

# Northcentral Regional Office CLEAN WATER PROGRAM

Application Type Renewal

Facility Type

Major / Minor

Non-

Minor

Municipal

NPDES PERMIT FACT SHEET INDIVIDUAL SEWAGE

Application No.

PA0228249

APS ID

1066014

Authorization ID 1400648

### **Applicant and Facility Information**

Applicant Name	Eagle	Creek LLC	Facility Name	Eagle Creek LLC WWTP
Applicant Address	1454 N	lartin Street	Facility Address	Old SR 220 South of Unionville
	State C	College, PA 16803-3065		Julian, PA 16844
Applicant Contact	Scott Y	ocum	Facility Contact	Scott Yocum
Applicant Phone	(814) 2	34-4645	Facility Phone	(814) 231-8200
Client ID	285677	, -	Site ID	493660
Ch 94 Load Status	Not Ov	erloaded	Municipality	Union Township
Connection Status	No Lim	itations	County	Centre
Date Application Received		June 20, 2022	EPA Waived?	Yes
Date Application Acce	pted	July 1, 2022	If No, Reason	
Purpose of Application	1	Renewal of an existing NPDES	permit for the discharge of	treated sewage.

#### **Public Participation**

DEP will publish notice of the receipt of the NPDES permit application and a tentative decision to issue the individual NPDES permit in the *Pennsylvania Bulletin* in accordance with 25 Pa. Code § 92a.82. Upon publication in the *Pennsylvania Bulletin*, DEP will accept written comments from interested persons for a 30-day period (which may be extended for one additional 15-day period at DEP's discretion), which will be considered in making a final decision on the application. Any person may request or petition for a public hearing with respect to the application. A public hearing may be held if DEP determines that there is significant public interest in holding a hearing. If a hearing is held, notice of the hearing will be published in the *Pennsylvania Bulletin* at least 30 days prior to the hearing and in at least one newspaper of general circulation within the geographical area of the discharge.

Approve	Deny	Signatures	Date
Х		Derek S. Garner	May 8, 2023
		Derek S. Garner / Project Manager	
Х		Nícholas W. Hartranft  Nicholas W. Hartranft, P.E. / Environmental Engineer Manager	May 9, 2023

Dis	scharge, Receiving Wate	ers and Water Supply Informat	ion
Outfall No. 001		Design Flow (MGD)	0.015
Latitude 40° 53' 59.77"	<u> </u>	Longitude	-77º 52' 55.16"
Quad Name Bear Knob		Quad Code	1122
Wastewater Description: S	Sewage Effluent		
,	-		
Receiving Waters Bald Eag	gle Creek	Stream Code	22412
NHD Com ID <u>6717927</u>	72	RMI	35.3
Drainage Area		Yield (cfs/mi²)	0.438
Q <sub>7-10</sub> Flow (cfs) 33.6		Q <sub>7-10</sub> Basis	Streamgage No. 01547200
Elevation (ft) 775		Slope (ft/ft)	<u>n/a</u>
Watershed No. 9-C		Chapter 93 Class.	TSF
Existing Use <u>n/a</u>		Existing Use Qualifier	n/a
Exceptions to Use <u>n/a</u>		Exceptions to Criteria	n/a
Assessment Status A	Attaining Use(s)		
Cause(s) of Impairment	n/a		
Source(s) of Impairment	n/a		
TMDL Status n	n/a	Name <u>n/a</u>	
Nearest Downstream Public V	Nater Supply Intake	Pennsylvania American Water	r Company
PWS Waters West Brand	ch Susquehanna River	_ Flow at Intake (cfs)	741.48
PWS RMI <u>10.64</u>		Distance from Outfall (mi)	91.52

## **Treatment Facility Summary**

Treatment Facility Name: Eagle Creek LLC Wastewater Treatment Plant

Construction and operation of the facility is covered under Water Quality Management (WQM) Permit No. 1401402, issued May 2, 2001. The permit allows for a phased expansion of the facility to accommodate build-out of the serviced mobile home park. Phase I represents build-out of the mobile home park from initial development through the addition of 67 units. Phase II represents build-out of the mobile home park from 68 to 104 units proposed in the approved Act 537 Sewage Facilities Plan. Phase I is served by the construction of a 15,000 GPD treatment plant. The permit requires treatment units for an additional 15,000 GPD to be constructed prior to the start of Phase II. As of the date of this fact sheet there has been no discussion regarding additional treatment units or Phase II of the mobile home park.

