

Randolph Bayliss, P.E.

Environmental Engineer
119 Seward Street #10
Juneau, Alaska 99801
(907) 586-6813

Release Investigation Report
Corrective Action Plan
for
Gas'N Go, Grant's Plaza
5165 Glacier Highway
Juneau, Alaska 99801
Facility ID # 0-002269

Distributed to
Department of Environmental Conservation
Southeast Regional Office, Randy Rice
Hugh Grant, Owner

Table of Contents and Attachments

Site Sketch
Site Assessment/Release Investigation Summary Form
Laboratory Sample Analysis Summary/ Quality Control Summary
Photographs
Release Investigation Report and Corrective Action Plan
ADEC Preliminary Risk Evaluation Form
ARI QC Report I326 dated 6 October 1994
ARI QC Report I533 dated 18 October 1994

I submit this site assessment and release investigation report pursuant to 18 AAC 78.090 (4,5), 18 AAC 78.200-280 and 18 AAC 78.330-340.

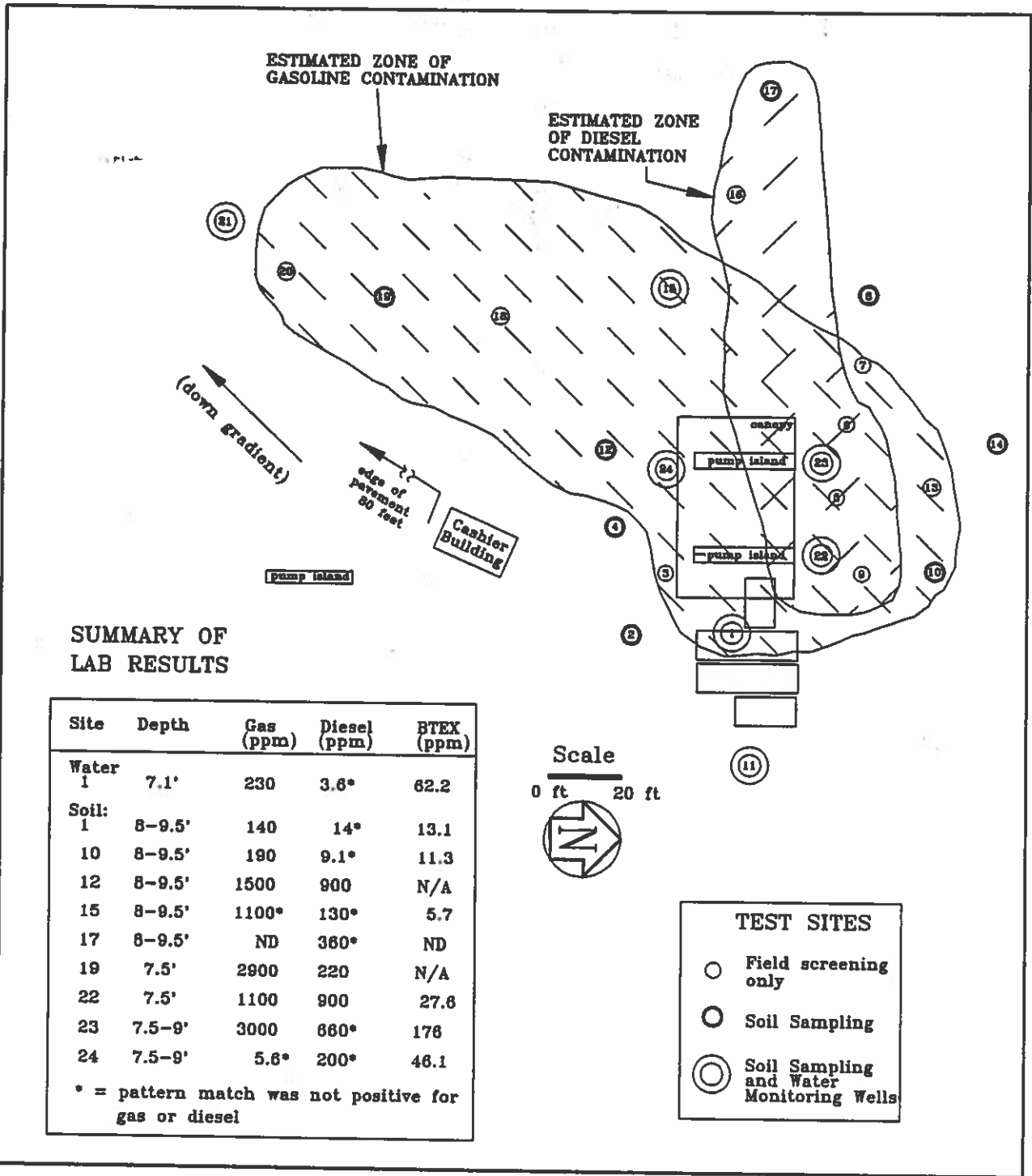
This release investigation was performed from August 30 through September 3, 1994, to find the extent of the contamination that remains in the ground at the Gas'N Go site. We found gasoline present in the soil in concentrations of up to 3000 ppm, BTEX up to 176 ppm, and diesel up to 900 ppm. The contamination zone lies near the top of the water table about 12 inches thick, and it extends over an area of about 2000 square yards.

