

# PERMIT CHANGE TRACKING FORM

DATE RECEIVED	4/13/95	PERMIT NUMBER	ACT/015/009
Title of Proposal:	Sewage System	PERMIT CHANGE #	95C
Description:	Connection with Cottonwood Mine	PERMITTEE	Pacificorp
		MINE NAME	Trail Mtn. Mine

<input type="checkbox"/> 15 DAY INITIAL RESPONSE TO PERMIT CHANGE APPLICATION <input type="checkbox"/> Notice of Review Status of proposed permit change sent to the Permittee. <input type="checkbox"/> Request additional review copies prior to Division/Other Agency review. <input type="checkbox"/> Notice of Approval of Publication. (If change is a Significant Revision.) <input type="checkbox"/> Notice of request to modify proposed permit change prior to approval.	DATE DUE	DATE DONE	RESULT	
	May 7, 1995	May 4, 1995	<input checked="" type="checkbox"/> ACCEPTED	<input type="checkbox"/> REJECTED
			Permit Change Classification	
			<input type="checkbox"/> Significant Permit Revision	
			<input checked="" type="checkbox"/> Permit Amendment	
			<input type="checkbox"/> Incidental Boundary Change	

REVIEW TRACKING	INITIAL REVIEW		MODIFIED REVIEW		FINAL REVIEW AND FINDINGS	
DOGM REVIEWER	DUE	DONE	DUE	DONE	DUE	DONE
<input type="checkbox"/> Administrative	WSM	5/4			Final Review Same Dates As Initial Review	
<input type="checkbox"/> Biology	WSM	5/4				
<input type="checkbox"/> Engineering	WSM	5/4				
<input type="checkbox"/> Geology	WSM	5/4				
<input type="checkbox"/> Soils	WSM	5/4				
<input type="checkbox"/> Hydrology	WSM	5/4				
<input type="checkbox"/> Bonding	WSM	5/4				
<input type="checkbox"/> AVS Check	1					

COORDINATED REVIEWS	DUE	DONE	DUE	DONE	DUE	DONE
<input checked="" type="checkbox"/> OSMRE						
<input checked="" type="checkbox"/> US Forest Service		WJM 5/3/95				
<input checked="" type="checkbox"/> Bureau of Land Management		WJM 5/2/95				
<input type="checkbox"/> US Fish and Wildlife Service		N/A				
<input type="checkbox"/> US National Parks Service		N/A				
<input checked="" type="checkbox"/> UT Environmental Quality		WJM 4/27/95 WJM 5/3/95			Detailed designs given prior approval by DEC	
<input checked="" type="checkbox"/> UT Water Resources		WJM 5/3/95				
<input checked="" type="checkbox"/> UT Water Rights						
<input checked="" type="checkbox"/> UT Wildlife Resources		WJM 5/3/95				
<input type="checkbox"/> UT State History		N/A				
<input checked="" type="checkbox"/> Other <u>Emery County</u>		WJM 5/3/95				

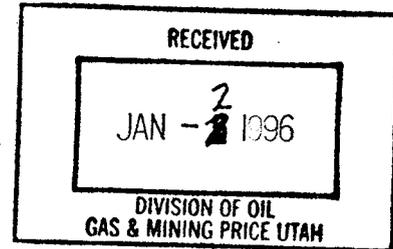
<input type="checkbox"/> Public Notice/Comment/Hearing Complete (If the permit change is a Significant Revision)	N/A	<input checked="" type="checkbox"/> Permit Change Approval Form signed and approved effective as of this date.	11/0/96
<input type="checkbox"/> Copies of permit change marked and ready for MRP.	5/6/96	<input type="checkbox"/> Notice of <input checked="" type="checkbox"/> Approval <input type="checkbox"/> Denial to Permittee.	5/4/95
<input type="checkbox"/> Special Conditions/Stipulations written for approval.	N/A	<input type="checkbox"/> Copy of Approved Permit Change to File.	11/0/96 5/4/93
<input type="checkbox"/> TA and CHIA modified as required.	N/A	<input type="checkbox"/> Copy of Approved Permit Change to Permittee.	PFO 5/5/96
<input type="checkbox"/> Permit Change Approval Form ready for approval.	5/3/95	<input type="checkbox"/> Copies to Other Agencies and Price Field Office.	5/5/96



Val E. Payne  
Sr. Env. Engineer  
P. O. Box 310  
Huntington, UT 84528  
(801) 687-4722  
FAX (801) 687-2695

January 2, 1996

Division of Oil, Gas and Mining  
451 East 400 North  
P.O. Box 156  
Price, UT 84501



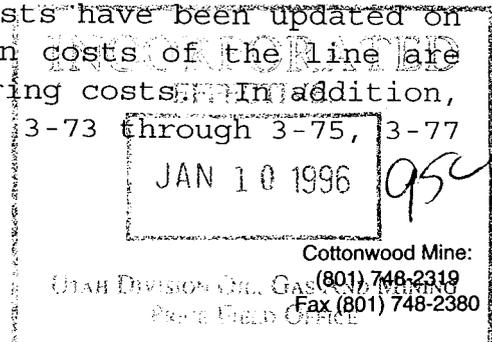
Attn. Bill Malencik

**RE: TRAIL MOUNTAIN MINE SEWAGE SYSTEM MODIFICATION, PACIFICORP,  
TRAIL MOUNTAIN MINE, ACT/015/009, EMERY COUNTY.**

PacifiCorp, by and through its wholly-owned subsidiary, Energy West Mining Company ("Energy West") as mine operator, requests that an amendment be granted to install an additional septic tank to the Trail Mountain Mine Sewage System as described on page 3-6, revised 12/15/95. This increase in capacity, 3,000 gallons, is sufficient to eliminate usage of the Cottonwood Mine septic tanks by Trail Mountain, as originally approved. The sewage system was approved by the Division of Water Quality on March 17, 1995 and the modification approved on November 21, 1995, by Mr. David Ariotti, Southeast District Engineer (See attachments 1 & 2).

