to characterize CSO impacts & the efficacy of CSO controls



Public Participation

- Legal advertisement
- Signage
- Brochures
- Public meeting
- Website

City of Elkins

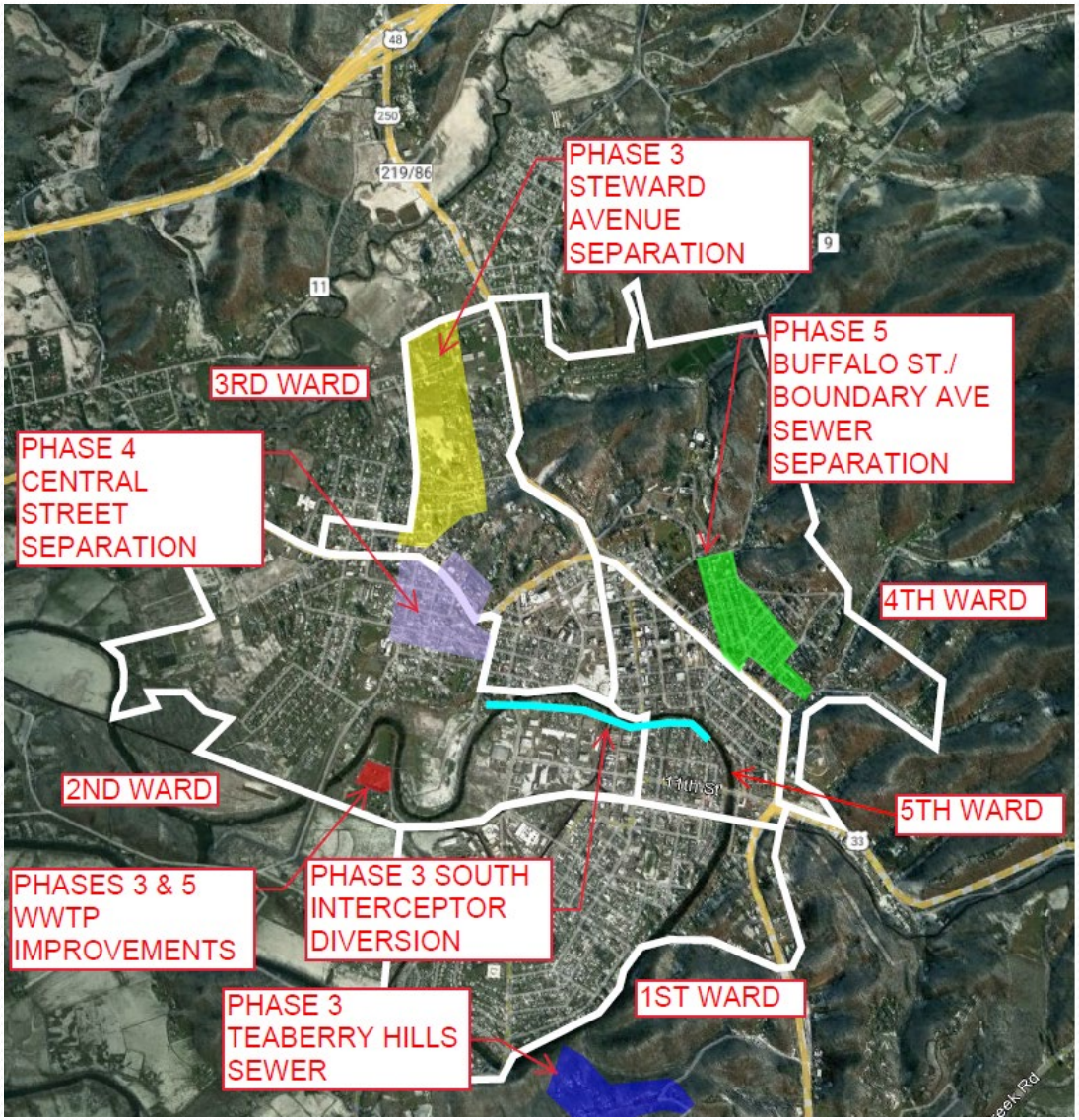
- 14 Active CSOs
- Original Long-Term Control Plan accepted 2011
- Required approval from USEPA, USDOJ, and WVDEP
- Two phases of improvements identified
- Phase 1 completed June 2016
- Phase 2 completed October 2021

Phase 2 Post Construction Monitoring

Based upon most frequent overflow events and volume of discharge, the following are the most problematic of the CSOs:

- CSO 008 (Glendale Lift Station)
- CSO 004/005 (Henry Ave. & Kerens Ave.)
- CSO 002 (Barron Avenue Lift Station

Selected Projects



Implementation Schedule

- Phase 3 Scope
  - Redirect south interceptor to Glendale LS
  - Steward Avenue Sewer Separation
  - Teaberry Hills Sewer Improvements
  - WWTP Improvements, Phase 1
- Schedule
  - Complete design = May 31, 2024
  - Complete construction = November 30, 2025
  - Post Construction Monitoring Report = May 31, 2026
- Project cost estimate = $9.52M

Implementation Schedule

- Phase 4 Scope
  - Central Street Sewer Separation
- Schedule
  - Complete design = December 31, 2027
  - Complete construction = June 30, 2029
  - Post Construction Monitoring Report = December 31, 2030
- Project cost estimate = $3.12M

Implementation Schedule

- Phase 5 Scope
  - Boundary Ave/Buffalo St Sewer Separation
  - WWTP Improvements, Phase 2
- Schedule
  - Complete design = June 30, 2032
  - Complete construction = December 31, 2033
  - Post Construction Monitoring Report = June 30, 2035
- Project cost estimate = $5.83M

Implementation Schedule

- Phase 6 Scope
  - To Be Determined
- Schedule
  - Complete design = December 31, 2036
  - Complete construction = June 30, 2038
  - Post Construction Monitoring Report = December 31, 2039
- Project cost estimate = ???

