



# State of Utah

DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

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355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203  
801-538-5340

February 15, 1993

Mr. David Pearce  
Sunnyside Cogeneration Associates  
P.O. Box 58087  
Salt Lake City, Utah 84158-0087

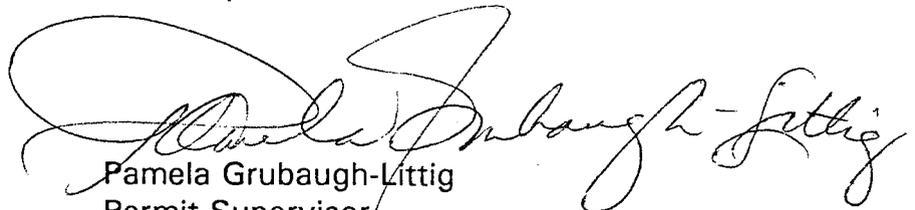
Dear Mr. Pearce:

Re: BTCA Area, Sunnyside Cogeneration Associates, Coarse Refuse and Slurry, ACT/007/035-93A, Folder #2, Carbon County, Utah

Enclosed please find a proposal from Sunnyside Coal Company that was received January 11, 1993. This proposal is now in the permit area for the Sunnyside Cogeneration Associates Facility. Please review this information and notify the Division of the amendment to the currently approved plan to include this pertinent information by March 12, 1993. This is generally not the amendment procedure, but the recent permit area transfer necessitates this permitting action.

If you have any questions, please call me.

Sincerely,



Pamela Grubaugh-Littig  
Permit Supervisor

Enclosure

cc: Brian Burnett, Callister, Duncan, and Nebeker  
Joe Fielder, Sunnyside Coal Company

# Sunnyside Coal Company

Operations • Highway 123 • P.O. Box 99 • Sunnyside, Utah 84539

ACT/007/007 #2

-92B  
ACT/007/035  
(93A)

January 6, 1993

Ms. Pamela Grubaugh-Littig  
Permit Supervisor  
Division of Oil, Gas & Mining  
355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203

RECEIVED

JAN 11 1993

DIVISION OF  
OIL GAS & MINING

Dear Pamela:

Re: BTCA Area

Sunnyside Coal Company requests the addition of one area to its current list of Best Technology Currently Available Sediment Control Methods for Small Permit Areas. The area described on the attached sheets represents 0.7% of the Total Disturbed Area.

The surface elevation of this area is below existing drainage controls. Existing vegetative cover is utilized to treat storm water runoff.

An updated list of Sunnyside Coal Company's BTCA Area (including the requested addition) is enclosed.

Since this area is in SCA's Permit Application Area, you may wish to send a copy of this to them.

Sincerely,



Pete Hess  
Environmental Coordinator

PH:cj

Enclosures

Corporate Offices  
The Registry  
1113 Spruce Street  
Boulder, CO 80302  
303-938-1506  
FAX: 303-938-5050

Operations  
Highway 123  
P.O. Box 99  
Sunnyside, UT 84539  
801-888-4421  
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## 1. General

The area surrounding the Clearwater Pond Topsoil Pile is one area within Sunnyside Coal Company's Permit ACT/007/007 that has surface runoff which does not report to a sediment pond. This amendment is submitted to include this area in the list of approved areas utilizing BTCA sediment-control methods.

## 2. Environmental Impacts

### a. Soil Resources

No additional impacts to the soil resources are anticipated. Vegetative cover secures the area from the effects of wind and water erosion. This area is currently in the post-law disturbed area for the Surface Facilities.

### b. Biological Resources

No additional impacts to the vegetative and/or wildlife resources are anticipated.

### c. Land Use and Air Quality

The pre-mining and post-mining land use remains the same. No additional impacts to cultural and historical resources are anticipated as there is no additional disturbance anticipated. No changes to the existing Bureau of Air Quality permit are anticipated. Projected production rates remain below 1mm tpy.

### d. Geology

The existing permit geological information will remain unchanged. The plan for casing and sealing exploration holes and bore holes remains the same. No subsidence is anticipated in this area.

### e. Hydrology

Hydrological information for the area is attached. This area is very small (1.9 acres), and the surface water runoff does not report to any sediment pond. The surface elevation of this area is below existing drainage controls and is on the permit boundary on two sides. There is no future use planned for this area.