To help the review of this amendment, drawings titled "Trail Mountain Surface" and "Dura Crete Septic Tank" have been included in the amendment package. The Trail Mountain Surface drawing depicts the location for the proposed 3,000 gal. septic tank, while the Dura Crete Septic Tank drawing depicts the tank construction details. The tank location will be greater than 100 ft. from the Emery County Road Right-of-way.

Reclamation costs have been included on pages 3-72 and 3-76, revised 12/15/95. Total estimated reclamation costs have been updated on page 3-81, revised 12/15/95. Reclamation costs of the line are included in the Earth Moving and Recontouring costs. In addition, due to minor format changes, pages 3-72.1, 3-73 through 3-75, 3-77



Huntington Office:  
(801) 687-9821  
Fax (801) 687-2695  
Purchasing Fax (801) 687-9092

Deer Creek Mine:  
(801) 381-2317  
Fax (801) 381-2285

Cottonwood Mine:  
(801) 748-2319  
Fax (801) 748-2380

and 3-78 of Table 3-4 are enclosed to replace the current permit pages of the same numbering.

Upon approval, please replace pages 3-6, 3-72, 3-76 and 3-81 of the current permit with the enclosed pages, revised 12/15/95. Also, please replace pages 3-72.1 through 3-75, 3-77 and 3-78 of the permit with the enclosed pages. The surface facilities map will be updated and submitted upon completion of the project.

If there are any questions, please call Guy Davis at 687-4822.

Sincerely,

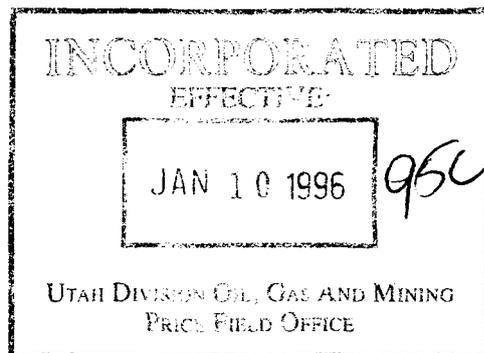
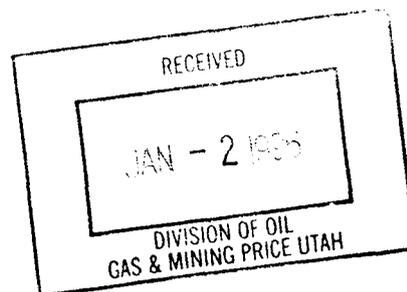


Val E. Payne  
Sr. Env. Engineer

gd\

cc: John Christensen  
Larry LaFrentz  
Morgan Moon  
Carl Pollastro

USERS\TM\AMENDMEN\TMSEWER.D95





# State of Utah

## DEPARTMENT OF ENVIRONMENTAL QUALITY DIVISION OF WATER QUALITY

Michael O. Leavitt  
Governor

Dianne R. Nielson, Ph.D.  
Executive Director

Don A. Ostler, P.E.  
Director

288 North 1460 West  
P.O. Box 144870  
Salt Lake City, Utah 84114-4870  
(801) 538-6146 Voice  
(801) 538-6016 Fax  
(801) 536-4414 T.D.D.

March 17, 1995

Mr. Val E Payne  
Pacifcorp Power Supply Field Office  
PO Box 1005  
Huntington, UT 84528

Re: Trail Mountain Mine Sewage Disposal

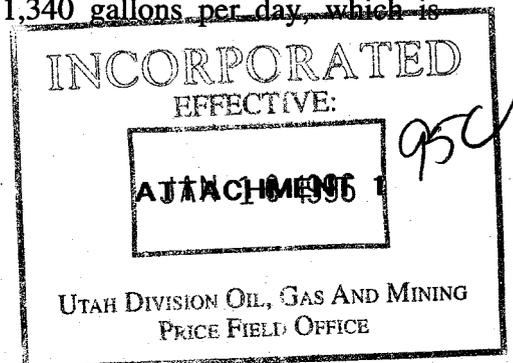
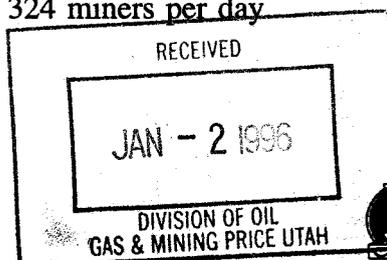
Dear Mr. Payne:

We have reviewed plans and specifications for construction of pump stations and pressure sewer to serve Trail Mountain Mine. We received the plans on February 21, 1995.

The plans and specifications, as submitted, comply with the Utah Water Quality Rules, (R317, UAC). A construction permit, as constituted by this letter, is issued subject to the following conditions:

1. Any modifications to the approved plans and specifications must be reviewed and approved before construction.
2. Facilities constructed under this permit should not be placed in service until the Division of Water Quality has completed a final inspection and has authorized you to do so.

The primary components of the project include construction of approximately 22, 900 feet of four inch diameter pressure sewer and two pump stations. The differential elevation between Trail Canyon Mine and Cottonwood Mine is 390 feet. The pressure sewer will be constructed in existing underground mine working which connect the Trail Mountain Mine with the cottonwood Mine. The existing septic tank drainfield at Cottonwood Mine will be used to treat the Wastewater. Existing septic tanks at Trail Mountain Mine will be used to remove solids before pumping. The total wastewater loading shall not exceed 11,340 gallons per day, which is equivalent to 324 miners per day



Val E Payne  
March 17, 1995  
Page 2

The issuance of this permit does not relieve you in any way of obtaining applicable permits from local jurisdictions.

If the approved project is not under construction within one year, then it will become necessary to resubmit the plans and specifications for reissuance of the construction permit.

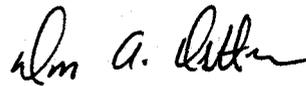
An approved set of plans and specifications bearing our construction permit stamp is returned herewith. These plans must be kept available for examination during inspections conducted by representatives of the Division of Waster Quality, and for resolution of any conflicts or discrepancies which may arise during construction. Please provide us an additional set of plans for our records.

