



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Washington, D.C. 20460

Form Approved
OMB No. 2040-0003
Approval Expires 7-31-85

NPDES Compliance Inspection Report

Section A: National Data System Coding

Transaction Code			NPDES											yr/mo/day				Inspec. Type	Inspector		Fac Type							
1	N	2	5	3	A	R	0	0	2	2	0	6	3	11	12	0	7	0	2	0	7	17	18	C	19	S	20	2
Remarks																												
A F I N 7 2 - 0 0 0 0 3 W a s h i n g t o n C o																												
Inspection Work Days						Facility Evaluation Rating						BI		QA		-----Reserved-----												
67						70						71		72		73 74 75 80												

Section B: Facility Data

Name and Location of Facility Inspected (For industrial users discharging to POTW, also include POTW name and NPDES permit number) City of Springdale POTW – located at 2910 Silent Grove Road in Springdale, AR	Entry Time /Date 0845 on 2-7-07	Permit Effective Date 4-1-04
	Exit Time/Date 1600 on 2-7-07	Permit Expiration Date 3-31-09

Name(s) of On-Site Representative(s)/Title(s)/Phone and Fax Number(s) Harold Hull - Superintendent / 479-756-3657 Jennifer Enos – Pretreatment Manager / 479- 756-3657	Other Facility Data
Name, Address of Responsible Official/Title/Phone and Fax Rene Langston - Executive Director / 479-756-5751 City of Springdale P.O. Box 769 Springdale, AR 72765	Contacted Yes _____ No <input checked="" type="checkbox"/>

Section C: Areas Evaluated During Inspection (S = Satisfactory, M = Marginal, U = Unsatisfactory, N = Not Evaluated)

S	Permit	M	Flow Measurement	M	Operations & Maintenance	S	Sampling
M	Records/Reports	M	Self-Monitoring Program	S	Sludge Handling/Disposal	N	Pollution Prevention
S	Facility Site Review	S	Compliance Schedules	N	Pretreatment	N	Multimedia
S	Effluent/Receiving Waters	S	Laboratory	M	Storm Water	N	Other:

Section D: Summary of Findings/Comments (Attach additional sheets if necessary)

An SSO inspection and an Industrial Storm Water Inspection were performed in conjunction with this CEI. See the SSO and IU SW inspection dated 2-7-07 for details.

Section B(4) - Records and schedules for routine and preventative maintenance of the pump stations were lacking and are in need of updating.

Section C(9&10) - The old final clarifiers are being used as emergency water holding basins when the EQ basins are full of wastewater. The wastewater in the old clarifiers is then routed to chlorination and discharged through Outfall 001. This is considered a bypass of secondary treatment and is not allowed. These periodic bypasses are not reported as required. A bypass from the old clarifiers occurred 11/30/06.

Section E(4) - The final effluent and influent flow meters have not been calibrated in the past year.

Section F - The annual calibration of the laboratory thermometers has not been performed since 2005.

Name(s) and Signature(s) of Inspector(s) Eric M. Fleming /	Agency/Office/Telephone/Fax ADEQ / Little Rock / (501) - 682 - 0659	Date 2-7-07
John Fazio /	ADEQ / Fayetteville / (501) - 837 - 2067	2-7-07
Signature of Management QA Reviewer	Agency/Office/Phone and Fax Numbers	Date

SECTION A - PERMIT VERIFICATION

PERMIT SATISFACTORILY ADDRESSES OBSERVATIONS S M U NA (FURTHER EXPLANATION ATTACHED no)
 DETAILS:

1. CORRECT NAME AND MAILING ADDRESS OF PERMITTEE Y N NA

2. NOTIFICATION GIVEN TO EPA/STATE OF NEW DIFFERENT OR INCREASED DISCHARGES Y N NA

3. NUMBER AND LOCATION OF DISCHARGE POINTS AS DESCRIBED IN PERMIT Y N NA

4. ALL DISCHARGES ARE PERMITTED Y N NA

SECTION B - RECORDKEEPING AND REPORTING EVALUATION

RECORDS AND REPORTS MAINTAINED AS REQUIRED BY PERMIT. S M U NA (FURTHER EXPLANATION ATTACHED yes)
 DETAILS:

1. ANALYTICAL RESULTS CONSISTENT WITH DATA REPORTED ON DMRs. Y N NA

2. SAMPLING AND ANALYSES DATA ADEQUATE AND INCLUDE. S M U NA

a) DATES, TIME(S) AND LOCATION(S) OF SAMPLING Y N NA

b) NAME OF INDIVIDUAL PERFORMING SAMPLING Y N NA

c) ANALYTICAL METHODS AND TECHNIQUES. Y N NA

d) RESULTS OF ANALYSES AND CALIBRATIONS. Y N NA

e) DATES AND TIMES OF ANALYSES. Y N NA

f) NAME OF PERSON(S) PERFORMING ANALYSES. Y N NA

3. LABORATORY EQUIPMENT CALIBRATION AND MAINTENANCE RECORDS ADEQUATE. S M U NA

4. PLANT RECORDS INCLUDE SCHEDULES, DATES OF EQUIPMENT MAINTENANCE AND REPAIR. S M U NA

5. EFFLUENT LOADINGS CALCULATED USING DAILY EFFLUENT FLOW AND DAILY ANALYTICAL DATA. Y N NA

SECTION C - OPERATIONS AND MAINTENANCE

TREATMENT FACILITY PROPERLY OPERATED AND MAINTAINED. S M U NA (FURTHER EXPLANATION ATTACHED yes)
 DETAILS:

1. TREATMENT UNITS PROPERLY OPERATED. (Primary clarifiers are not in service) S M U NA

2. TREATMENT UNITS PROPERLY MAINTAINED. S M U NA

3. STANDBY POWER OR OTHER EQUIVALENT PROVIDED. S M U NA

4. ADEQUATE ALARM SYSTEM FOR POWER OR EQUIPMENT FAILURES AVAILABLE. S M U NA

5. ALL NEEDED TREATMENT UNITS IN SERVICE. S M U NA

6. ADEQUATE NUMBER OF QUALIFIED OPERATORS PROVIDED. (2 operators are not yet licensed) S M U NA

7. SPARE PARTS AND SUPPLIES INVENTORY MAINTAINED. S M U NA

8. OPERATION AND MAINTENANCE MANUAL AVAILABLE. Y N NA

STANDARD OPERATING PROCEDURES AND SCHEDULES ESTABLISHED. Y N NA

PROCEDURES FOR EMERGENCY TREATMENT CONTROL ESTABLISHED. Y N NA

SECTION C - OPERATIONS AND MAINTENANCE (CONT'D)

9. HAVE BYPASSES OCCURRED AT THE PLANT IN THE LAST YEAR? Y N NA
 IF SO, HAS THE REGULATORY AGENCY BEEN NOTIFIED? Y N NA
 HAS CORRECTIVE ACTION BEEN TAKEN TO PREVENT ADDITIONAL BYPASSES? Y N NA
10. HAVE ANY HYDRAULIC OVERLOADS OCCURRED AT THE TREATMENT PLANT? Y N NA
 IF SO, DID PERMIT VIOLATIONS OCCUR AS A RESULT? Y N NA

SECTION D - SAMPLING

PERMITTEE SAMPLING MEETS PERMIT REQUIREMENTS. S M U NA (FURTHER EXPLANATION ATTACHED no).
 DETAILS:

1. SAMPLES TAKEN AT SITE(S) SPECIFIED IN PERMIT. Y N NA
2. LOCATIONS ADEQUATE FOR REPRESENTATIVE SAMPLES. Y N NA
3. FLOW PROPORTIONED SAMPLES OBTAINED WHEN REQUIRED BY PERMIT. Y N NA
4. SAMPLING AND ANALYSES COMPLETED ON PARAMETERS SPECIFIED IN PERMIT. Y N NA
5. SAMPLING AND ANALYSES PERFORMED AT FREQUENCY SPECIFIED IN PERMIT. Y N NA
6. SAMPLE COLLECTION PROCEDURES ADEQUATE Y N NA
- a) SAMPLES REFRIGERATED DURING COMPOSITING. Y N NA
- b) PROPER PRESERVATION TECHNIQUES USED. Y N NA
- c) CONTAINERS AND SAMPLE HOLDING TIMES CONFORM TO 40 CFR 136.3. Y N NA
7. IF MONITORING AND ANALYSES ARE PERFORMED MORE OFTEN THAN REQUIRED BY PERMIT, ARE THE RESULTS REPORTED IN PERMITTEE'S SELF-MONITORING REPORT? Y N NA

