

### Appendix M. Initial Distribution System Evaluation Report



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IDSE Report for Sta	ndard Monitorin	g	Page 1 of 9
I. GENERAL INFORMATION			
A. PWS Information*		B. Date Submitted*	12/24/2008
PWSID: WA5336350 PWS Name: City of Issaq Mailing Address: P.O. Box 13 City: Issaquah Population Served:	uah 07 State: WA	Zip: <u>98027</u>	
System Type: (X)  X CWS  NTNCWS	Source Water Type: (X)  X Subpart H Ground	Buying / Selling Relati  X Consecutive Sy Wholesale Sys Neither	ystem
C. PWS Operations  Residual Disinfectant Type: (X  X Chlorine	() Chloramines	Other:	
Number of Disinfected Source Surface	es: GWUDI	2 Ground	3 Purchased
D. Contact Person*  Name: Gregory P. Marger Mana  Title: Water Mana  Phone #: (425)-837-34  E-mail: GregK@ci.iss	ger 470 Fax #:	(425)-837-3479	
II. STAGE 2 REQUIREMENTS*			
A. Number of Compliance Monitoring Sites	B. Schedule	C. Compliance Monit	toring Frequency
1 Existing Stage 1 2 Highest TTHM 1 Highest HAA5 4 Total	1 Schedule 1 Schedule 2 Schedule 3 Schedule 4	During peak his (1 monitoring p X Every 90 days	

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III.	MONITORING RESULTS*	
Α.	Did you deviate in any way from your approved standard X Yes monitoring plan?	No
	If YES, explain (attach additional pages if necessary):	
	Please see attachment.	
В.	Where were your TTHM and HAA5 samples analyzed?	
	In-House	
	Is your in-house laboratory certified?Yes	No
	Certified Laboratory X	
	Name of certified laboratory: Pace Analytical(formally Laucks)/Underwriter Labs/ Edge	
C.	What method(s) was used to analyze your TTHM and HAA5 samples?	
	TTHM HAA5	
	EPA 502.2 EPA 552.1	
	X EPA 524.2X EPA 552.2	
	EPA 551.1 EPA 552.3	
	SM 6251 B	

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III. MONITORING RESULTS (Continued)\*

D. IDSE Standard Monitoring Results - TTHM

Site ID	Data Type			TTHM (mg/L)	mg/L)			LRAA
Standard Monitoring	Sample Date	10/2/2007	12/5/2007	2/5/2008	4/7/2008	6/3/2008	8/5/2008	
Site #1	Sample Result	0.0189	0.0660	0.0088	0.0197	0.0257	0.0152	0.0257
Standard Monitoring	Sample Date	10/2/2007	12/5/2007	2/5/2008	4/7/2008	6/3/2008	8/5/2008	
Site #2	Sample Result	0 0666	0.0619	0.0367	0.0375	0.0425	0.0461	0.0486
Standard Monitoring	Sample Date	10/2/2007	12/5/2007	2/5/2008	4/7/2008	6/3/2008	8/5/2008	
Site #3	Sample Result	0.0664	0.0649	0.0366	0.0364	0.0425	0.0451	0.0487
Standard Monitoring	Sample Date	10/2/2007	12/5/2007	2/5/2008	4/7/2008	6/3/2008	8/5/2008	
Site #4	Sample Result	0.0015	0.0006	0.0000	0.0000	0.0006	0.0000	0.0005
Standard Monitoring	Sample Date	10/2/2007	12/5/2007	2/5/2008	4/7/2008	6/3/2008	8/5/2008	
Site #5	Sample Result	0.0708	0.0200	0.0418	0.0375	0.0340	0.0045	0.0348
Standard Monitoring	Sample Date	10/2/2007	12/5/2007	2/5/2008	4/7/2008	6/3/2008	8/5/2008	
Site #6	Sample Result	0.0645	0.0618	0.0377	0.0343	0.0416	0.0440	0.0473
Standard Monitoring	Sample Date	10/2/2008	12/5/2007	2/5/2008	4/7/2008	6/3/2008	8/5/2008	
Site #7	Sample Result	0.0583	0.0616	0.0313	0.0269	0.0330	0.0387	0.0416
Standard Monitoring	Sample Date	10/2/2007	12/85/07	2/5/2008	4/7/2008	6/3/2008	8/5/2008	
Site #8	Sample Result	0.0027	0.0000	0.0000	0.0000	0.0013	0.0000	0.0007

<sup>&</sup>lt;sup>1</sup>Verify that site IDs for IDSE standard monitoring sites match the site IDs in your Standard Monitoring Plan.