Please advise us of the beginning of the construction. This will enable us to schedule periodic inspections and monitor construction.

Thank you for your cooperation. If we can be of further assistance, please contact David Ariotti of our staff at 637-3671.

Sincerely,

Utah Water Quality Board

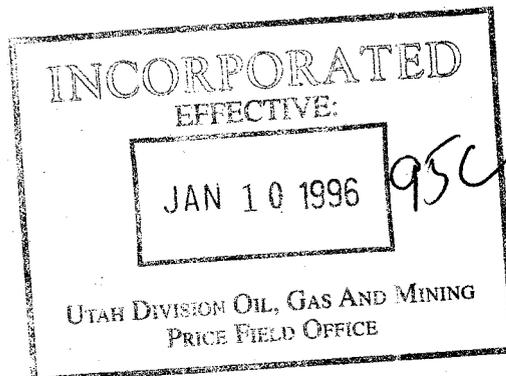
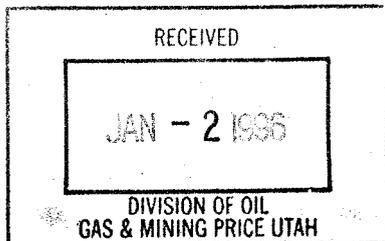


Don A. Ostler, P.E.  
Executive Secretary

DAO:dra:rvg

cc: David Ariotti, Southeast District Engineer  
Claron Bjork, Southeastern Utah District Health Dept

L:KLB/DISTENG/TRAILMTN.LTR  
FILE:





# State of Utah

DEPARTMENT OF ENVIRONMENTAL QUALITY  
SOUTHEAST UTAH DISTRICT

Michael O. Leavitt  
Governor

28 South 100 East  
P.O. Box 800  
Price, Utah 84501  
(801) 637-3671  
(801) 637-1933 Fax

Dianne R. Nielson, Ph.D.  
Executive Director

November 21, 1995

Val E. Payne  
Energy West Mining Co.  
P.O. Box 310  
Huntington, UT 84528

Dear Val,

I received on November 20, 1995 proposed modifications to the approved plans for disposal of wastewater from Trail Mountain Mine. The proposed modifications comply with Utah Water Quality Rules (R317 UAC) and do not affect the design parameters approved in the construction permit dated March 17, 1995. I offer the following recommendation:

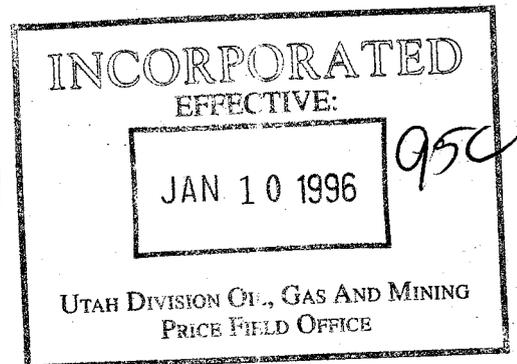
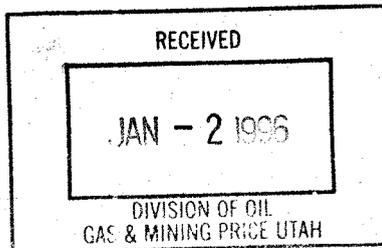
1. A small diameter hole should be provided in the energy dissipation weir to allow drainage upstream of the weir.

The proposed modifications will eliminate trench excavation in solid rock and provide primary treatment of wastewater at Trail Mountain Mine prior to pumping and disposal in the Cottonwood Mine drainfield.

Thank you for your cooperation. If you have any questions, call me at 637-3671.

Sincerely,

David R. Ariotti, P.E.  
Southeast District Engineer



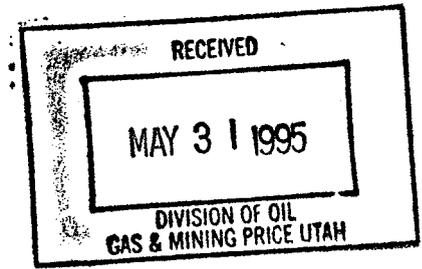
cc: Claron Bjork, Southeastern Utah District Health Dept.  
Kiran Bhayani, Utah Division of Water Quality

REC. 11/27/95  
cc: J.C.

ATTACHMENT 2



One Utah Center  
201 South Main, Suite 2100  
Salt Lake City, Utah 84140-0021  
(801) 220-2000



May 31, 1995

Utah Coal Regulatory Program  
Division of Oil, Gas and Mining  
355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203

Attention: Pamela Grubaugh-Littig

Re: OVERLAND CONNECTION CONVEYOR AND SEWAGE DISPOSAL  
AMENDMENTS, PACIFICORP, TRAIL MOUNTAIN MINE,  
ACT/015/009-94D AND ACT/015/009-95C, EMERY COUNTY, UTAH.

#2

Per the Divisions letters dated May 5, 1995 and May 24, 1995 requesting the finalized copies for the approved amendments on the Overland Connection Conveyor and the Sewage Disposal System. The finalized copies requested are already incorporated into the twelve (12) copies of the Trail Mountain Permit submitted on May 31, 1995.

Plate 3-1, Surface Facilities Map will be updated upon completion of construction and submitted to the Division as requested.

Your help is greatly appreciated. If you have any questions please feel free to contact Karl Houskeeper at 687- 4825.

Sincerely,

A handwritten signature in cursive script that reads "Val Payne".