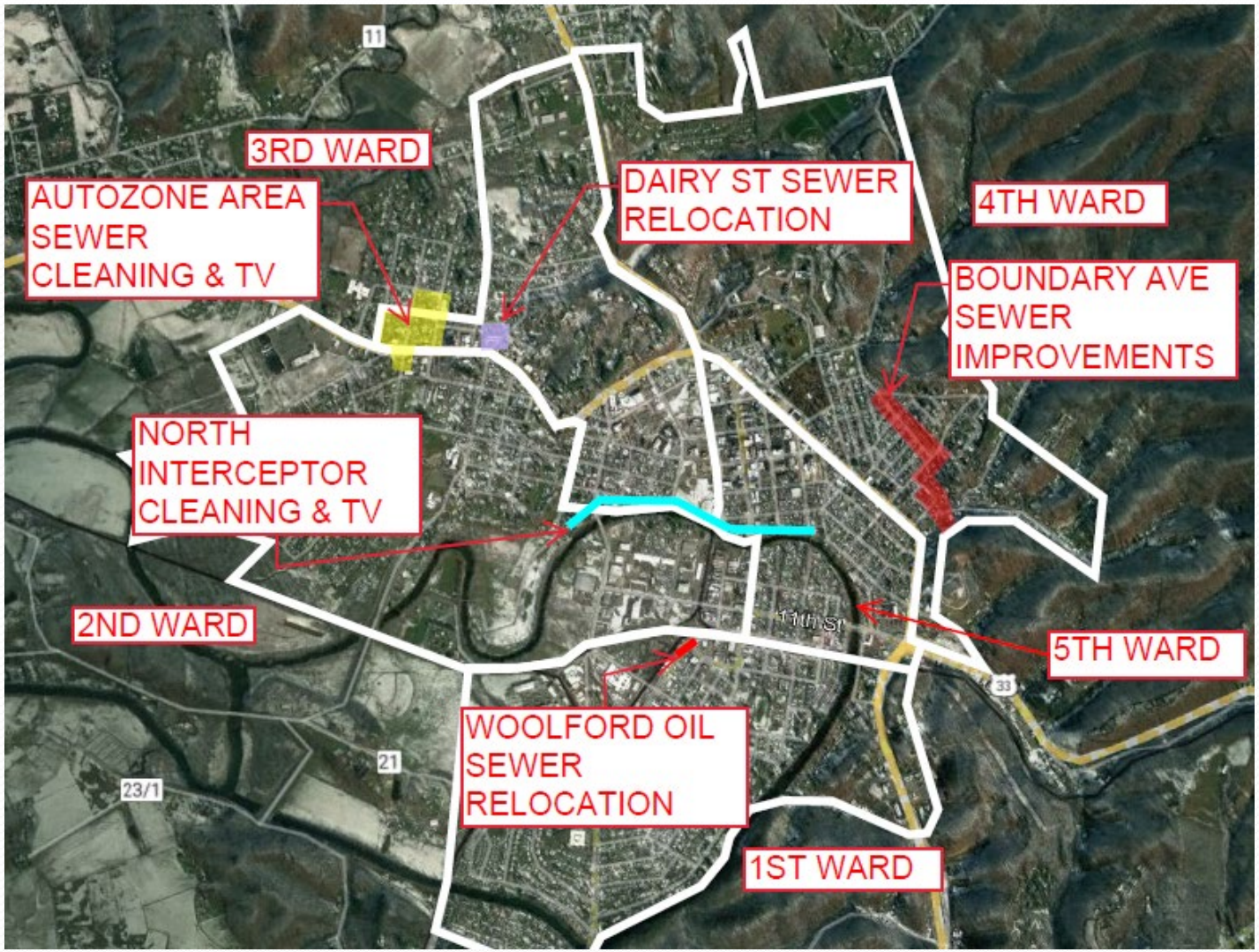
Non-LTCP Items

- Additional items from the Water & Wastewater Needs Assessment
- Total construction cost for these items: $5.6M

Rolling Stock

- WWTP
  - Superintendent truck = $85k
- Water distribution
  - Dump truck = $120k
  - Supervisor truck = $50k
  - Service truck x2 = $180k (each)

Collection System Improvements



Lift Station Improvements

CSO Improvements

Facilities

- Sewer Maintenance
  - 3 Bay Garage

Next Steps

- Submit Report to WVDEP
- Add to NPDES Permit
- Commit to Phase 3 Project
- Select your team
  - Administrator
  - Accountant
  - Engineer
  - Local Counsel
  - PSC Counsel
- Submit preliminary funding application to the WVIJDC

Questions?

Thank You!

CITY OF ELKINS SANITARY BOARD

LONG-TERM CONTROL PLAN

PUBLIC MEETING

MONDAY – JANUARY 23, 2023 @ 10:00 A.M. (LOCAL TIME)

NAME	REPRESENTING / ADDRESS	PHONE NO.
Melody Himes	City of Elkins	304-636-1414 ext 1433
MARK HARTLEY	City of Elkins	304-636-2058
Whitney Hymes	City of Elkins 401 Davis Ave 26241	304-636-1122
[illegible]	City of Elkins	304-704-9357
JERRY MARCO	COO	304-704-3616
Randall Hiller	Board Member	304-636-3714
CARY SMITH	REGION VII PSDC	304-472-6564
Tracy Judy	City of Elkins	304-636-1414, ext. 1317
Geraldine S. Roberts	City Attorney	304-677-9944

CITY OF ELKINS SANITARY BOARD

LONG-TERM CONTROL PLAN

PUBLIC MEETING

MONDAY – JANUARY 23, 2023 @ 10:00 A.M. (LOCAL TIME)

NAME	REPRESENTING / ADDRESS	PHONE NO.
Mike Kesicker	City of Elkins / Operations Div.	304-642-2343
Michael Griffith	CDA	304 545 3645
Judy Guye	City of Elkins	304 636 4763
Kris Wilmoth	RCDA + Parents who reside @ 207 Sylvester Dr.	304-439-4820
Dave Clark	Woodlands Development 316 Railroad Ave.	304-404-2912

Appendix K

USFWS Correspondence

United States Department of the Interior

FISH AND WILDLIFE SERVICE
West Virginia Ecological Services Field Office
6263 Appalachian Highway
Davis, WV 26260-8061
Phone: (304) 866-3858 Fax: (304) 866-3852

In Reply Refer To: January 17, 2024
Project Code: 2024-0036998
Project Name: Elkins Long Term Control Plan Update

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed, and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through IPaC by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)(c)). For projects other than major construction activities, the Service suggests that a biological

evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at: https://www.fws.gov/sites/default/files/documents/endangered-species-consultation-handbook.pdf

Migratory Birds: In addition to responsibilities to protect threatened and endangered species under the Endangered Species Act (ESA), there are additional responsibilities under the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA) to protect native birds from project-related impacts. Any activity, intentional or unintentional, resulting in take of migratory birds, including eagles, is prohibited unless otherwise permitted by the U.S. Fish and Wildlife Service (50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)). For more information regarding these Acts, see Migratory Bird Permit | What We Do | U.S. Fish & Wildlife Service (fws.gov).

The MBTA has no provision for allowing take of migratory birds that may be unintentionally killed or injured by otherwise lawful activities. It is the responsibility of the project proponent to comply with these Acts by identifying potential impacts to migratory birds and eagles within applicable NEPA documents (when there is a federal nexus) or a Bird/Eagle Conservation Plan (when there is no federal nexus). Proponents should implement conservation measures to avoid or minimize the production of project-related stressors or minimize the exposure of birds and their resources to the project-related stressors. For more information on avian stressors and recommended conservation measures, see https://www.fws.gov/library/collections/threats-birds.

In addition to MBTA and BGEPA, Executive Order 13186: *Responsibilities of Federal Agencies to Protect Migratory Birds*, obligates all Federal agencies that engage in or authorize activities that might affect migratory birds, to minimize those effects and encourage conservation measures that will improve bird populations. Executive Order 13186 provides for the protection of both migratory birds and migratory bird habitat. For information regarding the implementation of Executive Order 13186, please visit https://www.fws.gov/partner/council-conservation-migratory-birds.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Code in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List

OFFICIAL SPECIES LIST

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

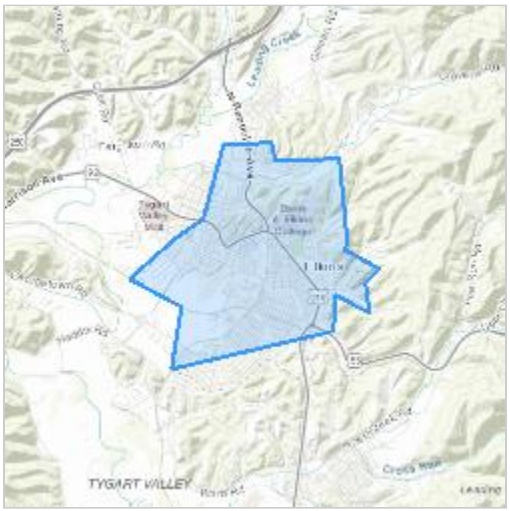
This species list is provided by:

West Virginia Ecological Services Field Office
6263 Appalachian Highway
Davis, WV 26260-8061
(304) 866-3858

PROJECT SUMMARY

Project Code: 2024-0036998
Project Name: Elkins Long Term Control Plan Update
Project Type: Utility Infrastructure Maintenance
Project Description: Determination of Threatened or Endangered Species within City
Project Location:

The approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@38.926030299999994,-79.8526546057694,14z



Counties: Randolph County, West Virginia

ENDANGERED SPECIES ACT SPECIES

There is a total of 6 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species. Note that 1 of these species should be considered only under certain conditions.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries[1], as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

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1. NOAA Fisheries, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

MAMMALS

NAME	STATUS
Indiana Bat *Myotis sodalis* There is **final** critical habitat for this species. Your location does not overlap the critical habitat. This species only needs to be considered under the following conditions: ▪ All activities in this location should consider potential effects to this species. This project is not within a known-use area, but potentially occupied habitat may exist. Please contact the WVFO for further coordination. Species profile: https://ecos.fws.gov/ecp/species/5949	Endangered
Northern Long-eared Bat *Myotis septentrionalis* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9045	Endangered
Tricolored Bat *Perimyotis subflavus* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/10515	Proposed Endangered

INSECTS

NAME	STATUS
Monarch Butterfly *Danaus plexippus* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9743	Candidate
Rusty Patched Bumble Bee *Bombus affinis* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9383	Endangered

FLOWERING PLANTS

NAME	STATUS
Small Whorled Pogonia *Isotria medeoloides* Population: No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/1890	Threatened

CRITICAL HABITATS

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

YOU ARE STILL REQUIRED TO DETERMINE IF YOUR PROJECT(S) MAY HAVE EFFECTS ON ALL ABOVE LISTED SPECIES.

IPAC USER CONTACT INFORMATION

Agency: Elkins city
Name: Michael Davis
Address: 4424 Emerson Avenue
City: Parkersburg
State: WV
Zip: 26104
Email michael.davis@burgessniple.com
Phone: 3045806918

LEAD AGENCY CONTACT INFORMATION

Lead Agency: Elkins city

Appendix L

Cost Estimates

City of Elkins
Updated Long Term Control Plan
Construction Cost Estimate for Conveyance and Treatment at the WWTP

January 18, 2024

Improvement	Unit	Quantity	Unit Cost	Total Cost
Expand Interceptor from CSO 016 to CSO 017	lf	360	$ 600.00	$ 216,000.00
Expand Interceptor from CSO 017 to CSO 018	lf	420	$ 650.00	$ 273,000.00
Expand Interceptor from CSO 018 to CSO 019	lf	400	$ 650.00	$ 260,000.00
Expand Interceptor Crossing Tygart Valley River to the Cherokee Lift Station	lf	200	$ 800.00	$ 160,000.00
Increase Capacity for Cherokee Lift Station	gpm	2700	$ 500.00	$ 1,350,000.00
Increase Size of Cherokee Lift Station Force Main	lf	670	$ 300.00	$ 201,000.00
Expand Interceptor from CSO 005 to CSO 006	lf	710	$ 700.00	$ 497,000.00
Expand Interceptor from CSO 006 to CSO 007	lf	480	$ 800.00	$ 384,000.00
Expand Interceptor from CSO 007 to the Glendale Lift Station	lf	3110	$ 800.00	$ 2,488,000.00
Increase Capacity for Glendale Lift Station	gpm	5550	$ 500.00	$ 2,775,000.00
Increase Size of Glendale Lift Station Force Main	lf	2840	$ 400.00	$ 1,136,000.00
Increase Peak Flow Capacity at the WWTP	mgd	8.5	$ 1,800,000.00	$ 15,300,000.00
				$ 25,040,000.00

City of Elkins
Updated Long Term Control Plan
Inflow Reduction

January 18, 2024

Tributary Sewer	Dry Weather Flow	EDUs	Cost
CSO 002	80,000	320	$ 160,000.00
CSO 003	70,000	280	$ 140,000.00
CSO 004	10,000	40	$ 20,000.00
CSO 005	20,000	80	$ 40,000.00
CSO 006	20,000	80	$ 40,000.00
CSO 007	20,000	80	$ 40,000.00
CSO 008	110,000	440	$ 220,000.00
CSO 009	90,000	360	$ 180,000.00
CSO 011	20,000	80	$ 40,000.00
CSO 012	30,000	120	$ 60,000.00
CSO 015	20,000	80	$ 40,000.00
CSO 016	80,000	320	$ 160,000.00
CSO 017	10,000	40	$ 20,000.00
CSO 018	20,000	80	$ 40,000.00
CSO 019	30,000	120	$ 60,000.00
Total			**$ 1,260,000.00**

City of Elkins
Updated Long Term Control Plan
Sewer Separation

January 18, 2024

Tributary Sewer	CSO Volume	Cost
CSO 002	2.02	$ 2,747,200.00
CSO 003	1.5	$ 2,040,000.00
CSO 004	0.16	$ 217,600.00
CSO 005	1.52	$ 2,067,200.00
CSO 006	0.65	$ 884,000.00
CSO 007	2.64	$ 3,590,400.00
CSO 008	3.06	$ 4,161,600.00
CSO 009	0.32	$ 435,200.00
CSO 011	0.51	$ 693,600.00
CSO 012	0.63	$ 856,800.00
CSO 015	1.41	$ 1,917,600.00
CSO 016	3.04	$ 4,134,400.00
CSO 017	0.11	$ 149,600.00
CSO 018	0.1	$ 136,000.00
CSO 019	0.72	$ 979,200.00
Total		**$ 25,010,400.00**

City of Elkins
Updated Long Term Control Plan
Offline Storage

January 18, 2024

Tributary Sewer	CSO Volume	Cost
CSO 002	2.02	$ 2,525,000.00
CSO 003	1.5	$ 1,875,000.00
CSO 004	0.16	$ 200,000.00
CSO 005	1.52	$ 1,900,000.00
CSO 006	0.65	$ 812,500.00
CSO 007	2.64	$ 3,300,000.00
CSO 008	3.06	$ 3,825,000.00
CSO 009	0.32	$ 400,000.00
CSO 011	0.51	$ 637,500.00
CSO 012	0.63	$ 787,500.00
CSO 015	1.41	$ 1,762,500.00
CSO 016	3.04	$ 3,800,000.00
CSO 017	0.11	$ 137,500.00
CSO 018	0.1	$ 125,000.00
CSO 019	0.72	$ 900,000.00
Total		**$ 22,987,500.00**

City of Elkins
Updated Long Term Control Plan
Wet Weather Treatment

January 18, 2024

Tributary Sewer	CSO Volume	Cost
CSO 002	2.02	$ 3,636,000.00
CSO 003	1.5	$ 2,700,000.00
CSO 004	0.16	$ 288,000.00
CSO 005	1.52	$ 2,736,000.00
CSO 006	0.65	$ 1,170,000.00
CSO 007	2.64	$ 4,752,000.00
CSO 008	3.06	$ 5,508,000.00
CSO 009	0.32	$ 576,000.00
CSO 011	0.51	$ 918,000.00
CSO 012	0.63	$ 1,134,000.00
CSO 015	1.41	$ 2,538,000.00
CSO 016	3.04	$ 5,472,000.00
CSO 017	0.11	$ 198,000.00
CSO 018	0.1	$ 180,000.00
CSO 019	0.72	$ 1,296,000.00
Total		**$ 33,102,000.00**