WQM Permit No. 1401402 was amended on November 15, 2022 to approve installation and operation of a sodium bisulfite dechlorination system.

Existing treatment at the facility consists of:

- Aerated equalization tank
- Cromaglass CA-150 Unit
- Erosion Chlorinator
- Chlorine Contact Tank

Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Secondary	Extended Aeration	Hypochlorite	0.015
Hydraulic Capacity	Organic Capacity	Local Otatus	Discolida Trastruore	Biosolids
(MGD)	(lbs/day)	Load Status	Biosolids Treatment	Use/Disposal
0.015	38	Not Overloaded	Aerobic Digestion	Other WWTP

## **Compliance History**

The following violations occurred during the existing permit's term:

Monitoring Period Begin Date	Monitoring Period End Date	Noncompliance Description	Noncompliance Category	Parameter	Sample Value	Violation Condition	Permit Value	Units	SBC
5/1/2019	5/31/2019	Sample collection less frequent than required	Other Violations	CBOD5					
5/1/2019	5/31/2019	Sample collection less frequent than required	Other Violations	Fecal Coliform					
5/1/2019	5/31/2019	Sample collection less frequent than required	Other Violations	Total Suspended Solids					
5/1/2019	5/31/2019	Violation of permit condition	Effluent	Fecal Coliform	14136	>	1000	CFU/100 ml	IMAX
5/1/2019	5/31/2019	Violation of permit condition	Effluent	Fecal Coliform	14136	>	200	CFU/100 ml	Geometric Mean
9/1/2019	9/30/2019	Late DMR Submission Late DMR Submission	Other Violations Other Violations						
12/1/2019	12/31/2019	Sample collection less frequent than required	Other Violations						
3/1/2020	3/31/2020	Late DMR Submission	Other Violations						
6/1/2020	6/30/2020	Violation of permit condition	Effluent	Fecal Coliform	1102	>	1000	CFU/100 ml	IMAX
8/1/2020	8/31/2020	Late DMR Submission	Other Violations						
1/1/2021	1/31/2021	Late DMR Submission	Other Violations						
4/1/2021	4/30/2021	Late DMR Submission	Other Violations						
5/1/2021	5/31/2021	Late DMR Submission	Other Violations						
9/1/2022	9/30/2022	Violation of permit condition	Effluent	Fecal Coliform	2419.6	>	1000	CFU/100 ml	IMAX
9/1/2022	9/30/2022	Violation of permit condition	Effluent	Fecal Coliform	2420	>	200	CFU/100 ml	Geometric Mean
11/1/2022	11/30/2022	Late DMR Submission	Other Violations						
3/1/2023	3/31/2023	Late DMR Submission	Other Violations						

The Operations Section is aware of the abovementioned violations and has noted such in the most recent inspection reports.

The facility was most recently inspected by DEP on March 6, 2023. The inspection report indicates no impact was noted at the outfall.

	Development of Effluent Limitations						
Outfall No.	001	Design Flow (MGD) 0.015					
Latitude	40° 54' 0.50"	Longitude -77º 52' 55.51"					
Wastewater D	Description: Sewage Effluent						

#### **Technology-Based Limitations**

The following technology-based limitations apply, subject to water quality analysis and BPJ where applicable:

Pollutant	Limit (mg/l)	SBC	Federal Regulation	State Regulation
CROD	25	Average Monthly	133.102(a)(4)(i)	92a.47(a)(1)
CBOD₅	40	Average Weekly	133.102(a)(4)(ii)	92a.47(a)(2)
Total Suspended	30	Average Monthly	133.102(b)(1)	92a.47(a)(1)
Solids	45	Average Weekly	133.102(b)(2)	92a.47(a)(2)
pН	6.0 – 9.0 S.U.	Min – Max	133.102(c)	95.2(1)
Fecal Coliform (5/1 – 9/30)	200 / 100 ml	Geo Mean	-	92a.47(a)(4)
Fecal Coliform (5/1 – 9/30)	1,000 / 100 ml	IMAX	-	92a.47(a)(4)
Fecal Coliform (10/1 – 4/30)	2,000 / 100 ml	Geo Mean	-	92a.47(a)(5)
Fecal Coliform (10/1 – 4/30)	10,000 / 100 ml	IMAX	-	92a.47(a)(5)
Total Residual Chlorine	0.5	Average Monthly	-	92a.48(b)(2)

#### **Water Quality-Based Limitations**

DEP models in-stream conditions to determine if water quality-based effluent limitations (WQBELs) are appropriate. A model was created using WQM 7.0 v1.0b to determine if the existing limits for CBOD5, ammonia-N and dissolved oxygen are appropriate or if more stringent limits are necessary.