We propose to treat the soil in-situ by air sparging. A corrective action plan is attached.



25 November 1994

Page 1



UST Corrective Action Plan: Gas'N Go, Grant's Plaza

DEC Facility ID#0-002269
 Closure by Montgomery Watson 8/93
 Release Investigation by
 Stephanie Hoag 8/30/94-9/3/94
 Drawn by S. Hoag 11/25/94

RANDOLPH BAYLISS, P.E.
ENVIRONMENTAL ENGINEER
 119 SEWARD STREET #10
 JUNEAU, ALASKA 99801
 907-586-6813
 QAPP 90-01 Approved by ADEC 10/24/90

Owner of Facility
Hugh Grant
 5165 Glacier Highway
 Juneau, Alaska 99801
 Legal Description of Location
 Tract A, U.S. Survey 668

ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SITE ASSESSMENT REPORT for UNDERGROUND STORAGE TANKS

TYPE OF SITE ASSESSMENT: COMPLIANCE CHECK/TANK CLOSURE/SUSPECTED/KNOWN RELEASE INSTRUCTIONS: PLEASE TYPE OR PRINT IN INK ALL ITEMS EXCEPT "SIGNATURE" ON PAGE 4. THIS FORM SHOULD BE COMPLETED FOR EACH FACILITY OR DETECTED RELEASE. ADDITIONAL SHEETS ARE ATTACHED. SEE INDEX ON PAGE 5.

SITE ASSESSMENTS MUST BE PERFORMED BY A QUALIFIED THIRD PARTY WITH AN APPROVED QA/QC PROGRAM PLAN ON FILE WITH ADEC. (ANY CONSULTING REPORTS, DATA COLLECTED, FINDINGS, ETC. THAT MAY HAVE BEEN COLLECTED MUST BE ATTACHED.) DO NOT LEAVE LINES BLANK. THIS FORM IS MEANT TO SERVE AS A SUMMARY OF ACTIVITIES AND RESULTS TO EXPEDITE THE REVIEW PROCESS.

OWNERSHIP OF TANK:

NAME Hugh Grant ADDRESS 5165 Glacier Highway CITY, STATE, ZIP Juneau, Alaska 99801

LOCATION OF TANK:

NAME OF FACILITY Gas N Go PHYSICAL ADDRESS Same CITY, ZIP Same

LOT NUMBER (IF KNOWN) SEC/TWN/RNG (IF KNOWN) Tract A, U.S. Survey 668

TANK OPERATOR:

NAME Same as above ADDRESS CITY, STATE, ZIP

TYPE OF FACILITY:

(GAS STATION, PUMP STATION, ETC.) Gas Station NAME OF FACILITY

REPORTS ON FILE WITH ADEC:

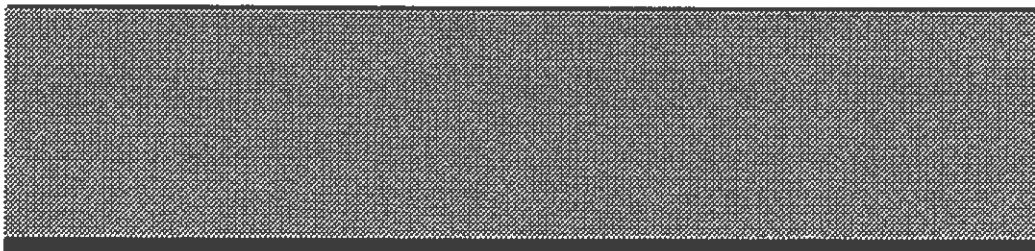
TIGHTNESS TEST DECOMMISSIONING NOTICE OTHER

REGISTERED WITH DEC:

NO YES NUMBER 0-002269

APPLICATIONS ON FILE WITH BOARD OF ASSISTANCE THIS TANK ONLY. CONTACT ADEC FOR INFO/FORMS

SITE ASSESSMENT / TIGHTNESS TEST TANK CLEANUP UPGRADE CLOSURE REIMBURSEMENT



ADJACENT PROPERTY INFORMATION:

(INCLUDE NAMES AND ADDRESSES OF ADJACENT PROPERTY OWNERS IF UNUSUAL CONDITIONS WERE REPORTED THAT MAY BE ATTRIBUTED TO A SPILL, LEAK, OR RELEASE FROM A UST SYSTEM)

No unusual conditions. However, the Borough landfill is adjacent to the property.

INVENTORY CONTROL INFORMATION:

(DESCRIBE METHOD USED, HOW RECONCILED, RESULTS OF LAST OPERATING PERIOD, IF KNOWN)

Not known.