3. Operation & Engineering

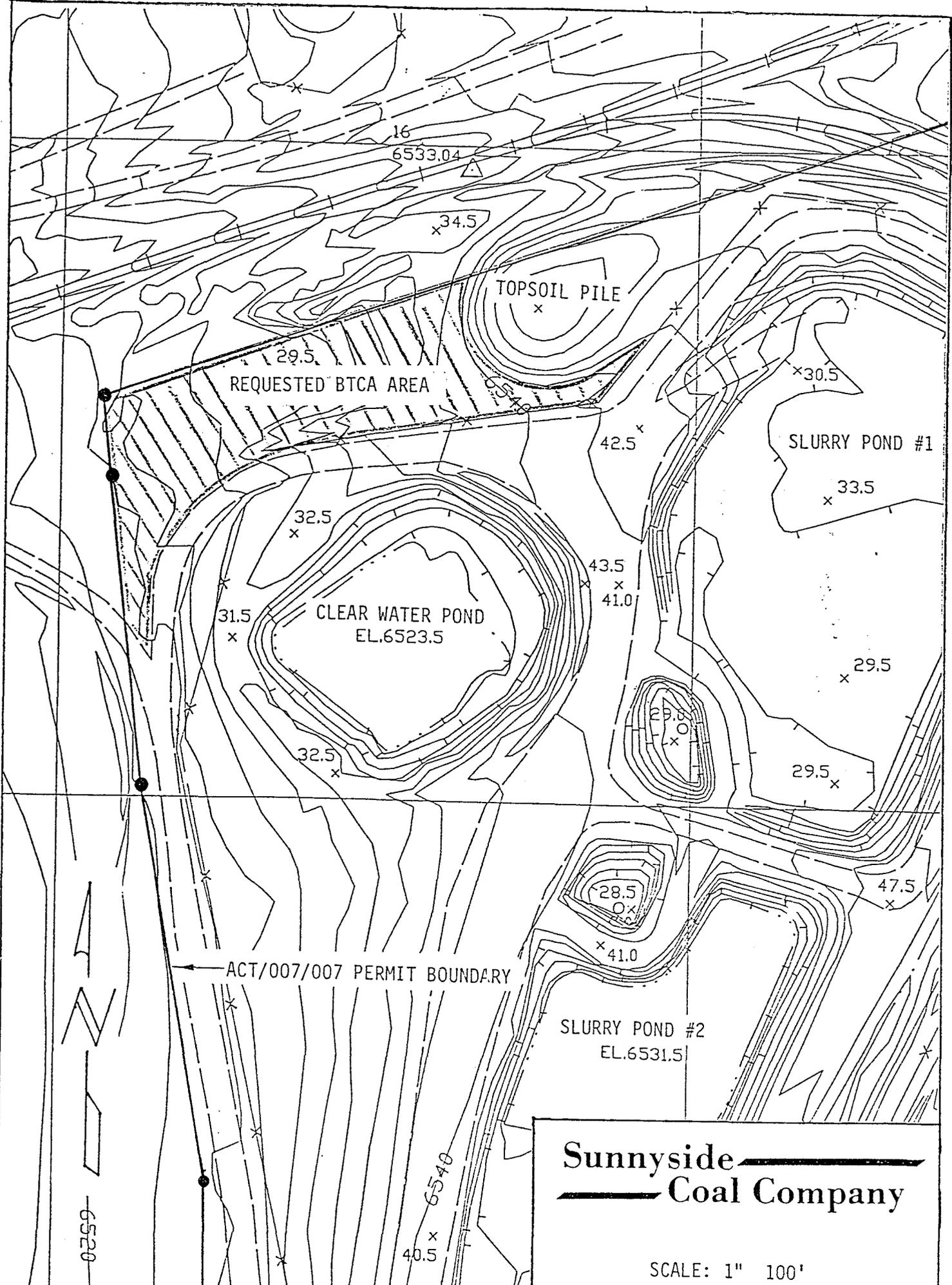
Sediment control measures for this area consist of vegetative cover and the use of berms to control (i.e., divert) runoff from adjacent areas. A berm at the toe of the topsoil stockpile controls the erosion of this resource.