The water quality model WQM 7.0 v1.0b is used to determine the WQBELs for dissolved oxygen, CBOD5 and ammonia-n (NH3-N) based on a multiple-discharge analysis, if applicable. The model assumes complete and instantaneous mixing with the receiving surface water. The reach chosen to model the in-stream characteristics is appropriate as a recovery in dissolved oxygen levels is demonstrated. The modeling output is as follows:

	Discharge	Efflue	nt Limitation	S
Parameter	Conc. (mg/l)	30 Day Average (mg/l)	Maximum (mg/l)	Minimum (mg/l)
CBOD5	25	25	-	-
NH3-N	25	25	50	-
Dissolved Oxygen	3	-	-	3

The input concentration for CBOD5 is the technology-based concentration limit in the existing permit, and the input concentrations for ammonia-N and dissolved oxygen are the assumed default values for treated sewage. Based on the model output, the existing limits are protective of the receiving surface water.

An evaluation of the existing technology-based TRC limits indicates there are no water quality concerns.

All modeling input/output data is attached.

#### **Best Professional Judgment (BPJ) Limitations**

The existing permit contains a 2/month ammonia and daily dissolved oxygen reporting requirement help characterize the effluent. DEP recommends that these requirements remain in the permit.

#### NPDES Permit Fact Sheet Eagle Creek LLC WWTP

An annual reporting requirement for E. Coli is proposed per the 2017 Triennial Review of Water Quality Standards, published in the PA Bulletin on July 11, 2020.

#### **Chesapeake Bay Considerations**

Per the Wastewater Supplement to Phase 3 of Pennsylvania's Watershed Implementation Plan (WIP) the Eagle Creek LLC Wastewater Treatment Plant is considered a Phase 5 facility. The WIP requires all Phase 5 facilities to conduct, at a minimum, annual sampling for Total Nitrogen (TN) and Total Phosphorus (TP) if the facility has not completed two years' worth of voluntary nutrient monitoring already. The facility sampled for the nitrogen series and total phosphorus from September 2006 to February 2010.

Monitoring	Tota	al Nitrogen	Total	Phosphorus
Period	Mo Load (lbs)	Avg Mo Conc (mg/l)	Mo Load (lbs)	Avg Mo Conc (mg/l)
Jan-09	7.7	15.0	2.4	4.6
Feb-09	11.2	25.3	2.3	5.2
Mar-09	6.2	10.7	3.1	4.3
Apr-09	15.0	25.0	3.0	7.2
May-09	6.2	16.9	3.1	4.9
Jun-09	8.9	19.8	2.0	4.5
Jul-09	9.1	19.6	2.4	5.3
Aug-09	13.9	20.3	6.2	8.5
Sep-09	9.9	14.8	3.0	4.9
Oct-09	15.5	13.0	3.1	2.6
Nov-09	16.2	21.1	4.8	6.3
Dec-09	13.3	20.9	3.1	4.7
Jan-10	3.1	15.3	0.9	4.2
Feb-10	12.0	19.9	2.2	4.0
AVG	10.6	18.4	3.0	5.1

## **Anti-Backsliding**

No limits or monitoring requirements are proposed to be made less stringent. Anti-backsliding should not impact the permit.

## **Existing Effluent Limitations and Monitoring Requirements**

The existing effluent limitations and monitoring requirements are as follows:

## Outfall 001, Effective Period: Permit Effective Date through Permit Expiration Date.

		Effluent Limitations						quirements
Parameter	Mass Unit	s (lbs/day)		Concentrat	Minimum	Required		
Farameter	Average Monthly	Average Weekly	Minimum	Average Monthly	Maximum	Instant. Maximum	Measurement Frequency	Sample Type
Flow (MGD)	Report	XXX	XXX	XXX	XXX	XXX	1/week	Weir
pH (S.U.)	XXX	XXX	6.0	XXX	XXX	9.0	1/day	Grab
Dissolved Oxygen	XXX	XXX	Report	XXX	XXX	XXX	1/day	Grab
Total Residual Chlorine (TRC)	XXX	XXX	XXX	0.5	XXX	1.6	1/day	Grab
Carbonaceous Biochemical Oxygen Demand (CBOD5)	XXX	XXX	XXX	25	XXX	50	2/month	8-Hr Composite
Total Suspended Solids	XXX	XXX	XXX	30	XXX	60	2/month	8-Hr Composite
Fecal Coliform (CFU/100 ml) Oct 1 - Apr 30	XXX	XXX	XXX	2000 Geo Mean	XXX	10000	2/month	Grab
Fecal Coliform (CFU/100 ml) May 1 - Sep 30	XXX	XXX	XXX	200 Geo Mean	XXX	1000	2/month	Grab
Ammonia-Nitrogen	XXX	XXX	XXX	Report	XXX	XXX	1/month	8-Hr Composite

Compliance Sampling Location: Outfall 001

## **Proposed Effluent Limitations and Monitoring Requirements**

The limitations and monitoring requirements specified below are proposed for the draft permit, and reflect the most stringent limitations amongst technology, water quality and BPJ. Instantaneous Maximum (IMAX) limits are determined using multipliers of 2 (conventional pollutants) or 2.5 (toxic pollutants). Sample frequencies and types are derived from the "NPDES Permit Writer's Manual" (362-0400-001), SOPs and/or BPJ.

### Outfall 001, Effective Period: Permit Effective Date through Permit Expiration Date.

			Monitoring Re	quirements					
Parameter	Mass Units (lbs/day)			Concentrations (mg/L)				Required	
Parameter	Average Monthly	Average Weekly	Minimum	Average Monthly	Maximum	Instant. Maximum	Measurement Frequency	Sample Type	
Flow (MGD)	Report	XXX	XXX	XXX	XXX	XXX	1/week	Weir	
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/day	Grab	
DO	XXX	XXX	Report Inst Min	XXX	XXX	XXX	1/day	Grab	
TRC	XXX	XXX	XXX	0.5	XXX	1.6	1/day	Grab	
CBOD5	XXX	XXX	XXX	25	XXX	50	2/month	8-Hr Composite	
TSS	XXX	XXX	XXX	30	XXX	60	2/month	8-Hr Composite	
Fecal Coliform (No./100 ml) Oct 1 - Apr 30	XXX	XXX	XXX	2000 Geo Mean	XXX	10000	2/month	Grab	
Fecal Coliform (No./100 ml) May 1 - Sep 30	XXX	XXX	XXX	200 Geo Mean	XXX	1000	2/month	Grab	
E. Coli (No./100 ml)	XXX	XXX	XXX	XXX	XXX	Report	1/year	Grab	
Ammonia	XXX	XXX	XXX	Report	XXX	XXX	1/month	8-Hr Composite	

Compliance Sampling Location: Outfall 001

## **Input Data WQM 7.0**

			шр	ui Daic	2 VV Q (V)	7.0			
		Stream Code	Stream Name		RMI	Elevation (ft)	n Drainage Area (sq mi)	Witho	VS Apply drawal FC ngd)
		22412 BALD	EAGLE CREEK		35.30	775.	.00 76.80	0.00000	0.00
			Si	tream Dat	<b>a</b>				
Design Cond.	LFY	Trib Stream Flow Flow	Rch Rch Trav Velocity Time	WD Ratio	Rch Width	Rch Depth	<u>Tributary</u> Temp pH	<u>Strear</u> Temp	<u>m</u> pH
Cond.	(cfsm)	(cfs) (cfs)	(days) (fps)		(ft)	(ft)	(°C)	(°C)	
Q7-10 Q1-10 Q30-10	0.438	0.00 0.00 0.00 0.00 0.00 0.00	0.000 0.000	0.0	0.00	0.00	25.00 7	.00 0.00	0.00
		Discharge Data							
		Name	Permit Number	Disc	Permitted Disc Flow (mgd)	-	Di Reserve Ter Factor	mp pH	
		Eagle Creek LL	.C PA0228249	0.0150	0.0150	0.0150	0.000	25.00 7.00	
			Pa	arameter D	Data				
			Parameter Name		onc Co	onc Con	nc Coef		
	_			(m	g/L) (m	g/L) (mg/	/L) (1/days)		
		CBOD5		2	25.00	2.00	0.00 1.50		
		Dissolved	d Oxygen		3.00	8.24	0.00		
		NH3-N		2	25.00	0.00	0.00 0.70		