DRILLING / BOREHOLES / EXCAVATIONS / TEST PITS:

(DESCRIBE NUMBER, DEPTH, LOCATIONS, AND PROXIMITY TO DISPENSERS, TANKS, ETC.)

Number of Boreholes: 24

Depth of Boreholes: 10.5'

Locations:

See attached site sketch

BEDROCK GEOLOGY / SOIL HORIZON DATA / GROUNDWATER CONDITIONS:

(INCLUDE GENERAL HYDROGEOLOGIC ENVIRONMENT SYNOPSIS AS WELL AS STRATIGRAPHIC AND LITHOLOGIC INFORMATION, USING THE UNIFIED SOIL CLASSIFICATION SYSTEM.)

0-5 feet Fill Materials, sandy gravel with silt and organics, GP

5-8 feet Fine, dense, grey silty sand, SM

8-10 feet Gravelly sand with some silt, GP

NAME OF CONSULTANT OR CONSULTING FIRM CONDUCTING SITE ASSESSMENTS:
(INCLUDE NAMES OF PERSONS SUPERVISING AND COLLECTING SAMPLES)

Original closure/site assessment by Montgomery Watson 8/93
Consulting Firm: Randolph Bayliss
Supervising: Stephanie Hoag
Collecting Samples: Stephanie Hoag

ADDRESS AND CONTACT PHONE OF CONSULTANT OR CONSULTING FIRM:

Stephanie Hoag 119 Seward #4 Juneau, Ak. 99801
Phone: 463-4829

SYSTEM / TANK STATUS:

PRESENTLY IN OPERATION

TEMPORARILY SHUT DOWN

CLOSED

DEPTH TO BASE OF TANK FROM GROUND SURFACE (in feet): not known

DEPTH TO GROUNDWATER FROM GROUND SURFACE (in feet): 7-10'

TYPE OF BACKFILL MATERIAL: Gravel

INTEGRITY / RELEASE METHODOLOGY

VISUAL INSPECTION

INTERSTITIAL MONITORING

TANK/LINE TIGHTNESS TEST

MONITOR SECONDARY CONTAINMENT

AUTOMATIC/MANUAL TANK GAUGING

GROUNDWATER MONITORING

AUTOMATIC TANK/LINE LEAK DETECTOR

VAPOR TESTING

INVENTORY CONTROLS

SOIL SAMPLING

*OTHER: (describe) _____

*(MUST BE ADEC APPROVED)

DESCRIBE SITE ASSESSMENT METHODS USED:

(BE SPECIFIC, GIVE DETAILS, INCLUDE LOCAL WEATHER CONDITIONS AT TIME(S) OF TESTING MEASURES)

Boreholes were drilled in along six directional lines, starting at the site of the former tanks, to define the limits of contamination. Split-spoon samples were taken from above and below the water table and field screened for gas and diesel, in each hole. When contamination was detected, the drill was moved about 20' further from the site and another borehole was drilled. When no contamination was detectable, samples were collected for laboratory analysis. Seven wells were installed and water samples were collected from each well.

QA / QC SITE SPECIFIC MODIFICATIONS AND SUMMARY OF QC RESULTS
(AN APPROVED QA/QC PROGRAM PLAN MUST BE ON FILE WITH ADEC AND THE APPROVAL NOTIFICATION ATTACHED)

See attached QC Summary.

SOIL SAMPLES COLLECTED AND ANALYTICAL RESULTS:
(DESCRIBE CONDITIONS, SUMMARIZE NUMBER OF SAMPLES AND RESULTS, ATTACH COMPLETE LAB RESULTS TO BACK OF THIS REPORT)

See site sketch and attached summary of lab results.

WATER SAMPLES COLLECTED AND ANALYTICAL RESULTS:
(DESCRIBE CONDITIONS, SUMMARIZE NUMBER OF SAMPLES AND RESULTS, ATTACH COMPLETE LAB RESULTS TO BACK OF THIS REPORT)

See site sketch, attached summary, and attached lab reports.

CLOSURE - DESCRIBE FINAL DISPOSITION OF TANKS/PIPING AND SLUDGE:
(I.E. LEFT IN PLACE, REMOVED, FILL MATERIAL, ETC.)