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III. MONITORING RESULTS (Continued)\*

E. IDSE Standard Monitoring Results - HAA5

Site ID <sup>1</sup>	Data Type			HAA5 (mg/L)	mg/L)			LRAA
Standard Monitoring	Sample Date	10/2/2007	12/5/2007	2/22/2008	4/7/2008	6/3/2008	8/5/2008	
Site #1	Sample Result	0.0274	0.0310	0.0254	0.0215	0.0304	0.0274	0.0272
Standard Monitoring	Sample Date	10/2/2007	12/5/2007	2/22/2008	4/7/2008	6/3/2008	8/5/2008	
Site #2	Sample Result	0.0179	0.0289	0.0253	0.0240	0.0108	0.0226	0.0216
Standard Monitoring	Sample Date	10/2/2007	12/5/2007	2/22/2008	4/7/2008	6/3/2008	8/5/2008	
Site #3	Sample Result	0.0194	0.0287	0.0265	0.0302	0.0129	0.0295	0.0245
Standard Monitoring	Sample Date	10/2/2007	12/5/2007	2/22/2008	4/7/2008	6/3/2008	8/5/2008	
Site #4	Sample Result	0.0000	0.0000	0.0000	0.0000	0.0000	0.0050	0.0008
Standard Monitoring	Sample Date	10/2/2007	12/5/2007	2/22/2008	4/7/2008	6/3/2008	8/5/2008	
Site #5	Sample Result	0.0181	0.0223	0.0230	0.0281	0.0219	0.0014	0.0191
Standard Monitoring	Sample Date	10/2/2007	12/5/2007	2/22/2008	4/7/2008	6/3/2008	8/5/2008	
Site #6	Sample Result	0.0249	0.0303	0.0250	0.0258	0.0149	0.0517	0.0288
Standard Monitoring	Sample Date	10/2/2007	12/5/2007	2/22/2008	4/7/2008	6/3/2008	8/5/2008	
Site #7	Sample Result	0.0268	0.0330	0.0300	0.0246	0.0231	0.0449	0.0304
Standard Monitoring	Sample Date	10/2/2007	12/5/2007	2/22/2008	4/7/2008	6/3/2008	8/5/2008	
Site #8	Sample Result	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

<sup>&</sup>lt;sup>1</sup>Verify that site IDs for IDSE standard monitoring sites match the site IDs in your Standard Monitoring Plan.

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III. MONITORING RESULTS (Continued)\*
F. Stage 1 DBPR Compliance Monitoring Results - TTHM

016	Data Type			LITTER (III)	iig/L)	LKAA
	Sample Date	12/5/2007	3/4/2008	6/3/2008	9/4/2008	
Stage 1 Site #1	Sample Result	0.0045	0.0018	0.0045	0.0067	0.0044
	Sample Date	12/5/2007	3/4/2008	6/3/2008	9/4/2008	
Stage I Site #2	Sample Result	0.0005	0.0006	0.0015	0.0024	0.0013
	Sample Date	12/5/2007	3/4/2008	6/3/2008	9/4/2008	
Stage I Site #3	Sample Result	0.0017	0.0000	0.0026	0.0056	0.0025
	Sample Date	12/5/2007	3/4/2008	6/3/2008	9/4/2008	
Stage 1 Site #4	Sample Result	0.0000	0.0000	0.0000	0.0000	0.0000
	Sample Date	12/5/2007	3/4/2008	6/3/2008	9/4/2008	
Sidge I Site#3	Sample Result	0.0000	0,0000	0.0000	0.0000	0,0000
	Sample Date	12/5/2007	3/4/2008	6/3/2008	9/4/2008	
Stage   Site #6	Sample Result	0.0019	0.0000	0.0015	0.0047	0.0020
	Sample Date	21/5/07	3/4/2008	6/3/2008	9/4/2008	
Stage I Site#7	Sample Result	0.0055	0.0022	0.0053	0.0074	0.005
	Sample Date	12/5/2007	3/4/2008	6/3/2008	9/4/2008	
Stage I Site #6	Sample Result	0.0018	0.0005	0.0017	0.0015	0.0014