## **Input Data WQM 7.0**

		Strea Coo		Stre	eam Name		RMI	Eleva		Drainage Area (sq mi)	Slope (ft/ft)	PW Withd (mo	rawal	Apply FC
		224	412 BALD	EAGLE C	REEK		34.80	0 7	67.00	81.70	0.0000	00	0.00	<b>✓</b>
					St	ream Dat	a							
Design	LFY	Trib Flow	Stream Flow	Rch Trav Time	Rch Velocity	WD Ratio	Rch Width	Rch Depth	Tem	<u>Tributary</u> p pH	T	<u>Strean</u> emp	<u>n</u> pH	
Cond.	(cfsm)	(cfs)	(cfs)	(days)	(fps)		(ft)	(ft)	(°C)	)	(	°C)		
Q7-10 Q1-10 Q30-10	0.438	0.00 0.00 0.00	0.00	0.000 0.000 0.000	0.000 0.000 0.000	0.0	0.00	0.00	2	5.00 7.	00	0.00	0.00	
					Di	scharge [	Data							
			Name	Per	mit Number	Disc	Permitte Disc Flow (mgd)	d Design Disc Flow (mgd)	Res Fa	Dis erve Ter ctor (°C	np	Disc pH		
						0.0000	0.000	0.000	00 (	0.000	25.00	7.00		
					Pa	rameter [	Data							
			I	Parameter	· Name		onc C	onc (	ream Conc mg/L)	Fate Coef (1/days)				
	_		CBOD5				25.00	2.00	0.00	1.50		<u> </u>		
			Dissolved	Oxygen			3.00	8.24	0.00	0.00				
			NH3-N				25.00	0.00	0.00	0.70				

# **WQM 7.0 Hydrodynamic Outputs**

SWP Basin

Stream Code

Stream Name

09C

22412

BALD EAGLE CREEK

RMI	Stream Flow	PWS With	Net Stream Flow	Disc Analysis Flow	Reach Slope	Depth	Width	W/D Ratio	Velocity	Reach Trav Time	Analysis Temp	Analysis pH
	(cfs)	(cfs)	(cfs)	(cfs)	(ft/ft)	(ft)	(ft)		(fps)	(days)	(°C)	
Q7-1	0 Flow											
35.300	33.64	0.00	33.64	.0232	0.00303	.852	71.11	83.48	0.56	0.055	25.00	7.00
Q1-1	0 Flow											
35.300	31.96	0.00	31.96	.0232	0.00303	NA	NA	NA	0.54	0.057	25.00	7.00
Q30-	10 Flow											
35.300	39.69	0.00	39.69	.0232	0.00303	NA	NA	NA	0.61	0.050	25.00	7.00

# WQM 7.0 Modeling Specifications

Parameters	Both	Use Inputted Q1-10 and Q30-10 Flows	<b>✓</b>
WLA Method	EMPR	Use Inputted W/D Ratio	
Q1-10/Q7-10 Ratio	0.95	Use Inputted Reach Travel Times	
Q30-10/Q7-10 Ratio	1.18	Temperature Adjust Kr	<b>✓</b>
D.O. Saturation	90.00%	Use Balanced Technology	<b>✓</b>
D.O. Goal	5		

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# WQM 7.0 Wasteload Allocations

 SWP Basin
 Stream Code

 09C
 22412

Stream Name

BALD EAGLE CREEK

RMI	Discharge Name	Baseline Criterion (mg/L)	Baseline WLA (mg/L)	Multiple Criterio (mg/L	n V	ultiple VLA ng/L)	Critical Reach	Percent Reductio	
35.30	00 Eagle Creek LLC	11.07	50	11.	07	50	0	0	_
IH3-N	Chronic Allocation	ons							
RMI	Discharge Name	Baseline Criterion (mg/L)	Baseline WLA (mg/L)	Multiple Criterion (mg/L)	Mult W (mg	LA	Critical Reach	Percent Reduction	
35.30	00 Eagle Creek LLC	1.37	25	1.	37	25	0	0	_
issolve	ed Oxygen Alloca	ations							
		<u>C</u>	BOD5	NH3	<u>3-N</u>	Dissolve	ed Oxygen	Critical	Percent
		e Baselir	e Multiple	Baseline	Multiple	Baseline	Multiple	Reach	Reductio
RMI	Discharge Nam	(mg/L)		(mg/L)	(mg/L)	(mg/L)	(mg/L)		

