

September 15, 1999

Robert Weimer
ADEC/UST
555 Cordova St.
Anchorage, AK 99501

Re: Senco; Spill #98210030101; Monitoring Well Results; First Quarter

The three monitoring wells at the Senco site were sampled on 8/26/99. This represents the first quarterly sampling for MW2 and MW3, following initial sampling in June. This was the first time MW1 had been sampled.

The lab results for the three wells are attached, as is the running Monitoring Well Log. None of the wells had free product or sheen. Only benzene remains above the default cleanup goals in MW1 and MW2. MW3 remained non-detect for all species of concern.

Recommendations include:

- Continue quarterly monitoring for MW1 and MW2 as described in the 8/24/99 plan (next sampling 12/1/99 with report by 12/15/99). A rapid decrease in contamination is indicated by MW2 results, consequently no active remediation measures are recommended.
- MW3 has never had detectable contamination, either soil or groundwater. Consequently, I recommend this well be properly abandoned.

If you have any questions, please give me a call.

Sincerely,



Ralph Hulbert, P.E.

Att: Lab results
Monitoring Well Log

cc: Clay Dial, Senco

RECEIVED
SEP 20 1999
Dept. of Environmental Conservation
Underground Storage Tanks — FAP

994533

ALASKA CHEM Engineering

Ralph

PO Box 1846, Palmer, AK 99645 phone (907)746-4587; fax (907)746-4586; email

ANALYSIS REQUEST & CHAIN OF CUSTODY

Profile or Job # Senco Contact Ralph
 Generator 1 Site MWells
 Sample Location _____ Purpose of Sampling _____
 Sample Matrix water Layers Sampled 1 Sampling Method grab
 Sampling Device deep borer Premixing/Preparation Purge
 Discrete ☒ or Composite # of Subsamples _____ Sample Containers: Size 40L Type TLS
 Number 6 Sample taken by Ralph Date Sampled 8/26/99
 Time Sampled _____ Witness Signature _____ Date _____
 Laboratory to Perform Analysis CTEF RUSH? _____ Date Results Requested: _____

	Sample ID	Matrix	# Cont.	Analyses Requested	QA/QC
①	8/26/99 MW1	water	2	AK101 / BTEX	
②	8/26/99 MW2	"	"	"	
③	8/26/99 MW3	"	"	"	

Relinquished By:		Received By:	Date/Time
1	Name <u>Ralph Hullbert</u>	<u>Tara Howell</u>	8-26-99 1630
	Signature <u>Ralph Hullbert</u>		
2	Name _____		
	Signature _____		
3	Name _____		
	Signature _____		

Received at Laboratory By: _____ Date/Time _____ Condition of Containers: _____
 Temperature _____ Seals Intact _____ Laboratory ID # _____
 Comments: _____

Please fax results as soon as available to 746-4586



CT&E Environmental Services Inc.

Laboratory Division

Laboratory Analysis Report

September 02, 1999

Ralph Hülbert
Hulbert, Ralph P.E.
P.O. Box 1846
Palmer, AK 99645

Client Name	Hulbert, Ralph P.E.
Project ID	Senco [994533]
Printed	September 02, 1999

Enclosed are the analytical results associated with the above project.

As required by the state of Alaska and the USEPA, a formal Quality Assurance/Quality Control Program is maintained by CT&E. A copy of our Quality Control Manual that outlines this program is available at your request.

Except as specifically noted, all statements and data in this report are in conformance to the provisions set forth in our Quality Assurance Program Plan.

If you have any questions regarding this report or if we can be of any other assistance, please call your CT&E Project Manager at (907) 562-2343.

The following descriptors may be found on your report which will serve to further qualify the data.