## IDSE Report for Standard Monitoring III. MONITORING RESULTS (Continued)\* F. Stage 1 DBPR Compliance Monitoring Results - TTHM

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Site ID <sup>1</sup>	Data Type			TTHM (mg/L)	mg/L)		LRAA
201-10	Sample Date	12/5/2007	3/4/2008	6/3/2008	9/4/2008		
Stage   Site #9	Sample Result	0.0534	0.0329	0.0383	0.0548		0.0449
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Sample Date	12/5/2007	3/4/2008	6/3/2008	9/4/2008		
Stage 1 Site #10	Sample Result	0.0221	0.0095	0.0133	0.0218		0.0167
	Sample Date	12/5/2007	3/4/2008	6/3/2008	9/4/2008		
Stage I Site #II	Sample Result	0.0525	0.0307	0.0413	0.0063		0.0327
	Sample Date	12/5/2007	3/4/2008	6/3/2008	9/4/2008		
Stage 1 Site #12	Sample Result	0.0637	0.0153	0.0186	0.0364		0.0335
	Sample Date						
	Sample Result						#DIV/0!
	Sample Date						
	Sample Result						#DIV/0!
	Sample Date						
	Sample Result						#DIV/0!
	Sample Date						
							#J. 75

<sup>&</sup>lt;sup>1</sup>Verify that site IDs for IDSE standard monitoring sites match the site IDs in your Standard Monitoring Plan.

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III. MONITORING RESULTS (Continued)\*

G. Stage 1 DBPR Compliance Monitoring Results - HAA5

Site ID <sup>1</sup>	Data Type			HAA5 (mg/L)	ng/L)		LRAA
01,000 1 0:10 #1	Sample Date	12/5/2007	3/4/2008	6/3/2008	9/4/2008		
Stage I site#1	Sample Result	0.000	0.0000	0.0012	0.0000		0.0003
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Sample Date	12/5/2007	3/4/2008	6/3/2008	9/4/2008		
Stage   Site #2	Sample Result	0000.0	0.0000	0.0000	0.0000		0.0000
2	Sample Date	12/5/2007	3/4/2008	6/3/2008	9/4/2008		
Stage I site #3	Sample Result	0.000	0.0000	0.0007	0.0000		0.0002
:	Sample Date	12/5/2007	3/4/2008	6/3/2008	9/4/2008		
Stage I site #4	Sample Result	0.0000	0.0000	0.0000	0.0000		0.0000
01	Sample Date	12/5/2007	3/4/2008	6/3/2008	9/4/2008		
Stage I site #5	Sample Result	00000	0.0000	0.0000	0.0000		0.0000
21-11-11-11-11-11-11-11-11-11-11-11-11-1	Sample Date	12/5/2007	3/4/2008	6/3/2008	9/4/2008		
Stage I site #6	Sample Result	0.0000	0.0000	0.0008	0.0000		0.0002
Store 1 5:45	Sample Date	12/5/2007	3/4/2008	6/3/2008	9/4/2008		
Stage I site#/	Sample Result	0.0000	0.0000	0.0019	0.0000		0.0005
2	Sample Date	12/5/2007	3/4/2008	6/3/2008	9/4/2008		
Stage I site #8	Sample Result	0.0000	0.0000	0.0008	0.0000		0.0002
<sup>1</sup> Verify that site IDs for	<sup>1</sup> Verify that site IDs for IDSE standard monitoring sites match the site IDs in your Standard Monitoring Plan.	g sites match the	site IDs in you	r Standard Mor	nitoring Plan		

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III. MONITORING RESULTS (Continued)\*
G. Stage 1 DBPR Compliance Monitoring Results - HAA5

Site ID <sup>1</sup>	Data Type			HAA5 (mg/L)	mg/L)	LRAA
01 - 1 - 1 - 10	Sample Date	12/5/2007	3/4/2008	6/3/2008	9/4/2008	
Stage I site #9	Sample Result	0.0309	0.0194	0.0194	0.0178	0.0219
	Sample Date	12/5/2007	3/4/2008	6/3/2008	9/4/2008	
Stage 1 site #10	Sample Result	0.0260	0.0120	0.0163	0.0153	0.0174
	Sample Date	12/5/2007	3/4/2008	6/3/2008	9/4/2008	
Stage 1 site #11	Sample Result	0.0248	0.0234	0.0247	0.0000	0.0182
	Sample Date	12/5/2007	3/4/2008	6/3/2008	9/4/2008	
Stage 1 Site #12	Sample Result	0.0367	0.0163	0.0143	0.0180	0.0213
	Sample Date					
	Sample Result					#DIV/0!
	Sample Date					
	Sample Result					#DIV/0!
	Sample Date					
	Sample Result					#DIV/0!
	Sample Date					
						#DIV/0!

