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**UST Removal Report**  
**Tonasket Public School District #404**  
**AUG 22 1995**

June 1995

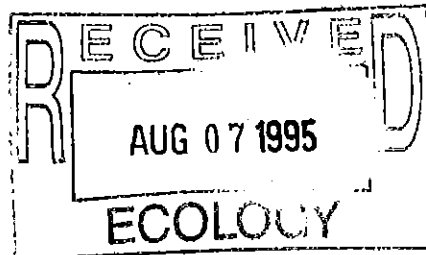
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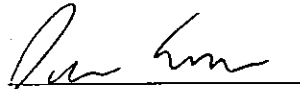
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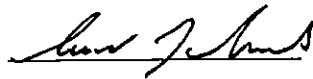


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## Executive Summary

During the week of May 8, 1995, four underground storage tanks (USTs) were removed at the Tonasket School District (TSD) campus located in Tonasket, Washington. During this project, one 10,000 gallon fuel oil UST (UST #1), one 300 gallon fuel oil UST (UST #2), one 500 gallon gasoline UST (UST #3), and one 1,000 gallon gasoline UST (UST #4) were removed (note that UST numbers 1, 2, 3, and 4 in this report correspond to Washington State Department of Ecology UST numbers 3, 4, 2, and 1 respectively). CEcon Corporation (CEcon), of Tacoma, Washington, performed tank removal services. Bison Environmental Resources, Inc. (Bison), of Spokane, Washington, performed environmental monitoring and contractor oversight services.

UST #1 and UST #2 were located east of the school campus boiler room. UST #2 was located approximately 2 feet from the south end of UST #1, with it's long axis perpendicular to UST #1's long axis. UST #3 and UST #4 were located between bus garages at the school district's bus storage and maintenance facility. Both of these tanks were installed end-to-end in a single excavation.

During removal, Bison collected soil samples from around the boundaries of each tank excavation for both field and laboratory analysis. Results of analyses indicated that UST #1, UST #2, and UST #4 leaked. UST #1 appeared to have leaked from a vent line fitting near the south end of the UST. UST #2 was found to have several seam holes located at the bottom of the tank, although direct evidence of release into soils was obscured by the larger UST #1 release. UST #4 appeared to have leaked at the tank's distribution line fitting.

During removal, limited over-excavation was performed in an attempt to remediate impacted soil at all three release sites. Excavation was stopped when it became apparent that the integrity of nearby building structures were threatened if over-excavation continued. Results of samples obtained at the limit of over-excavation boundaries indicates that remediation is incomplete.

Approximately 220 cubic yards of petroleum contaminated soil was excavated during UST removal and remediation. This soil was accepted for disposal and transferred to Waste Management's Wenatchee Regional Landfill in Wenatchee, Washington. The USTs were cleaned and were transferred to Dave Deifenbach of Omak, Washington for recycling. Sludges generated during UST cleaning were transferred to TRIMAC/CleanCare Corporation in Federal Way, Washington for energy recovery.

Additional investigation is required to determine threat to human health and the environment from UST #1, UST #2, and UST #4 releases. Bison recommends one soil boring be installed near the former south end of UST #1 to assess maximum vertical extent of both the UST #1 and UST #2 releases. In addition, one soil boring should be installed at the location of the former UST #4 tank middle to assess maximum vertical extent of the UST #4 release. If groundwater is found to be impacted by either release, groundwater monitoring wells may be necessary to define extent of groundwater impact.



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## **1.0 Introduction**

In 1994, the Tonasket School District (TSD) retained Bison Environmental Resources, Inc. (Bison) to partially assess and eventually remove four underground storage tanks (USTs) from TSD's school campus in Tonasket, Washington. These USTs include one 10,000 gallon fuel oil UST (UST #1), one 300 gallon fuel oil UST (UST #2), one 500 gallon gasoline UST (UST #3), and one 1,000 gallon gasoline UST (UST #4). Note that UST numbers 1, 2, 3, and 4 in this report correspond to Washington State Department of Ecology UST numbers 3, 4, 2, and 1 respectively in the Underground Storage Tank Closure/Site Assessment Notice submitted to Ecology. See Appendix A for copy of the Underground Storage Tank Closure/Site Assessment Notice. Please refer to Figure 1, Site Location Map.

UST #1 and UST #2 were located east of the school campus boiler room. UST #2 was located approximately 2 feet from the south end of UST #1, with its long axis perpendicular to UST #1's long axis.

UST #3 and UST #4 were located between bus garages at the school district's bus storage and maintenance facility. Both of these tanks were installed end-to-end in a single excavation. Please refer to Figures 2 and 3 for UST locations.

During the summer of 1994, Bison performed a limited preliminary assessment to characterize environmental impact from a reported overfill release from UST #1 that occurred prior to 1991. During this assessment, a series of test pits were installed adjacent to the UST and soil samples were collected. Results confirmed that a release had occurred. In addition, a bioremediation treatability study was performed to determine the potential of bioremediation as a treatment option for impacted soils from the UST #1 release. Treatability study results indicated that bioremediation was not a viable option for soil treatment. These results were communicated to TSD during fall of 1994.

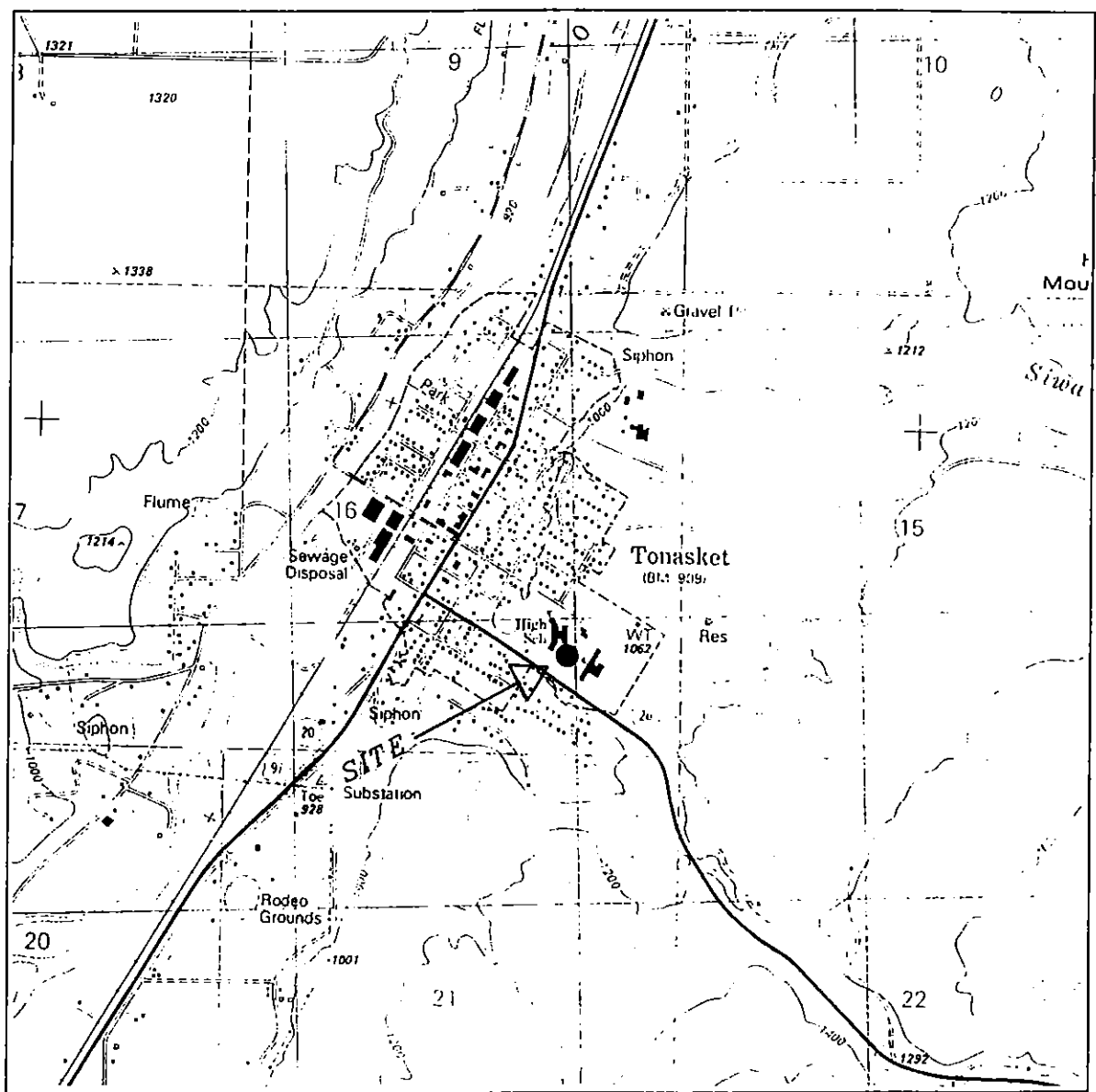
During the week of May 8, 1995, USTs #1 through #4 were removed by CEcon Corporation of Tacoma, Washington. During removal, Bison performed environmental monitoring and contractor oversight. This report has been prepared to document UST removal activities and environmental monitoring results.

## **2.0 Site Setting**

The Tonasket School District campus is located approximately 1/2 mile east of downtown Tonasket on the north side of Highway 20, in the southeast 1/4 of Section 16, Township 37 N, Range 27 E. The ground surface elevation at UST #1 and #2 is approximately 1,025 ft. The ground surface elevation at UST #3 and #4 is approximately 990 ft.

Soils underlying the site are Cordillerian Ice Sheet glacial drift deposits. Thickness of drift deposits below the site was not determined during this investigation, although thickness is probably greater than 120 ft.



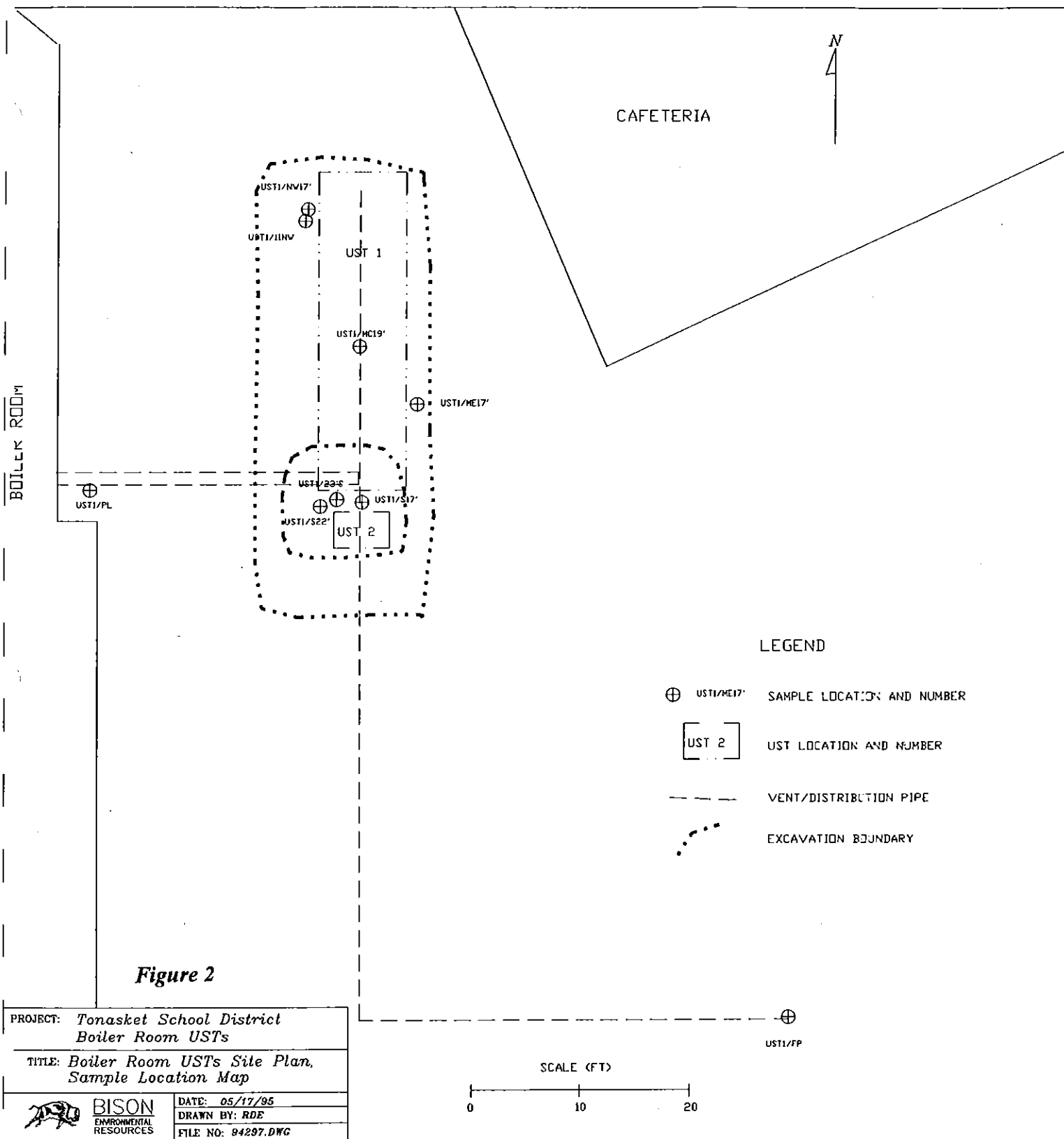


TONASKET SCHOOL DISTRICT  
UST REMOVAL PROJECT

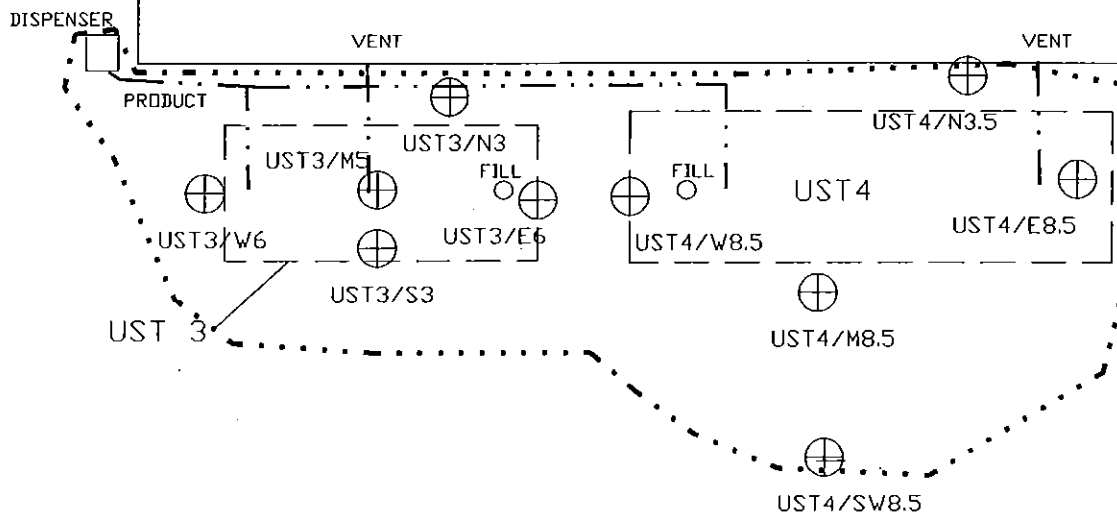
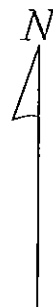