Val Payne  
Sr. Environmental Engineer

KRH/krh

cc: Morgan Moon  
J. Blake Webster  
File



State of Utah  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt  
Governor  
Ted Stewart  
Executive Director  
James W. Carter  
Division Director

355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203  
801-538-5340  
801-359-3940 (Fax)  
801-538-5319 (TDD)

May 24, 1995

Val Payne  
PacifiCorp  
1 Utah Center  
201 South Main, Suite 2100  
Salt Lake City, Utah 84140-0021

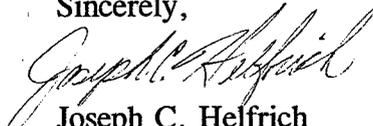
Re: Sewage Disposal Plan Approval for Cottonwood Mine ACT/015/019-95C and Trail Canyon Mine ACT/015/009-95C, PacifiCorp, Folder #3, Emery County, Utah.

  
Dear Mr. Payne:

Your request to amend the Cottonwood and Trail mountain mining and reclamation plans as referenced is hereby approved.

If you have any questions please call.

Sincerely,



Joseph C. Helfrich  
Permit Supervisor

cc:  
Field Office  
Pam Grubaugh-Littig  
Bill Malencik





State of Utah  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt  
Governor  
Ted Stewart  
Executive Director  
James W. Carter  
Division Director

355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203  
801-538-5340  
801-359-3940 (Fax)  
801-538-5319 (TDD)

May 4, 1995

TO: Joe Helfrich, Permit Supervisor *JH*  
FROM: Wm. J. Malencik, Reclamation Specialist *WJM*  
RE: Sewage System Amendments, Trail Mountain Mine,  
ACT/015/009-95C, Folder #2, and Cottonwood Mine,  
ACT/015/019-95C, Folder #2, PacifiCorp Electric  
Operations, Emery County, Utah

PacifiCorp, the coal mine permittee, on March 31, 1995 submitted two separate applications on a proposed change to the Trail Mountain and Cottonwood sewage systems. This report covers both permit amendments and the two folders are returned herewith.

Project Description: Following is a brief description and rationale for the sewage amendment:

- (1) The Cottonwood longwall mining unit will shortly be relocated to the Trail Mountain mine. Major coal production will be converted from Cottonwood Mine to the Trail Mountain Mine. The work force associated with this change in underground mining will be supported by the Trail Mountain mine facilities.
- (2) The Trail Mountain sewage system is not designed to accommodate the projected longwall work force.
- (3) The Cottonwood/Wilberg sewage system was designed to provide for both the Cottonwood and Wilberg mines.
- (4) The permittee proposes to utilize the Cottonwood/Wilberg sewage system as a support to the Trail Mountain mine. The proposed project has been approved by DEQ. The approval letter dated March 17, 1995 has been included in the amendment application.
- (5) The Trail Mountain sewage system will be used to remove solids before pumping liquid to the Cottonwood/Wilberg sewage system. Therefore, the Trail Mountain and Cottonwood/Wilberg sewage system will be integrated and is adequate for the intended and projected use.



- (6) The liquid will be pumped from the Trail Mountain Surface Facilities underground following and adjacent to the Cottonwood mine beltline and connected to the existing Cottonwood/Wilberg sewer system.
- (7) Others who have been involved and who have provided written project approval include DEQ and Emery County Road Department.

Findings: The following findings are based on a field review of the application and requirements of R645-301 of the Utah Coal Rules.

- (1) Based on a field examination the permittee has not commenced any on the ground work.
- (2) Maps. Amended maps have been provided by the permittee and are as follows:
  - Trail Mountain #9 map, Figure 1, dated 3/29/95, sheet 1 of 1 shows the sewer line, collection building/pumphouse, Emery County Road and the intertie with the Cottonwood permit area.
  - Cottonwood Mine map, Figure 3, dated 3/29/95, sheet 1 of 1 shows the sewer line from the new conveyor portal, underground sewer line to the Cottonwood/Wilberg surface facilities and intertie with existing Cottonwood sewer systems.
- (3) Soils. The proposed sewage project lies within an existing disturbed area. Under the circumstances soil removal is not required.
- (4) Biology. The sewage project will be located in a disturbed area and no revegetation is required until final reclamation.
- (5) Land Use/Air Quality. The project lands are under the control of PacifiCorp except for that portion of the pipeline that will be located under the Emery County road. A copy of the approved encroachment permit has been included in the permittees amendment application. A copy of the Emery County approval is included as part of the enclosures. The permittee has satisfied the requirements of R645-103-234.

Page 3  
J. Helfrich  
Trail Mtn. Sewage 95C  
May 1, 1995

- (6) Engineering. The project has been designed. The plans and specifications approved by DEQ, Don A. Ostler, P.E. and meets the engineering requirements of the Utah Coal Rules.
- (7) Hydrology. The project lies within an existing disturbed area wherein hydrology requirements have been previously addressed and approved by the Division. (Cottonwood fan portal/overhead conveyor approved amendment, et. al.)
- (8) Emergencies. Breakdowns and emergencies to sewer system have been discussed on page 3-6 of the amendment.
- (9) Reclamation. Reclamation plan for the overhead coal conveyor which involves the same disturbed area has heretofore been approved by the Division.
- (10) Bond. Table 3-5 shows the breakdown for the current approved reclamation bond, and current bond is adequate to cover this project.

Recommendation

- (1) Recommend the amendments be approved.
- (2) That when the project is "field completed", the permittee submit updated, certified maps showing the changes that have been implemented, together with final narrative changes. This must be done 30 days after on-the-ground work is completed. Please submit 12 copies to Division of Oil, Gas, & Mining Salt Lake office. The approvals must be reflected in the MRP for both mines.

sd  
Enclosure  
cc: P.Grubaugh-Littig



# Emery County Road Department

P.O. Box 889  
Castle Dale, Utah 84518

Phone (801) 381-5450 or 381-2550  
Fax (801) 381-5239

## PERMIT

Permit #199511

Application having been made by PacifiCorp/Energy West Mining Company through Val Payne, its authorized agent, fees and a bond being waived in lieu of attached letter of financial responsibility, and the Application having been reviewed and accepted, permission is hereby granted Applicant to proceed with constructing a sewer line, at the location of Trail Mountain Mine across the Cottonwood Canyon Road #506 to the Cottonwood Mine Belt Portal.