See closure report by Montgomery Watson



ATTACHMENTS:

- SITE SKETCH
- LOCATION MAP
- PHOTOGRAPHS OF SITE ASSESSMENT
- CLOSURE NOTICE
- POST-CLOSURE NOTICE
- RELEASE NOTICE
- QAPP APPROVAL BY ADEC
- LAB RESULTS, ARI QC REPORT NO
- TIGHTNESS TEST RESULTS
- FIELD NOTES
-
-



COMMENTS, REMARKS, AND NOTES:



CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

Environmental Engineer
TITLE

Randolph Bayliss
SIGNATURE

12/5/94
DATE

119 Seward Street # 10
ADDRESS

Randolph Bayliss, P.E.
PRINT or TYPE NAME

907-586-6813
CONTACT PHONE (DAY)

Juneau, Alaska 99801
CITY, STATE, ZIP

907-364-3259
CONTACT PHONE (NIGHT)



SUMMARY OF LAB RESULTS:

Test Hole	Sample #	Depth	Matrix	Gas(ppm)	Diesel(ppm)	BTEX(ppm)
1	2	7.1	Water	230	3.6*	62.2
	1	8-9.5	Soil	140	13-14*	13.1
	2	10-11.5	Soil	25	9.3*	2.9
2	3	8-9.5	Soil	U	17*	U
	4	8-9.5	Soil	U	5.4*	U
	5	10-11.5	Soil	U	U	U
4	6	8-9.5	Soil	38	U	
	7	10-11.5	Soil	56	U	
8	8	8-9.5	Soil	U	U	U
	9	9.5-11	Soil	U	U	U
10	10	8-9.5	Soil	190	9.1*	11.3
	11	10-11.5	Soil	28	U	1.4
11	1	7.3'	Water	ND	ND	<.01
	12	9-10.5	Soil	U	U	U
	13	9-10.5	Soil	U	U	U
	16	7.5-8	Soil	U	U	U
12	15	8-9.5	Soil	1500	900	
14	17	8-9.5	Soil	U	8.7*	U
	18	9.5-11	Soil	U	U	U
15	6	8'	Water	6.6	2.0*	.03
	19	8-9.5	Soil	1100*	130*	5.7
	20	9.5-11	Soil	240*	58*	0.6
17	21	8-9.5	Soil	U	360*	U
	22	7'	Soil	5.5*	190*	U
19	23	7.5'	Soil	2900	220	
	24	9'	Soil	800	82	
21	8	7.5'	Water	8.5	2.1*	1.65
	25	8-9.5'	Soil	U	5.4*	.07
	26	9.5-11'	Soil	U	U	U
22	3	7.9'	Water	49	150-200	9.8
	4	7.9'	Water	22	80-100	4.7
	27	8.5-10'	Soil	610	61*	2.4
	28	7.5'	Soil	1100	900	27.6
23	5	8'	Water	97	11*	23.6
	29	7.5-9'	Soil	3000	660*	176
	30	9-10.5'	Soil	U	U	U
	31	9-10.5'	Soil	U	U	U
24	7	7.1'	Water	59	13-34*	11.8
	32	7.5-9'	Soil	5.6*	200*	46.1
	33	9-10.5'	Soil	U	U	39.8

Level B Standards

100

200

15

* indicates that there was not a pattern match for gasoline or diesel.

QUALITY CONTROL SUMMARIES**Soil Samples**

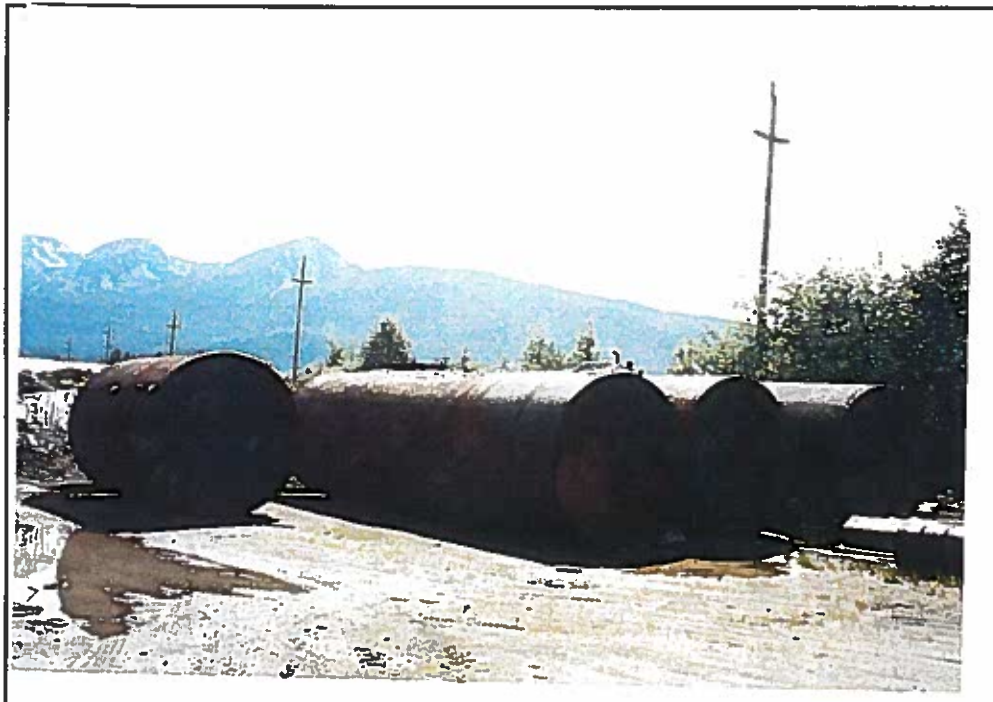
<u>QC Measure</u>	<u>OAPP Objective</u>	<u>This Project</u>
Holding Time	14 Days	6-15 days
Background Samples	Nothing Detected	not applicable
Trip Blank	Nothing Detected	not applicable
Rinsate Samples	Nothing Detected	not applicable
Method Blank	Nothing Detected	Nothing Detected
Pattern Match	Diesel or Gasoline	2/18 had diesel match, 5/13 had gasoline match
Field Duplicates	50% to 150%	48% to 151%
Lab Splits	70% to 130%	49% to 151%
Surrogate Recoveries	75% to 125%	73.5% to 167%
Matrix Spikes	75% to 125%	96.7% to 121%