**BISON**  
ENVIRONMENTAL  
RESOURCES

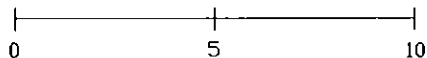
Figure 1.  
Site Location Map



# BUS GARAGE




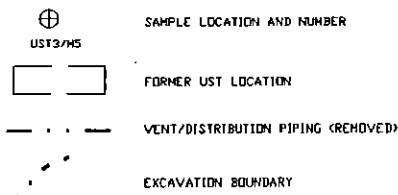
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# BUS GARAGE

**Figure 3**

PROJECT: <i>Tonasket School District Boiler Room USTs</i>	
TITLE: <i>Bus Garage USTs Site Plan, Sample Location Map</i>	
 <b>BISON</b> ENVIRONMENTAL RESOURCES	DATE: 05/30/95
	DRAWN BY: RDE
	FILE NO: 94297-1.DWG



Exact depth to groundwater below the site is unknown. The Okanogan River is located approximately 1 mile northwest of the site at an elevation of approximately 880 ft. Bonaparte creek is located approximately 1/3 mile southwest of the site at an elevation of approximately 950 ft. If groundwater elevation is similar to Bonaparte Creek elevation, groundwater can be assumed to be between 40 ft below UST #3 and #4 site, and 75 ft below UST #1 and UST #2 site.

During the UST removal project, the Tonasket School campus was undergoing major renovation and school was in session. These factors limited size and operation of equipment used during the UST removal project.

### **3.0 UST Removal and Assessment**

#### **3.1 UST #1 and UST #2**

UST #1, a 10,000 gallon fuel oil UST, was removed on May 11, 1995. This UST stored P.S. 300 fuel oil until 1991, at which time the UST was converted to store #2 fuel oil. On May 9, 1995 UST #2, a small 300 gallon #2 fuel oil starter tank associated with UST #1, was removed. Both USTs were used to operate the Tonasket School campus boiler and were located approximately 20 ft east of the boiler room. UST #2 was situated approximately 2 ft from the southern end of UST #1. See Figure 2 for layout of these USTs.

Prior to tank removal, contaminated soil was removed from above and adjacent to the USTs. This near surface contamination is thought to be a result of over-fill events that occurred during historic tank refueling.

Upon removal, no holes were found in UST #1. However, UST #2 did have several holes at the seam of one end. Following removal, contamination was found by field analysis to be greatest near the south end of UST #1 and near UST #2. See Section 6.0 for description of field analysis procedures. Because the contamination appeared to be primarily heavy-end hydrocarbons, and based upon information supplied by TSD, this leak is thought to be due to a poorly sealed vent line on UST #1 that was repaired several years ago, about the time the tank was converted from storing P.S. 200 to #2 fuel oil. Contamination from UST #2 leakage was not observed during removal, although leakage may have been obscured by the larger P.S. 200 leak.

An attempt was made excavate contaminated soil below the south end of UST #1 and below UST #2 using field analysis indicators. Due to limitations of space, adjacent structures, and on-site remedial equipment, excavation was stopped at approximately 24 ft below ground surface (approximately 6 ft below UST #1 bottom) prior to reaching the vertical limit of the contaminant plume. Soil samples were obtained at the boundaries of the UST excavation for both field and laboratory analysis. Soil samples were not obtained along the northeast sidewall of the UST excavation since the northeast sidewall and the cafeteria building near the east sidewall were very unstable following tank removal. See Section 5.0 for description of sampling procedures. See Appendix B for soil analysis laboratory reports. The following table





summarizes laboratory analysis of samples collected during removal and partial remediation of UST #1 and #2.

**Table 1**  
**UST #1 and UST #2 Soil Sample Results**

Sample Number	Location	WTPH-D EXT Results in PPM		MTCA Cleanup Level
UST1/11NW	UST #1, west sidewall, north corner at 11 ft bgs	Diesel range:	<b>90</b>	200
		Heavy oil range:	<b>234</b>	
UST1/NW17	UST #1, west sidewall, north corner at 17 ft bgs (below sample UST1/11NW)	Diesel range:	< 10	200
		Heavy oil range:	< 25	
UST1/S17'	UST #1 and UST #2 between UST #1 and UST 2 at 17 ft bgs	Diesel range:	< 10	200
		Heavy oil range:	< 25	
UST1/ME17'	UST #1, middle of east sidewall at 17 ft bgs	Diesel range:	< 10	200
		Heavy oil range:	< 25	
UST1/MC19'	UST #1, below middle of tank at 19 ft bgs	Diesel range:	<b>15</b>	200
		Heavy oil range:	<b>42</b>	
UST1/S22'	UST #1 and UST #2, below south end of UST #1 at 22 ft bgs	Diesel range:	<b>14,000</b>	200
		Heavy oil range:	<b>18,000</b>	
UST1/23'S	UST #1 and UST #2, below south end of UST #1 at 24 ft bgs <sup>1</sup> at the limit of remedial excavation.	Diesel range:	<b>6,800</b>	200
		Heavy oil range:	<b>7,100</b>	
UST1/FP	UST #1, below fill port at 7 ft bgs	Diesel range:	< 10	200
		Heavy oil range:	< 25	
UST1/PL	UST #1, below vent, product, and recirculation pipe	Diesel range:	< 10	200
		Heavy oil range:	< 25	

Notes: bgs: below ground surface

Cleanup level exceedances shown in bold type

<sup>1</sup> Sample UST1/23'S was obtained at 24 ft bgs



Results indicate that concentration of hydrocarbons attenuates fairly rapidly with depth. The sample collected at 22 ft bgs has a total hydrocarbon concentration of 32,000 ppm. A sample collected two feet deeper at 24 ft bgs has a concentration of 13,900 ppm. Assuming this attenuation rate is constant, concentration will drop 57% every 2 ft and contamination can be expected to drop below cleanup level by 35 ft bgs. However, other factors, such as hydrogeological, geochemical, sampling methodology, etc., can influence real or perceived attenuation rate.

Therefore, we conclude further investigation is necessary to assess the threat to human health and the environment from this release. We recommend at least one soil boring be installed directly through the deepest area of known contamination to determine maximum vertical extent of contamination. This soil boring should extend to 15 ft below maximum extent of contamination as determined by field analysis. Soil samples should be obtained and analyzed for both diesel and heavy oil range hydrocarbon concentration. If groundwater is encountered, the soil boring should be constructed as a monitoring well. Additional monitoring wells may be necessary to define downgradient plume extent.

### 3.2 UST #3

UST #3 was removed concurrent with UST #4 on May 9, 1995. UST #3 was a 500 gallon gasoline tank located between bus garages at the Tonasket School District's bus storage and maintenance facility. Gasoline from this UST was distributed through a pipe that was plumbed in series with UST #4 to a suction pump dispenser located near the west end of the tank. See Figure 3 for layout of UST #3.

During removal, UST #3 was in good condition with no holes or fitting leakage. Less than 3 yds<sup>3</sup> of overfill related contaminated soil was removed during UST #3 removal. Soil samples were collected from the perimeter of the tank excavation and were analyzed by both field and laboratory analysis. Field analysis was performed as indicated in Section 6.0. Samples for laboratory analysis were submitted for total gasoline petroleum hydrocarbon, BTEX, and lead analyses. See Figure 3 for UST #3 sample locations. See Appendix B for soil analysis laboratory reports. The following table summarizes results of these analyses:



**Table 2**  
**UST #3 Soil Sample Results**

Sample Number	Location	Results in PPM		MTCA Cleanup Level
UST3/W5	UST #3, west sidewall at 3 ft bgs	WTPH-G	< 1.0	100
		benzene	< 0.05	0.50
		toluene	< 0.05	40.0
		ethylbenzene	< 0.05	20.0
		xylene	< 0.10	20.0
		total lead	< 10	500
UST3/N3	UST #3, north sidewall and below UST 4 distribution pipes at 3 ft bgs	WTPH-G	1.2	100
		benzene	< 0.05	0.50
		toluene	< 0.05	40.0
		ethylbenzene	< 0.05	20.0
		xylene	< 0.10	20.0
		total lead	11	500
UST3/M5	UST #3, below middle of tank at 5 ft bgs	WTPH-G	< 1.0	100
		benzene	< 0.05	0.50
		toluene	< 0.05	40.0
		ethylbenzene	< 0.05	20.0
		xylene	< 0.10	20.0
		total lead	< 10	500
UST3/S3	UST #3, south sidewall at 3 ft bgs	WTPH-G	1.60	100
		benzene	< 0.05	0.50
		toluene	< 0.05	40.0
		ethylbenzene	< 0.05	20.0
		xylene	< 0.10	20.0
		total lead	< 10	500
UST3/E6	UST #3, below east end of tank at 6 ft bgs	WTPH-G	2.9	100
		benzene	< 0.05	0.50
		toluene	< 0.05	40.0
		ethylbenzene	< 0.05	20.0
		xylene	< 0.10	20.0
		total lead	44	500

Results indicate that UST #3 did not leak. Therefore, no further action is required at the UST #3 site.

### 3.3 UST #4

UST #4 was removed concurrent with UST #3 on May 9, 1995. UST #4 was a 1,000 gallon gasoline tank located between bus garages at the Tonasket School District's bus storage and maintenance facility. Gasoline from this UST was distributed through a pipe that was plumbed in series with UST #3 to a suction pump dispenser located near the west end of UST #3. See Figure 3 for layout of UST #4.



Upon removal, UST #4 was in good condition with no holes, although evidence of leakage from the distribution pipe was discovered based upon field analysis of soil samples obtained from the top of the tank. See Section 6.0 for description of field analysis. Evidence of leakage was further supported by a school district employee's recollection of having to prime the suction pump prior to use. Limited remediation by over-excavation was performed based upon field analysis. Further excavation ceased when it became apparent that structural integrity of the nearby bus garage was at risk. Soil samples were collected from the perimeter of the tank excavation and were submitted for total gasoline petroleum hydrocarbon, BTEX, and lead analysis. See Figure 3 for UST #4 sample locations. See Appendix B for soil analysis laboratory reports. The following table summarizes results of these analyses:

Table 3  
UST #4 Soil Sample Results

Sample Number	Location	Results in PPM		MTCA Cleanup Level
UST4/M8.5	UST 4, below middle of tank at 8.5 ft bgs	WTPH-D	<b>4,000</b>	200
		WTPH-G	<b>2,600</b>	100
		benzene	< 0.05	0.50
		toluene	< 0.05	40.0
		ethylbenzene	< 0.05	20.0
		xylene	< 0.10	20.0
		total lead	< 10	500
UST4/SW8.5	UST 4, below southeast corner of tank at 8.5 ft bgs	WTPH-G	7.6	100
		benzene	< 0.05	0.50
		toluene	< 0.05	40.0
		ethylbenzene	< 0.05	20.0
		xylene	< 0.10	20.0
		total lead	< 10	500
UST4/W8.5	UST 4, below west end of tank at 8.5 ft bgs	WTPH-G	19	100
		benzene	< 0.05	0.50
		toluene	< 0.05	40.0
		ethylbenzene	< 0.05	20.0
		xylene	< 0.10	20.0
		total lead	< 10	500
UST4/E8	UST 4, below east end of tank at 8 ft bgs	WTPH-G	4.8	100
		benzene	0.060	0.50
		toluene	0.44	40.0
		ethylbenzene	0.09	20.0
		xylene	< 0.10	20.0
UST4/N3.5	UST 4, north sidewall at 3.5 ft bgs	WTPH-G	1.4	100
		benzene	< 0.05	0.5
		toluene	< 0.05	40
		ethylbenzene	< 0.05	20
		xylene	< 0.1	20

Note: Cleanup level exceedances shown in bold type



Results indicate that contamination is still present at concentrations above cleanup levels below the middle of UST #4 at depths greater than 8.5 ft bgs. Vertical limit of contamination is currently unknown although laboratory analysis indicates that the horizontal limit of contamination is confined to an area of less than approximately 10 ft in diameter.