Appendix M

LTCP-EZ Information

Community Name	NPDES number	Date
City of Elkins	*0020028*	*10/11/22*

SYSTEM CHARACTERIZATION

8. Location ☑ Map or sketch of the CSS. *Attach Schedule 2--MAP.*

9. CSO Information	**a** Permitted CSO number	**9a**	CSO 002	CSO 003	CSO 004	CSO 005
	b Description of location	**9b**	Barron Avenue	Cherokee Street	Henry Avenue	Kerens Avenue
	c Latitude/Longitude	**9c**	38° 55'00"/ 79° 50'46"	38° 56'04"/ 79° 50'29"	38° 55'23"/ 79° 50'49"	38° 55'25"/ 79° 50'54"
	d Receiving water	**9d**	Tygart Valley River	Tygart Valley River	Tygart Valley River	Tygart Valley River
10. CSS Information	**a** Sub-sewershed area (acres)	**10a**	158	77	14	73
	b Principal land use	**10b**	Residential / Commerical	Residential / Commerical	Residential / Commerical	Residential / Commerical
11. Pipe, Capacity and Flow Information	**a** Type of CSO hydraulioc control	**11a**	Elevated Pipe	Elevated Pipe	Leaping Weir	Pipe
	b CSO hydraulic control capacity (MGD)	**11b**	2.35 mgd	1.62 mgd	1.62 mgd	3.24 mgd
	c Name of interceptor or downstream pipe	**11c**	Barron Avenue Lift Station	Cherokee Lift Station	North Interceptor	North Interceptor

PUBLIC PARTICIPATION

12. Public Participation ☑ Description of public participation activities. *Attach Schedule 3--PUBLIC PARTICIPATION.*

CSO VOLUME

13. CSO Volume ☑ Analysis of the volume of combined sewage that needs to be stored, treated, or eliminated. *Attach Schedule 4--CSO VOLUME.*

☐ Separate documentation of the analysis of combined sewage volume. *Attach documentation.*

EVALUATION OF CSO CONTROLS

14. CSO Controls ☑ Evaluation of CSO control alternatives. *Attach Schedules 5a and 5b--CSO CONTROL.*

☐ Separate documentation of the evaluation of CSO control alternatives. *Attach documentation.*

AFFORDABILITY

15. Affordability ☐ Evaluation of financial capability. *Attach Schedule 6--CSO AFFORDABILITY.*

a Check the appropriate affordability burden from Schedule 6--CSO AFFORDABILITY.

☐ Low Burden
☐ Medium Burden
☐ High Burden

(Form Green LTCP-EZ)

FORM GREEN LTCP-EZ

United States Environmental Protection Agency
CSO Green Long-Term Control Plan Template for Small Communities

Community Name	NPDES number	Date
City of Elkins	*0020028*	*10/11/22*

SYSTEM CHARACTERIZATION

8. Location ☑ Map or sketch of the CSS. *Attach Schedule 2--MAP.*

9. CSO Information	**a** Permitted CSO number	**9a**	CSO 006	CSO 007	CSO 008	CSO 009
	b Description of location	**9b**	North Davis Ave.	Railroad Ave.	Worth Ave.	Lower Pleasant
	c Latitude/Longitude	**9c**	38° 55'28"/ 79° 50'59"	38° 55'28"/ 79° 51'06"	38° 55'32"/ 79° 51'28"	38° 56'38"/ 79° 51'36"
	d Receiving water	**9d**	Tygart Valley River	Tygart Valley River	Tygart Valley River	Leading Creek
10. CSS Information	**a** Sub-sewershed area (acres)	**10a**	41	36	214	158
	b Principal land use	**10b**	Residential / Commerical	Residential / Commerical	Residential / Commerical	Residential
11. Pipe, Capacity and Flow Information	**a** Type of CSO hydraulioc control	**11a**	Leaping Weir	Pipe	Pipe	Pipe
	b CSO hydraulic control capacity (MGD)	**11b**	3.24 mgd	3.24 mgd	3.24 mgd	0.78 mgd
	c Name of interceptor or downstream pipe	**11c**	North Interceptor	North Interceptor	Glendale LS	Steward Ave LS

PUBLIC PARTICIPATION

12. Public Participation ☑ Description of public participation activities. *Attach Schedule 3--PUBLIC PARTICIPATION.*

CSO VOLUME

13. CSO Volume ☑ Analysis of the volume of combined sewage that needs to be stored, treated, or eliminated. *Attach Schedule 4--CSO VOLUME.*
☐ Separate documentation of the analysis of combined sewage volume. *Attach documentation.*

EVALUATION OF CSO CONTROLS

14. CSO Controls ☑ Evaluation of CSO control alternatives. *Attach Schedules 5a and 5b--CSO CONTROL.*
☐ Separate documentation of the evaluation of CSO control alternatives. *Attach documentation.*

AFFORDABILITY

15. Affordability ☐ Evaluation of financial capability. *Attach Schedule 6--CSO AFFORDABILITY.*

a Check the appropriate affordability burden from Schedule 6--CSO AFFORDABILITY.

☐ Low Burden
☐ Medium Burden
☐ High Burden

(Form Green LTCP-EZ)

FORM GREEN LTCP-EZ

United States Environmental Protection Agency
CSO Green Long-Term Control Plan Template for Small Communities

Community Name	NPDES number	Date
City of Elkins	*0020028*	*10/11/22*

SYSTEM CHARACTERIZATION

8. Location ☑ Map or sketch of the CSS. *Attach Schedule 2--MAP.*

9. CSO Information	**a** Permitted CSO number	**9a**	CSO 011	CSOs 012 & 020	CSO 015	CSO 016
	b Description of location	**9b**	Mt. View Drive	Flood Control Road	15th Street	South Railroad Ave.
	c Latitude/Longitude	**9c**	38° 55'35"/ 79° 52'20"	38° 55'27"/ 79° 51'59"	38° 55'13"/ 79° 51'27"	38° 55'23"/ 79° 51'02"
	d Receiving water	**9d**	Tygart Valley River	Tygart Valley River	Tygart Valley River	Tygart Valley River
10. CSS Information	**a** Sub-sewershed area (acres)	**10a**	34	85	60	146
	b Principal land use	**10b**	Residential / Commerical	Residential / Commerical	Commerical	Commerical
11. Pipe, Capacity and Flow Information	**a** Type of CSO hydraulioc control	**11a**	Pipe	Pipe	Pipe	Pipe
	b CSO hydraulic control capacity (MGD)	**11b**	0.48 mgd	1.08 mgd	0.29 mgd	1.62 mgd
	c Name of interceptor or downstream pipe	**11c**	AB Andrews LS	Lift Station #11	15th St LS	South Interceptor

PUBLIC PARTICIPATION

12. Public Participation ☑ Description of public participation activities. *Attach Schedule 3--PUBLIC PARTICIPATION.*

CSO VOLUME

13. CSO Volume ☑ Analysis of the volume of combined sewage that needs to be stored, treated, or eliminated. *Attach Schedule 4--CSO VOLUME.*
☐ Separate documentation of the analysis of combined sewage volume. *Attach documentation.*

EVALUATION OF CSO CONTROLS

14. CSO Controls ☑ Evaluation of CSO control alternatives. *Attach Schedules 5a and 5b--CSO CONTROL.*
☐ Separate documentation of the evaluation of CSO control alternatives. *Attach documentation.*

AFFORDABILITY

15. Affordability ☐ Evaluation of financial capability. *Attach Schedule 6--CSO AFFORDABILITY.*

a Check the appropriate affordability burden from Schedule 6--CSO AFFORDABILITY.

☐ Low Burden
☐ Medium Burden
☐ High Burden

(Form Green LTCP-EZ)

FORM GREEN LTCP-EZ

United States Environmental Protection Agency
CSO Green Long-Term Control Plan Template for Small Communities

Community Name	NPDES number	Date
City of Elkins	*0020028*	*10/11/22*

SYSTEM CHARACTERIZATION

8. Location ☑ Map or sketch of the CSS. *Attach Schedule 2--MAP.*

9. CSO Information	**a** Permitted CSO number	**9a**	CSO 017	CSO 018	CSO 019	
	b Description of location	**9b**	S. Davis Ave	S. Kerens Ave	S. Henry Ave	
	c Latitude/Longitude	**9c**	38° 55'22"/ 79° 50'57"	38° 55'22"/ 79° 50'52"	38° 55'20"/ 79° 50'48"	
	d Receiving water	**9d**	Tygart Valley River	Tygart Valley River	Tygart Valley River	
10. CSS Information	**a** Sub-sewershed area (acres)	**10a**	11	12	37	
	b Principal land use	**10b**	Commerical	Residential	Residential	
11. Pipe, Capacity and Flow Information	**a** Type of CSO hydraulioc control	**11a**	Pipe	Leaping Weir	Pipe	
	b CSO hydraulic control capacity (MGD)	**11b**	1.62 mgd	1.62 mgd	1.62 mgd	
	c Name of interceptor or downstream pipe	**11c**	South Interceptor	South Interceptor	South Interceptor	

PUBLIC PARTICIPATION

12. Public Participation ☑ Description of public participation activities. *Attach Schedule 3--PUBLIC PARTICIPATION.*

CSO VOLUME

13. CSO Volume ☑ Analysis of the volume of combined sewage that needs to be stored, treated, or eliminated. *Attach Schedule 4--CSO VOLUME.*
☐ Separate documentation of the analysis of combined sewage volume. *Attach documentation.*

EVALUATION OF CSO CONTROLS

14. CSO Controls ☑ Evaluation of CSO control alternatives. *Attach Schedules 5a and 5b--CSO CONTROL.*
☐ Separate documentation of the evaluation of CSO control alternatives. *Attach documentation.*

AFFORDABILITY

15. Affordability ☐ Evaluation of financial capability. *Attach Schedule 6--CSO AFFORDABILITY.*

a Check the appropriate affordability burden from Schedule 6--CSO AFFORDABILITY.

- ☐ Low Burden
- ☐ Medium Burden
- ☐ High Burden

Schedule 4.
CSOVOL

(FORM GREEN LTCP-EZ)

Schedule 4. CSO VOLUME - Simplified Rational Method for Estimating the Volume of Combined Sewage To Be Treated, Stored, or Eliminated

➢ Attach to FORM GREEN LTCP-EZ

Attachment Sequence # **04a**

Community name shown on FORM GREEN LTCP-EZ	NPDES number	Date
City of Elkins	*0020028*	*10/11/22*

City of Elkins

			CSO 002	CSO 003	CSO 004	CSO 005
Sub-sewer-shed Area	1 Sub-sewershed area (acres). *Line 10a on Form Green LTCP-EZ.*	1	158	77	14	73
	2 Principal land use. *Line 10b on Form Green LTCP-EZ.*	2	Res-Com	Res-Com	Res-Com	Res-Com
	3 Sub-sewershed runoff coefficient. *Use Table 1.*	3	0.40	0.60	0.75	0.75
Runoff	4 Design storm rainfall for 1-hour, 3-month storm (in/hr). *See instructions.*	4	0.65	0.65	0.65	0.65
	5 Calculated runoff rate (acre inch per hour). *Multiply lines 1, 3 and 4.*	5	41.08	30.03	6.83	35.59
	6 Peak runoff rate in MGD. *Multiply line 5 by 0.6517.*	6	26.77	19.57	4.45	23.19
Dry Weather Flow \ Flow Within the CSS	7 Dry weather flow rate (MGD). *See instructions.*	7	0.08	0.07	0.01	0.02
Peak Wet Weather Flow	8 Peak flow rate (MGD). *Add lines 6 and 7.*	8	26.85	19.64	4.46	23.21
Overflow	9 CSO hydraulic control capacity (MGD). *Line 11b on Form Green LTCP-EZ.*	9	2.35	1.62	1.62	3.24
	10 Ratio of CSO hydraulic control capacity to peak flow rate. *Divide line 9 by line 8. Enter 1.0 if line 8 is less than line 9.*	10	0.088	0.082	0.363	0.140
	11 Overflow fraction of combined sewage. *Determine from line 10 using instructions.*	11	0.833	0.842	0.405	0.740
	12 24-hr rainfall (inches). *Multiply Line 4 by 2.1.*	12	1.37	1.37	1.37	1.37
	13 Volume of runoff (MG). *Multiply lines 1, 3 and 12, then by 0.02715.*	13	2.34	1.71	0.39	2.03
	14 Volume of dry weather flow (MG). *Enter value from line 7.*	14	0.08	0.07	0.01	0.02
	15 Total volume of flow (MG). *Add lines 13 and 14.*	15	2.42	1.79	0.40	2.05
	16 Volume of excess combined sewage (MG) at individual CSO hydraulic controls during 24-hour rainfall period. *Multiply line 11 by line 15.*	16	2.02	1.50	0.16	1.52
Diversion	17 Diversion fraction of combined sewage. *Determine from line 10 using Table 2.*	17	0.210	0.210	0.760	0.330
	18 Volume of runoff diverted to WWTP (MG). *Multiply line 13 by line 17.*	18	0.492	0.360	0.296	0.670
	19 Total volume of combined sewage conveyed to WWTP during 24-hour rainfall period (MG). *Add lines 14 and 18.*	19	0.571	0.433	0.308	0.688
Conveyance	20 Peak rate of collected combined sewage diverted to the WWTP within sub-sewersheds. *Enter smaller of line 8 and line 9.*	20	2.35	1.62	1.62	3.24
	21 Peak rate of combined sewage conveyed to WWTP (MGD). *Add up sub-sewershed values on line 20.*	21	8.830			
	22 Peak rate of sewage from non-CSO areas (MGD).	22	0.074			
	23 Peak rate of sewage from satellite communities (MGD).	23	0.777			
	24 Peak rate of sewage conveyed to WWTP (MGD). *Add lines 21, 22 and 23.*	24	9.681			
Treatment	25 Primary treatment capacity (MGD). *Line 4a on Form Green LTCP-EZ.*	25	0.30			
	26 Ratio of primary capacity to peak rate of sewage conveyed to WWTP. *Divide line 25 by line 24. Enter 1.0 if line 24 is less than line 25.*	26	0.031			
	27 Fraction of combined sewage untreated at WWTP. *Determine from line 26 using instructions.*	27	0.939			
	28 Sum of combined sewage (MG) conveyed to WWTP during 24-hour rainfall period. *Add up sub-sewershed values on line 19.*	28	1.999			
	29 Dry weather flow from non-CSO areas (MGD).	29				
	30 Volume of sewage from non-CSO areas during 24-hour rainfall period (MG).	30	0.037			
	31 Dry weather flow from satellite communites (MGD).	31	0.300			
	32 Volume of sewage from satellite communities during 24-hour rainfall period (MG).	32	0.539			
	33 Total volume of sewage during 24-hour rainfall event (MG). *Add lines 28, 30 and 32.*	33	0.744			
	34 Volume of combined sewage untreated at WWTP. *Multiply line 33 by line 27. Enter 0.0 if line 25 is greater than line 24.*	34	0.699			
CSO Volume	35 Volume of combined sewage overflow at CSO Outfalls (MG). *Add up sub-sewershed values on line 16.*	35	5.197			
	36 Volume of combined sewage overflow at WWTP (MG). *Enter value from line 34.*	36	0.699			

Schedule 4.
CSOVOL

Schedule 4. CSO VOLUME - Simplified Rational Method for Estimating the Volume of Combined Sewage To Be Treated, Stored, or Eliminated

(FORM GREEN LTCP-EZ)

Attachment Sequence # **04b**

➢ Attach to FORM GREEN LTCP-EZ

Community name shown on FORM GREEN LTCP-EZ	NPDES number	Date
City of Elkins	*0020028*	*10/11/22*

City of Elkins

			CSO 006	CSO 007	CSO 008	CSO 009
Sub-sewer-shed Area	**1** Sub-sewershed area (acres). *Line 10a on Form Green LTCP-EZ.*	1	36	214	158	34
	2 Principal land use. *Line 10b on Form Green LTCP-EZ.*	2	Res-Com	Res-Com	Res-Com	Res-Com
	3 Sub-sewershed runoff coefficient. *Use Table 1.*	3	0.85	0.40	0.60	0.30
Runoff	**4** Design storm rainfall for 1-hour, 3-month storm (in/hr). *See instructions.*	4	0.65	0.65	0.65	0.65
	5 Calculated runoff rate (acre inch per hour). *Multiply lines 1, 3 and 4.*	5	19.89	55.64	61.62	6.63
	6 Peak runoff rate in MGD. *Multiply line 5 by 0.6517.*	6	12.96	36.26	40.16	4.32
Dry Weather Flow V Flow Within the CSS	**7** Dry weather flow rate (MGD). *See instructions.*	7	0.02	0.02	0.11	0.09
Peak Wet Weather Flow	**8** Peak flow rate (MGD). *Add lines 6 and 7.*	8	12.99	36.28	40.27	4.41
Overflow	**9** CSO hydraulic control capacity (MGD). *Line 11b on Form Green LTCP-EZ.*	9	3.24	3.24	3.24	0.75
	10 Ratio of CSO hydraulic control capacity to peak flow rate. *Divide line 9 by line 8. Enter 1.0 if line 8 is less than line 9.*	10	0.250	0.089	0.080	0.170
	11 Overflow fraction of combined sewage. *Determine from line 10 using instructions.*	11	0.563	0.829	0.846	0.689
	12 24-hr rainfall (inches). *Multiply Line 4 by 2.1.*	12	1.37	1.37	1.37	1.37
	13 Volume of runoff (MG). *Multiply lines 1, 3 and 12, then by 0.02715.*	13	1.13	3.17	3.51	0.38
	14 Volume of dry weather flow (MG). *Enter value from line 7.*	14	0.02	0.02	0.11	0.09
	15 Total volume of flow (MG). *Add lines 13 and 14.*	15	1.16	3.19	3.62	0.47
	16 Volume of excess combined sewage (MG) at individual CSO hydraulic controls during 24-hour rainfall period. *Multiply line 11 by line 15.*	16	0.65	2.64	3.06	0.32
Diversion	**17** Diversion fraction of combined sewage. *Determine from line 10 using Table 2.*	17	0.620	0.210	0.190	0.420
	18 Volume of runoff diverted to WWTP (MG). *Multiply line 13 by line 17.*	18	0.703	0.666	0.668	0.159
	19 Total volume of combined sewage conveyed to WWTP during 24-hour rainfall period (MG). *Add lines 14 and 18.*	19	0.726	0.681	0.778	0.251
Conveyance	**20** Peak rate of collected combined sewage diverted to the WWTP within sub-sewersheds. *Enter smaller of line 8 and line 9.*	20	3.24	3.24	3.24	0.75

Schedule 4.
CSOVOL

Schedule 4. CSO VOLUME - Simplified Rational Method for Estimating the Volume of Combined Sewage To Be Treated, Stored, or Eliminated

(FORM GREEN LTCP-EZ)

Attachment Sequence # **04c**

➢ Attach to FORM GREEN LTCP-EZ

Community name shown on FORM GREEN LTCP-EZ	NPDES number	Date
City of Elkins	*0020028*	*10/11/22*

City of Elkins

			CSO 011	CSO 012 & 020	CSO 015	CSO 016
Sub-sewer-shed Area	**1** Sub-sewershed area (acres). *Line 10a on Form Green LTCP-EZ.*	**1**	34	85	60	146
	2 Principal land use. *Line 10b on Form Green LTCP-EZ.*	**2**	Residential	Res-Com	Commercial	Commercial
	3 Sub-sewershed runoff coefficient. *Use Table 1.*	**3**	0.45	0.25	0.65	0.60
Runoff	**4** Design storm rainfall for 1-hour, 3-month storm (in/hr). *See instructions.*	**4**	0.65	0.65	0.65	0.65
	5 Calculated runoff rate (acre inch per hour). *Multiply lines 1, 3 and 4.*	**5**	9.95	13.81	25.35	56.94
	6 Peak runoff rate in MGD. *Multiply line 5 by 0.6517.*	**6**	6.48	9.00	16.52	37.11
Dry Weather Flow V Flow Within the CSS	**7** Dry weather flow rate (MGD). *See instructions.*	**7**	0.02	0.03	0.02	0.08
Peak Wet Weather Flow	**8** Peak flow rate (MGD). *Add lines 6 and 7.*	**8**	6.50	9.03	16.54	37.19
Overflow	**9** CSO hydraulic control capacity (MGD). *Line 11b on Form Green LTCP-EZ.*	**9**	0.48	1.08	0.29	1.62
	10 Ratio of CSO hydraulic control capacity to peak flow rate. *Divide line 9 by line 8. Enter 1.0 if line 8 is less than line 9.*	**10**	0.074	0.120	0.018	0.044
	11 Overflow fraction of combined sewage. *Determine from line 10 using instructions.*	**11**	0.858	0.775	0.965	0.915
	12 24-hr rainfall (inches). *Multiply Line 4 by 2.1.*	**12**	1.37	1.37	1.37	1.37
	13 Volume of runoff (MG). *Multiply lines 1, 3 and 12, then by 0.02715.*	**13**	0.57	0.79	1.45	3.25
	14 Volume of dry weather flow (MG). *Enter value from line 7.*	**14**	0.02	0.03	0.02	0.08
	15 Total volume of flow (MG). *Add lines 13 and 14.*	**15**	0.59	0.82	1.46	3.33
	16 Volume of excess combined sewage (MG) at individual CSO hydraulic controls during 24-hour rainfall period. *Multiply line 11 by line 15.*	**16**	0.51	0.63	1.41	3.04
Diversion	**17** Diversion fraction of combined sewage. *Determine from line 10 using Table 2.*	**17**	0.190	0.280	0.040	0.110
	18 Volume of runoff diverted to WWTP (MG). *Multiply line 13 by line 17.*	**18**	0.108	0.221	0.058	0.357
	19 Total volume of combined sewage conveyed to WWTP during 24-hour rainfall period (MG). *Add lines 14 and 18.*	**19**	0.131	0.251	0.076	0.439
Conveyance	**20** Peak rate of collected combined sewage diverted to the WWTP within sub-sewersheds. *Enter smaller of line 8 and line 9.*	**20**	0.48	1.08	0.29	1.62

Schedule 4.
CSOVOL

Schedule 4. CSO VOLUME - Simplified Rational Method for Estimating the Volume of Combined Sewage To Be Treated, Stored, or Eliminated

(FORM GREEN LTCP-EZ)

Attachment Sequence # **04d**

➢ Attach to FORM GREEN LTCP-EZ

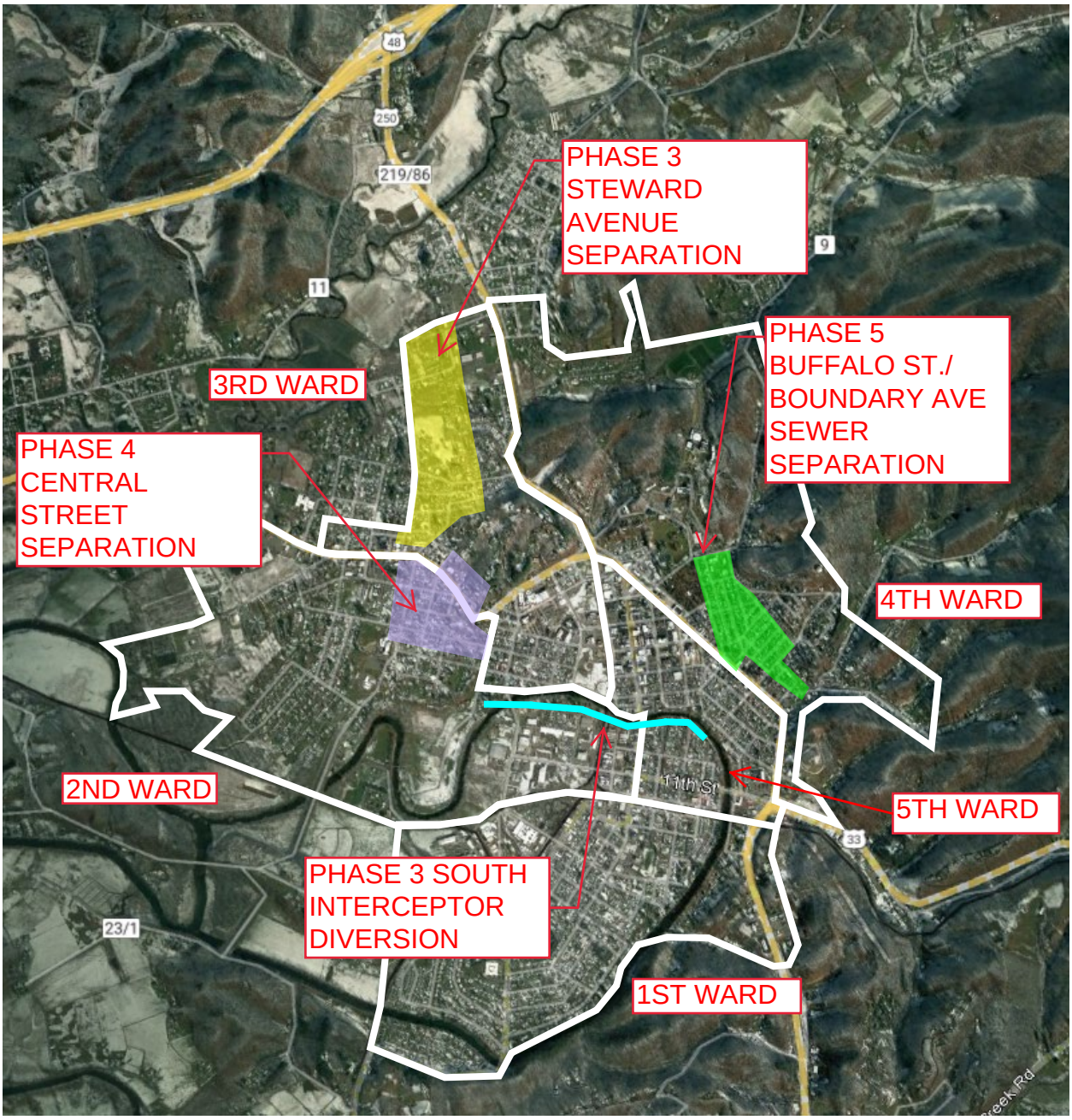
Community name shown on FORM GREEN LTCP-EZ	NPDES number	Date
City of Elkins	*0020028*	*10/11/22*

City of Elkins

			CSO 017	CSO 018	CSO 019	
Sub-sewer-shed Area	**1** Sub-sewershed area (acres). *Line 10a on Form Green LTCP-EZ.*	**1**	11	12	37	
	2 Principal land use. *Line 10b on Form Green LTCP-EZ.*	**2**	Commercial	Residential	Residential	
	3 Sub-sewershed runoff coefficient. *Use Table 1.*	**3**	0.80	0.70	0.70	
Runoff	**4** Design storm rainfall for 1-hour, 3-month storm (in/hr). *See instructions.*	**4**	0.65	0.65	0.65	
	5 Calculated runoff rate (acre inch per hour). *Multiply lines 1, 3 and 4.*	**5**	5.72	5.46	16.84	
	6 Peak runoff rate in MGD. *Multiply line 5 by 0.6517.*	**6**	3.73	3.56	10.97	
Dry Weather Flow V Flow Within the CSS	**7** Dry weather flow rate (MGD). *See instructions.*	**7**	0.01	0.02	0.03	
Peak Wet Weather Flow	**8** Peak flow rate (MGD). *Add lines 6 and 7.*	**8**	3.73	3.57	11.00	
Overflow	**9** CSO hydraulic control capacity (MGD). *Line 11b on Form Green LTCP-EZ.*	**9**	1.62	1.62	1.62	
	10 Ratio of CSO hydraulic control capacity to peak flow rate. *Divide line 9 by line 8. Enter 1.0 if line 8 is less than line 9.*	**10**	0.434	0.453	0.147	
	11 Overflow fraction of combined sewage. *Determine from line 10 using instructions.*	**11**	0.321	0.299	0.727	
	12 24-hr rainfall (inches). *Multiply Line 4 by 2.1.*	**12**	1.37	1.37	1.37	
	13 Volume of runoff (MG). *Multiply lines 1, 3 and 12, then by 0.02715.*	**13**	0.33	0.31	0.96	
	14 Volume of dry weather flow (MG). *Enter value from line 7.*	**14**	0.01	0.02	0.03	
	15 Total volume of flow (MG). *Add lines 13 and 14.*	**15**	0.33	0.33	0.99	
	16 Volume of excess combined sewage (MG) at individual CSO hydraulic controls during 24-hour rainfall period. *Multiply line 11 by line 15.*	**16**	0.11	0.10	0.72	
Diversion	**17** Diversion fraction of combined sewage. *Determine from line 10 using Table 2.*	**17**	0.810	0.810	0.380	
	18 Volume of runoff diverted to WWTP (MG). *Multiply line 13 by line 17.*	**18**	0.264	0.252	0.365	
	19 Total volume of combined sewage conveyed to WWTP during 24-hour rainfall period (MG). *Add lines 14 and 18.*	**19**	0.271	0.267	0.396	
Conveyance	**20** Peak rate of collected combined sewage diverted to the WWTP within sub-sewersheds. *Enter smaller of line 8 and line 9.*	**20**	1.62	1.62	1.62	

Appendix N

Map of Proposed Improvements



BURGESS & NIPLE

CITY OF ELKINS LONG-TERM CONTROL PLAN
PHASED PROJECTS

Appendix O

Sewer Separation Cost Estimates

CITY OF ELKINS WATER BOARD
WATER AND WASTEWATER NEEDS ANALYSIS
CONCEPTUAL CONSTRUCTION COST ESTIMATE FOR WASTEWATER SOUTH INTERCEPTOR

May 23, 2022

ITEM	DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	TOTAL COST
General					
	Mobilization/Demobilization	LS	$ 48,300	1	$ 48,300
	Erosion Control	LS	$ 2,500	1	$ 2,500
	Clearing and Grubbing	LS	$ 25,000	1	$ 25,000
	Traffic Control	LS	$ 20,000	1	$ 20,000
	Preconstruction Audio-Video Recording	LS	$ 20,000	1	$ 20,000
	12" PVC SDR-35 Sewers	LF	$ 120	440	$ 52,800
	18" PVC SDR-35 Sewers	LF	$ 150	810	$ 121,500
	24" PVC SDR-35 Sewers	LF	$ 180	2500	$ 450,000
	Directional Drill	LF	$ 300	0	$ -
	Bore and Jack	LF	$ 1,000	400	$ 400,000
	Manholes	EA	$ 5,000	22	$ 110,000
	Cleanouts	EA	$ 1,000	31	$ 31,000
	Wyes	EA	$ 800	31	$ 24,800
	6" PVC Sewer Laterals	LF	$ 100	620	$ 62,000
	Connection to Existing Manholes/LSs	EA	$ 5,000	2	$ 10,000
	Reconnection of Laterals	EA	$ 1,000	31	$ 31,000
	Connection of Sewer to New Manholes	EA	$ 3,500	11	$ 38,500
	Asphalt Trench Repair	SY	$ 100	1335	$ 133,500
	Concrete Sidewalks	SF	$ 15	870	$ 13,050
	Riprap	CY	$ 100	400	$ 40,000
	Seeding and Mulching	SY	$ 10	2330	$ 23,300
SUBTOTAL CONSTRUCTION					**$ 1,657,300**
	Contingency	10%			$ 165,700
	Contractor Overhead & Profit	17%			$ 281,700
TOTAL CONSTRUCTION					**$ 2,104,700**

CITY OF ELKINS WATER BOARD
WATER AND WASTEWATER NEEDS ANALYSIS
CONCEPTUAL CONSTRUCTION COST ESTIMATE FOR WASTEWATER CENTRAL AVENUE

May 23, 2022

ITEM	DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	TOTAL COST
General					
	Mobilization/Demobilization	LS	$ 65,200	1	$ 65,200
	Erosion Control	LS	$ 2,500	1	$ 2,500
	Clearing and Grubbing	LS	$ 40,000	1	$ 40,000
	Traffic Control	LS	$ 35,000	1	$ 35,000
	Preconstruction Audio-Video Recording	LS	$ 25,000	1	$ 25,000
	8" PVC SDR-35 Sewers	LF	$ 100	6150	$ 615,000
	12" PVC SDR-35 Sewers	LF	$ 120	1390	$ 166,800
	Directional Drill	LF	$ 300	0	$ -
	Bore and Jack	LF	$ 1,000	100	$ 100,000
	Manholes	EA	$ 5,000	33	$ 165,000
	Cleanouts	EA	$ 1,000	108	$ 108,000
	Wyes	EA	$ 800	108	$ 86,400
	6" PVC Sewer Laterals	LF	$ 100	2160	$ 216,000
	Connection to Existing Manholes/LSs	EA	$ 5,000	1	$ 5,000
	Reconnection of Laterals	EA	$ 1,000	108	$ 108,000
	Connection of Sewer to New Manholes	EA	$ 3,500	0	$ -
	Asphalt Trench Repair	SY	$ 100	4042	$ 404,200
	Concrete Sidewalks	SF	$ 15	1940	$ 29,100
	Riprap	CY	$ 100	400	$ 40,000
	Seeding and Mulching	SY	$ 10	2590	$ 25,900
SUBTOTAL CONSTRUCTION					**$ 2,237,100**
	Contingency	10%			$ 223,700
	Contractor Overhead & Profit	17%			$ 380,300
TOTAL CONSTRUCTION					**$ 2,841,100**

CITY OF ELKINS WATER BOARD
WATER AND WASTEWATER NEEDS ANALYSIS
CONCEPTUAL CONSTRUCTION COST ESTIMATE FOR WASTEWATER STEWARD AVENUE

May 23, 2022

ITEM	DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	TOTAL COST
General					
	Mobilization/Demobilization	LS	$ 67,700	1	$ 67,700
	Erosion Control	LS	$ 2,500	1	$ 2,500
	Clearing and Grubbing	LS	$ 40,000	1	$ 40,000
	Traffic Control	LS	$ 15,000	1	$ 15,000
	Preconstruction Audio-Video Recording	LS	$ 12,000	1	$ 12,000
	8" PVC SDR-35 Sewers	LF	$ 100	8370	$ 837,000
	12" PVC SDR-35 Sewer	LF	$ 120	1400	$ 168,000
	Bore and Jack Sewer	LF	$ 1,000	150	$ 150,000
	Manholes	EA	$ 5,000	35	$ 175,000
	Cleanouts	EA	$ 1,000	89	$ 89,000
	Wyes	EA	$ 800	89	$ 71,200
	6" PVC Sewer Laterals	LF	$ 100	1780	$ 178,000
	Connection to Existing Manholes/LSs	EA	$ 5,000	1	$ 5,000
	Reconnection of Laterals	EA	$ 1,000	89	$ 89,000
	Connection of Sewer to New Manholes	EA	$ 3,500	0	$ -
	Asphalt Trench Repair	SY	$ 100	3208	$ 320,800
	Concrete Sidewalks	SF	$ 15	2310	$ 34,650
	Riprap	CY	$ 100	0	$ -
	Seeding and Mulching	SY	$ 10	6930	$ 69,300
SUBTOTAL CONSTRUCTION					**$ 2,324,200**
	Contingency	10%			$ 232,400
	Contractor Overhead & Profit	17%			$ 395,100
TOTAL CONSTRUCTION					**$ 2,951,700**

CITY OF ELKINS
AGENDA ITEM REPORT

Meeting Date:	August 11, 2025
Section:	New business
Category:	Action Item
Agenda Item Name:	Review and Discussion of Georgetown Road Area and Trickett Lane Project (2025S-2666)
Recommended By:	Whitney L Hymes - Wastewater Superintendent/Chief Operator
Summary:	Update on the process and status of the Georgetown Road Area and Trickett Lane Project
Fiscal Impact:	N/A
Recommendation:	Discussion and Review of Updates
Attachments:	None

CITY OF ELKINS
AGENDA ITEM REPORT

Meeting Date:	August 11, 2025
Section:	New business
Category:	Action Item
Agenda Item Name:	Review and Discussion of Griffth & Associates PLCC Agreement: Rule 42-Sewer Rate Analysis/Study and Preliminary Project Planning for Wastewater
Recommended By:	Whitney L Hymes - Wastewater Superintendent/Chief Operator
Summary:	Discussion and presentation from Griffth Associates PLCC on Rule 42, which was approved to be performed at the November 18, 2024 Sanitary Board Meeting.
Fiscal Impact:	N/A
Recommendation:	Discussion and Review
Attachments:	None