4. Reclamation Plan

This addition to the Best Technology Currently Available Sediment Control Methods for Small Permit Areas does not alter final reclamation goals or plans for this area. As Slurry Cells #1 and #2 are reclaimed, the Clearwater Pond will no longer need to remain active. The topsoil pile within the area will be recovered and used to achieve final contour prior to seeding of the Clearwater Pond area. Re-disturbance of the area will be minimized, and any area which is barred will be scarified and reseeded according to reclamation plans within the approved permit.

5. Bonding

No additional or incremental bonding is required for this area.



**Sunnyside**  
**Coal Company**

SCALE: 1" 100'

SUNNYSIDE COAL COMPANY  
ACT/007/007  
BEST TECHNOLOGY CURRENTLY AVAILABLE  
SEDIMENT CONTROL METHODS  
FOR SMALL PERMIT AREAS

Affected Area	(BTCA) Yes/No	Drawing Number	Area (Acres)	Calculated **Runoff (Acre Feet)	Treatment Utilized	Comments
nd above Twinshafts	No		NA 0.06	NA	Vegetative Filter	Outside disturbed boundary. Pre Law Disturbance
winshafts Area	No	A5-0105	NA 0.36	NA	Silt Fence/or Straw Bales	Area contains Sediment Controls done in Good Faith.
2 Canyon Drainage Under Storage Belt	No		NA	NA	Silt Fence/or Straw Bales	Being evaluated.
anshaft Substation Area, General Area	Yes	A4-0213	0.13	0.0031	Silt Fence/or Straw Bales	
inshaft Substation Area, East Field	Yes	A4-0213	1.29	0.0096	Vegetative Filter	
inshaft Substation Area, West Field	Yes	A4-0213	1.19	0.0045	Vegetative Filter	
Whitmore Fan Area	Yes	A5-0109	2.18	0.0364	Silt Fence/or Straw Bales	
Whitmore Test Plot	Yes	A4-0265	0.12	0.0005	Vegetative Filter	
ole Canyon Shaft Area	Yes	A5-0108	0.41	0.0054	Silt Fence/or Straw Bales	
fety Training Field	Yes	A4-0264	3.73	0.1113	Vegetative Filter	
ck Dust Bulk Tank	Yes	A4-0264	0.06	0.0124	Vegetative Filter	
2 Canyon Fan	Yes	A5-0106	0.50	0.0105	Silt Fence/or Straw Bales	Scheduled for Reclamation in 1991.
an Canyon Area	Yes	A5-0110	0.95	0.0728	Silt Fence/or Straw Bales	Being Reclaimed 1990-1991.
ater Canyon Area	Yes	A5-0107	0.99	0.1272	Silt Fence/or Straw Bales	Being Reclaimed
utcrop Fan Area	Yes	A5-0111	2.78	0.1614	Silt Fence/or Straw Bales	Rock gabian is also in place.
adside Substation	Yes	A4-0263	0.27	0.0055	Silt Fence/or Straw Bales	
earwater Pond Topsoil Pile Area	Yes	PT5-20,4/4	1.90	0.0700	Vegetative Filter	
Whitmore Ex-Mine Water Discharge Point	Yes	Per Top #2	0.10	0.0004	Vegetative Filter	

Total BTCA Area = 16.87  
 Total Disturbed Area = 286.98  
 Total Permit Area = 14475.00  
 % Disturbed Area utilizing BTCA = 5.87% For 10-Year 24-Hour event.  
 % Permit Area utilizing BTCA = 0.1165%  
 Total BTCA Runoff in Acre Feet = 0.6308

\* Originally Permitted as Small Area Exemptions.

\*\*Calculated Runoff is for Total Drainage, not just BTCA Acreage

Project Title = Clearwater Pond ASCA  
 WATERSHED HYDROGRAPH

Inflow into structure # 1  
 Structure type: Null

-- Watershed data for watershed # 1  
 Curve number = 79.0  
 Area = 1.9 acres  
 Hydraulic length = 650.00 Feet  
 Elevation change = 19.0 feet.  
 Concentration time = 0.15 hours  
 Concentration time type = SCS Upland Curves  
 Unit hydrograph type = Disturbed