Results also indicated that the contaminant detected in UST4/M8.5 was not fully quantified by gasoline range hydrocarbon analysis. Therefore, diesel range hydrocarbon analysis was also performed. The chemical indication of diesel range petroleum hydrocarbons may be the result of gasoline weathering or leakage from the tank during a period of diesel storage. Review of other analysis data indicated that diesel range hydrocarbons were present in other samples, although at concentrations below cleanup level.

To assess threat to human health and the environment, we recommend at least one soil boring be installed through the area of known contamination characterized by sample UST4/M8.5. This soil boring should be installed to a depth approximately 15 ft below maximum vertical extent of contamination as determined through field analysis performed during drilling. Samples should be obtained and analyzed for gasoline and diesel range petroleum hydrocarbons to confirm vertical extent of contamination. If groundwater is encountered, the soil boring should be constructed as a monitoring well. Additional monitoring wells may be necessary to define downgradient plume extent.

#### **4.0    *Waste Disposal***

During removal of USTs #1 through #4, impacted soil was stored in a covered, lined on-site stockpile pending acceptance for disposal. Approximately 180 yds<sup>3</sup> of impacted soil was excavated during UST #1 and UST #2 removal and partial remediation. Approximately 40 yds<sup>3</sup> of impacted soil was excavated during UST #3 and UST #4 removal and partial remediation. Both soil piles were sampled for disposal profiling. See Appendix B for soil analysis laboratory reports. See Table 4 for summary of profile sampling.



**Table 4**  
**Disposal Sampling Results**

Sample Number	Location	Results in PPM		MTCA Cleanup Level
BB-SP-1	UST 3 and UST 4 soil stockpiles	WTPH-G	41	100
		benzene	< 0.05	0.5
		toluene	0.06	40
		ethylbenzene	< 05	20
		xylene	< 10	20
		TCLP lead	< 0.50	
BB-SP-B	UST 3 and UST 4 soil stockpiles	WTPH-G	67	100
		benzene	<0.05	0.5
		toluene	< 0.05	40
		ethylbenzene	< 0.05	20
		xylene	< 0.10	20
		TCLP lead	< 0.50	
BB-SP-C	UST 3 and UST 4 soil stockpiles	WTPH-G	307	100
		benzene	< 0.05	0.5
		toluene	< 0.05	40
		ethylbenzene	< 0.05	20
		xylene	0.34	20
		TCLP lead	< 0.50	
BR-SP-A BR-SP-B BR-SP-C Composite	UST 1 and UST 2 soil stockpiles	WTPH 418.1	208	200

All petroleum contaminated soil (PCS) was accepted for disposal at Waste Management's Greater Wenatchee Regional Landfill located in Wenatchee, Washington. Soil was transported off-site for disposal on May 17th through 20th, 1995. Please see Appendix C for soil disposal receipts. Disposal receipts show a greater volume of soil than was actually disposed. This discrepancy is due to differences between the disposal facility and Bison in the method used to estimate volume between the disposal facility and Bison. The disposal facility roughly calculated PCS volume by measuring dimensions of soil contained within trucks used to transfer soil. Bison calculated volume by measuring the density of the excavated PCS, which was compared to the net weight of each PCS truck load. All reference to soil volumes in this and future reports will use Bison's calculated soil volume. Appendix E presents a comparison between Waste Management's and Bison's estimated volume. Please see Appendix B for laboratory determination of soil density.

All four USTs were inerted, cleaned and were accepted by Dave Deifenbach of Omak, Washington for recycling. 850 gallons of tank cleaning wastes were accepted by and transferred to TRIMAC/CleanCare Corp. in Federal Way, Washington for energy recovery. Wastes were transported by CEcon in a vacuum truck under profile #59228-00. Please see Appendix D for UST cleaning and disposal and sludge disposal documentation.



## **5.0    *Soil Sampling Procedure***

Soil samples were obtained by grab sampling directly from the desired soil sampling location or from backhoe bucket soil collected at the desired sampling location. A new plastic disposable spoon was used to obtain samples from either undisturbed sidewall soil or from the relatively undisturbed soil at the middle of the backhoe bucket near the teeth. Samples for laboratory analysis were deposited into labeled borosilicate glass sample containers, packaged on ice, and hand or common carrier delivered to North Creek Analytical in Spokane, Washington for analysis. Soil samples for field analysis were obtained from the remaining soil and were analyzed using the method described in Section 6.0.

## **6.0    *Field Analysis Procedure***

During both remedial and investigative activities, soil samples were analyzed by visual inspection, headspace, odor, and sheen to qualitatively determine limits of plume. Visual inspection was performed by looking at the soil and examining for evidence of hydrocarbon contamination, such as color, cohesiveness, and wetness. Headspace analysis was performed by placing soil samples into a one-quart plastic bag, kneading to expose maximum soil surface to the air in the bag, and measuring the trapped air with a Microtip photoionization detector (PID). The odor test consisted of smelling the soil for the presence of hydrocarbon-like odors. The sheen test was performed by placing a small quantity of soil into a new, disposable plastic picnic bowl that contained water and visually inspecting for a "telltale" rainbow-colored sheen.

If any of the field analyses were positive, remediation or investigation was continued until the limit of contamination was indicated by field methods. Once the limit appeared to be defined in an area, confirmation samples for laboratory analysis were obtained. If excavation ceased prior to reaching limit of contamination, soil samples were obtained to determine concentration at remedial boundary.

## **7.0    *Conclusions***

During removal, UST #1, UST #2 and UST #4 were found to have released hydrocarbons into the environment. UST #3 is not believed to have leaked.

UST #1 and UST #2 releases coalesced into one contaminant plume. This plume extends from about 25 ft below ground surface to an unknown depth at a location approximately 28 ft due east from the southeast corner of the Tonasket High School boiler room. Contaminant at this location is primarily a heavy oil range hydrocarbon.

UST #4 release contaminant plume extends from about 8.5 ft below ground surface at a location approximately 12 ft east and 7 ft south of the southwest corner of the north bus garage. Maximum depth of contaminant plume is unknown. Contaminant at this location is primarily a heavy gasoline/light diesel range hydrocarbon.



## 8.0 *Recommendations*

Information collected during tank removal was not sufficient to determine threat to human health and the environment as required by Washington State Department of Ecology's Model Toxics Control Act (MTCA) regulations. To define current threat to human health and the environment, the maximum vertical extent of contamination at both sites needs to be identified. If groundwater is impacted by either release, extent of groundwater contamination also requires definition.

At the UST #1 and UST #2 location, Bison recommends that at least one soil boring be installed directly through the deepest area of known contamination to determine maximum vertical extent of contamination. This soil boring should extend to 15 ft below maximum extent of contamination as determined by field analysis. Soil samples should be obtained and analyzed for both diesel and heavy oil range hydrocarbon concentration. If groundwater is encountered, the soil boring should be constructed as a monitoring well. Additional monitoring wells may be necessary to define downgradient plume extent.

At the UST #4 location, Bison recommends that at least one soil boring be installed directly through the deepest area of known contamination to determine maximum vertical extent of contamination. This soil boring should extend to 15 ft below maximum extent of contamination as determined by field analysis. Soil samples should be obtained and analyzed for both gasoline and diesel range hydrocarbon concentration. If groundwater is encountered, the soil boring should also be constructed as a monitoring well. Additional monitoring wells may be necessary to define downgradient plume extent.





## **APPENDIX A**

### **Underground Storage Tank Closure/Site Assessment Notice**



JUN 14 '95 09:10

BISON ENV. RES.

510 P02



# **UNDERGROUND STORAGE TANK TEMPORARY/PERMANENT CLOSURE and SITE ASSESSMENT NOTICE**

See back of form for instructions  
Please ☒ the appropriate box(es)  
Please type or print information

☐ Temporary  
Tank Closure

☒ Permanent  
Tank Closure

☐ Change-In-  
Service

☒ Site Assessment/  
Site Check

Site ID Number (on invoice or available from Ecology if the tanks are registered):

#005694

Site/Business Name: Tonasket School District # 404

Site Address: P.O. Box 468

Tonasket

Telephone: (509) 486-2126

WA98855

Tank ID	Closure Date	Tank Capacity	Substance Stored
#1	5/9/95	1000 Gal	GAS
#2	5/9/95	500 Gal	GAS
#3	5/11/95	10,000 Gal	FUEL OIL
#4	5/9/95	250 Gal	DIESEL

RECEIVED

AUG 07 1995

☒ YES ☐ NO

Check unknown if no obvious contamination was observed and sample results have not yet been received from analytical lab.

UST Owner/Operator: Ready Haul

Owners Signature: \_\_\_\_\_ Telephone: (509) 486-2126

Address: P.O. Box 468

Tonasket WA 98855

Service Provider: CLEON CORPORATION License Number: 12002085

Licensed Supervisor: FRANK FOOTB Permit/Working License Number: 3000168

Supervisors Signature: [Signature]

Address: 1703 PORTLAND AVE. P.O. Box 1814

TACOMA WA 98401

Telephone: ( )

Name of Registered Site Assessor: R. David Enos, Bison Environmental Resources Inc.

Telephone: (509) 624-4341

Address: South 107 Cedar

Spokane WA 99204

ECO 00034



## UNDERGROUND STORAGE TANK

## 30 DAY NOTICE

See back of form for instructions  
Please ☒ the appropriate box☐ Intent  
to Install☒ Intent  
to Close☐ Both

For Office Use Only

Owner # 40007039Site # 005694

## SITE INFORMATION:

Site ID Number (on invoice or available from Ecology if the tank is registered): # 005694Site/Business Name: Tonasket School District #704Site Address: P.O. Box 468Owner/Operator  
Telephone: (509) 486-2126TonasketWA98855

City

State

ZIP-Code

## TANK INFORMATION:

## TANKS TO BE CLOSED

This section to be filled out ONLY if tanks are being removed

Tank ID	Projected Closure Date	Tank Capacity	Substance Stored	Date tank last used	Is there product in the tank? (yes/no)	If no, date tank was pumped
#1	5/9/95	1,000 G	diesel/gas	1992	?	unk
#2	5/9/95	500 G	diesel/gas	1992	?	unk
#3	5/10/95	10,000 G	fuel oil	1994	NO	1994
#4	5/10/95	250 G	diesel	1994	NO	1994

## TANKS TO BE INSTALLED

This section to be filled out ONLY  
if tanks are being installedTank ID      Approx.  
Install Date

## TANK INSTALLATION TO BE PERFORMED BY (if known):

This section to be filled out ONLY if tanks are being  
installed

Service Provider: \_\_\_\_\_ Contact Name: \_\_\_\_\_

Telephone: (\_\_\_\_) \_\_\_\_\_

Address: \_\_\_\_\_

Street

P.O. Box

City

State

ZIP-Code

## TANK PERMANENT CLOSURE TO BE PERFORMED BY (if known):

This section to be filled out ONLY if tanks  
are being removedService Provider: Bison Environmental Resources (Assessment only, Contractor to be hired)Contact Name: David Gnos, Peggy WilliamsonTelephone: (509) 624-4341, (509) 577-7907Address: 107 S. Cedar St

Street

SpokaneWA

P.O. Box

99204

State

ZIP-Code

This form will be returned to this address

UST OWNER/  
OPERATOR \_\_\_\_\_MAILING  
ADDRESS \_\_\_\_\_

Street

City

State

ZIP-Code

Once validated by Ecology, this form serves as your  
temporary permit for the tanks listed above.

Please type or print information

ECY 020-33

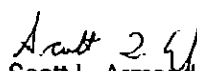
## **APPENDIX B**

### **Laboratory Reports**



Bison Environmental Resources  
107 South Cedar St.  
Spokane, WA 99204-0625  
Attention: Dave EnosProject Name: Tonasket School District UST  
Client Project #: None Given  
NCA Project #: S505022Received: May 11, 1995  
Reported: May 12-25, 1995**PROJECT SUMMARY PAGE**

Laboratory Sample Number	Sample Description	Sample Matrix	Date Sampled
S505022-01,2,3 composite	BR-SP-3,2,1 composite	Soil	5/10/95
S505022-04	BB-SP-A	Soil	5/10/95
S505022-05	BB-SP-B	Soil	5/10/95
S505022-06	BB-SP-C	Soil	5/10/95
S505022-07	UST-3/W5	Soil	5/10/95
S505022-08	UST3/M5	Soil	5/10/95
S505022-09	UST4/M8.5	Soil	5/9/95
S505022-10	UST4/SW8.5	Soil	5/9/95
S505022-11	UST3/S3	Soil	5/9/95
S505022-12	UST4/W8.5	Soil	5/9/95
S505022-13	UST3/E6	Soil	5/9/95

The results in this report apply to the samples analyzed in accordance with the chain of custody document.  
This analytical report must be reproduced in its entirety.**NORTH CREEK ANALYTICAL Inc.**  
Scott L. Armand  
Laboratory Manager

505022.BIS &lt;1&gt;

Bison Environmental Resources  
107 South Cedar St.  
Spokane, WA 99204-0625  
Attention: Dave EnosProject Name: Tonasket School District UST  
Client Project #: None Given  
NCA Project #: S505022Received: May 11, 1995  
Reported: May 12-25, 1995**PROJECT SUMMARY PAGE**

Laboratory Sample Number	Sample Description	Sample Matrix	Date Sampled
S505022-14	UST-1/AANW	Soil	5/9/95
S505022-15	UST-3/N3	Soil	5/9/95

The results in this report apply to the samples analyzed in accordance with the chain of custody document.  
This analytical report must be reproduced in its entirety.