Water Samples

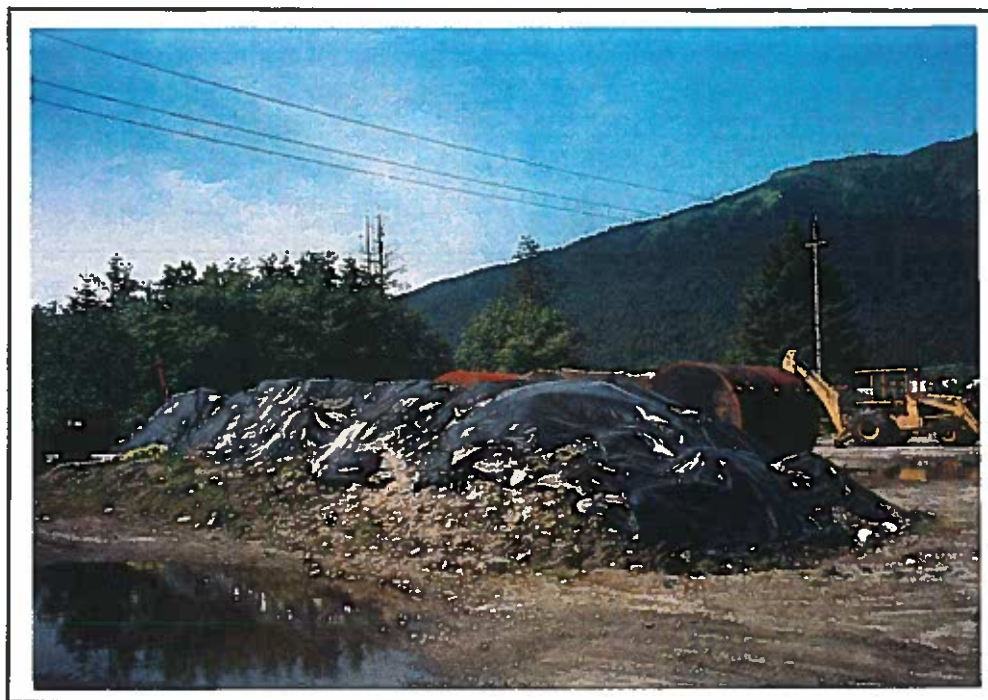
<u>QC Measure</u>	<u>OAPP Objective</u>	<u>This Project</u>
Holding Time	14 Days	6 days
Background Samples	Nothing Detected	not applicable
Trip Blank	Nothing Detected	not applicable
Rinsate Samples	Nothing Detected	not applicable
Method Blank	Nothing Detected	Nothing Detected
Pattern Match	Diesel or Gasoline	2/7 had diesel match, 7/7 had gasoline match
Field Duplicates	50% to 150%	62% to 138%
Lab Splits	70% to 130%	not applicable
Surrogate Recoveries	75% to 125%	75.4% to 130%
Matrix Spikes	75% to 125%	72.4% to 104%



New pumps, with site of former tanks in foreground.