Verify that site IDs for IDSE standard monitoring sites match the site IDs in your Standard Monitoring Plan.

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### IV. JUSTIFICATION OF STAGE 2 DBPR COMPLIANCE MONITORING SITES\*

Stage 2 Compliance Monitoring Site ID	Site Type	Justification
Standard Monitoring site # 3	X Highest TTHM Highest HAA5 Stage 1 DBPR	This site had the highest TTHM LRAA among all of the sites.
Standard Monitoring site # 7	Highest TTHM X Highest HAA5 Stage 1 DBPR	This site had the highest HAA5 LRAA of all of the sites.
Stage 1 site #9	Highest TTHM Highest HAA5 X Stage 1 DBPR	This site had the highest HAA5 LRAA of all of the stage 1 sites.
Standard monitoring site # 2	X Highest TTHM Highest HAA5 Stage 1 DBPR	This site had the 2nd highest TTHM LRAA of all of the sites and had not been used yet.
	Highest TTHM Highest HAA5 Stage 1 DBPR	
	Highest TTHM Highest HAA5 Stage 1 DBPR	
	Highest TTHM Highest HAA5 Stage 1 DBPR	
	Highest TTHM Highest HAA5 Stage 1 DBPR	
	Highest TTHM Highest HAA5 Stage 1 DBPR	

Attach additional copies of this sheet if you need more room.

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### V. PEAK HISTORICAL MONTH AND STAGE 2 DBPR COMPLIANCE MONITORING SCHEDULE

В.	Is Your Peak Historical Month the Same as in Your IDSE Standard
	Monitoring Plan?

October

Yes	Х	No
162	^	140

A. Peak Historical Month\*

If no, explain how you selected your new peak historical month (attach additional sheets if needed)

Our original peak historical month was August. After conducting the IDSE standard monitoring the results showed that October actually had higher THM's.

After reviewing the data it was determine that October would be our new Peak Historical Month.

### C. Proposed Stage 2 DBPR Compliance Monitoring Schedule\*

Stage 2 Compliance	P	Projected Samplin	g Date (date or we	ek) <sup>1</sup>
Monitoring Site ID	period 1	period 2	period 3	period 4
SM site #3	wk 1 January	wk 1 April	wk 1 July	wk 1 October
SM site #7	wk 1 January	wk 1 April	wk 1 July	wk 1 October
Stage 1 #9	wk 1 January	wk 1 April	wk 1 July	wk 1 October
SM site # 2	wk 1 January	wk 1 April	wk 1 July	wk 1 October
	+			

<sup>&</sup>lt;sup>1</sup> period = monitoring period. Complete for the number of monitoring periods from Section II.C.

Attach additional copies of this sheet if you need more room.

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### VI. DISTRIBUTION SYSTEM SCHEMATIC\*

ATTACH a schematic of your distribution system if it has changed since you submitted your Standard Monitoring Plan.

### VII. ATTACHMENTS

- Additional sheets for explaining how and why you deviated from your standard monitoring plan (Section III).
- Additional sheets for Standard Monitoring Results (Section III). REQUIRED if you are a subpart H system serving more than 49,999 people or a ground water system serving more than 499,999 people.
- Additional sheets for Stage 2 DBPR Compliance Monitoring Sites (Section IV).
   REQUIRED if you are a subpart H system serving more than 249,999 people.
- Additional sheets for explaining how you selected the peak historical month (Section V).
- Additional sheets for proposed Stage 2 DBPR peak historical month and compliance monitoring schedule (Section V). REQUIRED if you are a subpart H system serving more than 249,999 people.
- ~ Distribution system schematic\* (Section VI). **REQUIRED if it has changed from your approved IDSE standard monitoring plan.**
- ~ Compliance calculation procedures (for Stage 2 Compliance Monitoring Plan).

Total Number of Pages in Your Report: 13 plus Schematic

Note: Fields with an asterisk (\*) are required by the Stage 2 DBPR.