**NORTH CREEK ANALYTICAL Inc.**  
Scott L. Armand  
Laboratory Manager

505022.BIS &lt;2&gt;

Blison Environmental Resources  
107 South Cedar St.  
Spokane, WA 99204-0625  
Attention: Dave Enos

Client Project ID: Tonasket School District UST

Sample Matrix: Soil

First Sample #: S505022-01

Received: May 11, 1995

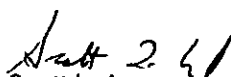
Reported: May 12-25, 1995

**TOTAL SOLIDS & MOISTURE CONTENT REPORT**

Sample Number	Sample Description	Total Solids %	Moisture Content %
S505022-01,2,3 composite	BR-SP-3,2,1 composite	91	9.0
S505022-04	BB-SP-A	92	8.0
S505022-05	BB-SP-B	91	9.0
S505022-06	BB-SP-C	94	6.0
S505022-07	UST-3/W5	92	8.0
S505022-08	UST3/M5	94	6.0
S505022-09	UST4/M8.5	94	6.0
S505022-10	UST4/SW8.5	95	5.0
S505022-11	UST3/S3	94	6.0
S505022-12	UST4/W8.5	93	7.0
S505022-13	UST3/E6	89	11

The enclosed analytical results for soils, sediments and sludges have been converted to a DRY WEIGHT reporting basis.

To attain the wet weight "as received" equivalent, multiply the dry weight result by the decimal fraction of percent Total Solids.

**NORTH CREEK ANALYTICAL Inc.**
  
Scott L. Armand  
Laboratory Manager

505022.BIS &lt;3&gt;

Bison Environmental Resources  
107 South Cedar St.  
Spokane, WA 99204-0625  
Attention: Dave EnosClient Project ID: Tonasket School District UST  
Sample Matrix: Soil  
First Sample #: S505022-14Received: May 11, 1995  
Reported: May 12-25, 1995**TOTAL SOLIDS & MOISTURE CONTENT REPORT**

Sample Number	Sample Description	Total Solids %	Moisture Content %
S505022-14	UST-1/AANW	92	8.0
S505022-15	UST-3/N3	94	6.0

To attain the wet weight "as received" equivalent, multiply the dry weight result by the decimal fraction of percent Total Solids.

NORTH CREEK ANALYTICAL Inc.

  
Scott L. Armand  
Laboratory Manager

505022.BIS &lt;4&gt;



Bison Environmental Resources	Client Project ID: Tonasket School District UST	Sampled: May 9/10, 1995
107 South Cedar St.	Sample Matrix: Soil	Received: May 11, 1995
Spokane, WA 99204-0625	Analysis Method: WTPH-G	Analyzed: May 11-12, 1995
Attention: Dave Enos	First Sample #: S505022-04	Reported: May 12, 1995

### TOTAL PETROLEUM HYDROCARBONS-GASOLINE RANGE

Sample Number	Sample Description	Sample Result mg/kg (ppm)	Surrogate Recovery %
S505022-04	BB-SP-A	41 G-2	S-2
S505022-05	BB-SP-B	67 G-2	S-2
S505022-06	BB-SP-C	307 G-2	S-2
BLK50512B	Method Blank	N.D.	110

#### Reporting Limits

1.0

4-Bromofluorobenzene surrogate recovery control limits are 50 - 150 %.

Volatile Total Petroleum Hydrocarbons are quantitated as Gasoline Range Organics (toluene - dodecane).

Analytes reported as N.D. were not detected above the stated Reporting Limit. The results reported above are on a dry weight basis.

**NORTH CREEK ANALYTICAL Inc.** Please Note:

G-2 = The chromatogram for this sample does not resemble a typical gasoline pattern.

Please refer to the sample chromatogram.

S-2 = The Surrogate Recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample.

*Scott L. Armand*  
Scott L. Armand  
Laboratory Manager

505022-BIG &lt;5&gt;

Bison Environmental Resources	Client Project ID: Tonasket School District UST	Sampled: May 9/10, 1995
107 South Cedar St.	Sample Matrix: Soil	Received: May 11, 1995
Spokane, WA 99204-0625	Analysis Method: WTPH-G	Analyzed: May 12, 15, 1995
Attention: Dave Enos	First Sample #: S505022-07	Reported: May 25, 1995

### TOTAL PETROLEUM HYDROCARBONS-GASOLINE RANGE

Sample Number	Sample Description	Sample Result mg/kg (ppm)	Surrogate Recovery %
S505022-07	UST-3/W5	N.D.	95
S505022-08	UST3/M5	N.D.	110
S505022-09	UST4/M8.5	2,600 G-2	S-2
S505022-10	UST4/SW8.5	7.6	100
S505022-11	UST3/S3	1.6	110
S505022-12	UST4/W8.5	19	93
S505022-13	UST3/E6	2.9	78
S505022-15	UST-3/N3	1.2	84
BLK50515B	Method Blank	N.D.	100

#### Reporting Limits

1.0

4-Bromofluorobenzene surrogate recovery control limits are 50 - 150 %.

Volatile Total Petroleum Hydrocarbons are quantitated as Gasoline Range Organics (toluene - dodecane).

Analytes reported as N.D. were not detected above the stated Reporting Limit. The results reported above are on a dry weight basis.

**NORTH CREEK ANALYTICAL Inc.** Please Note:

G-2 = The chromatogram for this sample does not resemble a typical gasoline pattern.

Please refer to the sample chromatogram.

S-2 = The Surrogate Recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample.

  
Scott L. Armand  
Laboratory Manager

505022-BIG &lt;6&gt;



18939 120th Avenue N.E., Suite 101 • Bothell, WA 98011-9508 (206) 481-9200 • FAX 485-2992  
East 11115 Montgomery, Suite B • Spokane, WA 99206-4776 (509) 924-9200 • FAX 924-9290  
9405 S.W. Nimbus Avenue • Beaverton, OR 97008-7132 (503) 643-9200 • FAX 644-2202

Bison Environmental Resources  
107 South Cedar St.  
Spokane, WA 99204-0625  
Attention: Dave Enos

Client Project ID: Tonasket School District UST  
Sample Matrix: Soil  
Analysis Method: WTPH-G  
Units: mg/kg (ppm)

Analyst: G. Holte

Analyzed: May 11, 1995  
Reported: May 12, 1995

## HYDROCARBON QUALITY CONTROL DATA REPORT

### ACCURACY ASSESSMENT Laboratory Control Sample

Gasoline

Spike Conc.  
Added: 2.00

Spike  
Result: 2.20

%  
Recovery: 110

Upper Control  
Limit %: 118

Lower Control  
Limit %: 47

### PRECISION ASSESSMENT Sample Duplicate

Gasoline Range  
Hydrocarbons

Sample  
Number: S505022-04

Original  
Result: 41.2

Duplicate  
Result: 63.0

Relative  
% Difference: 41.8

Maximum  
RPD: 62

NORTH CREEK ANALYTICAL Inc.

Scott L. Armand  
Laboratory Manager

% Recovery:  $\frac{\text{Spike Result}}{\text{Spike Concentration Added}} \times 100$

Relative % Difference:  $\frac{\text{Original Result} - \text{Duplicate Result}}{(\text{Original Result} + \text{Duplicate Result}) / 2} \times 100$

S05022.BIS <7>

Bison Environmental Resources  
107 South Cedar St.  
Spokane, WA 99204-0625  
Attention: Dave Enos

Client Project ID: Tonasket School District UST  
Sample Matrix: Soil  
Analysis Method: WTPH-G  
Units: mg/kg (ppm)

Analyst: G. Holte

Analyzed: May 15, 1995  
Reported: May 25, 1995

## HYDROCARBON QUALITY CONTROL DATA REPORT

### ACCURACY ASSESSMENT Laboratory Control Sample

Gasoline

Spike Conc.  
Added: 2.00

Spike  
Result: 2.26

%  
Recovery: 113

Upper Control  
Limit %: 118

Lower Control  
Limit %: 47

### PRECISION ASSESSMENT Sample Duplicate

Gasoline Range  
Hydrocarbons

Sample  
Number: S505022-15

Original  
Result: N.D.

Duplicate  
Result: N.D.

Relative % Difference: Relative Percent Difference values are not reported at sample concentration levels less than 10 times the Detection Limit.

Maximum  
RPD: 62

NORTH CREEK ANALYTICAL Inc.

% Recovery:  $\frac{\text{Spike Result}}{\text{Spike Concentration Added}} \times 100$ 

Relative % Difference:  $\frac{\text{Original Result} - \text{Duplicate Result}}{(\text{Original Result} + \text{Duplicate Result}) / 2} \times 100$ 
  
Scott L. Armand  
Laboratory Manager

S05022.BIS &lt;8&gt;

Bison Environmental Resources  
107 South Cedar St.  
Spokane, WA 99204-0625  
Attention: Dave Enos

Client Project ID: Tonasket School District UST  
Sample Matrix: Soil  
Analysis Method: EPA 8020  
First Sample #: S505022-04

Sampled: May 9/10, 1995  
Received: May 11, 1995  
Analyzed: May 11, 1995  
Reported: May 12, 1995

### BTEX DISTINCTION

Sample Number	Sample Description	Benzene mg/kg (ppm)	Toluene mg/kg (ppm)	Ethyl Benzene mg/kg (ppm)	Xylenes mg/kg (ppm)	Surrogate Recovery %
S505022-04	BB-SP-A	N.D.	0.060	N.D.	N.D.	96
S505022-05	BB-SP-B	N.D.	N.D.	N.D.	N.D.	S-2
S505022-06	BB-SP-C	N.D.	N.D.	N.D.	0.34	99
BLK50512B	Method Blank	N.D.	N.D.	N.D.	N.D.	82

Reporting Limits:	0.050	0.050	0.050	0.10
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4-Bromofluorobenzene surrogate recovery control limits are 49 - 136 %.  
Analytes reported as N.D. were not detected above the stated Reporting Limit.  
The results reported above are on a dry weight basis.

**NORTH CREEK ANALYTICAL Inc.** Please Note:

S-2 = The Surrogate Recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample.

*Scott L. Armand*  
Scott L. Armand  
Laboratory Manager

Blison Environmental Resources  
107 South Cedar St.  
Spokane, WA 99204-0625  
Attention: Dave Enos

Client Project ID: Tonasket School District UST  
Sample Matrix: Soil  
Analysis Method: EPA 8020  
First Sample #: S505022-07

Sampled: May 9/10, 1995  
Received: May 11, 1995  
Analyzed: May 12, 15, 1995  
Reported: May 25, 1995

### BTEX DISTINCTION

Sample Number	Sample Description	Benzene mg/kg (ppm)	Toluene mg/kg (ppm)	Ethyl Benzene mg/kg (ppm)	Xylenes mg/kg (ppm)	Surrogate Recovery %
S505022-07	UST-3/W5	N.D.	N.D.	N.D.	N.D.	71
S505022-08	UST3/M5	N.D.	N.D.	N.D.	N.D.	84
S505022-09	UST4/M8.5	N.D.	N.D.	N.D.	N.D.	S-2
S505022-10	UST4/SW8.5	N.D.	N.D.	N.D.	N.D.	77
S505022-11	UST3/S3	N.D.	N.D.	N.D.	N.D.	83
S505022-12	UST4/W8.5	N.D.	N.D.	N.D.	N.D.	71
S505022-13	UST3/E6	N.D.	N.D.	N.D.	N.D.	59
S505022-15	UST-3/N3	N.D.	N.D.	N.D.	N.D.	84
BLK50515B	Method Blank	N.D.	N.D.	N.D.	N.D.	80

<b>Reporting Limits:</b>	<b>0.050</b>	<b>0.050</b>	<b>0.050</b>	<b>0.10</b>
--------------------------	--------------	--------------	--------------	-------------

4-Bromofluorobenzene surrogate recovery control limits are 49 - 136 %.  
Analytes reported as N.D. were not detected above the stated Reporting Limit.  
The results reported above are on a dry weight basis.

**NORTH CREEK ANALYTICAL Inc.** Please Note:

S-2 = The Surrogate Recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample.  
Reporting Limit is 0.50 ppm for benzene, toluene, and ethylbenzene; and 1.00 ppm for xylenes for sample # S505022-09

*Scott L. Armand*  
Scott L. Armand  
Laboratory Manager

S505022.BIS <10>

Bison Environmental Resources  
107 South Cedar St.  
Spokane, WA 99204-0625  
Attention: Dave Enos

Client Project ID: Tonasket School District UST  
Sample Matrix: Soil  
Analysis Method: EPA 8020  
Units: mg/kg (ppm)  
QC Sample #: BS50511

Analyst: G. Holte

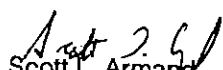
Analyzed: May 11, 1995  
Reported: May 15, 1995

## BLANK SPIKE QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl Benzene	Xylenes
Sample Result:	N.D.	N.D.	N.D.	N.D.
Spike Conc. Added:	.50	.50	.50	1.50
Spike Result:	0.51	0.55	0.56	1.70
Spike % Recovery:	102%	110%	112%	113%
Spike Dup. Result:	0.43	0.50	0.50	1.53
Spike Duplicate % Recovery:	86%	100%	100%	102%
Upper Control Limit %:	108	111	123	122
Lower Control Limit %:	62	68	71	72
Relative % Difference:	17.0%	9.1%	10.7%	11.1%
Maximum RPD:	14	13	16	15

NORTH CREEK ANALYTICAL Inc.