-- Total Area = 1.9 acres

-- Storm data  
 Total precipitation = 1.8 inches  
 Storm type = SCS Type 2 storm, 24 hour storm  
 Peak Discharge = 0.68 cfs  
 Discharge volume = 0.07 acre ft

time (hr.)	rainfall (in.)	hydrograph (cfs)		time (hr.)	rainfall (in.)	hydrograph (cfs)
0.00	0.000	0.000	*	0.20	0.004	0.000
0.40	0.004	0.000	*	0.60	0.004	0.000
0.80	0.004	0.000	*	1.00	0.004	0.000
1.20	0.004	0.000	*	1.40	0.004	0.000
1.60	0.004	0.000	*	1.80	0.004	0.000
2.00	0.004	0.000	*	2.20	0.004	0.000
2.40	0.004	0.000	*	2.60	0.004	0.000
2.80	0.004	0.000	*	3.00	0.004	0.000
3.20	0.005	0.000	*	3.40	0.005	0.000
3.60	0.005	0.000	*	3.80	0.005	0.000
4.00	0.005	0.000	*	4.20	0.006	0.000
4.40	0.006	0.000	*	4.60	0.006	0.000
4.80	0.006	0.000	*	5.00	0.006	0.000
5.20	0.006	0.000	*	5.40	0.006	0.000
5.60	0.006	0.000	*	5.80	0.006	0.000
6.00	0.006	0.000	*	6.20	0.007	0.000
6.40	0.007	0.000	*	6.60	0.007	0.000
6.80	0.007	0.000	*	7.00	0.007	0.000
7.20	0.007	0.000	*	7.40	0.007	0.000
7.60	0.007	0.000	*	7.80	0.007	0.000
8.00	0.007	0.000	*	8.20	0.009	0.000
8.40	0.009	0.000	*	8.60	0.010	0.000
8.80	0.010	0.000	*	9.00	0.010	0.000
9.20	0.012	0.000	*	9.40	0.012	0.000
9.60	0.012	0.000	*	9.80	0.013	0.000
10.00	0.013	0.000	*	10.20	0.017	0.000
10.40	0.017	0.000	*	10.60	0.019	0.000
10.80	0.022	0.000	*	11.00	0.022	0.000
11.20	0.035	0.000	*	11.40	0.034	0.000
11.60	0.154	0.035	*	11.80	0.274	0.336
12.00	0.274	0.676	*	12.20	0.052	0.297

time (hr.)	rainfall (in.)	hydrograph (cfs)		time (hr.)	rainfall (in.)	hydrograph (cfs)
12.20	0.052	0.297				
12.40	0.052	0.244	*	12.60	0.039	0.168
12.80	0.027	0.122	*	13.00	0.027	0.113
13.20	0.019	0.088	*	13.40	0.020	0.085
13.60	0.017	0.076	*	13.80	0.015	0.068
14.00	0.015	0.067	*	14.20	0.011	0.052
14.40	0.011	0.050	*	14.60	0.011	0.049
14.80	0.011	0.049	*	15.00	0.011	0.049
15.20	0.011	0.049	*	15.40	0.011	0.050
15.60	0.011	0.050	*	15.80	0.011	0.050
16.00	0.011	0.051	*	16.20	0.006	0.036
16.40	0.006	0.033	*	16.60	0.006	0.031
16.80	0.006	0.031	*	17.00	0.007	0.031
17.20	0.006	0.031	*	17.40	0.006	0.031
17.60	0.006	0.031	*	17.80	0.006	0.031
18.00	0.007	0.032	*	18.20	0.006	0.032
18.40	0.006	0.032	*	18.60	0.006	0.032
18.80	0.006	0.032	*	19.00	0.007	0.032
19.20	0.006	0.032	*	19.40	0.006	0.032
19.60	0.006	0.032	*	19.80	0.006	0.033
20.00	0.006	0.033	*	20.20	0.004	0.024
20.40	0.004	0.023	*	20.60	0.004	0.022
20.80	0.004	0.022	*	21.00	0.004	0.022
21.20	0.004	0.022	*	21.40	0.004	0.022
21.60	0.004	0.022	*	21.80	0.004	0.022
22.00	0.004	0.022	*	22.20	0.004	0.022
22.40	0.004	0.022	*	22.60	0.004	0.023
22.80	0.004	0.022	*	23.00	0.004	0.022
23.20	0.004	0.022	*	23.40	0.004	0.022
23.60	0.004	0.023	*	23.80	0.004	0.023
24.00	0.004	0.023	*	24.20	0.000	0.005
24.40	0.000	0.002	*	24.60	0.000	0.000
24.80	0.000	0.000	*			