- U - Indicates the compound was analyzed for but not detected.
- J - Indicates an estimated value that falls below PQL, but is greater than the MDL.
- B - Indicates the analyte is found in the blank associated with the sample.
- * - The analyte has exceeded allowable limits.
- GT - Greater Than
- D - Secondary Dilution
- LT - Less Than
- ! - Surrogate out of range



CT&E Ref.# 994533001
Client Name Hulbert, Ralph P.E.
Project Name/# Senco
Client Sample ID MW1
Matrix Water (Surface, Eff., Ground)
Ordered By
PWSID

Client PO#
Printed Date/Time 09/02/99 14:15
Collected Date/Time 08/26/99 00:00
Received Date/Time 08/26/99 16:30
Technical Director: Stephen C. Ede

Released By 

Sample Remarks:

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
GR0/602 Combo								
Gasoline Range Organics	0.14	0.0900	mg/L	AK101/8021B		08/31/99	09/01/99	DAR
Benzene	0.0154	0.00050	mg/L	AK101/8021B		08/31/99	09/01/99	DAR
Toluene	0.0020 U	0.0020	mg/L	AK101/8021B		08/31/99	09/01/99	DAR
Ethylbenzene	0.00847	0.0020	mg/L	AK101/8021B		08/31/99	09/01/99	DAR
P & M -Xylene	0.00900	0.0020	mg/L	AK101/8021B		08/31/99	09/01/99	DAR
o-Xylene	0.00477	0.0020	mg/L	AK101/8021B		08/31/99	09/01/99	DAR
Surrogates								
4-Bromofluorobenzene <Surr>	84		%	AK101/8021B	(50-150)	08/31/99	09/01/99	
1,4-Difluorobenzene <Surr>	110		%	AK101/8021B	(50-150)	08/31/99	09/01/99	



CT&E Ref.# 994533002
Client Name Hulbert, Ralph P.E.
Project Name/# Senco
Client Sample ID MW2
Matrix Water (Surface, Eff., Ground)
Ordered By
PWSID

Client PO#
Printed Date/Time 09/02/99 14:15
Collected Date/Time 08/26/99 00:00
Received Date/Time 08/26/99 16:30
Technical Director: Stephen C. Ede

Released By

Sample Remarks:

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
GR0/602 Combo								
Gasoline Range Organics	0.89	0.0900	mg/L	AK101/8021B		08/31/99	09/01/99	DAR
Benzene	0.00561	0.00050	mg/L	AK101/8021B		08/31/99	09/01/99	DAR
Toluene	0.00428	0.0020	mg/L	AK101/8021B		08/31/99	09/01/99	DAR
Ethylbenzene	0.0206	0.0020	mg/L	AK101/8021B		08/31/99	09/01/99	DAR
P & M -Xylene	0.0642	0.0020	mg/L	AK101/8021B		08/31/99	09/01/99	DAR
o-Xylene	0.0101	0.0020	mg/L	AK101/8021B		08/31/99	09/01/99	DAR
Surrogates								
4-Bromofluorobenzene <Surr>	122		%	AK101/8021B	(50-150)	08/31/99	09/01/99	
1,4-Difluorobenzene <Surr>	120		%	AK101/8021B	(50-150)	08/31/99	09/01/99	



CT&E Ref.# 994533003
Client Name Hulbert, Ralph P.E.
Project Name/# Senco
Client Sample ID MW3
Matrix Water (Surface, Eff., Ground)
Ordered By
PWSID

Client PO#
Printed Date/Time 09/02/99 14:15
Collected Date/Time 08/26/99 00:00
Received Date/Time 08/26/99 16:30
Technical Director: Stephen C. Ede

Released By 

Sample Remarks:

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
GRO/602 Combo								
Gasoline Range Organics	0.0900 U	0.0900	mg/L	AK101/8021B		08/31/99	09/01/99	DAR
Benzene	0.00050 U	0.00050	mg/L	AK101/8021B		08/31/99	09/01/99	DAR
Toluene	0.0020 U	0.0020	mg/L	AK101/8021B		08/31/99	09/01/99	DAR
Ethylbenzene	0.0020 U	0.0020	mg/L	AK101/8021B		08/31/99	09/01/99	DAR
P & M -Xylene	0.0020 U	0.0020	mg/L	AK101/8021B		08/31/99	09/01/99	DAR
o-Xylene	0.0020 U	0.0020	mg/L	AK101/8021B		08/31/99	09/01/99	DAR
Surrogates								
4-Bromofluorobenzene <Surr>	74.4		%	AK101/8021B	(50-150)	08/31/99	09/01/99	
1,4-Difluorobenzene <Surr>	96.1		%	AK101/8021B	(50-150)	08/31/99	09/01/99	