% Recovery:	$\frac{\text{Spike Result} - \text{Sample Result}}{\text{Spike Conc. Added}} \times 100$
Relative % Difference:	$\frac{\text{Spike Result} - \text{Spike Dup. Result}}{(\text{Spike Result} + \text{Spike Dup. Result}) / 2} \times 100$

  
Scott L. Armand  
Laboratory Manager

Bison Environmental Resources  
107 South Cedar St.  
Spokane, WA 99204-0625  
Attention: Dave Enos

Client Project ID: Tonasket School District UST  
Sample Matrix: Soil  
Analysis Method: EPA 8020  
Units: mg/kg (ppm)  
QC Sample #: S505022-15

Analyst: G. Holte

Analyzed: May 15, 1995  
Reported: May 25, 1995

### MATRIX SPIKE QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl Benzene	Xylenes
Sample Result:	N.D.	N.D.	N.D.	N.D.
Spike Conc. Added:	0.50	0.50	0.50	1.50
Spike Result:	0.42	0.47	0.54	1.67
Spike % Recovery:	84%	94%	108%	111%
Spike Dup. Result:	0.42	0.47	0.54	1.66
Spike Duplicate % Recovery:	84%	94%	108%	111%
Upper Control Limit %:	108	111	123	122
Lower Control Limit %:	62	68	71	72
Relative % Difference:	0.0%	0.0%	0.0%	0.6%
Maximum RPD:	14	13	16	15

NORTH CREEK ANALYTICAL Inc.

% Recovery:	$\frac{\text{Spike Result} - \text{Sample Result}}{\text{Spike Conc. Added}} \times 100$
Relative % Difference:	$\frac{\text{Spike Result} - \text{Spike Dup. Result}}{(\text{Spike Result} + \text{Spike Dup. Result}) / 2} \times 100$

*Scott L. Armand*  
Scott L. Armand  
Laboratory Manager



Bison Environmental Resources	Client Project ID: Tonasket School District UST	Sampled: May 8, 1995
107 South Cedar St.	Sample Matrix: Soil	Received: May 11, 1995
Spokane, WA 99204-0625	Analysis Method: WTPH-D Extended	Extracted: May 15, 1995
Attention: Dave Enos	First Sample #: S505022-14	Analyzed: May 16, 1995
		Reported: May 18, 1995

### TOTAL PETROLEUM HYDROCARBONS - DIESEL RANGE EXTENDED

Sample Number	Sample Description	Diesel Result mg/kg (ppm)	Heavy Oil Result mg/kg (ppm)	Surrogate Recovery %
S505022-14	UST-1/11NW	90	234	59
BLK50515A	Method Blank	N.D.	N.D.	120

Reporting Limit:	10	25
------------------	----	----

2-Fluorobiphenyl Surrogate Recovery Control Limits are 50 - 150%.

Extractable Hydrocarbons are quantitated as Diesel Range Organics (C12 - C24) and Heavy Oil Range Organics (> C24).

Analytes reported as N.D. were not detected above the stated Reporting Limit. The results reported above are on a dry weight basis.

**NORTH CREEK ANALYTICAL Inc.**

*Scott L. Armand*  
Scott L. Armand  
Laboratory Manager

505022.BIS <13>

Bison Environmental Resources  
107 South Cedar St.  
Spokane, WA 99204-0625  
Attention: Dave Enos

Client Project ID: Tonasket School District UST  
Sample Matrix: Soil  
Analysis Method: WTPH-D  
Units: mg/kg (ppm)

Analyst: D.Risk  
Extracted: May 15, 1995  
Analyzed: May 16, 1995  
Reported: May 18, 1995

## HYDROCARBON QUALITY CONTROL DATA REPORT

### ACCURACY ASSESSMENT Laboratory Control Sample

Diesel

Spike Conc.  
Added: 167

Spike  
Result: 196

%  
Recovery: 117

Upper Control  
Limit %: 125

Lower Control  
Limit %: 72

### PRECISION ASSESSMENT Sample Duplicate

Diesel Range  
Hydrocarbons

Sample  
Number: S505032-03

Original  
Result: 1140

Duplicate  
Result: 861

Relative  
% Difference: 27.5

Maximum  
RPD: 42

NORTH CREEK ANALYTICAL Inc

*Scott L. Armand*  
Scott L. Armand  
Laboratory Manager

% Recovery:	$\frac{\text{Spike Result}}{\text{Spike Concentration Added}} \times 100$	
Relative % Difference:	$\frac{\text{Original Result} - \text{Duplicate Result}}{(\text{Original Result} + \text{Duplicate Result}) / 2} \times 100$	

505022.B1S &lt;14&gt;


Bison Environmental Resources  
107 South Cedar St.  
Spokane, WA 99204-0625  
Attention: Dave EnosClient Project ID: Tonasket School District UST  
Sample Matrix: Soil  
Analysis Method: WTPH-418.1  
First Sample #: S505022-01,2,3  
compositeSampled: May 8, 1995  
Received: May 11, 1995  
Extracted: May 11, 1995  
Analyzed: May 11, 1995  
Reported: May 18, 1995**TOTAL PETROLEUM HYDROCARBONS-OIL RANGE**

Sample Number	Sample Description	Sample Result mg/kg (ppm)
S505022-01,2,3 composite	BR-SP-3,2,1 composite	208
BLK50511A	Method Blank	N.D.

Reporting Limit:	100
------------------	-----

Analytes reported as N.D. were not detected above the stated Reporting Limit.  
The results reported above are on a dry weight basis.

NORTH CREEK ANALYTICAL Inc.

  
Scott L. Armand  
Laboratory Manager

Blson Environmental Resources  
107 South Cedar St.  
Spokane, WA 99204-0625  
Attention: Dave Enos

Client Project ID: Tonasket School District UST  
Sample Matrix: Soil  
Analysis Method: WTPH-418.1  
Units: mg/kg (ppm)

Analyst: L. Hagel

Extracted: May 11, 1995  
Analyzed: May 11, 1995  
Reported: May 18, 1995

## HYDROCARBON QUALITY CONTROL DATA REPORT

### ACCURACY ASSESSMENT Laboratory Control Sample

Petroleum  
Oil

Spike Conc.  
Added: 138

Spike  
Result: 127

%  
Recovery: 92.0

Upper Control  
Limit %: 145

Lower Control  
Limit %: 67

### PRECISION ASSESSMENT Sample Duplicate

Petroleum  
Oil

Sample  
Number: S505022-01

Original  
Result: 208

Duplicate  
Result: 251

Relative  
% Difference: 18.7

Maximum  
RPD: 40

NORTH CREEK ANALYTICAL Inc.

% Recovery:  $\frac{\text{Spike Result}}{\text{Spike Concentration Added}} \times 100$ 

Relative % Difference:  $\frac{\text{Original Result} - \text{Duplicate Result}}{(\text{Original Result} + \text{Duplicate Result}) / 2} \times 100$ 
*Ant 261*  
Scott L. Armand  
Laboratory Manager

505022.B15 &lt;16&gt;



18939 120th Avenue N.E., Suite 101 • Bothell, WA 98011-9508 (206) 481-9200 • FAX 485-2992  
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Blison Environmental Resources  
107 South Cedar St.  
Spokane, WA 99204-0625  
Attention: Dave Enos

Client Project ID: Tonasket School District UST  
Sample Matrix: Soil  
Analysis Method: EPA  
First Sample #: S505022-04

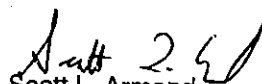
Sampled: May 10, 1995  
Received: May 11, 1995  
Digested: May 12, 1995  
Analyzed: May 12, 1995  
Reported: May 15, 1995

### METALS ANALYSIS FOR: TCLP LEAD

Sample Number	Sample Description	Reporting Limit mg/kg (ppm)	Sample Result mg/kg (ppm)
S505022-04	BB-SP-A	0.50	N.D.
S505022-05	BB-SP-B	0.50	N.D.
S505022-06	BB-SP-C	0.50	N.D.
BLK50512A	Method Blank	0.50	N.D.

Analytes reported as N.D. were not detected above the stated Reporting Limit.  
The results reported above are on a dry weight basis.

NORTH CREEK ANALYTICAL Inc.

  
Scott L. Armand  
Laboratory Manager

505022.BIS <17>



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Bison Environmental Resources  
107 South Cedar St.  
Spokane, WA 99204-0625  
Attention: Dave Enos

Client Project ID: Tonasket School District UST  
Sample Matrix: TCLP Extract  
Units: mg/L (ppm)

Analyst: G. Holte

TCLP Ext.: May 11, 1995  
Reported: May 15, 1995

## TCLP METALS QUALITY CONTROL DATA REPORT

### ANALYTE

Pb

EPA Method: 1311/7420  
Date Analyzed: May 12, 1995

### ACCURACY ASSESSMENT

LCS Spike  
Conc. Added: 10.0

LCS Spike  
Result: 9.28

LCS Spike  
% Recovery: 92.8

Upper Control  
Limit: 120

Lower Control  
Limit: 70

Matrix Spike  
Sample #: S505022-06

Matrix Spike  
% Recovery: 91.3

### PRECISION ASSESSMENT

Sample #: S505022-06

Original: N.D.

Duplicate: N.D.

Relative %  
Difference: RPD values are not reported at sample concentration levels < 10 X the Reporting Limit.

NORTH CREEK ANALYTICAL Inc.

Lab Control Sample	Conc. of L.C.S.	x 100
% Recovery:	L.C.S. Spike Conc. Added	
Relative % Difference:	Original Result - Duplicate Result	x 100
	(Original Result + Duplicate Result) / 2	

*Scott L. Armand*  
Scott L. Armand  
Laboratory Manager

S505022.B1S <18>

Bison Environmental Resources 107 South Cedar St. Spokane, WA 99204-0625 Attention: Dave Enos	Client Project ID: Tonasket School District UST Sample Matrix: Soil Analysis Method: EPA First Sample #: S505022-07	Sampled: May 9, 1995 Received: May 11, 1995 Digested: May 19, 1995 Analyzed: May 19, 1995 Reported: May 25, 1995
--	--	--

### METALS ANALYSIS FOR: TOTAL LEAD

Sample Number	Sample Description	Reporting Limit mg/kg (ppm)	Sample Result mg/kg (ppm)
S505022-07	UST-3/W5	10	N.D.
S505022-08	UST3/M5	10	N.D.
S505022-09	UST4/M8.5	10	N.D.
S505022-10	UST4/SW8.5	10	N.D.
S505022-11	UST3/S3	10	N.D.
S505022-12	UST4/W8.5	10	N.D.
S505022-13	UST3/E6	10	44
S505022-15	UST-3/N3	10	11
BLK50519A	Method Blank	10	N.D.

Analytes reported as N.D. were not detected above the stated Reporting Limit.  
The results reported above are on a dry weight basis.

**NORTH CREEK ANALYTICAL Inc.**

*Scott L. Armand*  
Scott L. Armand  
Laboratory Manager

505022.BIS <19>



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Bison Environmental Resources  
107 South Cedar St.  
Spokane, WA 99204-0625  
Attention: Dave Enos

Client Project ID: Tonasket School District UST  
Sample Matrix: Soil  
Units: mg/kg (ppm)

Analyst: G. Holte

Digested: May 23, 1995  
Reported: May 25, 1995

## METALS QUALITY CONTROL DATA REPORT

### ANALYTE

Pb

EPA Method: 7420  
Date Analyzed: May 24, 1995

### ACCURACY ASSESSMENT

LCS Spike  
Conc. Added: 10.0

LCS Spike  
Result: 10.0

LCS Spike  
% Recovery: 100

Upper Control  
Limit: 120

Lower Control  
Limit: 70

Matrix Spike  
Sample #: S505022-15

Matrix Spike  
% Recovery: 96.1

### PRECISION ASSESSMENT

Sample #: S505022-15

Original: N.D.

Duplicate: N.D.

Relative %  
Difference: RPD values are not reported at sample concentration levels < 10 X the Reporting Limit.

NORTH CREEK ANALYTICAL Inc.

Lab Control Sample	Conc. of L.C.S.	x 100
% Recovery:	L.C.S. Spike Conc. Added	
Relative % Difference:	Original Result - Duplicate Result	x 100
	(Original Result + Duplicate Result) / 2	

Scott L. Armand  
Laboratory Manager

505022.BIS <20>



Bison Environmental Resources 107 South Cedar St. Spokane, WA 99204-0625 Attention: Dave Enos	Client Project ID: Tonasket School District UST Sample Matrix: Soil Analysis Method: WTPH-D First Sample #: S505022-09	Sampled: May 9, 1995 Relogged: May 18, 1995 Extracted: May 19, 1995 Analyzed: May 19-20, 1995 Reported: May 25, 1995
--	---	--

### TOTAL PETROLEUM HYDROCARBONS-DIESEL RANGE

Sample Number	Sample Description	Sample Result mg/kg (ppm)	Surrogate Recovery %
S505022-09	UST4/M8.5	4,000 D-1	S-2
BLK50519A	Method Blank	N.D.	86

<b>Reporting Limit:</b>	<b>10</b>
-------------------------	-----------

2-Fluorobiphenyl surrogate recovery control limits are 50 - 150 %.

Extractable Total Petroleum Hydrocarbons are quantitated as Diesel Range Organics (C12 - C24).

Analytes reported as N.D. were not detected above the stated Reporting Limit. The results reported above are on a dry weight basis.

**NORTH CREEK ANALYTICAL Inc.** Please Note:

D-1: This sample appears to contain volatile gasoline range organics.