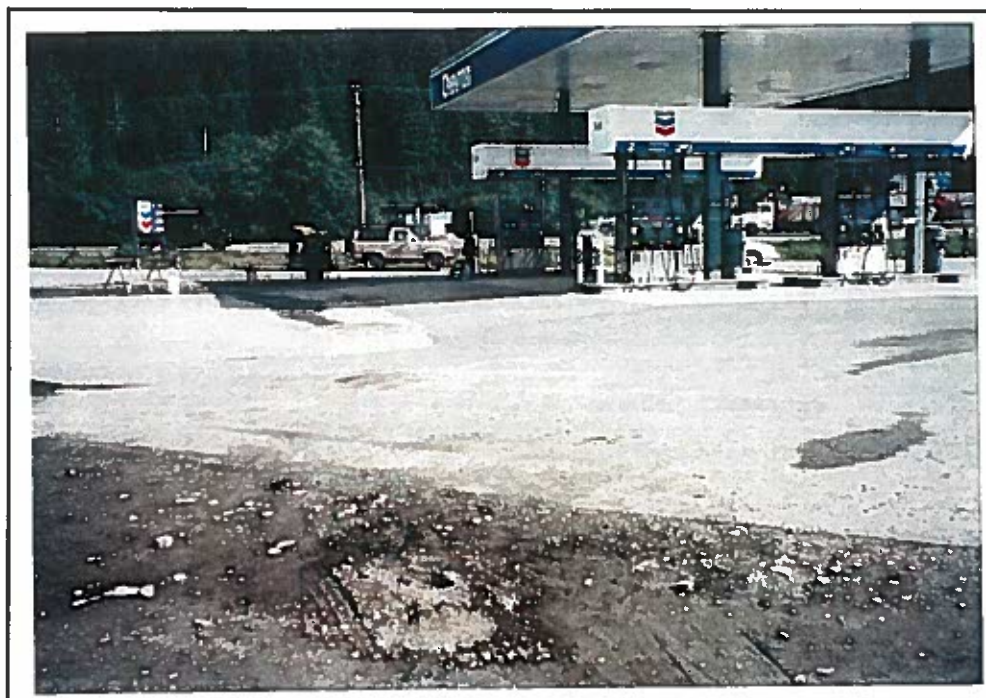
The four tanks, removed in 8/93.



Stockpile soils, from 8/93 tank closure.
CIRCA FALL 1994



Setting up to drill Test Hole #1, 8/30/94



Gas N Go site, looking east. Test Hole 8 in foreground.



Installing water monitoring well.

Release Investigation Report
Corrective Action Plan
for

Gas'N Go, Grant's Plaza
5165 Glacier Highway
Juneau, Alaska 99801
Facility ID # 0-002269

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- 3.0 Initial Abatement
- 4.0 Release Investigation
- 5.0 Corrective Action
- 6.0 Initial Remediation
- 7.0 Corrective Action Plan
- 8.0 Cleanup Goal
- 9.0 Tentative Schedule for Completion

1.0 Initial Investigation / General Site Information

This project involves the closure of four underground storage tanks in late August, 1993. They consisted of a 5000 gallon steel gasoline tank, two 10,000 gallon steel gasoline tanks, and a 5000 gallon diesel tank. The tanks were installed in 1978. At the time of removal, initial soil screening and testing revealed gasoline and diesel contamination beneath the tanks. A site assessment was performed at the time by Montgomery Watson, and a report submitted to ADEC.

2.0 Closure and Release Notifications

Montgomery Watson personnel notified ADEC of the release in a letter dated October 4, 1993

3.0 Initial Abatement

The leaking USTs were removed along with existing piping. Approximately 100 cubic yards of soil were stockpiled on the Grant's Plaza property. The excavation was backfilled, and new tanks and pumping facilities were installed at the site.

4.0 Release Investigation

On August 30, 1994, Stephanie Hoag arrived at the site with a drilling crew and hollow-stem auger rig to determine the extent of contamination that remained in the ground. A total of 24 test holes were drilled during a five-day period, and split-spoon samples from above and below the water table were obtained from each hole for field screening. Seven wells were installed during the investigation. Locations of all test holes and wells are shown on the accompanying site sketch.

Soil samples were collected for laboratory analysis from each of the 7 well sites, as well as from 8 additional test holes near the perimeter of the contaminated zone, as indicated by field screening.

On September 27, water samples were collected from each of the six wells for analysis by Analytical Resources, Inc.

Complete laboratory results are attached, and a summary of the results is also included on the site sketch.

5.0 Corrective Action

5.1 Nature and estimated amount of release:

Gasoline range petroleum hydrocarbons were present at the site in concentrations of up to 3000 ppm. The amount of gasoline contaminated soil is estimated at 500 cubic yards.

The largest concentration of BETX (total) in any sample was 176 ppm. Other samples taken near the existing pump islands contained from 27 to 62 ppm. Samples taken from sites that were more than 20 feet away from the pump islands did not contain significant amounts of BTEX.

Diesel range petroleum hydrocarbons were present in concentrations of up to 900 ppm. Diesel contamination was found in a relatively narrow zone extending westward from the release site, and the amount of diesel contaminated soil is estimated at 200 cubic yards. *depth?*

5.2 Risk Evaluation

We attached a Preliminary Risk Evaluation Form but would like to highlight a few points here.

a. Surrounding populations.

The site is located in an area where land use is mainly commercial. It is within one-half mile of the landfill which serves the Juneau area. Some residences are nearby.

b. Water quality.

Groundwater is influenced by tidal fluctuation, and may be saline.

c. Nearby wells.

City water is available in the area and there are no known wells nearby.

d. Subsurface soil conditions.

Fill materials are coarse-grained sand and gravel with some organic material present. A layer of fine, dense, grey silty sand is present from approximately 5 feet to 8 or 9 feet, throughout the area. Gravelly soil is present beneath that layer.

e. Climatological conditions.

Typical southeast moist, maritime climate. The average mean annual rainfall in Lemon Creek is over 40 inches.

relationship to contaminant layer?