SECTION E - FLOW MEASUREMENT

PERMITTEE FLOW MEASUREMENT MEETS PERMIT REQUIREMENTS. S M U NA (FURTHER EXPLANATION ATTACHED yes).
 DETAILS:

1. PRIMARY FLOW MEASUREMENT DEVICE PROPERLY INSTALLED AND MAINTAINED. Y N NA
 TYPE OF DEVICE 36 inch Parshall Flume
2. FLOW MEASURED AT EACH OUTFALL AS REQUIRED. Y N NA
3. SECONDARY INSTRUMENTS (TOTALIZERS, RECORDERS, ETC.) PROPERLY OPERATED AND MAINTAINED. Y N NA
4. CALIBRATION FREQUENCY ADEQUATE. (DATE OF LAST CALIBRATION 1/30/06 to 2/5/06) Y N NA
 RECORDS MAINTAINED OF CALIBRATION PROCEDURES. Y N NA
 CALIBRATION CHECKS DONE TO ASSURE CONTINUED COMPLIANCE. Weekly Y N NA
5. FLOW ENTERING DEVICE WELL DISTRIBUTED ACROSS THE CHANNEL AND FREE OF TURBULENCE. Y N NA
6. HEAD MEASURED AT PROPER LOCATION. Y N NA
7. FLOW MEASUREMENT EQUIPMENT ADEQUATE TO HANDLE EXPECTED RANGE OF FLOW RATES. Y N NA

SECTION F - LABORATORY

PERMITTEE LABORATORY PROCEDURES MEET PERMIT REQUIREMENTS S M U NA (FURTHER EXPLANATION ATTACHED yes).
 DETAILS:

- The thermometers in the BOD incubator and in the fecal bath are in increments of whole numbers, not tenths as is required.
1. EPA APPROVED ANALYTICAL PROCEDURES USED (40 CFR 136.3 FOR LIQUIDS, 503.8(b) FOR SLUDGES) Y N NA

SECTION F - LABORATORY (CONT'D)

2. IF ALTERNATIVE ANALYTICAL PROCEDURES ARE USED, PROPER APPROVAL HAS BEEN OBTAINED Y N NA3. SATISFACTORY CALIBRATION AND MAINTENANCE OF INSTRUMENTS AND EQUIPMENT. S M U NA4. QUALITY CONTROL PROCEDURES ADEQUATE. S M U NA5. DUPLICATE SAMPLES ARE ANALYZED. ≥ 10 % OF THE TIME. Y N NA6. SPIKED SAMPLES ARE ANALYZED. ≥ 10 % OF THE TIME. Y N NA7. COMMERCIAL LABORATORY USED. Y N NALAB NAME American InterplexLAB ADDRESS 8600 Kanis Rd., Little Rock, AR 72204PARAMETERS PERFORMED Table II and III (Organics and Metals), and BiomonitoringSECTION G - EFFLUENT/RECEIVING WATERS OBSERVATION S M U NA (FURTHER EXPLANATION ATTACHED yes).

OUTFALL NO.	OIL SHEEN	GREASE	TURBIDITY	VISIBLE FOAM	FLOAT SOL.	COLOR	OTHER
001	none	none	none	none	none	clear	

RECEIVING WATER OBSERVATIONS Appeared normal at this time. No detrimental effects caused by the POTW discharge were noted.

SECTION H - SLUDGE DISPOSAL

SLUDGE DISPOSAL MEETS PERMIT REQUIREMENTS. S M U NA (FURTHER EXPLANATION ATTACHED no).

DETAILS:

Sludge is land filled.1. SLUDGE MANAGEMENT ADEQUATE TO MAINTAIN EFFLUENT QUALITY. S M U NA2. SLUDGE RECORDS MAINTAINED AS REQUIRED BY 40 CFR 503. S M U NA