*Scott L. Armand*  
**Scott L. Armand**  
Laboratory Manager

S505022.BIS <21>

Blson Environmental Resources  
107 South Cedar St.  
Spokane, WA 99204-0625  
Attention: Dave Enos

Client Project ID: Tonasket School District UST

Sample Matrix: Soil  
Analysis Method: WTPH-D  
Units: mg/kg (ppm)

Analyst: D.Rlsk

Extracted: May 19, 1995  
Analyzed: May 19-20, 1995  
Reported: May 25, 1995

## HYDROCARBON QUALITY CONTROL DATA REPORT

### ACCURACY ASSESSMENT Laboratory Control Sample

Diesel

### PRECISION ASSESSMENT Sample Duplicate

Diesel Range  
Hydrocarbons

Spike Conc.  
Added: 167

Spike  
Result: 150

%  
Recovery: 90.1

Upper Control  
Limit %: 125

Lower Control  
Limit %: 72

Sample  
Number: S505034-02

Original  
Result: N.D.

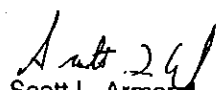
Duplicate  
Result: N.D.

Relative % Difference Relative Percent Difference values are not reported at sample concentration levels less than 10 times the Detection Limit.

Maximum  
RPD: 42

NORTH CREEK ANALYTICAL Inc

% Recovery:  $\frac{\text{Spike Result}}{\text{Spike Concentration Added}} \times 100$ 

Relative % Difference:  $\frac{\text{Original Result} - \text{Duplicate Result}}{(\text{Original Result} + \text{Duplicate Result}) / 2} \times 100$ 
  
Scott L. Armano  
Laboratory Manager

505022.BIS &lt;22&gt;



NORTH  
CREEK  
ANALYTICAL

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9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132 (503) 643-9200 FAX 644-2202

## CHAIN OF CUSTODY REPORT

CLIENT: BISON ENVIRONMENTAL		REPORT TO: Dave ENOS		TURNAROUND REQUEST in Business Days *	
ADDRESS: 5167 Cedar Spokane WA		BILLING TO: TSD		Organic & Inorganic Analyses <input type="checkbox"/> 10 <input type="checkbox"/> 5 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> 1	
PHONE: 624-4341 FAX: 624-4358		P.O. NUMBER:		(Please Select One) Fuels & Hydrocarbon Analyses <input type="checkbox"/> 5 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> 1	
PROJECT NAME: TONASSET SCHOOL DISTRICT		NCA QUOTE #:		* Turnaround Requests less than standard will incur Rush Charges.	
PROJECT NUMBER:		Analysis Request:		FAX RESULTS BY:	
SAMPLED BY: D. ENOS		WTPH-5/GTEx		COMMENTS & PRESERVATIVES USED	
SAMPLE IDENTIFICATION: (NUMBER OR DESCRIPTION)		SAMPLING DATE / TIME		MATRIX (W.S.O.)	
# OF. CONT.					
1. BR-SP-3		5-10-95/09:44		S	
2. BR-SP-2		31/09:42		S	
3. BR-SP-1		09:39		S	
4. BB-SP-A		09:55		S	
5. BB-SP-B		09:55		S	
6. BB-SP-C		09:56		S	
7. UST-3/WS'		5-9-95/10:50		S	
8. UST-3/MS		" / 11:10		S	
9. UST-4/MS		/ 13:50		S	
10. UST-4/WS		/ 14:07		S	
RELINQUISHED BY: Dave ENOS		DATE: 5-10-95		RECEIVED BY: George D. Bion	
PRINT NAME: Dave ENOS		FIRM: BISON		PRINT NAME: George D. Bion	
RELINQUISHED BY: George D. Bion		DATE: 5-10-95		RECEIVED BY: Dave ENOS	
PRINT NAME: George D. Bion		FIRM: BISON		PRINT NAME: Dave ENOS	
ADDITIONAL REMARKS:		FAX VREQ. 5-10-95		DATE: 5-11-95	
				TIME: 9:45	
				PAGE 1 OF 2	



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Bison Environmental Resources  
107 South Cedar St.  
Spokane, WA 99204-0625  
Attention: Dave Enos

Project Name: Tonasket School District  
Client Project #: None Given  
NCA Project #: S505034

Received: May 15, 1995  
Reported: May 23, 1995

### PROJECT SUMMARY PAGE

Laboratory Sample Number	Sample Description	Sample Matrix	Date Sampled
S505034-01	UST1/NW17'	Soil	5/11/95
S505034-02	UST1/S17'	Soil	5/11/95
S505034-03	UST1/23'S	Soil	5/11/95
S505034-04	UST1/ME17'	Soil	5/11/95
S505034-05	UST1/S22'	Soil	5/11/95
S505034-06	UST1/FP	Soil	5/12/95
S505034-07	UST4/E8	Soil	5/12/95
S505034-08	UST1/MC19'	Soil	5/11/95
S505034-09	UST4/N3.5	Soil	5/12/95
S505034-10	UST1/PL	Soil	5/12/95

The results in this report apply to the samples analyzed in accordance with the chain of custody document.  
This analytical report must be reproduced in its entirety.

NORTH CREEK ANALYTICAL Inc.

*Scott L. Armand*  
Scott L. Armand  
Laboratory Manager

S505034.BIS <1>

Bison Environmental Resources Client Project ID: Tonasket School District  
107 South Cedar St. Sample Matrix: Soil  
Spokane, WA 99204-0625  
Attention: Dave Enos First Sample #: S505034-01

Received: May 15, 1995  
Reported: May 23, 1995

**TOTAL SOLIDS & MOISTURE CONTENT REPORT**

Sample Number	Sample Description	Total Solids %	Moisture Content %
S505034-01	UST1/NW17'	97	3.0
S505034-02	UST1/S17'	98	2.0
S505034-03	UST1/23'S	94	6.0
S505034-04	UST1/ME17'	84	16
S505034-05	UST1/S22'	95	5.0
S505034-06	UST1/FP	98	2.0
S505034-07	UST4/E8	94	6.0
S505034-08	UST1/MC19'	95	5.0
S505034-09	UST4/N3.5	90	10
S505034-10	UST1/PL	74	26

The enclosed analytical results for soils, sediments and sludges have been converted to a DRY WEIGHT reporting basis.  
To attain the wet weight "as received" equivalent, multiply the dry weight result by the decimal fraction of percent Total Solids.

**NORTH CREEK ANALYTICAL Inc.**

*Scott L. Armand*  
Scott L. Armand  
Laboratory Manager

505034.BIS &lt;2&gt;

Bison Environmental Resources	Client Project ID: Tonasket School District	Sampled: May 12, 1995
107 South Cedar St.	Sample Matrix: Soil	Received: May 15, 1995
Spokane, WA 99204-0625	Analysis Method: WTPH-G	Analyzed: May 22, 1995
Attention: Dave Enos	First Sample #: S505034-07	Reported: May 23, 1995

**TOTAL PETROLEUM HYDROCARBONS-GASOLINE RANGE**

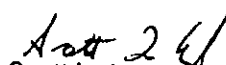
Sample Number	Sample Description	Sample Result mg/kg (ppm)	Surrogate Recovery %
S505034-07	UST4/E8	4.8	80
S505034-09	UST4/N3.5	1.4	78
BLK50522A	Method Blank	N.D.	95

**Reporting Limits****1.0**

4-Bromofluorobenzene surrogate recovery control limits are 50 - 150 %.

Volatile Total Petroleum Hydrocarbons are quantitated as Gasoline Range Organics (toluene - dodecane).

Analytes reported as N.D. were not detected above the stated Reporting Limit. The results reported above are on a dry weight basis.

**NORTH CREEK ANALYTICAL Inc.**  
Scott L. Armand  
Laboratory Manager

505034.BIS &lt;3&gt;

Bison Environmental Resources  
107 South Cedar St.  
Spokane, WA 99204-0625  
Attention: Dave Enos

Client Project ID: Tonasket School District  
Sample Matrix: Soil  
Analysis Method: WTPH-G  
Units: mg/kg (ppm)

Analyst: G. Holte

Analyzed: May 22, 1995  
Reported: May 23, 1995

## HYDROCARBON QUALITY CONTROL DATA REPORT

### ACCURACY ASSESSMENT Laboratory Control Sample

Gasoline

Spike Conc.  
Added: 2.00

Spike  
Result: 2.00

%  
Recovery: 100

Upper Control  
Limit %: 118

Lower Control  
Limit %: 47

### PRECISION ASSESSMENT Sample Duplicate

Gasoline Range  
Hydrocarbons

Sample  
Number: S505034-01

Original  
Result: 1.36

Duplicate  
Result: 2.72

**Relative % Difference** Relative Percent Difference values are not reported at sample concentration levels less than 10 times the Detection Limit.

Maximum  
RPD: 62

NORTH CREEK ANALYTICAL Inc.

% Recovery:  $\frac{\text{Spike Result}}{\text{Spike Concentration Added}} \times 100$ 

Relative % Difference:  $\frac{\text{Original Result} - \text{Duplicate Result}}{(\text{Original Result} + \text{Duplicate Result}) / 2} \times 100$ 
*Scott L. Armand*  
Scott L. Armand  
Laboratory Manager

505034.B1S &lt;4&gt;

Bison Environmental Resources	Client Project ID: Tonasket School District	Sampled: May 12, 1995
107 South Cedar St.	Sample Matrix: Soil	Received: May 15, 1995
Spokane, WA 99204-0625	Analysis Method: EPA 8020	Analyzed: May 22, 1995
Attention: Dave Enos	First Sample #: S505034-07	Reported: May 23, 1995

### BTEX DISTINCTION

Sample Number	Sample Description	Benzene mg/kg (ppm)	Toluene mg/kg (ppm)	Ethyl Benzene mg/kg (ppm)	Xylenes mg/kg (ppm)	Surrogate Recovery %
S505034-07	UST4/E8	0.060	0.44	0.090	N.D.	89
S505034-09	UST4/N3.5	N.D.	N.D.	N.D.	N.D.	110
BLK5022A	Method Blank	N.D.	N.D.	N.D.	N.D.	110

<b>Reporting Limits:</b>	<b>0.050</b>	<b>0.050</b>	<b>0.050</b>	<b>0.10</b>
--------------------------	--------------	--------------	--------------	-------------

4-Bromofluorobenzene surrogate recovery control limits are 49 - 136 %.  
Analytes reported as N.D. were not detected above the stated Reporting Limit.  
The results reported above are on a dry weight basis.

**NORTH CREEK ANALYTICAL Inc.**

*Scott L. Armand*  
Scott L. Armand  
Laboratory Manager

505034.BIS <5>



Bison Environmental Resources  
107 South Cedar St.  
Spokane, WA 99204-0625  
Attention: Dave Enos

Client Project ID: Tonasket School District  
Sample Matrix: Soil  
Analysis Method: EPA 8020  
Units: mg/kg (ppm)  
QC Sample #: S505034-09

Analyst: G. Holte

Analyzed: May 22, 1995  
Reported: May 23, 1995

### MATRIX SPIKE QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl Benzene	Xylenes
Sample Result:	N.D.	N.D.	N.D.	N.D.
Spike Conc. Added:	0.50	0.50	0.50	1.50
Spike Result:	0.54	0.48	0.48	1.47
Spike % Recovery:	108%	96%	96%	98%
Spike Dup. Result:	0.52	0.45	0.46	1.38
Spike Duplicate % Recovery:	104%	90%	92%	92%
Upper Control Limit %:	108	111	123	122
Lower Control Limit %:	62	68	71	72
Relative % Difference:	3.8%	6.5%	4.3%	6.3%
Maximum RPD:	14	13	16	15

NORTH CREEK ANALYTICAL Inc.

$$\% \text{ Recovery} = \frac{\text{Spike Result} - \text{Sample Result}}{\text{Spike Conc. Added}} \times 100$$

$$\text{Relative \% Difference} = \frac{\text{Spike Result} - \text{Spike Dup. Result}}{(\text{Spike Result} + \text{Spike Dup. Result}) / 2} \times 100$$

505034.BIS &lt;6&gt;

*Lab 24*  
Scott L. Armand  
Laboratory Manager

Bison Environmental Resources  
107 South Cedar St.  
Spokane, WA 99204-0625  
Attention: Dave Enos

Client Project ID: Tonasket School District  
Sample Matrix: Soil  
Analysis Method: WTPH-D Extended  
First Sample #: S505034-01

Sampled: May 11/12, 1995  
Received: May 15, 1995  
Extracted: May 19, 1995  
Analyzed: May 19-20, 1995  
Reported: May 20, 1995

### TOTAL PETROLEUM HYDROCARBONS - DIESEL RANGE EXTENDED

Sample Number	Sample Description	Diesel Result mg/kg (ppm)	Heavy Oil Result mg/kg (ppm)	Surrogate Recovery %
S505034-01	UST1/NW17'	N.D.	N.D.	88
S505034-02	UST1/S17'	N.D.	N.D.	100
S505034-03	UST1/23'S	6,800	7,100	S-1
S505034-04	UST1/ME17'	N.D.	N.D.	94
S505034-05	UST1/S22'	14,000	18,000	100
S505034-06	UST1/FP	N.D.	N.D.	86
S505034-08	UST1/MC19	15	42	91
S505034-10	UST1/PL	N.D.	N.D.	83
BLK50519A	Method Blank	N.D.	N.D.	86

Reporting Limit:

10

25

2-Fluorobiphenyl Surrogate Recovery Control Limits are 50 - 150%.

Extractable Hydrocarbons are quantitated as Diesel Range Organics (C12 - C24) and Heavy Oil Range Organics (>C24).

Analytes reported as N.D. were not detected above the stated Reporting Limit. The results reported above are on a dry weight basis.

NORTH CREEK ANALYTICAL Inc. Please Note:

S-1. The Surrogate Recovery for this sample is not available due to sample dilution required from high analyte concentration or matrix interference.