### Stipulations:

1. Dust control during construction period.
2. Proper signing while construction is in effect.
3. Posting for safety during construction and traffic control (if needed).
4. Road repairs in the event of damages.
5. Final inspection upon completion of installation.
6. Strict compliance with Ordinance 8-7-85A.
7. Pipe crossings under the roadway shall be steel encased inside of right of way zone.

DATED this 1st day of May, 1995.

Supervisor

EMERY COUNTY ROAD DEPARTMENT

By Carol J. Ware

### INSPECTION AND RELEASE

The Emery County Road Department Supervisor inspected said site on the \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_\_, finds the following deficiencies which must be corrected before release can be considered.

Supervisor

EMERY COUNTY ROAD DEPARTMENT

By \_\_\_\_\_



March 31, 1995

Utah Coal Regulatory Program  
Division of Oil, Gas and Mining  
355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203

Attention: Pamela Grubaugh-Littig

**RE: TRAIL MOUNTAIN MINE SEWAGE SYSTEM, PACIFICORP, TRAIL MOUNTAIN MINE,  
ACT/015/009, EMERY COUNTY, UTAH**

PacificCorp requests that an amendment be granted to install a sewage system for the Trail Mountain Mine as described on pages 3-6, revised 3/29/95 and 3-6.1, added 3/29/95. The sewage system was approved by the Division of Water Quality on March 17, 1995 (See Attachment 1).

To help with the review of this amendment, Figures 1 through 4 have been included herein. Figure 1 depicts the system location at the mine site. Figure 2 is a typical cross-section of the buried line. Figures 3 and 4 are detailed drawings of the Collection/Pumping Station.

Reclamation costs for the collection/pumping station have been included on page 3-72, revised 3/29/95. Total reclamation costs have been updated on page 3-81, revised 3/29/95. Reclamation costs of the line are included in the Earth Moving and Recontouring costs.

Upon approval, please replace pages 3-6, 3-72 and 3-81 of the current permit with the enclosed pages, revised 3/29/95. Please add pages 3-6.1 and 3-72.1, added 3/29/95, to the permit. The surface facilities map for the mine will be updated and submitted upon completion of the project.

If there are any questions, please call Guy Davis at 653-2312, ext. 19 or me at 653-2312, ext. 16.

Sincerely,

A handwritten signature in cursive script that reads "Val Payne".

Val Payne  
Sr. Environmental Engineer

cc: J. Christensen  
D. Grange  
L. LaFrentz  
M. Moon  
B. Malencik (Price DOGM)  
File ✓

# APPLICATION FOR PERMIT CHANGE

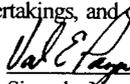
Title of Change: <div style="font-size: 1.2em; font-family: cursive;">TRAIL MOUNTAIN MINE SEWAGE SYSTEM</div>	Permit Number: <i>ACT 0151009</i>
	Mine: <i>TRAIL MOUNTAIN</i>
	Permittee: <i>PACIFICORP</i>

Description, include reason for change and timing required to implement:  
*ADDITION OF SEWAGE LINES AND COLLECTION/PUMPING STATION FOR THE MINE.  
 IMPLEMENTATION BY JUNE 1, 1995*

<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	1. Change in the size of the Permit Area? _____ acres <input type="checkbox"/> increase <input type="checkbox"/> decrease.
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	2. Change in the size of the Disturbed Area? _____ acres <input type="checkbox"/> increase <input type="checkbox"/> decrease.
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	3. Will permit change include operations outside the Cumulative Hydrologic Impact Area?
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	4. Will permit change include operations in hydrologic basins other than currently approved?
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	5. Does permit change result from cancellation, reduction or increase of insurance or reclamation bond?
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	6. Does permit change require or include public notice publication?
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	7. Permit change as a result of a Violation? Violation # _____
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	8. Permit change as a result of a Division Order? D.O.# _____
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	9. Permit change as a result of other laws or regulations? Explain: _____
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	10. Does permit change require or include ownership, control, right-of-entry, or compliance information?
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	11. Does the permit change affect the surface landowner or change the post mining land use?
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	12. Does permit change require or include collection and reporting of any baseline information?
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	13. Could the permit change have any effect on wildlife or vegetation outside the current disturbed area?
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	14. Does permit change require or include soil removal, storage or placement?
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	15. Does permit change require or include vegetation monitoring, removal or revegetation activities?
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	16. Does permit change require or include construction, modification, or removal of surface facilities?
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	17. Does permit change require or include water monitoring, sediment or drainage control measures?
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	18. Does permit change require or include certified designs, maps, or calculations?
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	19. Does permit change require or include underground design or mine sequence and timing?
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	20. Does permit change require or include subsidence control or monitoring?
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	21. Have reclamation costs for bonding been provided or revised for any change in the reclamation plan?
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	22. Is permit change within 100 feet of a public road or perennial stream or 500 feet of an occupied dwelling?
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	23. Is this permit change coal exploration activity <input type="checkbox"/> inside <input type="checkbox"/> outside of the permit area?

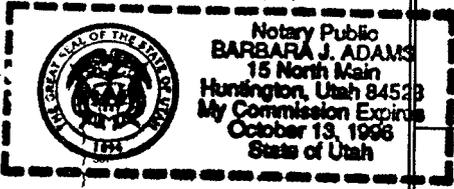
**Attach 3 complete copies of proposed permit change as it would be incorporated into the Mining and Reclamation Plan.**

I hereby certify that I am a responsible official of the applicant and that the information contained in this application is true and correct to the best of my information and belief in all respects with the laws of Utah in reference to commitments, undertakings, and obligations, herein.