3. FOR LAND APPLIED SLUDGE, TYPE OF LAND APPLIED TO: _____ (e.g., FOREST, AGRICULTURAL, PUBLIC CONTACT SITE)

SECTION I - SAMPLING INSPECTION PROCEDURES (FURTHER EXPLANATION ATTACHED no).1. SAMPLES OBTAINED THIS INSPECTION. Y N NA

2. TYPE OF SAMPLE OBTAINED

GRAB _____ COMPOSITE SAMPLE _____ METHOD _____ FREQUENCY _____

3. SAMPLES PRESERVED. Y N NA4. FLOW PROPORTIONED SAMPLES OBTAINED. Y N NA5. SAMPLE OBTAINED FROM FACILITY'S SAMPLING DEVICE. Y N NA6. SAMPLE REPRESENTATIVE OF VOLUME AND MATURE OF DISCHARGE. Y N NA7. SAMPLE SPLIT WITH PERMITTEE. Y N NA8. CHAIN-OF-CUSTODY PROCEDURES EMPLOYED. Y N NA9. SAMPLES COLLECTED IN ACCORDANCE WITH PERMIT. Y N NA



This photo shows the **Johnson pump station**, located in the City of Johnson, on Main Street. This pump station has a standby generator located on site and is on a SCADA alarm system. There are (4) 100 HP, 1250 gpm pumps at this site. There is a large EQ basin at the pump station to handle high flows into the pump station. The EQ basin was empty at the time of this inspection. It was noted that screenings, from the cleaning of the rake screen, were left on the ground where the rake was cleaned. See the photo below. The bottom photo shows the EQ basin on site.





This photo shows the **Brush Creek pump station**, located on 40th Street. This pump station has (2) 47 HP, 520 gpm pumps. The pump station is set up for (3) pumps. This pump station has a standby generator located on site and is on a SCADA alarm system.



This photo is of the **Har-Ber pump station**, located on Ireland Street in the Har-Ber Meadows subdivision. The pump station is located within the "shell" of this home. This pump station has (2) 47 HP, 350 gpm pumps. The pump station is set up for (3) pumps, the 3rd being 88 HP, 700gpm. This pump station has a standby generator located on site and is on a SCADA alarm system.

DMR Calculation Check

Reporting Period: from 06 11 01 to 06 11 30
 year month day year month day

Parameter Checked: Flow in MGD

	<u>Quantity</u>	
	<u>Monthly Average</u>	<u>Daily Maximum</u>
Reported Value:	12.3	28.4
Calculated Value:	12.3	28.4
Permit Value:	REPORT	REPORT

If calculated value does not equal reported value, explain:

Same

=====

FLOW CALCULATION CHECK
 was not performed due to the staff gauge being covered with algae and unreadable.





This photo shows one of the two old final clarifiers that is used as an EQ basin for excessive storm water.



ARKANSAS
Department of Environmental Quality

February 9, 2007

Rene Langston
City of Springdale
P.O. Box 769
Springdale, AR 72765

Re: AFIN: No. 72-00003

NPDES Permit No. AR0022063

Dear Mr. Langston:

On February 7, 2007, Inspector John Fazio and I performed a routine permit compliance inspection, a SSO inspection, and an Industrial Storm Water Inspection of your facility in accordance with the provisions of the federal Clean Water Act, the Arkansas Water and Air Pollution Control Act and the regulations promulgated thereunder. This inspection revealed the following violations:

Sanitary Sewer Overflow Inspection (SSO)

1. Screenings were noted on the ground at the Johnson pump station. This was apparently caused when a recent screen cleaning resulted in solids being spilled onto the ground and being inadequately cleaned up.
2. Records and schedules for routine and preventative maintenance were lacking and are in need of updating.

Wastewater Treatment Plant

1. The final effluent and influent flow meters have not been calibrated in the past year.
2. The annual calibration of the laboratory thermometers has not been performed since 2005.
3. The old final clarifiers are being used as emergency wastewater holding basins when the EQ basins are full of wastewater. The wastewater in the old clarifiers is then routed to chlorination and discharged though Outfall 001. This is considered a bypass of secondary treatment and is not allowed. These periodic bypasses are not reported as required. A bypass from the old clarifiers occurred 11/30/06. A review of your most recent Permit Application and your most recent Permit make no mention that such bypasses occur, or are allowed.
4. The thermometers in the BOD incubator and in the fecal bath are in increments of whole numbers, not tenths as is required.

AR0022063

2-12-07

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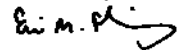
Industrial Storm Water

1. There were no records on-site to document that the Comprehensive Site Compliance Evaluation had been performed as required by Part III.A.4.f the permit.
2. There were no records on-site to document that inspections had been performed at intervals specified in the SWPPP as required by Part III.A.4.c.iv of the permit.