*Scott L. Armand*  
Scott L. Armand  
Laboratory Manager

S505034.B1S <7>

Bison Environmental Resources  
107 South Cedar St.  
Spokane, WA 99204-0625  
Attention: Dave Enos

Client Project ID: Tonasket School District  
Sample Matrix: Soil  
Analysis Method: WTPH-D  
Units: mg/kg (ppm)

Analyst: D.Risk  
Extracted: May 19, 1995  
Analyzed: May 19, 1995  
Reported: May 23, 1995

## HYDROCARBON QUALITY CONTROL DATA REPORT

### ACCURACY ASSESSMENT Laboratory Control Sample

Diesel

Spike Conc.  
Added: 167

Spike  
Result: 150

%  
Recovery: 90.1

Upper Control  
Limit %: 125

Lower Control  
Limit %: 72

### PRECISION ASSESSMENT Sample Duplicate

Diesel Range  
Hydrocarbons

Sample  
Number: S504034-01

Original  
Result: N.D.

Duplicate  
Result: N.D.

**Relative % Difference** Relative Percent Difference values are not reported at sample concentration levels less than 10 times the Detection Limit.

Maximum  
RPD: 42

NORTH CREEK ANALYTICAL Inc

% Recovery:  $\frac{\text{Spike Result}}{\text{Spike Concentration Added}} \times 100$

Relative % Difference:  $\frac{\text{Original Result} - \text{Duplicate Result}}{(\text{Original Result} + \text{Duplicate Result}) / 2} \times 100$

  
Scott L. Armano  
Laboratory Manager

505034.B15 &lt;8&gt;



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9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132 (503) 643-9200 FAX 644-2202

## CHAIN OF CUSTODY REPORT

CLIENT: <u>BISON</u>		REPORT TO: <u>BISON</u>		TURNAROUND REQUEST in Business Days *	
ADDRESS: <u>5107 Cedar</u> <u>Spokane, WA</u>		BILLING TO: <u>TSD</u>		Organic & Inorganic Analyses	
PHONE: <u>509-624-4341</u>		P.O. NUMBER: <u>PO BOX 468</u>		<input type="checkbox"/> 10 <input type="checkbox"/> 5 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1	
FAX: <u>509-624-4358</u>		NCA QUOTE #: <u>98855</u>		(Please Select One)	
PROJECT NAME: <u>TSD (TOWNSHIP SCHOOL DISTRICT)</u>		Analysis		Fuels & Hydrocarbon Analyses	
PROJECT NUMBER: <u>UNDERGROUND STORAGE TANK</u>		Request:		<input checked="" type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1	
SAMPLED BY: <u>D. ENOS</u>		Request:		* Turnaround Requests less than standard will incur Rush Charges.	
SAMPLE IDENTIFICATION:		COMMENTS & PRESERVATIVES USED		FAX RESULTS BY :	
(NUMBER OR DESCRIPTION)	SAMPLING DATE / TIME	MATRIX (W.S.O)	# OF CONT.	NCA SAMPLE NUMBER	
1. <u>UST1/WV17'</u>	<u>5-11-5/13:05</u>	<u>S</u>	<u>1</u>	<u>SSDS034-01</u>	
2. <u>UST1/S17'</u>	<u>5-11-5/08:50</u>	<u>S</u>	<u>1</u>	<u>-02</u>	
3. <u>UST1/23'S</u>	<u>5-11-5/15:00</u>	<u>S</u>	<u>1</u>	<u>-03</u>	
4. <u>UST1/ME17'</u>	<u>5-11-5/13:15</u>	<u>S</u>	<u>1</u>	<u>04</u>	
5. <u>UST1/S22'</u>	<u>5-11-5/14:41</u>	<u>S</u>	<u>1</u>	<u>-05</u>	
6. <u>UST1/FP</u>	<u>5-12-5/19:11</u>	<u>S</u>	<u>1</u>	<u>-06</u>	
7. <u>UST4/EE</u>	<u>5-12-5/15:08</u>	<u>S</u>	<u>1</u>	<u>-07</u>	
8. <u>UST1/MC19'</u>	<u>5-11-5/13:16</u>	<u>S</u>	<u>1</u>	<u>-08</u>	
9. <u>UST4/W3.5</u>	<u>5-12-5/15:11</u>	<u>S</u>	<u>1</u>	<u>-09</u>	
10. <u>UST1/PL</u>	<u>5-12-45/18:24</u>	<u>S</u>	<u>1</u>	<u>-10</u>	
RELINQUISHED BY: <u>[Signature]</u>		DATE: <u>5-15-95</u>		RECEIVED BY: <u>[Signature]</u>	
PRINT NAME: <u>DAVE ENOS</u>		FIRM: <u>BISON</u>		DATE: <u>5-15-95</u>	
RELINQUISHED BY:		DATE:		PRINT NAME: <u>Scott L. Aronow</u>	
PRINT NAME:		FIRM:		FIRM: <u>NCA</u>	
ADDITIONAL REMARKS: <u>PLEASE CONTACT DAVE ENOS IF HYDROCARBONS ELUTE OUTSIDE ANALYSIS RANGE</u>		DATE:		TIME: <u>15:33</u>	
TIME:		FIRM:		TIME: <u>15:27</u>	
PAGE: <u>1</u>		OF: <u>1</u>			

Bison Environmental Resources 107 South Cedar St. Spokane, WA 99204-0625 Attention: Dave Enos	Client Project ID: Tonasket School District UST Sample Matrix: Soil Analysis Method: WTPH-D First Sample #: S505022-09	Sampled: May 9, 1995 Relogged: May 18, 1995 Extracted: May 19, 1995 Analyzed: May 19-20, 1995 Reported: May 23, 1995
--	---	--

### TOTAL PETROLEUM HYDROCARBONS-DIESEL RANGE

Sample Number	Sample Description	Sample Result mg/kg (ppm)	Surrogate Recovery %
S505022-09	UST4/M8.5	4,000 D-1	S-2
BLK50519A	Method Blank	N.D.	86

<b>Reporting Limit:</b>	<b>10</b>
-------------------------	-----------

2-Fluorobiphenyl surrogate recovery control limits are 50 - 150 %.

Extractable Total Petroleum Hydrocarbons are quantitated as Diesel Range Organics (C12 - C24).

Analytes reported as N.D. were not detected above the stated Reporting Limit. The results reported above are on a dry weight basis.

**NORTH CREEK ANALYTICAL Inc.**

*Scott L. Armand*  
**Scott L. Armand**  
Laboratory Manager

S505022.BIS <19>



18939 120th Avenue N.E., Suite 101 • Bothell, WA 98011-9508 (206) 481-9200 • FAX 485-2992  
East 11115 Montgomery, Suite B • Spokane, WA 99206-4776 (509) 924-9200 • FAX 924-9290  
9405 S.W. Nimbus Avenue • Beaverton, OR 97008-7132 (503) 643-9200 • FAX 644-2202

Blson Environmental Resources  
107 South Cedar St.  
Spokane, WA 99204-0625  
Attention: Dave Enos

Client Project ID: Tonasket School District UST  
Sample Matrix: Soil  
Analysis Method: WTPH-D  
Units: mg/kg (ppm)

Analyst: D.Risk

Extracted: May 19, 1995  
Analyzed: May 19-20, 1995  
Reported: May 23, 1995

## HYDROCARBON QUALITY CONTROL DATA REPORT

### ACCURACY ASSESSMENT Laboratory Control Sample

Diesel

### PRECISION ASSESSMENT Sample Duplicate

Diesel Range  
Hydrocarbons

Spike Conc.  
Added:

167

Sample  
Number: S505034-02

Spike  
Result:

150

Original  
Result: N.D.

%  
Recovery:

90.1

Duplicate  
Result: N.D.

Upper Control  
Limit %:

125

Relative % Difference  
Relative Percent Difference values are not reported at sample concentration levels less than 10 times the Detection Limit.

Lower Control  
Limit %:

72

Maximum  
RPD: 42

NORTH CREEK ANALYTICAL Inc

% Recovery:  $\frac{\text{Spike Result}}{\text{Spike Concentration Added}} \times 100$

Relative % Difference:  $\frac{\text{Original Result} - \text{Duplicate Result}}{(\text{Original Result} + \text{Duplicate Result}) / 2} \times 100$

*Scott L. Armand*  
Scott L. Armand  
Laboratory Manager

S05022.BIS <20>

# CHAIN OF CUSTODY REPORT

CLIENT: BISON ENVIRONMENTAL		REPORT TO: Dave Ends Bison	
ADDRESS: 5167 Cedar Spokane WA		BILLING TO: TSD	
PHONE: 624-4341 FAX: 624-4358		P.O. NUMBER:	
PROJECT NAME: TONASSET SCHOOL DISTRICT		NCA QUOTE #:	
PROJECT NUMBER: 037		Analysis	
SAMPLED BY: D. ENDS		Request:	
SAMPLE IDENTIFICATION: (NUMBER OR DESCRIPTION)	SAMPLING DATE / TIME	MATRIX (W.S.O)	# OF CONT.
1. BR-SP-3	5-10-95/09:41	S	1
2. BR-SP-2	5/10/95/09:42	S	1
3. BR-SP-1	5/10/95/09:39	S	1
4. BB-SP-A	09:55	S	1
5. BB-SP-B	09:55	S	1
6. BB-SP-C	09:56	S	1
7. UST-3/WS'	5-9-95/10:50	S	1
8. UST-3/MS	" / 11:10	S	1
9. UST-4/MS	13:50	S	1
10. UST-4/WS	14:07	S	1
RELINQUISHED BY: Dave Ends		DATE: 5-10-95	
PRINT NAME: Dave Ends		FIRM: BISON	
RELINQUISHED BY: George D. Bison		DATE: 5-10-95	
PRINT NAME: George D. Bison		FIRM: M.W.M.M.C.	
ADDITIONAL REMARKS:		TIME: 10:30	

Bison Environmental Resources  
107 South Cedar St.  
Spokane, WA 99204-0625  
Attention: Dave Enos

Client Project ID: None Given  
Sample Matrix: Soil

First Sample #: S505035-01

Received: May 15, 1995  
Reported: May 17, 1995

### Weight per Volume Report

Sample Number	Sample Description	Weight/ Volume g/ml
---------------	--------------------	---------------------------

S505035-01A	UST1 STOCKPILE	1.6
-------------	----------------	-----

S505035-01B Duplicate	UST1 STOCKPILE	1.6
--------------------------	----------------	-----

$$\begin{aligned}
 & 1.35 \times 10^{-6} \text{ g/ml} \\
 & 1.3574 \times 10^{-6} \text{ g/ml} \\
 & = 1.35 \times 10^{-6} \text{ g/ml}
 \end{aligned}$$

The enclosed analytical results for soils, sediments and sludges have been converted to a DRY WEIGHT reporting basis.  
To attain the wet weight "as received" equivalent, multiply the dry weight result by the decimal fraction of percent Total Solids.

**NORTH CREEK ANALYTICAL Inc.**
  
Scott L. Armand  
Laboratory Manager

505035.BIS &lt;2&gt;



## **APPENDIX C**

### **Soil Disposal Receipts**



Profile #

## Waste Management of Greater Wenatchee

Regional Landfill and Transfer Station

(509) 662-4591

105453

Customer # 0325979 Unit # DT1 Date: 5-17 19 95

Name Ceeon

Address \_\_\_\_\_ City \_\_\_\_\_ Zip \_\_\_\_\_

[illegible]

**Driver's Signature**

Total



Profile 4

## Waste Management of Greater Wenatchee

### Regional Landfill and Transfer Station

(509) 662-4591

105451

Customer # 0325979 Unit # CATS + ECB Date 5-17 1995

Name Lecon

Address \_\_\_\_\_ City \_\_\_\_\_ Zip \_\_\_\_\_

[illegible]

Washington Refuse Tax  
Surcharge

4.6

Total

Driver's Signature \_\_\_\_\_



# Waste Management of Greater Wenatchee

Regional Landfill and Transfer Station

(509) 662-4591

105452

Profile #

397WMNA 9500107

Customer # 0325979

Unit #

404

Date 5-17

19 95

Name

Ceeon

Address

City

Zip

Location	Cashier		Cash				Charge	Time	Third Party			
Description	Total Yards	Gals	Unregulated Refuse				Regulated Refuse				Rate	Amount
			Compacted				Compacted					
			LS	RO	Res	Comm	LS	RO	Res	Comm		
P.C.S.	20											
W												
Washington Refuse Tax Surcharge											4.6	
Driver's Signature											Total	

Chuck Spear



# Waste Management of Greater Wenatchee

Regional Landfill and Transfer Station

(509) 662-4591

105454

Profile

397WMNA 9500107

Customer #

0325979

Unit #

404

Date

5-18 19 95

Name

Ceeon

Address

City

Zip

Location	Cashier		Cash				Charge	Time	Third Party			
Description	Total Yards	Gals	Unregulated Refuse				Regulated Refuse				Rate	Amount
			Compacted				Compacted					
			LS	RO	Res	Comm	LS	RO	Res	Comm		
P.C.S.	20											
W												
Washington Refuse Tax Surcharge											4.6	
Driver's Signature											Total	

Chuck Spear

[illegible]

Location		Cashier		Cash		Charge		Time		Third Party		
Description	Total Yards	Gals	Unregulated Refuse				Regulated Refuse				Rate	Amount
			LS	Compacted:			LS	Compacted				
				RO	Res	Comm		RO	Res	Comm		
PCS.	15											
Washington Refuse Tax Surchage											4.6	
Driver's Signature <i>Shirley S. Khan</i>											Total	

**Driver's Signature**



Profile #

Waste Management of Greater Wenatchee

105461

Regional Landfill and Transfer Station

397Wmna9500107

(509) 662-4591

Customer # 0325979 Unit #

Date 5-19

19 95

Name Cecon

Address

City

Zip

Location	Cashier		Cash		Charge		Time		Third Party			
Description	Total Yards	Gals	Unregulated Refuse				Regulated Refuse				Rate	Amount
			LS	Compacted			LS	Compacted				
				RO	Res	Comm		RO	Res	Comm		
PCS.	15											
CFE PCS. Washington Refuse Tax Surcharge 4.6												
Driver's Signature <i>[Signature]</i>											Total	



Profile #

Waste Management of Greater Wenatchee

105463

Regional Landfill and Transfer Station

397Wmna9500107

(509) 662-4591

Customer # 0325979 Unit #

41041

Date 5-19

19 95

Name

Address

City

Zip

Location	Cashier		Cash		Charge		Time		Third Party			
Description	Total Yards	Gals	Unregulated Refuse				Regulated Refuse				Rate	Amount
			LS	Compacted			LS	Compacted				
				RO	Res	Comm		RO	Res	Comm		
PCS.	20											
Washington Refuse Tax Surcharge 4.6												
Driver's Signature <i>[Signature]</i>											Total	

Profile #

## Waste Management of Greater Wenatchee

## Regional Landfill and Transfer Station

(509) 662-4591

105462

Customer # 0325474

Unit #

Date 3-17

19 75

Name Cecon

### Address

City\_

Zip.

Location	Cashier	Cash	Charge	Time	Third Party								
			x	7:30									
Description	Total Yards	Gals	Unregulated Refuse				Regulated Refuse				Rate	Amount	
			LS	Compacted		LS	Compacted						
				RO	Res		Comm	RO	Res	Comm			
P.C.S.	20												
						Washington Refuse Tax Surcharge						4.6	
Driver's Signature												Total	

**Driver's Signature**

Total



Profile

## Waste Management of Greater Wenatchee

### Regional Landfill and Transfer Station

(509) 662-4591

105464

Customer # 0325979 Unit #

Date 3-22

19 43

Name Leron

## Address

City\_

Zip

[illegible]

er's Signature

Washington Reluse Tax  
Surcharge

4.6

Total



## **APPENDIX D**

### **UST Cleaning and Disposal, UST Sludge Disposal Documentation**



Northwest Marine Chemist, Inc.

P.O. Box 7084

Tacoma, Washington 98407

(206) 752-0149

# MARINE CHEMIST CERTIFICATE

SERIAL NO. ST9521

CECON Corp.      Tonasket Schools      May 10, 1995  
Survey Requested by      Vessel Owner or Agent      Date  
TANK FARM      Underground Storage Tank      Tonasket School  
Vessel      Type of Vessel      Specific Location of Vessel  
Fuel Oil, Gasoline, Diesel      O2-Lvl      0850 Hrs.  
Last Three (3) Cargoes      Test Method      Time Survey Completed

1- 10,000 gal Tank } Not Safe For Workers (Secured)  
1- 500 gal Tank 1115 Hrs } SAFE For Hotwork  
1- 1,000 gal Tank 1130 Hrs }  
1- 2,000 gal Tank 1145 Hrs }

These Tanks have been purged with CO<sub>2</sub> to < 5% Oxygen, and ARE  
SAFE For cutting of access.

Cutting operations completed @ 1200 Hrs.

END-

In the event of any physical or atmospheric changes adversely affecting the STANDARD SAFETY DESIGNATIONS assigned to any of the above spaces, or if in any doubt, immediately stop all work and contact the undersigned Marine Chemist.

**QUALIFICATIONS:** Transfer of ballast or manipulation of valves or closure equipment tending to alter conditions in pipe lines, tanks or compartments subject to gas accumulation, unless specifically approved in this Certificate, requires inspection and endorsement or reissue of Certificate for the spaces so affected. All lines, vents, heating coils, valves, and similarly enclosed appurtenances shall be considered "not safe" unless otherwise specifically designated.

**STANDARD SAFETY DESIGNATIONS** (partial list, paraphrased from NFPA 306 Subsections 2-3.1 through 2-3.5, and Subsection 6-3.2)

**SAFE FOR WORKERS:** Means that in the compartment or space so designated: (a) the oxygen content of the atmosphere is at least 19.5 percent by volume; and that, (b) toxic materials in the atmosphere are within permissible concentrations; and that, (c) the residues are not capable of producing toxic materials under existing atmospheric conditions while maintained as directed on the Marine Chemist's Certificate.

**NOT SAFE FOR WORKERS:** Means that in the compartment or space so designated, the requirements of Safe for Workers have not been met.

**ENTER WITH RESTRICTIONS:** Means that in any compartment or space so designated, entry for work may be made only if conditions of proper protective equipment, clothing, and time are as specified.

**SAFE FOR HOT WORK:** Means that in the compartment so designated: (a) oxygen content of the atmosphere is at least 19.5 percent by volume, with the exception of inerted spaces or where external hot work is to be performed; and that, (b) the concentration of flammable materials in the atmosphere is below 10 percent of the lower flammable limit; and that, (c) the residues are not capable of producing a higher concentration than permitted by (b) above under existing atmospheric conditions in the presence of fire, and while maintained as directed on the Marine Chemist's Certificate; and further, that, (d) all adjacent spaces containing or having contained flammable or combustible materials have been cleaned sufficiently to prevent the spread of fire, or are satisfactorily inerted, or, in the case of fuel tanks or lube oil tanks, or engine room or fire room bilges, have been treated in accordance with the Marine Chemist's requirements.

**NOT SAFE FOR HOT WORK:** Means that in the compartment so designated, the requirements of Safe for Hot Work have not been met.

**SAFE FOR REPAIR YARD ENTRY:** Means that the compartments and spaces of the flammable cryogenic liquid carrier so designated: (a) have been tested by sampling at remote sampling stations, and results indicate the atmosphere tested to be above 19.5 percent oxygen, and less than 10 percent of the lower flammable limit, or (b) are inerted.

**CHEMIST'S ENDORSEMENT.** This is to certify that I have personally determined that all spaces in the foregoing list are in accordance with NFPA 306 Control of Gas Hazards on Vessels and have found the condition of each to be in accordance with its assigned designation.

The undersigned acknowledges receipt of this Certificate under Section 2-6 of NFPA 306 and understands conditions and limitations under which it was issued.

This Certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions.

Signed Robert L. Lindley CECON Corp.      5-10-95      Date

Signed James D. Blum #637      Certificate No.



Environmental and Industrial Contractors

P.O. Box 1514  
Tacoma, WA 98401-1514

5/12/95

Dave Diefenbach hereby agrees  
to take

- 1 500 gallon tank
- 1 1000 gallon tank
- 1 250 gallon tank
- 1 10,000 gallon tank

for scrap iron, from Econ Corp.

Dave Diefenbach  
Scott Amosky

Dave Diefenbach  
P.O. Box 3808  
Omak WA 98841

(509) 826-0577

TANKS WERE CLEANED BY CECON, MADE SAFE FOR  
HOT WORK & CUT ON SHOPS.



95-29

1703 Portland Avenue • Tacoma, WA 98421 • (206) 272-8851

Environmental and Industrial Contractors

No 0114

SHIPPER CEcon Corp / TONASKET School District 404ADDRESS P.O. BOX 468 TONASKET, WA, 98855PHONE (509) 4862126ORIGIN TANK CLEANING

U.S. D.O.T. DESCRIPTION Including Proper Shipping Name, Hazard Class & I.D. Number	CONTAINER		QUANTITY	
	No.	Type	Wt.	Vol.
1993 Combustible Liquid 3 PG III		VAC-TRK		850 gals

PHYSICAL STATE (CIRCLE): SOLID LIQUID SLUDGE OTHER \_\_\_\_\_

SPECIAL INSTRUCTIONS AND ADDITIONAL INFORMATION \_\_\_\_\_

PROFILE # 59228-00

IN THE EVENT OF A SPILL, CONTACT EITHER THE DEPARTMENT OF ECOLOGY 800-258-5990 AND/OR  
THE NATIONAL RESPONSE CENTER, U.S. COAST GUARD 800-424-8802 FOR EMERGENCY ASSISTANCE.

This is to certify that the above-named materials are properly classified, described, packaged, marked, labeled and are in proper condition for transportation according to the applicable regulation of the U.S. Department of Transportation.

SHIPPER SIGNATURE Dan Inn (DAVE ENUS, BISON FOR TONASKET S.D.) DATE 5-10-95TRANSPORTER CEcon Corp PHONE 2728851ADDRESS 1703 Portland Ave TACOMA, WA,SIGNATURE Scott J. SenakyDESTINATION CLEAN CARE INC. PHONE 6273925ADDRESS PO Box 4100 TACOMA, WA,SIGNATURE Paul Thompson

Distribution: Shipper: Goldenrod copy Transporter: Pink copy Consignee: Canary copy  
(CEcon returns original to shipper)



**CleanCare®**  
CORPORATION

Local (206) 627-3925  
Wats 1-800-282-8128  
Fax (206) 383-8724

REMIT TO:  
P.O. Box 4100  
Federal Way, WA 98063

SCHEDULED  
SERVICE WEEK

20

SCHEDULED  
SERVICE TERRITORY

01

Page 1 of 1

INVOICE: 950101084

<b>BILLING ADDRESS</b> CECON Corportion 1703 Portland Ave Tacoma WA 98421	<b>GENERATOR SERVICE LOCATION</b> CECON Corportion 1703 Portland Ave Tacoma WA 98421
--	---

EPA ID # WAD988498754	UBI #
DATE 19-may-1995	CUST # 4453
PHONE (206) 272-8851	TERMS E
CUSTOMER P.O. NUMBER	DATE OF LAST SERVICE 05-may-1995

MACHINE # / # UNITS	DESCRIPTION	CHANGE Svc. TERM WEEKS	INITIAL	MANIFEST DOC #	LINE TOTAL
02 Gal	Water @ \$.25/gal			950101084A	25.50
42 Gal	Oil \$.45/gal			950101084A	198.90
306 Gal	Soild @ \$1.60/gal			950101084A	489.60

CEcon Corporation		
Ven #		
Job	95-29	
Phase		
G/L		
MAY 24 '95		
App: J. H. H. Date: 5/31/95		

REP #	MACHINE RENTAL & SERVICE TOTAL	714.00
-------	--------------------------------	--------

PRODUCT SALES SECTION					
DESCRIPTION	UNIT OF MEASURE	QUANTITY DELIVERED	UNIT COST	TAXABLE	TOTAL COST
nifest #BL 0114	EA	1		N	
ofile #59228	EA	1		N	

ALL PAST DUE ACCOUNTS ARE SUBJECT TO A 1 1/2% FINANCE CHARGE PER MONTH

PRODUCT SALES TOTAL	
MACHINE RENTAL & SERVICE	714.00

GENERATOR/DESIGNATED REPRESENTATIVE SIGNATURE	SALES TAX RATE 7.90	SALES TAX 0.00
<b>PAYMENT RECEIVED SECTION</b>	TOTAL 714.00	

CASH <input type="checkbox"/>	TOTAL RECEIVED	APPLY PAYMENT TO:
CHECK NUMBER		<input type="checkbox"/> TODAY'S SERVICE/SALE
		<input type="checkbox"/> PREVIOUS BALANCE/REMARKS
<input type="checkbox"/> CURRENT	<input type="checkbox"/> PAST DUE UNDER 30	<input type="checkbox"/> PAST DUE OVER 30
\$ 762.60		
REMARKS:		

SERVICE	SVC. REQUIRED	NO SVC. REQUIRED	SVC. COMPLETED
WASTE OIL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WASTE ANTIFREEZE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MIXED/CONTAMINATED FUEL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
USED OIL FILTERS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SOLVENT - P/W SVC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
OTHER	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

## **APPENDIX E**

### **Waste Management/Bison Disposal Quantity Comparison Table**



UST Removal Project  
Petroleum Contaminated Soil Disposal Summary  
Tonasket School District

Truck Load Number	Truck Identification	Waste Management Receipt Number	Waste Management's Estimated Volume (cyds)	Load Net Weight (tons)	Bison's Estimated Volume (cyds)	Notes
1	C&E 405	105451	20	na	14.4	1
2	C&E 404	105452	20	na	14.4	1
3	DT-1	105453	24	na	16.8	2
4	C&E 404	105454	20	na	14.4	1
5	C&E 405	105455	20	na	14.4	1
6	DT-1	105456	24	na	16.8	2
7	C&E 404	105457	15	42250	15.6	3
8	C&E 405	105458	15	40950	15.2	3
9	DT-1	105459	20	51430	19	3
10	C&E 404	105460	15	na	15.6	4
11	C&E 405	105461	15	na	15.2	4
12	DT-1	105462	20	39440	14.6	3
13	C&E 404	105463	20	na	15.6	4
14	DT-1	105464	20	45740	16.9	3
Totals			268		218.9	

1. Volume estimated by taking an average of the initial net weight and the heavy net weight of load #7 and #8, and dividing by 2,700 lbs/cyd. Initial net weight is the loaded weight of each truck on May 18 prior to determination that the load was light, heavy net weight is the weight of the loaded trucks following loading of additional soil.
2. Volume estimated by averaging all known net weights for truck DT-1 and dividing by 2,700 lbs/cyd.
3. Volume estimated by dividing actual net weight by 2,700 lbs/cyd.
4. Volume estimated by applying May 18 known net weights for trucks C&E 404 and C&E 405 and dividing by 2,700 lbs/cyd.