  
 Signed - Val E. Payne - Position - SR. ENV. ENGINEER - Date 4/3/95

Subscribed and sworn to before me this 3rd day of April, 1995  
Barbara J. Adams  
 Notary Public

My Commission Expires: 10-13- 1996  
 Attest: STATE OF Utah  
 COUNTY OF Emery



Received by Oil, Gas & Mining

---

ASSIGNED PERMIT CHANGE NUMBER





# State of Utah

## DEPARTMENT OF ENVIRONMENTAL QUALITY DIVISION OF WATER QUALITY

Michael O. Leavitt  
Governor

Dianne R. Nielson, Ph.D.  
Executive Director

Don A. Ostler, P.E.  
Director

288 North 1460 West  
P.O. Box 144870  
Salt Lake City, Utah 84114-4870  
(801) 538-6146 Voice  
(801) 538-6016 Fax  
(801) 536-4414 T.D.D.

March 17, 1995

Mr. Val E Payne  
PacifiCorp Power Supply Field Office  
PO Box 1005  
Huntington, UT 84528

Re: Trail Mountain Mine Sewage Disposal

Dear Mr. Payne:

We have reviewed plans and specifications for construction of pump stations and pressure sewer to serve Trail Mountain Mine. We received the plans on February 21, 1995.

The plans and specifications, as submitted, comply with the Utah Water Quality Rules, (R317, UAC). A construction permit, as constituted by this letter, is issued subject to the following conditions:

1. Any modifications to the approved plans and specifications must be reviewed and approved before construction.
2. Facilities constructed under this permit should not be placed in service until the Division of Water Quality has completed a final inspection and has authorized you to do so.

The primary components of the project include construction of approximately 22,900 feet of four inch diameter pressure sewer and two pump stations. The differential elevation between Trail Canyon Mine and Cottonwood Mine is 390 feet. The pressure sewer will be constructed in existing underground mine working which connect the Trail Mountain Mine with the cottonwood Mine. The existing septic tank drainfield at Cottonwood Mine will be used to treat the Wastewater. Existing septic tanks at Trail Mountain Mine will be used to remove solids before pumping. The total wastewater loading shall not exceed 11,340 gallons per day, which is equivalent to 324 miners per day.



Val E Payne  
March 17, 1995  
Page 2

The issuance of this permit does not relieve you in any way of obtaining applicable permits from local jurisdictions.

If the approved project is not under construction within one year, then it will become necessary to resubmit the plans and specifications for reissuance of the construction permit.

An approved set of plans and specifications bearing our construction permit stamp is returned herewith. These plans must be kept available for examination during inspections conducted by representatives of the Division of Waster Quality, and for resolution of any conflicts or discrepancies which may arise during construction. Please provide us an additional set of plans for our records.

Please advise us of the beginning of the construction. This will enable us to schedule periodic inspections and monitor construction.

Thank you for your cooperation. If we can be of further assistance, please contact David Ariotti of our staff at 637-3671.

Sincerely,

Utah Water Quality Board



Don A. Ostler, P.E.  
Executive Secretary

DAO:dra:rvg

cc: David Ariotti, Southeast District Engineer  
Claron Bjork, Southeastern Utah District Health Dept

L:\KLB\DISTENG\TRAILM\TN.LTR  
FILE:

ENERGY WEST  
MINING COMPANY  
HUNTINGTON, UTAH 84528

TRAIL MTN./COTTONWOOD MINES  
PROPOSED SEWER SYSTEM

DRAWN BY: K. LARSEN

FIGURE 1

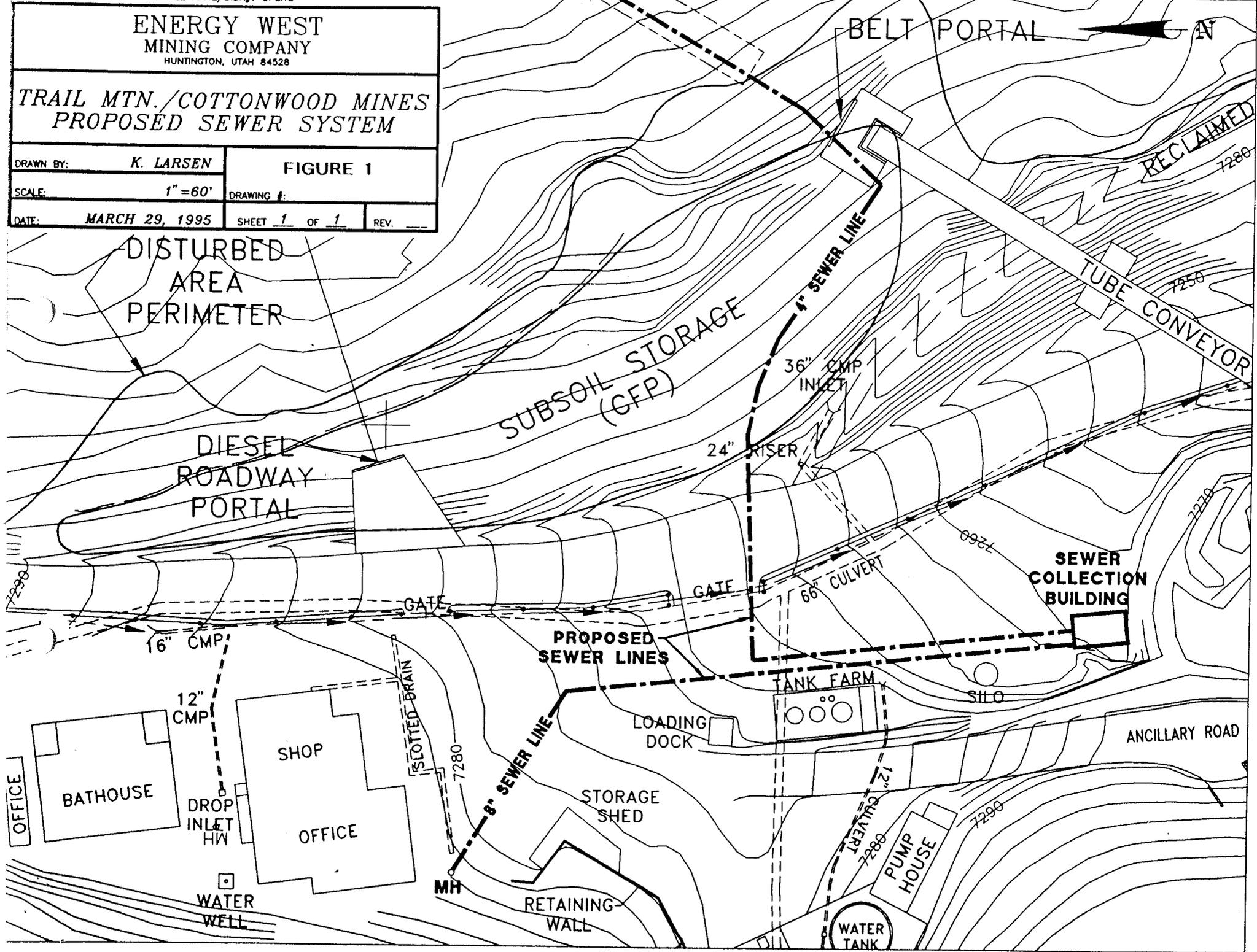
SCALE: 1" = 60'

DRAWING #:

DATE: MARCH 29, 1995

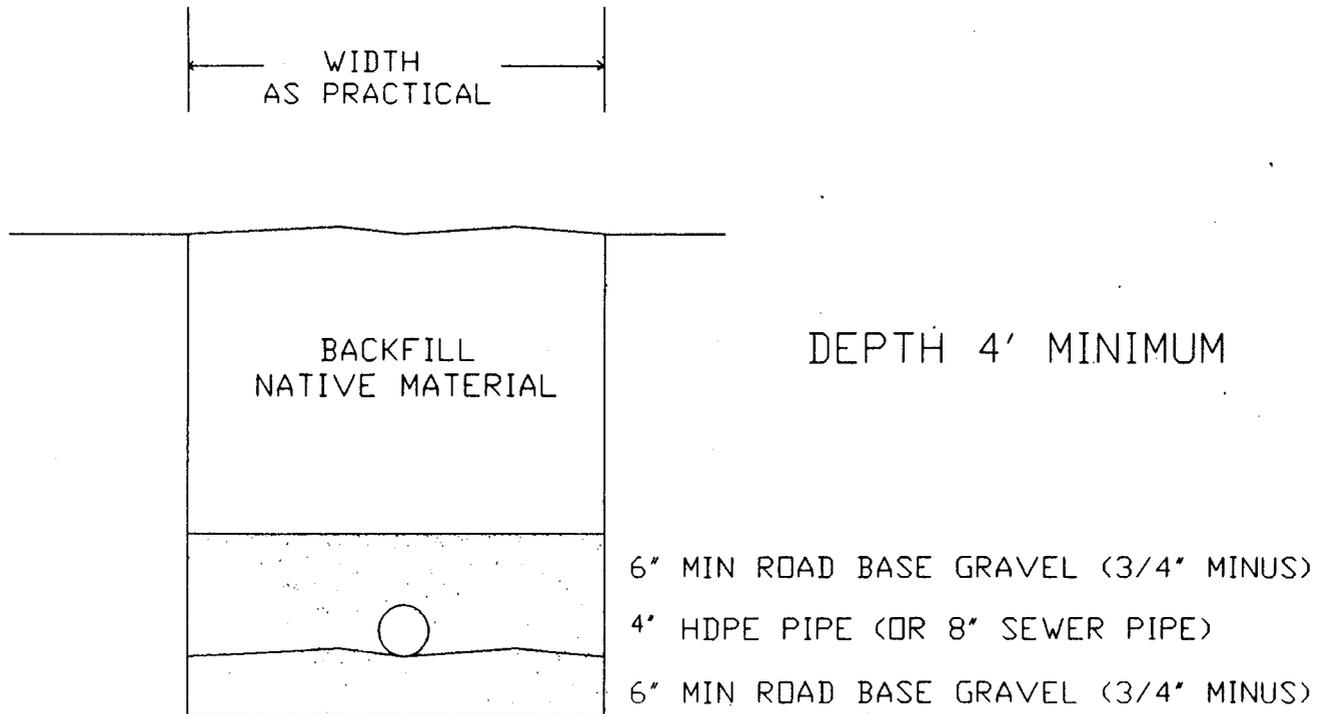
SHEET 1 OF 1

REV.



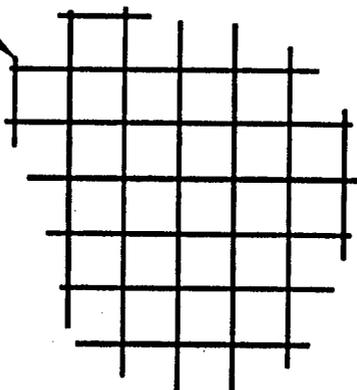
## FIGURE 2

### TYPICAL TRENCH CROSS-SECTION FOR BURIED WASTE WATER LINE





#6 BAR, 12" C-C  
 BOTH WAYS  
 TWO (2) LAYERS



A



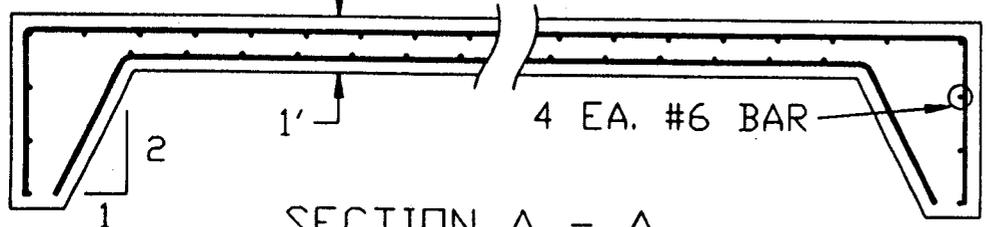
A



18'-4"

29'-4"

29'-4"



SECTION A - A

FIGURE 4

<small>OLD FILE NAME/NO.</small> <b>ENERGY WEST</b> <b>MINING COMPANY</b> <small>(INCORPORATED, U.S.A. 1962)</small>	
<b>TRAIL MOUNTAIN MINE</b> <b>SEWER PUMPING STATION</b> <b>FOUNDATION DETAIL</b>	
<small>DESIGN BY</small> J. C.	<small>PROJECT NO.</small> TMSWR
<small>SCALE</small> NONE	<small>DATE</small> 8-27-88
<small>APP. BY</small> J. W. J.	<small>DATE</small> 8-27-88

PacifiCorp  
Trail Mountain Mine

plant for use as potable water. Some mine water is used for wash down. Water is treated on the surface at a maximum rate of 10 gpm and then stored in two 22,000 gallon capacity fresh water storage tanks. The treatment plant and process are approved by the State of Utah, Department of Environmental Quality, Division of Drinking Water. A schematic of the water system is shown in Figure 3-2. This systems is connected to the mine water system at the belt portal location. If the need should develop for filling water trucks, or supplying alternate water to the mine or surface system, this water would be drawn from the 2-22,000 gallon surface storage tanks referred to in Figure 3-2 (see Figure 3-3 for underground water system).

### 3.2.7 SEWAGE SYSTEM

The septic system for the Trail Mountain Facility was approved by the Division of Water Quality on March 17, 1995. The system is somewhat unique in that the grey-water portion of the sewage is separated and eventually enters the Cottonwood Mine sewage system and leach field for final disposal.

The sewage enters one or both of the septic tanks, depending on location, removing the majority of solids from the sewage. The grey-water then flows, via an 8 inch line, to the collection/pumping station, located south of the rock dust silo. The collection/pumping station contains a 10,000 gallon holding tank and two pumps. From this station, the grey-water is pumped under the county road and into the Cottonwood Mine belt entry, through a 4 inch buried line. The 4 inch line follows an underground workings route to the Cottonwood Mine sewage system and leach field.

In the case of emergencies, the system can dispose of the sewage grey-water at the collection/pumping station by haulage truck to the Cottonwood Mine sewage system or to

another facility licensed to accept septic tank waste. For short term emergencies, the storage capacity of the collection tank can handle more than the 24 hour sewage waste generation of the mine.

### 3.2.8 WATER DIVERSION STRUCTURES

Three water diversion structures are maintained at the Trail Mountain Mine. A concrete curb and gutter running north-south through the facilities area diverts water from the disturbed area into the sediment pond. A 66 inch culvert that has been placed in Cottonwood Creek has allowed the facilities pad area to be extended, and also allow Cottonwood Creek to flow beneath the mining operation. The length of this culvert is approximately 1,900 feet, extending from below the sedimentation pond to the property boundary north of the bathhouse (see Chapter 7). A 48 inch culvert located at the mouth

**SURETY BOND ESTIMATE  
TABLE 3-4**

<u>ITEM</u>	<u>AMOUNT LABOR MAN/SHIFT<sup>1,8</sup></u>	<u>COST/MAN SHIFT</u>	<u>LABOR COST</u>	<u>EQUIPMENT<sup>9</sup> REQUIREMENTS</u>	<u>MATERIAL<sup>4</sup> EQUIPMENT SHIFT/COST<sup>6</sup></u>	<u>MATERIALS EQUIPMENT TOTAL COST</u>	<u>TOTAL LABOR MATERIALS EQUIPMENT<sup>11</sup></u>
<b>SURFACE FACILITY REMOVAL</b>							
Substation and Powerline	1/3 1/3 2/3	160 160 120	480 480 720	Truck Crane None	3/250 <sup>(13)</sup> 3/381	750 1143	1230 1623 720
Office/Shop /Bathhouse	1/10 1/10 2/5	160 160 120	1600 1600 1200	Truck Backhoe/Loader None	10/250 10/225	2500 2250	4100 3850 1200
Water and Fuel System	1/4 1/4 1/4	160 160 120	640 640 480	Truck Backhoe/Loader None	4/250 2/225	1000 450	1640 1090 480
Sewer System/ Collection Pumping Station	1/1 2/4 2/3	120 123 123	120 984 738	Pump and Plug Septic Tanks Utility Truck 25 Ton Crane 235 Hyd. Excavator	1/100 2/70 1/297 1/567	100 140 891 567	220 1124 1629 567
Generator House	1/1 1/1 1/1	160 160 120	160 160 120	Truck Backhoe/Loader None	1/250 1/225	250 225	410 385 120

PacifiCorp  
Trail Mountain Mine

**SURETY BOND ESTIMATE**  
**TABLE 3-4**

Storage	1/3	160	480	Truck	3/250	750	1230
Building	1/3	160	480	Backhoe/Loader	3/225	675	1155
	2/3	120	720	None			720

**TABLE 3-5  
RECLAMATION COST BREAKDOWN FOR  
RECLAMATION BOND**

	<u>PRESENT BOND</u>
1. Surface Facility Removal	\$108,786
2. Earth Moving and Re-contouring	108,407
3. Rip-rap	10,980
4. Revegetation	56,096
5. Miscellaneous*	<u>70,920</u>
 SUBTOTAL (1984 Dollars)	 \$355,189
+10% Contingency	35,519
+4.3% Reclamation Management	<u>15,273</u>
 TOTAL	 \$405,981
Add an inflation factor of 6.78 percent over 5 year Permit Term	<u>157,599</u>
 (1989 Dollars) Total Surety Estimate	 \$563,580
+6.78% over 5 years	<u>218,777</u>
 (1994 Dollars) Total Surety Estimate	 \$782,357
 **1993 Exploration Drilling (1994 Dollars)	 144,266
 Suggested Surety Estimate	 <u>\$926,623</u>

\*Miscellaneous costs include all monitoring and maintenance related costs for successful reclamation establishments.

\*\*Total includes +10% Contingency = 12,622 and +4.3% Reclamation Management = 5,427. Original Cost 1994 Dollars = 126,217.