# WQM 7.0 D.O.Simulation

SWP BasinStream CodeStream Name09C22412BALD EAGLE CREEK

1					
<u>RMI</u>	Total Discharge	Flow (mgd	<u>) Ana</u>	lysis Temperature (°C)	Analysis pH
35.300	0.015			25.000	7.000
Reach Width (ft)	Reach De	pth (ft)		Reach WDRatio	Reach Velocity (fps)
71.115	0.852	2		83.477	0.556
Reach CBOD5 (mg/L)	Reach Kc (	1/days)	<u>F</u>	Reach NH3-N (mg/L)	Reach Kn (1/days)
2.02	0.012	2		0.02	1.029
Reach DO (mg/L)	Reach Kr (	1/days)		Kr Equation	Reach DO Goal (mg/L)
8.239	8.843	3		Tsivoglou	5
Reach Travel Time (days)		Subreach	Results		
0.055	TravTime (days)	CBOD5 (mg/L)	NH3-N (mg/L)	D.O. (mg/L)	
	0.005	2.02	0.02	7.54	
	0.011	2.02	0.02	7.54	
	0.016	2.02	0.02	7.54	
	0.022	2.02	0.02	7.54	
	0.027	2.02	0.02	7.54	
	0.033	2.01	0.02	7.54	
	0.038	2.01	0.02	7.54	
	0.044	2.01	0.02	7.54	
	0.049	2.01	0.02	7.54	
	0.055	2.01	0.02	7.54	

# **WQM 7.0 Effluent Limits**

SWP Basin	Stream Code	Stream Name
09C	22412	BALD EAGLE CREEK

RMI	Name	Permit Number	Disc Flow (mgd)	Parameter	Effl. Limit 30-day Ave. (mg/L)	Effl. Limit Maximum (mg/L)	Effl. Limit Minimum (mg/L)
35.300	Eagle Creek LLC	PA0228249	0.015	CBOD5	25		
				NH3-N	25	50	
				Dissolved Oxygen			3

1A	В	С	D	Е	F	G
2	<b>TRC EVALU</b>	ATION				
3			B4:B8 and E4:E7			
4		= Q stream (	•		= CV Daily	
5		= Q dischar			= CV Hourly	
6		= no. sample			= AFC_Partial M	
/	0.3 = Chlorine Demand of Stream				= CFC_Partial M	
٥ م			emand of Discharge			Compliance Time (min)
9		= BAT/BPJ V	of Safety (FOS)		= CFC_Criteria ( =Decay Coeffici	Compliance Time (min)
10	Source	Reference	AFC Calculations	U	Reference	CFC Calculations
11	TRC	1.3.2.iii	WLA afc =	461 919	1.3.2.iii	WLA cfc = 14.421
	PENTOXSD TRO		LTAMULT afc =		5.1c	LTAMULT cfc = 0.581
13			LTA_afc=		5.1d	LTA_cfc = 8.384
14						
15	Source		Effluent	Limit Cald	ulations	
-	PENTOXSD TRO			L MULT =		
17	PENTOXSD TRO	5.1g	AVG MON LIMI	,		BAT/BPJ
18			INST MAX LIMI	I (mg/I) =	1.635	
	WLA afc	(.019/e(-k*A	.FC_tc)) + [(AFC_Yc*G	ls*.019/Q	d*e(-k*AFC_tc))	•
		+ Xd + (Al	FC_Yc*Qs*Xs/Qd)]*(1-F	OS/100)		
	LTAMULT afc		I(cvh^2+1))-2.326*LN(	cvh^2+1)/	0.5)	
	LTA_afc	wla_afc*LTA	MULT_afc			
	WLA_cfc	/ 011/a/_b*0	FC_tc) + [(CFC_Yc*Q:	* 011/04	*e(-k*CEC +a) \	
	WEA_GIG		FC_Yc*Qs*Xs/Qd)]*(1-F		e(-k ofo_tc) )	•
	LTAMULT_cfc	•	(cvd^2/no_samples+1)	•	N(cvd^2/no_samı	oles+1)^0.5)
	LTA_cfc wla_cfc*LTAMULT_cfc				· – •	•
	AML MULT	•	N((cvd^2/no_samples		•	_samples+1))
	AVG MON LIMIT	•	PJ,MIN(LTA_afc,LTA_ct	•	•	
	INST MAX LIMIT	i.o"((av_moi	n_limit/AML_MULT)/LT/	AMULI_A1	C)	