6.0 Initial Remediation

Approximately 100 cubic yards of contaminated soils were removed and stockpiled, at the time of the tank closure.

7.0 Corrective Action Plan

We propose in-situ treatment by air sparging for the soils that remain in the ground. For the stockpiled contaminated soils, we propose to sample in the spring of 1995, and to submit a corrective action plan at that time.

A2O treatment?

In-Situ Air Sparging

Five of the seven water monitoring wells installed are located within the zone of contamination. We propose to use these five wells as sparging wells. Fittings will be attached to the wells to allow compressed air to be pumped at a rate of 10 psi into the gravelly strata where the contamination is located. This would be done one well at a time early in the morning for one hour each day, for four weeks. After four weeks, water samples will be taken from each of the wells, to assess the effectiveness of the sparging treatment.

well, Screening?

After the laboratory analysis of those samples has been completed, it will be possible to make more accurate predictions as to total treatment time required. We will also assess the need, if any, to install additional sparging wells.

{ pilot test

We would resample again when treatment is complete.

8.0 Cleanup Goal

The standard of 100 ppm TPH for gasoline range hydrocarbons, 200 ppm for diesel range hydrocarbons, and 15 ppm for BTEX conforms with the area characteristics as applied to the ADEC Matrix Score Sheet for soil cleanup standards for Regulated USTs, based upon the following ratings:

<u>Factor</u>	<u>Gas 'N Go</u>	<u>Score</u>
Depth to Subsurface Water:	8 feet	8 points
Mean Annual Precipitation:	>40 inches	10 points
Soil Type:	Coarse grained soils with fines	8 points
Potential Receptors:	No well within one mile	4 points
Volume of Contamination:	>500 cubic yards	10 points
Total		40 points

Matrix Score: Level B 27-40 points
100 ppm for gasoline range petroleum hydrocarbons
200 ppm for diesel range petroleum hydrocarbons
15 ppm for total BTEX

*boralogs -
ROI -
hyd. cond. &
permeability*

9.0 Tentative Schedule for Completion

Air sparging and preliminary sample analysis could be completed in three months. Additional wells, if needed, could be installed in the spring of 1995, and treatment could continue, if needed, through the spring and summer months.

Landspreading of stockpiled soils would take place in the spring or early summer of 1995, during a period of warm weather..



Randolph Bayliss, P.E.
Environmental Engineer

ADEC Underground Storage Tank Program Preliminary Risk Evaluation Form (Page 2)

How to fill out this form:

Please type or print in ink all the requested information. On pages 3-5, please fill in letter of the correct choice on the line at the end of the question.

Facility ID Number 0-002269 **Tax ID Number**

Applicant:

Name: Hugh Grant
Address: 5165 Glacier Highway
 Juneau, Ak. 99801

Phone: 780-4566

Facility:

Name: Gas N Go
Address: 5165 Glacier Highway
 Juneau, Ak. 99801

Phone: 780-4909

Owner of Tank (If Not Same As Applicant): **Owner of Land(If Not Same As Applic**

Name: same
Address:

Name: same
Address:

Phone:

Phone:

Preparer:

Name: Stephanie Hoag
Title: Environmental Consultant
Firm: Randolph Bayliss, P.E.
Phone: 463-4829

Comments:

Please give any additional information you may have that may assist in processing the Risk Evaluation form (i.e.) directions to the site if it does not have a physical address, uncertainties over how to answer particular questions, etc. Please use additional pages, if necessary.



**ANALYTICAL
RESOURCES
INCORPORATED**

Analytical
Chemists &
Consultants

333 Ninth Ave. North
Seattle, WA 98109-5187
(206) 621-6490
(206) 621-7523 (FAX)

06 October 1994

Stephanie Hoag
Room 10
119 Seward St.
Juneau, AK 99801

**RE: Client Project: Gas n' Go;
ARI Project: #1326**

Dear Ms. Hoag,

Please find enclosed the original chain-of-custody (COC) records and results for the above referenced project. Thirty-two soil samples were received in good condition on 9/8/94. There were no discrepancies between the COCs and sample containers, and the analyses were initiated without incident of note.

Sample 8-TH8 for tph-D was re-extracted prior to analysis because analysis of the initial extract resulted in unusable data. The reported results are valid. Sample 13-TH11 has a high surrogate recovery; the QA reviewer accepted the results, as the sample does not indicate the presence of any hydrocarbons.

Some samples required analysis and/or reanalysis at dilution due to hydrocarbon concentrations above the linear ranges of instrument calibration. All valid results are included. Matrix spike/matrix spike duplicate and Laboratory Control Sample recovery reports are also included to provide QC documentation for the project. Sample chromatograms for the HCID and tph-D analyses are included to assist in your evaluation of the results.

A copy of this data package as well as all original raw data are kept on file by the laboratory should you require additional information at a future date. If you have any questions please feel free to call any time.