The aforementioned violations require your immediate attention. Please submit a written response to these findings to the NPDES Enforcement Section of this Department when the violations have been corrected. This response should contain documentation describing the course of action taken to correct each item noted. This corrective action should be completed as soon as possible and the written response is due by March 5, 2007.

If you have any questions concerning this inspection, please feel free to contact me at (501) 682-0659.

Sincerely,



Eric M. Fleming

Inspector

Water Division

cc: NPDES Branch



Springdale Water Utilities

526 Oak Avenue P.O. Box 769 Springdale, Arkansas 72765-0769 (479) 751-5751

019655

February 28, 2007

Mr. Eric M. Fleming, Inspector
Water Division
Arkansas Department of Environmental Quality
Post Office Box 8913
Little Rock, Arkansas 72219-8913

Re: City of Springdale, Arkansas
NPDES Permit No. AR0022063
ARR00C76

Dear Mr. Fleming:

Please accept this written response to your letter dated February 9, 2007, concerning the compliance inspection performed February 7, 2007.

Sanitary Sewer Overflow Inspection (SSO)

Item No. 1 *"Screenings were noted on the ground at the Johnson pump stations. This was apparently caused when a recent screen cleaning resulted in solids being spilled onto the ground and being inadequately cleaned up."*

Response: Screenings inadvertently left on the ground when cleaning the screen at the Johnson Lift Station have been removed and disposed in a proper manner.

Item No. 2 *"Records and schedules for routine and preventative maintenance were lacking and are in need of updating."*

Response: A new department supervisor was recently appointed to oversee operations at all pumping and storage facilities located in the city's water distribution and sanitary sewer collection system. He is currently working to implement a new program that will record daily operations as well as maintenance and repairs performed at each pumping and storage facility.

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Mr. Eric M. Fleming
February 28, 2007

Wastewater Treatment Plant

Item No. 1 *“The final effluent and influent flow meters have not been calibrated in the past year.”*

Response: The effluent meter was a new installation in 2006. Calibrations were due but had not yet been performed at the time of the inspection. The influent flow meter has not been calibrated in the past nor has its calibration been required. Quarterly Table III and annual Table II samples collected from the influent are manually flow-proportioned and composited using effluent flow measurements.

Both meters were calibrated by Bauman Instrument Company on February 26, 2007. Documentation is attached. Influent and effluent meters will, in the future, be calibrated at the same frequency.

Item No. 2 *“The annual calibration of the laboratory thermometers has not been performed since 2005.”*

Response: This oversight was identified during an in-house comprehensive quality control program review conducted in January 2007. The calibration was scheduled for and conducted on February 16, 2007. Results obtained were consistent with those obtained during the previous calibration. Annual calibration is now part of the laboratory's written maintenance schedule, to be conducted at the same time as annual balance calibration and certification.

Item No. 3 *“The old final clarifiers are being used as emergency wastewater holding basins when the EQ basins are full of wastewater. The wastewater in the old clarifiers is then routed to chlorination and discharged through Outfall 001. This is considered a bypass of secondary treatment and is not allowed. These periodic bypasses are not reported as required. A bypass from the old clarifiers occurred 11/30/06. A review of your most recent Permit Application and your most recent Permit make no mention that such bypasses occur, or are allowed.”*

Response: THERE WAS NO BYPASS FROM THE OLD CLAFIERS ON 11/30/06. Plant operational notes reflect the old clarifiers were filled, but there was no discharge over the weirs to the chlorine contact basin. All contents of the clarifiers were pumped back to the headworks for treatment. It has been standard practice since 1988, according

to interpreted, then existing EPA and DPC&E (ADEQ) policy, to channel excessive flows during extreme high-flow conditions to the old final clarifiers only after the equalization basins were filled. The current configuration was indicated in the city's NPDES permit application submitted August 22, 2002. It was also indicated in the application for a construction permit submitted that same year for the treatment plant expansion/upgrade which was recently completed. In addition to providing additional on-site storage, the clarifiers act as a safety net to prevent untreated overflows into the creek. This could easily happen if problems are encountered starting the emergency generator during an extended power outage as all flows received at the plant must be pumped up the hill after receiving primary treatment at the headworks. It has been several years since flows passed over the weirs at the old (extreme flow) clarifiers, and in those rare instances when it did, the effluent from Outfall 001 was found to be in full compliance with the numeric discharge limitations found in Part I of the permit. Samples were collected at two-hour intervals and flow proportioned.

Item No. 4 *“The thermometers in the BOD incubator and in the fecal bath are in increments of whole numbers, not tenths as is required.”*

Response: A new laboratory was included as a part of the most recent plant expansion and upgrade. In light of extremely low level (0.0002 µg/L vs. the current 0.2 µg/L) MQL proposed for mercury by USEPA Region VI in April of 2006, one of the decisions made was to eliminate as many sources of mercury as possible before moving into the new laboratory. The mercury barometer used for DO meter calibrations was replaced by a digital barometer. Mercury thermometers used in the laboratory were replaced; however, a substitute thermometer marked in tenths of a degree was not found. A source has now been identified, and replacement thermometers have been ordered.

Industrial Storm Water

Item No. 1 *“There were no records on-site to document that the Comprehensive Site Compliance Evaluation had been performed as required by Part III.A.4.f of the permit.”*

Response: The treatment facility was under a Construction Storm Water Permit No. ARR10C629, as well as under a storm water permit during its most recent plant expansion and upgrade. Weekly inspections were being conducted by Mr. Bob Hayes, field inspector for the engineering firm of Burns & McDonnell, until his departure in

Page -4-
Mr. Eric M. Fleming
February 28, 2007

November of 2005. Plant personnel mistakenly thought that a comprehensive site compliance evaluation had been conducted as part of the construction completed in February of 2006.

A Comprehensive Site Compliance Evaluation inspection and a report were completed on February 16, 2007. As observed during the routine permit compliance inspection by ADEQ, there has been no incidents of noncompliance since the last inspection due to the limited potential for such incidents to occur. Plant personnel have indicated the potential to seek certification of "no exposure," thereby eliminating the need for a storm water permit altogether. Until that time, all required written reports will be made and retained on-site as required by the permit.

Item No. 2 *"There were no records on-site to document that inspections had been performed at intervals specified in the SWPPP as required by Part III.A.4.civ of the permit."*

Response: Springdale Water Utilities' WWTF SWPPP specifies annual inspections. An annual inspection was conducted on February 16, 2007. This same inspection was used to comply with both the inspection portion of the Comprehensive Site Compliance Evaluation and the annual inspection as per Jennifer Harmon, Storm Water Division, ADEQ, with each being written up separately.

Additional Comments

In addition to the above responses, we would like to offer the following comments:

Item No. 1: *On page number five of the NPDES Compliance Inspection Report Evaluation Form, it is stated that "Flow calculation check was not performed due to the staff gauge being covered with algae and unreadable."*

Response: Please note that the staff gauge pictured on page number five is not used for weekly flow calculation checks. A portable gauge is carried to the flume and utilized, eliminating the problem of algae growth. This procedure can easily be demonstrated to the inspector as was offered during the inspection.

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February 28, 2007

*Item No. 2: On page number four, under Section G Effluent/Receiving Waters
Observation: The parameters oil sheen, grease, turbidity, visible foam, and floatable
solids are described as "none," and the color is "clear."*

Response: In view of the favorable description, we would respectfully question the appropriateness of the "marginal" rating given in the report.

We trust the corrective measures taken will adequately address any concerns identified in your compliance reports.

Rene Langston
Executive Director

Attachments

CC: ADEQ, NPDES Enforcement Section
Harold Hull
Jennifer Enos

CITY OF SPRINGDALE
WASTE WATER TREATMENT PLANT
INSTRUMENT CALIBRATION REPORT

DESCRIPTION:	INFLUENT FLOW METER	MANUFACTURER: Delta Controls Corp.
TAG NO:	FIT-153	MODEL NO.: 872FM-I-SC-IS
LOOP NUMBER:	153	SR NO.:
INSTALLATION AND MOUNTING:	FLUME	OTHER:
TERMINATION - WIRING	OK	
TERMINATION - TUBING	OK	

FUNCTIONS							
		RANGE	VALUE	UNITS	CONTROL ?		NO
INDICATE:	YES	Flow	0-70	MGD	ACTION:		N/A
	HMI	Distance			INPUT:	N/A	
RECORD:	YES	TREND:	0-70	MGD	OUTPUT:		N/A
	HMI				MODES:	N/A	
TRANSMIT/ CONVERT	YES	INPUT:	INTEGRAL SENSOR		SWITCH ?		NO
		OUTPUT:	4-20	mA	UNIT RANGE:		N/A
ISOLATE:	No	INPUT:	N/A		DIFFERENTIAL:		N/A
		OUTPUT:	N/A				
I/O MODULE:	NO	INPUT:	N/A		RESET:		N/A
		OUTPUT:	N/A				

ANALOG CALIBRATIONS

AS CALIBRATED
INSTRUMENT CONFIGURATION

PARA.	VALUE	PARA.	VALUE	PARA.	VALUE	PARA.	VALUE
D Units	Inches	Size	72"	CALPT2	99.99	Ke	n/a
V Units	Gal X 1M	Elem Typ	Parshall	CALD2	70.00	Blanking	2.50
T Units	Day	CALPT1	0.00	Kp	n/a	Filter	8.00
SR Height	44.80"	CALD1	0.00	Kh	n/a	LOE	0.00

READ VALUES

AS CALIBRATED (MGD)							
PT#	LEVEL (IN)	CHART	DISPLAY	%ERROR	HMI	%ERROR	
1	12.15"	15.82MGD	15.94MGD	0.70%	16.10 MGD	1.70%	

COMMENTS: Verified dimension flume floor to sensor. Measured water depth at current flow. Took display and HMI graphic reading at time of water measurement. Calculated %error for both local and HMI readings.
Meter withing acceptable % error no system adjustments made.

Bauman Instrument Corporation certifies that this equipment has been calibrated as indicated.

CERTIFIED: BAUMAN: *David Bauman*
918-254-2424
Bauman Instrument Corp.

DATE: 2/26/07

CITY OF SPRINGDALE
WASTE WATER TREATMENT PLANT
INSTRUMENT CALIBRATION REPORT

DESCRIPTION:	EFFLUENT FLUME	MANUFACTURER: <u>Delta Controls Corp.</u>
TAG NO:	FIT-660	MODEL NO.: <u>872FM-I-SC-IS</u>
LOOP NUMBER:	660	SR NO.:
INSTALLATION AND MOUNTING:	FLUME	OTHER: _____
TERMINATION - WIRING	OK	
TERMINATION - TUBING	OK	

FUNCTIONS

		RANGE	VALUE	UNITS	CONTROL ?	NO
INDICATE:	YES	Flow	0-50	MGD	ACTION:	N/A
	HMI	Distance		FEET	INPUT:	N/A
RECORD:	YES	TREND:	0-50	MGD	OUTPUT:	N/A
	HMI				MODES:	N/A
TRANSMIT/ CONVERT	YES	INPUT:	INTEGRAL SENSOR		SWITCH ?	NO
		OUTPUT:	4-20	mA	UNIT RANGE:	N/A
ISOLATE:	No	INPUT:	N/A		DIFFERENTIAL:	N/A
		OUTPUT:	N/A			
I/O MODULE:	NO	INPUT:	N/A		RESET:	N/A
		OUTPUT:	N/A			

ANALOG CALIBRATIONS

AS CALIBRATED

INSTRUMENT CONFIGURATION

PARA.	VALUE	PARA.	VALUE	PARA.	VALUE	PARA.	VAUE
D Units	Inches	Size	36"	CALPT2	100.00	Ke	na
V Units	Gal X 1M	Elem Typ	Parshall	CALD2	50.00	Blanking	12"
T Units	Day	CALPT1	0.00	Kp	na	Filter	8.00
SR Height	57.75"	CALD1	0.00	Kh	na	LOE	0.00

READ VALUES

AS CALIBRATED (MGD)

PT#	LEVEL (FT)	CHART	DISPLAY	%ERROR	HMI	%ERROR
1	18.88"	15.79MGD	15.72MGD	0.40%	15.97MGD	1.00%

COMMENTS: Verified dimension flume floor to sensor. Measured water depth at current flow.
Took display and HMI graphic reading at time of water measurement. Calculated %error for both local and HMI readings.
Meter withing acceptable % error no system adjustments made.

Bauman Instrument Corporation certifies that this equipment has been calibrated as indicated.

CERTIFIED; BAUMAN: *Daniel Bauman* DATE: 2/26/07
918-254-2424
Bauman Instrument Corp.