Sincerely,

ANALYTICAL RESOURCES, INC.

Kate Stegemoeller
Project Manager
206-340-2866, ext. 117

Enclosures
cc: file #1326

ADEC Underground Storage Tank Program

Preliminary Risk Evaluation Form (page 3)

State use

1. What type of product was released or detected? b, c
 - a. Chlorinated solvents, halogenated hydrocarbons, chlorinated pesticides.
 - b. Gasoline, aviation gasoline (avgas), metals, naphtha, non-chlorinated pesticides.
 - c. Diesel, crude oil, Jet fuels (JP-4, JP-5), kerosene, non-chlorinated solvents/phenols.
 - d. Waste oil, heavy fuel oils (No. 6 etc), tar, inorganic acids/bases.
 - e. Unknown; or other _____

2. What quantity of the product was released?
 - a. Unknown; estimate of contaminated soil is: a 650 cubic yards; or contamination is estimated to be present over _____ square feet.
 - b. Less than 10 gallons
 - c. 10 - 550 gallons
 - d. 551 - 5,500 gallons
 - e. 5,501 - 55,000 gallons
 - f. More than 55,000 gallons

3. Has a release at the site been documented? a
 - a. There has been a documented release of contaminants at the site. The level of contamination is currently either unknown or above cleanup guideline levels.
 - b. Contamination at the site is suspected due to inadequate containment or management practices. Contamination has not yet been confirmed.
 - c. Contamination has been documented to be currently below cleanup guidelines.
 - d. It is unknown if there has been a release of contaminants at the site.

4. How controlled is access to the site? d
 - a. Access to site is not fully controlled AND school is within 500 feet of site AND wastes are present on the surface of the site.
 - b. Access to site is uncontrolled AND wastes are present at the site's surface.
 - c. Access to site is partially controlled by artificial or natural barriers; OR contaminated soil has been excavated and placed in covered stockpile on-site; OR contaminated soils are being bioremediated above ground.
 - d. Release is confined underground; OR site is completely controlled AND no wastes are migrating on the surface outside of the controlled area of site.

5. Have contaminants been released to the atmosphere? d
 - a. A particulate release to the air has been documented; or large ongoing releases of volatile organics from the site have been confirmed.
 - b. Releases of particulates or volatile organics to the air is suspected due to evidence of contamination at the ground surface but releases have not been documented; OR site has uncovered stockpiles of contaminated soils.
 - c. There is an unknown potential for release of contaminants to the air; or site has partially covered stockpiles of contaminated soil which are not known to be completely, effectively and permanently covered; or site is being bioremediated above ground.
 - d. There is no potential for release; OR contaminants are entirely underground; OR completely, effectively, and permanently covered.

6. What is the predominant land use within one mile of the site? b
 - a. The site is in an urban area with a population greater than 35,000 people.
 - b. The site is in a suburban residential area (lot sizes generally 1/4 - 1 acre) OR a city with 2,000-35,000 people OR a industrial/commercial area.
 - c. The site is in a village of less than 2,000 people OR in an area where density is less than one housing unit per acre, OR low-density commercial areas within one mile of site, OR area has few permanent residents but intensive seasonal use.
 - d. The site is in a rural area; some occupied buildings are within one mile of the site; no small villages or associated commercial areas are within one mile of site.
 - e. There is no population present within one mile of the site.

(Please enter your letter choice on the line at the end of each question)

ADEC Underground Storage Tank Program

Preliminary Risk Evaluation Form (page 5)

State use:

14. Have wildlife, fish, or plant life been affected by contamination from the site? d
- The site is in a critical terrestrial environment or within 1/4 mile of wetlands or surface waters. (If this is true, ignore alternatives b, c, and d.)
 - Wildlife or fish are strongly suspected to have been affected by contamination from the site.
 - Plant life is strongly suspected to have been affected by contamination from the site.
 - Wildlife, fish and plant life are not suspected to have been affected by contamination from the site.
15. Were multiple types of contaminants released at the site?
- More than one type of contaminant is KNOWN to have been released at the site. If so, please list the types gasoline, diesel
 - Only one type of contaminant has been released at the site; OR site has suspected but NOT known multiple contaminants; OR only contaminant released is drilling mud; OR site has only one contaminant that is present at levels above applicable cleanup levels;
16. Were contaminants released from separate sources at the site? b
- Contaminants have been released at more than point at the site; the sources are geographically isolated from each other (by hundreds of feet or acres); if so please list the distance between sources of contamination: _____ feet.
 - Contaminants have been released at only one point at the site; OR site has multiple types of contaminants which have commingled in the same area.
17. Was the contamination released from a regulated underground petroleum storage tank? a
- The only contaminant released was from a regulated underground petroleum storage tank.
 - No contamination occurred as a result of a release from a regulated underground petroleum storage tank.
 - Contamination occurred from regulated underground petroleum storage tanks AND from other sources.

State Use: