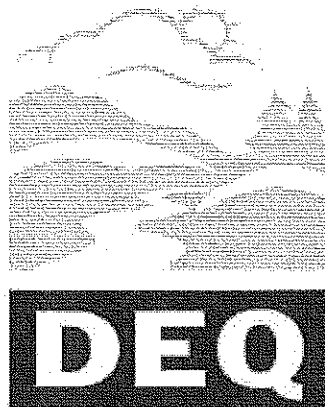


11/30/1972

**OREGON
ENVIRONMENTAL QUALITY
COMMISSION MEETING
MATERIALS**



State of Oregon
**Department of
Environmental
Quality**

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HMP

AGENDA

Environmental Quality Commission Meeting

November 30, 1972

Second Floor Auditorium, Public Service Bldg.

920 S.W. 6th Avenue, Portland

11:00 a.m.

- A. Minutes of October 4, 1972 & October 25, 1972 EQC Meeting
- B. Project Plans for October 1972
- C. Natural, Scenic & Recreational Areas (Committee Report)
- D. Chem-Nuclear Services, Inc. Application to Establish a Hazardous Waste Disposal Site in Gilliam County near Arlington, Oregon (Staff Report)
- E. Standard Oil Co. of California (Application for Permit to Drill Exploratory Oil Well in Malheur County)
- F. Depoe Bay Sanitary District (Application for Sewerage Planning Advance)
- G. Harry Steward Mining Operation, Wolf Creek (Appeal of Permit Denial)
- H. Air Pollution Episode Emergency Action Plan (Status Report)
- I. CWAPA Variances (Confirming approval by EQC)
 - 1) No. 72-7 to Brazier Forest Products, Inc.
 - 2) No. 72-8 to Mt. Hood Box Co.
- J. Tax Credit Applications
- K. Ferbasche Heights - Certification Relative to Mandatory Annexation Coquille

2:00 p.m.

- L. Formal Hearing to Consider Amendment of Oregon's Water Quality Implementation and Enforcement Plan, Oregon Administrative Rules Chapter 340, Division 4, Sub-division 1, Section 41-075

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AGENDA

Environmental Quality Commission Meeting

November 30, 1972

Second Floor Auditorium, Public Service Bldg.

920 S.W. 6th Avenue, Portland

11:00 a.m.

- A. ~~Minutes of October 4, 1972 & October 25, 1972 EQC Meeting~~ (Chairman)
- B. ~~Project Plans for October 1972~~ (Weathersbee)
- C. ~~Natural, Scenic & Recreational Areas (Committee Report) (St. Rep. Norma Paulus)~~
- D. ~~Chem-Nuclear Services, Inc. Application to Establish a Hazardous Waste Disposal Site in Gilliam County near Arlington, Oregon (Staff Report)~~
- E. ~~Standard Oil Co. of California (Application for Permit to Drill Exploratory Oil Well in Malheur County)~~ (Ashbaker)
- F. ~~Depee Bay Sanitary District (Application for Sewerage Planning Advance) (Bolton)~~
- G. ~~Harry Steward Mining Operation, Wolf Creek (Appeal of Permit Denial)~~ (Neff)
- H. Air Pollution Episode Emergency Action Plan (Status Report) (Snyder)
- deleted* → I. CWAPA Variances (Confirming approval by EQC) (Snyder)
1) No. 72-7 to Brazier Forest Products, Inc.
2) No. 72-8 to Mt. Hood Box Co.
- J. ~~Tax Credit Applications~~ (Sawyer)
- K. ~~Ferbasche Heights - Certification Relative to Mandatory Annexation Coquille~~

2:00 p.m.

- L. ~~Formal Hearing to Consider Amendment of Oregon's Water Quality Implementation and Enforcement Plan, Oregon Administrative Rules Chapter 340, Division 4, Sub-division 1, Section 41-075~~ (Sawyer)

MINUTES OF THE FORTIETH MEETING
of the
Oregon Environmental Quality Commission
November 30, 1972

The fortieth regular meeting of the Oregon Environmental Quality Commission was called to order by the Chairman at 11:00 a.m., Thursday, November 30, 1972 in the Second Floor Auditorium of the Public Service Building, 920 S.W. 6th Avenue, Portland, Oregon. All members were present including B.A. McPhillips, Chairman, Arnold M. Cogan, George A. McMath, Edward C. Harms, Jr., and Storrs S. Waterman.

Participating staff members were L.B. Day, Director; E.J. Weathersbee and K.H. Spies, Deputy Directors; Harold M. Patterson, Harold L. Sawyer and Fred M. Bolton, Division Directors; C. Kent Ashbaker, Water Quality Control Assistant Division Director; Pat H. Wicks, Associate Engineer; Donald Neff, Assistant District Engineer; B.J. Seymour, Information Director; R. Bruce Snyder, Meteorologist; and Ray P. Underwood and R. Haskins, Legal Counsel.

MINUTES OF OCTOBER 4 and 25, 1972 MEETINGS

It was MOVED by Mr. Cogan seconded by Mr. McMath, and carried that the minutes for the thirty-eighth and thirty-ninth meetings of the Commission held in Portland on October 4, 1972 and October 25, 1972, respectively, be approved as prepared.

Mr. Day announced that the public hearing for the proposed adoption of revisions to the administrative rules governing kraft mill emissions will be held on December 21, 1972 in Salem, at the Civic Center, 555 Liberty St. S.E., and that public hearings for veneer drier and aluminum mill regulations will be scheduled later.

PROJECT PLANS FOR OCTOBER, 1972

It was MOVED by Mr. Waterman, seconded by Mr. Cogan and carried that the actions taken by the Department during the month of October 1972 as reported by Mr. Weathersbee regarding the following 66 domestic sewerage, 31 industrial waste disposal, 21 air quality control and 4 solid waste management projects be approved:

Water Quality Control

<u>Date</u>	<u>Location</u>	<u>Project</u>	<u>Action</u>
<u>Municipal Projects (66)</u>			
10-2-72	Bear Creek Valley Sanitary Authority	Change Order No. 1 riprap placement	Approved
10-2-72	Waldport	Ridgewood No. 1 Subd. sewers	Prov. app.
10-2-72	Pendleton	Grecian Heights Subd. sewers	Prov. app.
10-2-72	Portland	Change Order No. 1 secondary sewage treatment plant project	Approved
10-2-72	Oak Lodge Sanitary District	Addendum No. 1 sewage treatment plant project	Approved
10-2-72	Bay City	Change Order #A-3 sewer system	Approved
10-4-72	Oregon City	Arista Heights sewer	Prov. app.
10-4-72	East Salem Sewage & Drainage Dist. I	Mitchell's Subd. sewers	Prov. app.
10-4-72	Lake Oswego	LID 142, Hill Way sewers	Prov. app.
10-4-72	Woodburn	Industrial Park Road sewer	Prov. app.
10-4-72	Albany	20 sanitary sewer projects	Prov. app.
10-4-72	North Roseburg Sanitary Dist.	Rancho Vista Subd. sewers	Prov. app.
10-4-72	Gresham	S.E. 221st Drive sewer	Prov. app.
10-4-72	Tri-City Sanitary District	Septic tank dumping station	Prov. app.
10-4-72	Gresham	Shelburne Subd. sewers	Prov. app.
10-5-72	USA (Aloha)	Four Seasons #13 Subd. sewers	Prov. app.
10-5-72	Portland	S.W. 32nd & Idaho St. sewer	Prov. app.
10-6-72	USA (Forest Grove)	Quince St.-24th Ave. sewer	Prov. app.
10-6-72	USA (Metzger)	Greenway Subd. sewers, Units 3 and 4	Prov. app.
10-10-72	Hermiston	East Dogwood Ave. sewer	Prov. app.
10-10-72	North Roseburg Sanitary Dist.	Slope Street san. sewer	Prov. app.
10-13-72	Boardman	Faler Addition sewers	Prov. app.
10-13-72	USA (Aloha)	Pheasant Estates Subd. sewers	Prov. app.
10-13-72	USA (Fanno Creek)	Camille Park sewers	Prov. app.
10-13-72	Woodburn	Stewart Addn. sewers	Prov. app.
10-16-72	Gresham	Walter's Hill sanitary sewer	Prov. app.
10-16-72	Gresham	Merlinjune and Children's World Subdivisions sewers	Prov. app.
10-16-72	USA (Tigard)	Bellwood No. 2 Subd. sewers	Prov. app.
10-16-72	Pendleton	Mission trunkline sewer	Prov. app.
10-17-72	USA (Beaverton)	Brookview Subd. sewers	Prov. app.
10-17-72	USA (Tigard)	Edward Industries sewer	Prov. app.
10-17-72	Gresham	Change Order No. 7 Contract No. 1 sewage treatment plant construction	Approved
10-17-72	Lake Oswego	Boones Ferry Road sewer ext.	Prov. app.
10-19-72	Ashland	Garden Way sanitary sewer	Prov. app.

Water Quality Control - continued

<u>Date</u>	<u>Location</u>	<u>Project</u>	<u>Action</u>
<u>Municipal Projects (66) continued</u>			
10-19-72	Somerset West	Parkview #7 and Rock Creek Highlands #2 Subd. sewers	Prov. app.
10-19-72	Eugene	Two projects, 10th Place and Bertelson Road sewers	Prov. app.
10-27-72	Oregon City	Boynton Addition #2 sewers	Prov. app.
10-30-72	USA (Beaverton)	Hartwood Hylands Subd. and Townhouse sewers	Prov. app.
10-31-72	Mt. Angel	Mt. Angel Industrial Park sewers	Prov. app.
10-31-72	Salem	Madrona Hill & Mill Sts. sewers	Prov. app.
10-31-72	Lake Oswego	Red Fox Hill #2 Subd. sewers	Prov. app.
10-31-72	USA (Beaverton)	Westgate Square sewers	Prov. app.
10-31-72	Gresham	Gold Key Estates sewers	Prov. app.

Industrial Projects

<u>Date</u>	<u>Location</u>	<u>Project</u>	<u>Action</u>
10-2-72	Brownsmead	Monte Kingsley Dairy, animal waste facilities	Prov. app.
10-2-72	Brownsmead	Joe Rohne Dairy, animal waste facilities	Prov. app.
10-3-72	Corvallis	Agricultural Experiment Station, OSU, poultry cage-layer house	Prov. app.
10-3-72	Portland	Shell Oil Company, Will-bridge plant, sanitary sewer pretreatment facilities	Prov. app.
10-5-72	Bay City	Allen Waldron Dairy, animal waste facilities	Prov. app.
10-6-72	Pendleton	Blue Mountain Land and Livestock Company, animal waste facilities	Prov. app.
10-6-72	Hermiston	Robert Reuter Dairy, animal waste facilities	Prov. app.
10-11-72	Jefferson	Gerry Van Loon Dairy, animal waste facilities	Prov. app.
10-11-72	Jefferson	Robert Terhune Dairy, animal waste facilities	Prov. app.
10-12-72	Monmouth	Elmer Bork Dairy, animal waste facilities	Prov. app.
10-12-72	Forest Grove	Robert Epler Dairy, animal waste facilities	Prov. app.
10-12-72	Yamhill	Clifford Hacker Hog Farm, animal waste facilities	Prov. app.
10-12-72	Gaston	Donald Scott Dairy, animal waste facilities	Prov. app.
10-12-72	Cornelius	Leland Twigg Dairy, animal waste facilities	Prov. app.

Water Quality Control - continued

<u>Date</u>	<u>Location</u>	<u>Project</u>	<u>Action</u>
<u>Industrial Projects - continued</u>			
10-13-72	Yamhill	Jack Frost Dairy, animal waste facilities	Prov. app.
10-13-72	Jefferson	Vance Germany Dairy, animal waste facilities	Prov. app.
10-13-72	Independence	Franklin Sweed Div. of Franklin Equipment Co., gravity oil-water separator	Prov. app.
10-13-72	Newberg	Sleger Dairy, animal waste facilities	Prov. app.
10-13-72	Turner	Leonard Sudman Feedlot animal waste facilities	Not app.
10-13-72	Forest Grove	Kenneth Willis Dairy, animal waste facilities	Prov. app.
10-17-72	Woodburn	General Foods Corp., Birdseye Div., plant drainage system improvements	Prov. app.
10-17-72	Portland	Standard Oil Company of California, Willbridge Terminal, sanitary sewer pretreatment facilities	Prov. app.
10-17-72	Stayton	Stayton Canning Co., wastewater runoff collection and pumping facilities	Prov. app.
10-18-72	Hood River	Diamond Fruit Growers, Inc., predesign report for secondary waste treatment facilities	Prov. app.
10-19-72	Coos Bay	Brunell Brothers Dairy, animal waste facilities	Prov. app.
10-19-72	Coos Bay	Fred Messerle and Sons, Inc., animal waste facilities	Prov. app.
10-20-72	Gardiner	International Paper Co., primary waste treatment facilities	Prov. app.
10-20-72	Myrtle Point	Willton Thomas Dairy, animal waste facilities	Prov. app.
10-26-72	Norway	Donald Schmidt Dairy, animal waste facilities	Prov. app.
10-26-72	Myrtle Point	Donald Steen Dairy, animal waste facilities	Prov. app.
10-27-72	Portland	Glacier Sand & Gravel Company, waste water treatment facilities	Prov. app.

Air Quality Control

<u>Date</u>	<u>Location</u>	<u>Project</u>	<u>Action</u>
10-4-72	Deschutes County	Brooks-Willamette Corp. Plans and specifications for particleboard pre- finish line.	Approved
10-4-72	Lane County	Valley River Inn 481-space surface parking facility	Approved
10-4-72	Marion County	Pringle Creek Parking Structure 480-space parking facility	Approved
10-4-72	Multnomah County	Habitat Too Apartments 397-space surface parking facility	Approved
10-4-72	Multnomah County	U.S. Navy Reserve Center 100-space surface parking facility	Approved
10-4-72	Multnomah County	White Stag Manufacturing Co. 80-space surface parking facility	Approved
10-4-72	Multnomah County	City of Portland Park Block #1 95-space underground parking facility	Approved
10-4-72	Multnomah County	Port of Portland Terminal #1 59-space surface parking facility	Approved with conditions
10-4-72	Multnomah County	Portland Osteopathic Hospital 94-space surface parking facility	Approved
10-4-72	Multnomah County	Pioneer Industries Apartments 95-space surface parking facility	Approved
10-6-72	Tillamook County	Foley Creek Shake Co. Plans and specifications for modification of WWB	Approved
10-6-72	Crook County	Prineville Forest Products Co. Plans and specifications for installation of hog fuel boilers	Approved
10-10-72	Multnomah County	Portland Commons Office Bldg. 360-space parking facility	Approved
10-10-72	Clackamas County	Page Paving Co. Review of variance request from CWAPA for company to operate experimental asphalt batch plant at Eagle Creek	Approved by EQC on October 25, 1972
10-16-72	Crook County	Coin Millworks Co. Plans and specifications for installation of chipper system for wood residues and modification of WWB	Approved
10-17-72	Multnomah County	Wood Villa Apartments 96-space surface parking facility	Approved

Air Quality Control - continued

<u>Date</u>	<u>Location</u>	<u>Project</u>	<u>Action</u>
10-17-72	Multnomah County	Forest Village Apartments 80-space surface parking facility	Approved
10-18-72	Columbia County	Boise Cascade Corporation Proposal for new recovery furnace for TRS and particulate control	Cond. app.
10-25-72	Multnomah County	Portland Commons Hotel 346-space parking facility	App. with conditions
10-25-72	Multnomah County	General Services Admin. 200-space underground parking facility	Req. add. inf.
10-30-72	Deschutes County	Brooks-Willamette Corp. Plans and specifications for installation of Carter-Day bag filter system for sander- dust control	Approved

Solid Waste Management

<u>Date</u>	<u>Location</u>	<u>Project</u>	<u>Action</u>
10-2-72	Marion County	Browns Island Sanitary Landfill	Prov. app.
10-4-72	Coos County	Arago Cedar Products Landfill	Prov. app.
10-13-72	Jackson County	Clayton Charley's Sewage Sludge Lagoon	Not approved
10-16-72	Deschutes County	Knott Pit Sewage Sludge Lagoon	Prov. app.
10-19-72	Washington State	Proposed Regulations	Reviewed

NATURAL, SCENIC & RECREATIONAL AREAS COMMITTEE REPORT

State Representative Norma Paulus, Chairman of the DEQ Advisory Committee on Natural, Scenic and Recreational Areas, was present and gave a report on the Committee's activities. She said the Committee had held a good many meetings during the past six months, that its membership was fairly evenly divided between industrial and environmental interests, that the buffer zone concept was the major issue under consideration, that it was not defeated or discarded until the final Committee's meeting, and that they had concluded that there is definite need for (1) a state land use policy and (2) consolidation into a single agency (preferably DEQ) of all jurisdiction over subsurface sewage disposal installations in the state.

She referred to the past migration of the population from the farms to the city, then from the city to the suburbs, and now to the use of a second home to "get away from it all." She pointed out that the main problem seems to be the conflicts between various types of recreationists, including particularly the use of off-road vehicles. She strongly recommended that this latter problem

be dealt with by the legislature with the legislature telling where such vehicles can be used as well as where they cannot be used.

She stated that the State Parks Department was one agency that opposed control over buffer zones.

She felt that the work of the Committee had been very beneficial. She was highly commended by Chairman McPhillips and Director Day for her efforts in this matter.

Following a brief discussion of this subject by the Commission members it was agreed that the staff should proceed to make an in-depth evaluation of the Committee's recommendations and at the March 1973 EQC meeting propose a specific plan of action relative to them.

CHEM-NUCLEAR SERVICES, INC. HAZARDOUS WASTE DISPOSAL SITE APPLICATION

Mr. Wicks presented the staff report dated November 24, 1972 regarding the application submitted by Chem-Nuclear Services, Inc. for a permit to establish an environmentally hazardous waste disposal site in Gilliam County near Arlington, Oregon. A public hearing in this matter had been held by the Commission on September 5, 1972. He said that based on the Department's evaluation of the company's application it had been concluded that a site within the state of Oregon for disposal of radioactive wastes is not justified at this time but that there is a need for a facility and site for disposal of hazardous chemical wastes.

He said further that in view of the findings of the Department it is recommended by the Director that the Commission authorize and direct the Department to:

1. Notify Chem-Nuclear Services, Inc. that henceforth, consideration of its license application by the Department will preclude radioactive wastes (pursuant to OAR, Chapter 340, Section 62-035 (4)).
2. Request the State Health Division to amend Chem-Nuclear's existing radioactive materials handling license so that storage of radioactive wastes at the Arlington site will not be permitted after a specified date.
3. Proceed with processing Chem-Nuclear's application for licensing the proposed disposal facility for non-radioactive chemical wastes only.

4. Subject to receipt of additional detailed information and acceptable engineering plans from Chem-Nuclear, draft a proposed license which would specify the types and volumes of wastes and disposal methods to be permitted and the necessary safeguards to be provided at the disposal facility.
5. Condition said license to require formal application and public hearing to amend the initial license before disposing of any additional wastes or constructing new disposal facilities which are not included as part of the initial license.
6. Make any finally proposed license available to the public and schedule a public hearing no less than 30 days thereafter for the purpose of receiving public and expert comment upon the specific conditions of the proposed license prior to its issue.

Mr. John Mosser, attorney, was present to represent the applicant.

He said Chem-Nuclear is pleased that the state agencies think that in general the site is satisfactory for the disposal of hazardous wastes but the company is concerned about recommendations Nos. 1 and 5 as listed above. He said that the cost of disposing of chemical wastes alone would be much higher and that maybe if radioactive wastes cannot be included it might prove to be unfeasible from an economic standpoint to operate the proposed site. He pointed out that estimated volumes of chemical wastes may be low and that sometimes the wastes are considerably different from what the producer says they are.

He argued that it should not be necessary to hold a public hearing for every proposal to add different types of wastes or new disposal facilities at a licensed site as would be required under recommendation No. 5.

Mr. Day pointed out that because this is a new program it is very important that the Commission and Department be extremely careful in the review and establishment of requirements so as to gain public confidence.

Questions were asked by the Commission members of Mr. Mosser and Mr. Bruce Johnson, President of Chem-Nuclear, who was also present to represent the company. The charges proposed to be levied for disposal are 5¢/cu. ft. for radioactive wastes and only 1¢/cu. ft. for chemical wastes. The rad wastes

would be solidified and buried except for ion exchange resins which would be processed for re-use. They presently are storing some 20,000 cubic feet of rad wastes at the Arlington site under the license issued by the State Health Division. These wastes have been accumulated since the spring of 1969 with not much being received since June of 1971. At the company's site in South Carolina both radioactive and chemical wastes are handled.

Mr. Larry Williams made a brief statement for the Oregon Environmental Council in full support of the Director's recommendations.

Chairman McPhillips pointed out that the recommendations should include a requirement that the applicant be found to be financially responsible.

Mr. Waterman said that he wanted to get more information from the company concerning the economic feasibility of operating the site for chemical wastes alone, that he does not want at this time to close the door completely on use of the site for rad wastes, that he thinks condition No. 5 can be negotiated satisfactorily, that he agrees with the Chairman regarding financial responsibility and that unless modified he cannot vote for the recommendations.

Mr. Cogan indicated he agreed at least partially with Mr. Waterman.

Mr. McMath and Mr. Harms both stated that condition No. 5 could be qualified to eliminate the company's major objection to it.

It was MOVED by Mr. McMath, seconded by Mr. Cogan and unanimously carried that the Director's recommendations be approved with the condition that the Company is found to be financially responsible and that items Nos. 1, 2 and 3 be reconsidered if the company can demonstrate that the operation is not feasible if nuclear wastes are eliminated.

The meeting was recessed at 12:30 p.m. and reconvened at 1:30 p.m.

STANDARD OIL CO. OF CALIF. OIL WELL PERMIT APPLICATION

Mr. Ashbaker presented the staff report dated November 21, 1972, regarding the application of Standard Oil Company of California for a waste discharge and solid waste disposal permit in connection with an exploratory oil well which the Company proposes to drill in Malheur County near Blue Mountain. He also presented the proposed permit which had been drafted by the staff.

Mr. R. W. Armstrong was present to represent the company. He said the exploration would cost an estimated \$750,000. By letter dated November 22, 1972 Mr. Armstrong had suggested that item No. 2 in the proposed permit be

changed to read "2. If oil or gas is discovered in commercial quantities, no drilling of additional wells or operations in connection therewith shall commence until an Environmental Impact Statement has been prepared by the Department of Interior for producing, processing, and transportation activities for the field."

Mr. Ashbaker and Mr. Day said they had no objections to this proposed change.

It was MOVED by Mr. Harms, seconded by Mr. McMath and carried that as recommended by the Director the proposed permit with the above revisions be approved and issued by the Department to Standard Oil Company of California.

DEPOE BAY SANITARY DISTRICT

Mr. Bolton presented the staff report dated November 20, 1972, and background information regarding the application of the Depoe Bay Sanitary District of Lincoln County for a state grant to finance the preparation of plans and specifications for a sewage collection and treatment system to serve the community of Depoe Bay.

He said that a regional sewerage system is urgently needed to abate water pollution in the Depoe Bay area, that the district's application has been found to be complete and acceptable, and that as a consequence the Director recommends that:

1. The Commission authorize the use of \$48,480 of the State Pollution Control Funds for the purpose of preparing engineering plans and specifications in the Depoe Bay area as outlined in a loan application submitted to the Department.
2. The Department present the loan application in the amount of \$48,480 to the State Emergency Board for funding at the earliest possible time.
3. That the Department be directed to make written demand upon the Sanitary District for the full repayment of the then unpaid balance of the loan with accrued interest thereon if Lincoln County does not comply with the ban on buildings in the Depoe Bay area as set forth in the Resolution of the Environmental Quality Commission dated August 21, 1970.

Mr. Bob Jackson, Director of the Depoe Bay Sanitary District, was present to represent the applicant. He said the district board is doing everything possible to get the required project underway. He expressed some concern about recommendation No. 3. He was assured that the district's interests would be given full protection by the Department and Commission.

It was MOVED by Mr. Waterman, seconded by McMath and carried that the recommendations of the Director in this matter be approved.

HARRY STEWARD MINING OPERATION, WOLF CREEK

In a staff report dated November 22, 1972, it was recommended by the Director that the Commission sustain the Department's denial of Mr. Harry Steward's waste discharge permit and reaffirm the Commission's directive of March 5, 1971 relative to his responsibility prior to obtaining a permit.

Mr. William B. Murray, Attorney with offices in the 620 Fifth Avenue Building, Portland, Oregon, was present to represent Mr. Steward. He claimed that Mr. Steward has a property right entitling him to use water from Forest Creek and to hydraulically mine on his land. He argued that denial of his permit by the Commission would in effect deny him the use of his property. He claimed there might be as much as \$1 million worth of gold left in gravels which he proposes to mine. The area has reportedly been mined before (since 1890).

Mr. Don Neff presented the Department's report giving the background information and Director's recommendation.

It was MOVED by Mr. Harms, seconded by Mr. McMath and carried that the Director's recommendation in this matter be approved.

PUBLIC HEARING RE: AMENDMENT OF OREGON'S WATER QUALITY IMPLEMENTATION AND ENFORCEMENT PLAN

Proper notice having been given as required by state law and administrative rules the public hearing in the matter of proposed adoption of certain amendments to Oregon's Water Quality Implementation and Enforcement Plan as last amended on July 6, 1972 was called to order by the Chairman at 2:15 p.m. on Thursday, November 30, 1972 in the Second Floor Auditorium of the Public Service Building, 920 S.W. 6th Avenue, Portland, Oregon with all Commission members being present.

Mr. Sawyer read the staff report and recommended amendments including attachments A, B and C, dated November 22, 1972.

There were no other persons present who asked to be heard on this subject.

It was MOVED by Mr. Cogan, seconded by Mr. Waterman and carried unanimously that the proposed interim dates contained in Attachment A and the proposed revised completion dates contained in Attachment B be adopted as revisions to the Implementation and Enforcement Plan for Public Waters of the State of Oregon, and further that the Waste Discharge Permits listed in Attachment C be formally adopted as the official Water Quality Standards Implementation Plan of the State of Oregon for the listed sources.

Copies of Attachments A, B, and C are attached to and made a part of these minutes.

STATUS REPORT ON AIR POLLUTION EPISODE EMERGENCY ACTION PLAN

Mr. Snyder reviewed the Department's status report dated November 22, 1972 on emergency action plan activities.

It was MOVED by Mr. Harms, seconded by Mr. Cogan and Mr. Waterman and carried that the Commission accept the status report and approve the actions of the Department in implementing the Emergency Action Plan.

TAX CREDIT APPLICATIONS

Mr. Sawyer presented the Department's evaluations and recommendations regarding the 29 tax credit applications covered by the following motion:

It was MOVED by Mr. Cogan, seconded by Mr. Waterman and carried that Pollution Control Facility Tax Credit Certificates be issued to the following applicants for facilities claimed in the respective tax credit applications for the costs as claimed and with the percentages allocated to pollution control as follows:

<u>Appl.</u> <u>No.</u>	<u>Applicant</u>	<u>Claimed</u> <u>Cost</u>	<u>% Allocable to</u> <u>Poll. Control</u>
T-296	J. M. Smucker Co., Canby	\$ 7,101.21	80% or more
T-322	West Coast Best Seed Co., Salem	58,882.49	80% or more
T-323	Empire Lite-Rock, Portland	36,849.00	80% or more
T-325	Precision Castparts Corp., Port.	6,524.38	80% or more
T-332	Brooks-Willamette Corp., Bend	4,035.81	40% or more and less than 60%

<u>Appl. No.</u>	<u>Applicant</u>	<u>Claimed Cost</u>	<u>% Allocable to Poll. Control</u>
T-339	Modoc Orchard Co., Medford	\$ 60,435.49	40% or more and less than 60%
T-343	Teledyne Wah Chang Albany	215,374.00	(1967 Act)
T-344	Teledyne Wah Chang Albany	390,713.00	(1967 Act)
T-345	Teledyne Wah Chang Albany	18,077.00	80% or more
T-349	Teledyne Wah Chang Albany	4,187.00	80% or more
T-346	Teledyne Wah Chang Albany	15,125.00	80% or more
T-347	Teledyne Wah Chang Albany	12,535.00	80% or more
T-348	Teledyne Wah Chang Albany	1,010.50	80% or more
T-350	Teledyne Wah Chang Albany	8,186.00	80% or more
T-351	Teledyne Wah Chang Albany	20,742.00	80% or more
T-352	Teledyne Wah Chang Albany	29,728.00	80% or more
T-353	Teledyne Wah Chang Albany	34,844.00	80% or more
T-354	Teledyne Wah Chang Albany	11,882.00	80% or more
T-355	Teledyne Wah Chang Albany	70,974.00	80% or more
T-356	Teledyne Wah Chang Albany	24,890.00	80% or more
T-357	Teledyne Wah Chang Albany	29,790.00	80% or more
T-373	Midland-Ross Corp., Rivergate	98,715.00	Less than 20%
T-374	Midland-Ross Corp., Rivergate	275,000.00	Less than 20%
T-378	Cascade Orchard, Inc., Hood River	21,898.59	80% or more
T-382	Morse Bros., Inc., Albany	6,811.83	80% or more
T-383	Herbert Malarkey Paper Co., Portland	47,521.00	80% or more
T-384	Dwight West, McMinnville	18,065.67	(1967 Act)
T-385	Dwight West, McMinnville	7,100.91	80% or more
T-386	Dwight West, McMinnville	4,835.48	80% or more

CITY OF COQUILLE - FERBASCH HEIGHTS

Mr. Day reported that mandatory annexation procedures pursuant to ORS 222.860 are underway for annexation of the Ferbasch Heights area to the city of Coquille, that the city has retained a consulting engineer to design needed sewerage facilities for the area, and that the preliminary plans and specifications and timetable for construction which have been submitted are acceptable and will when implemented eliminate the existing health hazard.

It was MOVED by Mr. Harms, seconded by Mr. Waterman and carried that as recommended by the Director the Commission give its ratifying approval of the Director's actions in this matter and that its certificate of approval be conveyed by letter to the State Health Division as required by ORS 222.865.

There being no further business the meeting was adjourned at 3:20 p.m. The next meeting of the Commission is scheduled to be held on Thursday, December 21, 1972, in Salem.

Proposed Interim Dates of
Accomplishment to be Established
For Certain Cities and Industries Listed in Tables
2 D (1), 2 D (2), 2 G (2), and 2 H (2)

<u>Source</u>	<u>Required Action</u>	<u>Required Completion Date</u>	<u>Proposed Interim Dates</u>	<u>Comments</u>
Hood River	Secondary Treatment	12/73	Complete Engineering Design 2/73 Start Construction 3/73	Present Waste Discharge Permit requires plans by 9/30/72 and start of construction by 12/1/72. Failure of city to authorize design until late August 72 has significantly delayed project and increased chance that 12/73 completion date will not be met
Crown Zellerbach Wauna	Secondary Treatment for IW	12/75	Complete in-plant Control 7/73 Start preliminary Engineering 9/73 Complete Secondary Design 12/74 Start Construction of Secondary 2/75	None
Amalgamated Sugar Nyssa	Secondary Treatment to meet 0.5 lb.BOD/Ton of sliced beets	Prior to 74-75 Processing Season	None	System installed already (Summer 72) and presently being tested.
Ore-Ida Foods Ontario	Secondary Treatment or equivalent control	9/73	Start Construction 5/73	Plans approved already (11/72).
Menasha Corp. North Bend	Deep Ocean Disposal	11/15/72	None	Will be completed on schedule.
	Chemical Recovery	7/74	Start Construction 7/73	Design underway, equipment ordered.
	Secondary Treatment (or concurrent with plant expansion)	7/76	Submit Plans 12/74 Start Construction 7/75	None

Proposed

Amendments to Table 2 D (1) and 2 H (1)

of

1967 Implementation and Enforcement Plan for the Public Waters of the State of Oregon

as Amended on March 24, 1972

Source	Required Action	Required Completion Date 3/24/72 Amended Plan	Proposed Revised Completion Date (11/72)	Present Status	Reason for Change
Astoria	Secondary Treatment	6/73	4/74	Under Construction	Initial bids higher than available funds. Rebid twice. Lower bids plus return by the state to a matching grant program permitted project to proceed.
Gresham	Secondary Treatment	8/72	3/73	Under Construction	8/72 was original expected completion date. Because of higher than anticipated costs, job split into 3 contracts with secondary to be done 1/73. Approved change orders have extended completion to 3/73.
Port of Portland (Multnomah Co.)	Secondary Treatment (Interceptor to connect to Inverness Plant)	10/72	7/73	2 phases under construction 3 phases approved for contract award 1 phase under redesign	Some delay in attaining grant. Initial bids too high. Project rebid on phases. One phase is being redesigned. Bid call on redesigned phase expected 1/73.
Umatilla	Secondary Treatment	8/72	8/73	Under Construction	Major delay in obtaining grant. Some delay in obtaining approvable plans. Bids received 8/1/72. Grant finally received 10/4/72. Plans approved by EPA 10/20/72. Contract award approved by EPA on 10/25/72.
Seaside	Secondary Treatment	12/72	3/73	Under Construction	Project held up pending EPA grant.
Garibaldi	Secondary Treatment	10/72	2/73	Under Construction	Project held up pending EPA grant
Coos Bay #1) Bunker Hill S.D.) Eastside)	Secondary Treatment	6/73	4/74	Awaiting EPA grant	Plans for plant expected 11/72. Plans for interceptors and pump stations to eliminate Bunker Hill and Eastside plants to be submitted by 3/73 with facilities to be completed at same time as treatment plant.
Coos Bay #2	Secondary Treatment	6/73	4/74	Awaiting EPA grant	Under design. Final plans expected by 3/73. One year projected for construction.
Gold Beach	Secondary Treatment	4/73	4/74	Awaiting EPA grant	Plans approved. Construction delayed until grant received and contract award approved. One year projected for construction.

ATTACHMENT C

PERMIT NUMBER	PERMITTEE	DATE ISSUED	DATE EXPIRED
1152	Lage Orchards, Inc.	04-07-72	08-31-74
1153	Moore Orchards, Inc.	04-07-72	08-31-74
1154	Walter Walls & Sons	04-07-72	08-31-74
1155	U.S. Plywood-Champ Papers, Inc. (Gold Beach Div.)	04-07-72	12-31-74
1156	Argipac, Incorporated	04-07-72	11-30-74
1157	Diamond Fruit Growers, Inc. (Odell Plant)	04-07-72	09-01-73
1158	Bate Plywood Division (Fiberboard Corp.)	04-07-72	06-30-74
1159	Diamond Fruit Growers, Inc. (Diamond Central Plant)	04-07-72	09-01-73
1160	Diamond Fruit Growers, Inc. (Parkdale Plant)	04-07-72	09-01-73
1161	Diamond Fruit Growers, Inc. (Pine Grove Pre-Size Plant)	04-07-72	09-01-73
1162	Driftwood Shores, Inc.	04-07-72	12-31-73
1163	Wendell D. Hiatt (apartments)	04-18-72	06-30-73
1164	Bethel-Danebo Sand & Gravel Co.	04-18-72	12-31-74
1165	Crown Zellerbach Corp. (Flexible Packaging Division, Portland)	04-18-72	12-31-73
1166	Hub City Concrete Co., Inc.	04-18-72	12-31-73
1167	Stayton Canning Co., Cooperative (Brooks Plant)	05-24-72	03-31-73
1168	Kinzua Corporation, Kinzua Plant	05-24-72	07-31-73
1169	VOID		
1170	City of Heppner	05-24-72	03-31-74
1171	Interstate Meats, Inc.	05-24-72	12-31-74
1172	Oregon Portland Cement Co. (Lake Oswego Plant)	05-24-72	12-31-73
1173	Cascade Eggs, Incorporated	05-24-72	03-31-75
1174	City of Woodburn	05-24-72	03-31-73
1175	U.S. Army Corps of Engineers (Bonneville Dam & Power Project)	06-06-72	03-01-74
1176	U.S. Army Corps of Engineers (John Day Dam & Power Project)	06-06-72	03-01-74
1177	U.S. Army Corps of Engineers (McNary Dam & Power Project)	06-06-72	03-01-74
1178	U.S. Army Corps of Engineers (The Dalles Dam & Power Project)	06-06-72	03-01-74
1179	R. A. Heintz Construction Co. (Holiday Beach)	06-07-72	06-30-73
1180	Klamath Potato Distributors, Inc.	06-07-72	01-31-73
1181	Gilchrist Timber Company (Industrial Waste)	06-07-72	12-31-73
1182	Stadelman Fruit Inc. (Letz and Whitney Plants)	06-07-72	06-30-73
1183	City of Aumsville	06-07-72	03-31-76
1184	Zidell Explorations, Inc.	06-07-72	05-31-73
1185	Baker	07-13-72	06-30-74
1186	Prineville	07-13-72	03-31-77
1187	Enterprise	07-13-72	05-01-75
1188	Klamath Falls (Airport Plant)	07-13-72	03-31-77
1189	Richland	07-13-72	06-30-74
1190	Nordic Plywood, Inc.	07-13-72	12-31-74
1191	Starfield	07-13-72	03-31-74
1192	Clackamas Co. S.D. #1 (Kellogg Plant)	07-13-72	06-30-74

PERMIT NUMBER	PERMITTEE	DATE ISSUED	DATE EXPIRES
1193	Pacific Building Materials	07-18-72	07-01-73
1194	Molalla Sand & Gravel	07-18-72	12-31-74
1195	Estacada Rock Products	07-18-72	12-31-74
1196	Quick Service Sand & Gravel	07-18-72	12-31-74
1197	Georgia Pacific Corp. (Camp Adair Plant)	08-01-72	06-30-76
1198	Time Oil Company	08-01-72	12-31-74
1199	City of Coos Bay (Plant 1)	08-01-72	06-30-73
1200	City of Coos Bay (Plant 2)	08-01-72	06-30-73
1201	Bunker Hill S. D.	08-01-72	06-30-73
1202	City of Eastside	08-01-72	06-30-73
1203	Condominiums N.W., Inc. (Inn at Otter Crest	08-01-72	12-31-73
1204	Neighbors of Woodcraft Home	08-01-72	09-30-72
1205	Coos Head Timber Co. (McKenna Plywood & Studmill op.)	08-01-72	08-31-73
1206	Steve Wilson Company (Trail Creek Mill)	08-01-72	06-30-74
1207	Muirhead Canning Co.	08-01-72	06-30-75
1208	Vanply, Inc.	08-01-72	05-31-77
1209	Cornucopis Minerals, Inc.	08-01-72	03-31-73
1210	City of Brookings	08-01-72	04-30-73
1211	City of Gold Beach	08-01-72	04-30-73
1212	City of Waldport	08-01-72	04-30-73
1213	Teledyne Wah Chang, Albany	08-03-72	07-01-73
1214	Pacific Power and Light Co. (Albany Water Treatment Plant)	08-03-72	05-31-77
1215	Pacific Power and Light Co. (Lebanon Water Treatment Plant)	08-03-72	05-31-77
1216	Pacific Power and Light Co. (Mill City Plant)	08-03-72	05-31-77
1217	Pacific Power and Light Co. (Portland, Lincoln Plant)	08-03-72	05-31-77
1218	Sheridan	08-03-72	08-31-75
1219	Wallowa	08-03-72	06-30-73
1220	Astoria	08-03-72	06-30-73
1221	Rainier	08-03-72	07-31-73
1222	Seaside	08-03-72	12-31-72
1223	Umatilla	08-03-72	08-31-75
1224	Portland (Columbia Plant)	08-03-72	12-31-73
1225	Arlington	08-03-72	09-30-73
1226	Hood River	08-03-72	12-31-73
1227	Sunset Packing Co. of Oregon (Salem Division)	08-04-72	06-01-74
1228	Valley Concrete & Gravel, Inc.	08-04-72	06-01-77
1229	Mt. Angel	08-04-72	03-31-73
1230	Vale	08-04-72	06-30-75
1231	Terminal Ice & Cold Storage Co.	08-04-72	06-01-77
1232	Stayton Canning Co. Cooperative (Stayton Plant)	08-04-72	06-30-76
1233	Reichhold Chemicals, Inc.	08-10-72	09-30-74
1234	Scappoose	08-10-72	05-31-74
1235	The Dalles Cherry Growers, Inc.	08-10-72	07-31-74
1236	Garibaldi	08-10-72	10-31-74
1237	Stadelman Fruit, Inc.	08-10-72	07-31-74

PERMIT NUMBER	PERMITTEE	DATE ISSUED	DATE EXPIRES
1238	Pendleton	08-10-72	10-31-73
1239	Fishhawk Lake Recreation Club, Inc.	09-13-72	12-31-75
1240	Rasmussen & Company	09-13-72	12-31-72
1241	Zig Zag Condominiums Oregon, Ltd.	09-13-72	12-31-73
1242	Lamb-Weston, Int. (Hermiston Plant)	09-13-72	06-30-74
1243	U.S. Plawood=Champion Papers, Inc. (Lebanon Plant)	09-13-72	08-01-74
1244	Willow Is. Mobile Estates	09-13-72	12-31-73
1245	Royal Oak Charcoal Co. (Medford Division)	09-13-72	07-31-76
1246	Crown Rendering Co., Inc.	09-13-72	06-30-74
1247	Molalla	09-13-72	12-31-73
1248	Vernonia	09-13-72	06-30-75
1249	Rivergate Rick Products	09-19-72	07-01-73
1250	Sundown Sanitary District	09-19-72	06-30-74
1251	VOID		
1252	Tygh Valley Sand & Gravel	09-19-72	03-31-75
1253	Glendale	09-19-72	04-30-73
1254	Paris Woolen Mills, Inc.	09-19-72	06-30-76
1255	Oregon Fruit Products Co.	09-19-72	12-31-73
1256	Scio	09-19-72	06-30-76
1257	Coquille	09-19-72	03-31-74
1258	Georgia Pacific Corp. (Prairie Road Plant)	09-19-72	06-30-77
1259	M. C. Linger & Sons, Inc. (Ashland Plant)	09-19-72	06-30-73
1260	South Suburban S. D.	09-20-72	06-30-75
1261	Harris Pine Mills	09-20-72	06-30-74
1262	Twin Rocks Sanitary District	09-20-72	09-30-74
1263	Independence	09-20-72	06-30-75
1264	Dikeside Morrage	09-20-72	12-31-73
1265	Monroe	09-20-72	06-30-76
1266	Sweetbrier Inn Motor Hotel	09-20-72	12-31-74
1267	Nehalem	09-21-72	06-30-74
1268	Happy Valley Homes, Inc. (Happy Valley Mobile Pk.)	09-21-72	12-31-75
1269	Norpac Growers, Inc. (Dundee Plant)	09-21-72	06-30-77
1270	Myrtle Point	09-21-72	12-31-75
1271	Pleasant Valley School District	09-21-72	12-31-73
1272	Florence	09-21-72	03-31-76
1273	City of Lebanon	09-22-72	12-31-74
1274	Sunriver Properties, Inc.	09-22-72	06-30-75
1275	Edward Hines Lumber Company, Westfir Hemlock Add. (Domestic)	09-22-72	03-31-77
1276	Umpqua River Navigation Company	09-22-72	06-30-74
1277	Camelot Mobile Residences	09-22-72	06-30-73
1278	City of North Bend	09-22-72	06-30-76
1279	Dayton Sand & Gravel Company	09-22-72	07-31-75
1280	Duckwall-Pooley Fruit Co. (Odell Plant & Van Horn Plant)	09-27-72	08-31-73
1281	Cascade Construction Company	09-27-72	07-01-73
1282	Burlington Northern, Inc. (Portland Div.)	09-27-72	12-31-73

PERMIT NUMBER	PERMITTEE	DATE ISSUED	DATE EXPIRES
1283	Union Pacific Railroad Company	09-27-72	12-31-74
1284	Shell Oil Company (Willbridge Plant)	09-27-72	12-31-74
1285	Phillips Petroleum Company	09-27-72	12-31-74
1286	Union Oil Company of California (Portland Terminal & Asphalt Plant)	09-27-72	12-31-74
1287	AtlanticRichfield Company (Linnton Terminal)	09-27-72	12-31-74
1288	Pacific Carbide & Alloys Co.	09-27-72	09-30-74
1289	Brownlee Dam & Power Project, Idaho Power Co.	10-02-72	03-01-74
1290	Hells Canyon Dam & Power Project, Idaho Power Co.	10-02-72	03-01-74
1291	Oxbow Dam & Power Project. Idaho Power Co.	10-02-72	03-01-74
1292	Mobile Oil Corp	10-03-73	12-31-74
1293	Texaco, Inc., Portland Terminal	10-03-72	12-31-74
1294	Coos Bay Packing Co., Inc.	10-03-72	03-31-74
1295	TP Packing Co.	10-03-72	06-30-74
1296	Klamath Ready Mix, Inc.	10-03-72	05-31-74
1297	Bioproducts, Inc.	10-03-72	12-31-74
1298	Zidell Explorations, Inc.	10-16-72	12-01-73
1299	City of Bend	10-13-72	06-30-75
1300	Eddy's Motel, Inc.	10-13-72	07-01-73
1301	Erdman Packing Company	10-13-72	06-30-75
1302	Forrest Industries, Ltd.	10-13-72	07-31-74
1303	Pacific Resins & Chemicals, Inc. West Coast Div. - Eugene Plant	10-13-72	08-31-74
1304	City of Tillamook	10-13-72	06-30-74
1305	Clatsop County School District #11C Olney Elementary School	10-24-72	06-30-74
1306	VOID		
1307	Willamette Industries, Inc. (Griggs Div.)	10-24-72	06-01-75
1308	Readymix Sand & Gravel Co., Inc.	10-25-72	09-30-74
1309	Union Carbide Corp. (Ferroalloys Div.)	10-24-72	05-31-75
1310	Fir-Ply, Inc.	10-24-72	07-31-76
1311	International Paper Co. (Long-Bell Div.-Gardiner)	10-24-72	07-31-75
1312	Neskowin Lodge, Tahoe Development Co.	10-24-72	03-31-74
1313	City of Siletz	10-24-72	09-30-75
1314	Douglas County Lumber Company	10-24-72	06-30-74
1315	Kogap Manufacturing Company	10-24-72	07-31-75
1316	Barker-Willamette Lumber Co., Inc.	10-24-72	03-31-77
1317	Muir & McDonald Company	10-24-72	07-01-73
1318	Pixieland Corp. (The Oregon Trail Co.)	10-24-72	06-30-74
1319	Bohemia Lumber Co., Inc. (Saginaw Operations)	10-24-72	12-31-76
1320	M.C. Lininger & Sons, Inc. (Medford Plant)	10-24-72	09-30-73
1321	Herbert Lumber Company	10-24-72	06-30-76
1322	City of Wheeler	10-24-72	06-30-74
1323	N. Tillamook County Sanitary District	10-24-72	06-30-74
1324	Port of Coos Bay Commission	10-24-72	06-30-77
1325	Columbia Plywood Corp. (Cascade Locks Lbr. Co.)	10-24-72	06-30-75

PERMIT NUMBER	PERMITTEE	DATE ISSUED	DATE EXPIRES
1326	Vira Corporation - Country Squire Motel	10-31-72	09-30-76
1327	West Tualatin View School, Bev. School Dist. #48	10-31-72	06-30-75
1328	MacLaren School for Boys	10-31-72	07-31-77
1329	Haven Acres, Incorporated	10-31-72	07-31-74
1330	City of Creswell	10-31-72	03-21-77
1331	City of Carlton	10-31-72	07-31-75
1332	City of Cave Junction	10-31-72	09-30-75
1333	City of Salem - Willow Lake Plant	10-31-72	03-31-75
1334	City of Roseburg	10-31-72	09-30-75
1335	City of Yamhill	10-31-72	06-30-74



DEPARTMENT OF ENVIRONMENTAL QUALITY

TERMINAL SALES BLDG. • 1234 S.W. MORRISON ST. • PORTLAND, OREGON 97205

TOM McCALL
GOVERNOR

L. B. DAY
Director

ENVIRONMENTAL QUALITY
COMMISSION

B. A. McPHILLIPS
Chairman, McMinnville

EDWARD C. HARMS, JR.
Springfield

STORRS S. WATERMAN
Portland

GEORGE A. McMATH
Portland

ARNOLD M. COGAN
Portland

Memorandum

To: Environmental Quality Commission
From: Director
Subject: Agenda Item No. B, November 30, EQC Meeting

Project Plans for October, 1972

During the month of October, 1972, staff action was taken relative to plans, specifications and reports as follows:

Water Quality Control

1. Sixty-six (66) domestic sewage projects were reviewed:
 - a) Provisional approval was given to:
 - 60 plans for sewer extensions
 - 1 plan for septic tank dumping station
 - b) Approval without conditions given to:
 - 5 contract modifications (3 STP and 2 sewer projects)
2. Thirty-One (31) Industrial Waste projects were reviewed:
 - Provisional approval was given to:
 - 18 Dairy animal waste facilities
 - 5 Misc. animal waste facilities
 - 3 Food Processing plants
 - 4 Misc. industrial waste projects (Primary waste treatment, Sand & Gravel, Oil/water separator, sewer pre-treatment)
 - Not approved:
 - 1 Animal Feedlot (Turner, Oregon)

Air Quality Control

1. Twenty (20) project plans, reports or proposals were reviewed:
 - a) 14 Parking Facilities
 - 12 Approved
 - 1 Conditional Approval
 - 1 Additional information requested
 - b) 2 Wigwam Burner proposals approved
 - c) 4 Miscellaneous projects reviewed:
 - 3 Approved (Brooks-Scanlon and Brooks-Willamette, Deschutes Co.; Prineville Forest Products, Crook Co., Wood waste handling facilities)
 - 1 Conditional approval (Boise Cascade, St. Helens Kraft Mill Emission Control Proposal)

Solid Waste Disposal

1. Four (4) Project plans were reviewed:
 - Provisional Approval was given to:
 - 1 Sanitary landfill (Marion County)
 - 1 Wood waste landfill (Coos County)
 - 1 Sewage sludge lagoon (Deschutes County)
 - Not approved:
 - 1 Sewage sludge lagoon (Jackson County)

Director's Recommendation

It is recommended that the Commission give its confirming approval to staff action on project plans for the month of October.


L. B. Day

PROJECT PLANS

Water Quality Division

During the month of October, 1972, the following project plans and specifications and/or reports were reviewed by the staff. The disposition of each project is shown, pending ratification by the Environmental Quality Commission.

<u>Date</u>	<u>Location</u>	<u>Project</u>	<u>Action</u>
<u>Municipal Projects (66)</u>			
10-2-72	Bear Creek Valley Sanitary Authority	Change Order No. 1 riprap placement	Approved
10-2-72	Waldport	Ridgewood No. 1 Subd. sewers	Prov. approval
10-2-72	Pendleton	Grecian Heights Subd. sewers	Prov. approval
10-2-72	Portland	Change Order No. 1 secondary sewage treatment plant project	Approved
10-2-72	Oak Lodge Sanitary District	Addendum No. 1 sewage treatment plant project	Approved
10-2-72	Bay City	Change Order #A-3 sewer system	Approved
10-4-72	Oregon City	Arista Heights sewer	Prov. approval
10-4-72	East Salem Sewage & Drainage Dist. I	Mitchell's Subd. sewers	Prov. approval
10-4-72	Lake Oswego	LID 142, Hill Way sewers	Prov. approval
10-4-72	Woodburn	Industrial Park Road sewer	Prov. approval
10-4-72	Albany	20 sanitary sewer projects	Prov. approval
10-4-72	North Roseburg Sanitary Dist.	Rancho Vista Subd. sewers	Prov. approval
10-4-72	Gresham	S.E. 221st Drive sewer	Prov. approval
10-5-72	Tri-City Sanitary District	Septic tank dumping station	Prov. approval
10-5-72	Gresham	Shelburne Subd. sewers	Prov. approval
10-5-72	USA (Aloha)	Four Seasons #13 Subd. sewers	Prov. approval

<u>Date</u>	<u>Location</u>	<u>Project</u>	<u>Action</u>
10-5-72	Portland	S.W. 32nd & Idaho St. sewer	Prov. approval
10-6-72	USA (Forest Grove)	Quince St.-24th Ave. sewer	Prov. approval
10-6-72	USA (Metzger)	Greenway Subd. sewers, Units 3 and 4	Prov. approval
10-10-72	Hermiston	East Dogwood Ave. sewer	Prov. approval
10-10-72	North Roseburg Sanitary Dist.	Slope Street san. sewer	Prov. approval
10-13-72	Boardman	Faler Addition sewers	Prov. approval
10-13-72	USA (Aloha)	Pheasant Estates Subd. sewers	Prov. approval
10-13-72	USA (Fanno Creek)	Camille Park sewers	Prov. approval
10-13-72	Woodburn	Stewart Addn. sewers	Prov. approval
10-16-72	Gresham	Walter's Hill sanitary sewer	Prov. approval
10-16-72	Gresham	Merlinjune and Children's World Subdivisions sewers	Prov. approval
10-16-72	USA (Tigard)	Bellwood No. 2 Subd. sewers	Prov. approval
10-16-72	Pendleton	Mission trunkline sewer	Prov. approval
10-17-72	USA (Beaverton)	Brookview Subd. sewers	Prov. approval
10-17-72	USA (Tigard)	Edward Industries sewer	Prov. approval
10-17-72	Gresham	Change Order No. 7 Contract No. 1 sewage treatment plant construction	Approved
10-17-72	Lake Oswego	Boones Ferry Road sewer ext.	Prov. approval
10-19-72	Ashland	Garden Way sanitary sewer	Prov. approval
10-19-72	Somerset West	Parkview #7 and Rock Creek Highlands #2 Subd. sewers	Prov. approval
10-19-72	Eugene	Two projects, 10th Place and Bertelson Road sewers	Prov. approval
10-27-72	Oregon City	Boynton Addition #2 sewers	Prov. approval
10-30-72	USA (Beaverton)	Hartwood Hylands Subd. and Townhouse sewers	Prov. approval

<u>Date</u>	<u>Location</u>	<u>Project</u>	<u>Action</u>
10-31-72	Mt. Angel	Mt. Angel Industrial Park sewers	Prov. approval
10-31-72	Salem	Madrona Hill & Mill Sts. sewers	Prov. approval
10-31-72	Lake Oswego	Red Fox Hill #2 Subd. sewers	Prov. approval
10-31-72	USA (Beaverton)	Westgate Square sewers	Prov. approval
10-31-72	Gresham	Gold Key Estates sewers	Prov. approval

Water Pollution Control

<u>Date</u>	<u>Location</u>	<u>Project</u>	<u>Action</u>
<u>Industrial Projects</u>			
10-2-72	Brownsmead	Monte Kingsley Dairy, animal waste facilities	Prov. Approval
10-2-72	Brownsmead	Joe Rohne Dairy, animal waste facilities	Prov. Approval
10-3-72	Corvallis	Agricultural Experiment Station, OSU, poultry cage-layer house	Prov. Approval
10-3-72	Portland	Shell Oil Company, Will-bridge plant, sanitary sewer pretreatment facilities	Prov. Approval
10-5-72	Bay City	Allen Waldron Dairy, animal waste facilities	Prov. Approval
10-6-72	Pendleton	Blue Mountain Land and Livestock Company, animal waste facilities	Prov. Approval
10-6-72	Hermiston	Robert Reuter Dairy, animal waste facilities	Prov. Approval
10-11-72	Jefferson	Gerry Van Loon Dairy, animal waste facilities	Prov. Approval
10-11-72	Jefferson	Robert Terhune Dairy, animal waste facilities	Prov. Approval
10-12-72	Monmouth	Elmer Bork Dairy, animal waste facilities	Prov. Approval
10-12-72	Forest Grove	Robert Epler Dairy, animal waste facilities	Prov. Approval
10-12-72	Yamhill	Clifford Hacker Hog Farm, animal waste facilities	Prov. Approval
10-12-72	Gaston	Donald Scott Dairy, animal waste facilities	Prov. Approval
10-12-72	Cornelius	Leland Twigg Dairy, animal waste facilities	Prov. Approval

<u>Date</u>	<u>Location</u>	<u>Project</u>	<u>Action</u>
10-13-72	Yamhill	Jack Frost Dairy, animal waste facilities	Prov. Approval
10-13-72	Jefferson	Vance Germany Dairy, animal waste facilities	Prov. Approval
10-13-72	Independence	Franklin Sweed Div. of Franklin Equipment Co., gravity oil-water separator	Prov. Approval
10-13-72	Newberg	Sleger Dairy, animal waste facilities	Prov. Approval
10-13-72	Turner	Leonard Sudman Feedlot, animal waste facilities	Not Approved
10-13-72	Forest Grove	Kenneth Willis Dairy, animal waste facilities	Prov. Approval
10-17-72	Woodburn	General Foods Corp., Birdseye Div., plant drainage system improvements	Prov. Approval
10-17-72	Portland	Standard Oil Company of California, Willbridge Terminal, sanitary sewer pretreatment facilities	Prov. Approval
10-17-72	Stayton	Stayton Canning Co., wastewater runoff collection and pumping facilities	Prov. Approval
10-18-72	Hood River	Diamond Fruit Growers, Inc., predesign report for secondary waste treatment facilities	Prov. Approval
10-19-72	Coos Bay	Brunell Brothers Dairy, animal waste facilities	Prov. Approval
10-19-72	Coos Bay	Fred Messerle and Sons, Inc., animal waste facilities	Prov. Approval

<u>Date</u>	<u>Location</u>	<u>Project</u>	<u>Action</u>
10-20-72	Gardiner	International Paper Co., primary waste treatment facilities	Prov. Approval
10-20-72	Myrtle Point	Willton Thomas Dairy, animal waste facilities	Prov. Approval
10-26-72	Norway	Donald Schmidt Dairy, animal waste facilities	Prov. Approval
10-26-72	Myrtle Point	Donald Steen Dairy, animal waste facilities	Prov. Approval
10-27-72	Portland	Glacier Sand and Gravel Company, waste water treatment facilities	Prov. Approval

AP-9 PROJECT PLANS, REPORTS, PROPOSALS FOR AIR QUALITY CONTROL
DIVISION FOR OCTOBER, 1972

<u>DATE</u>	<u>LOCATION</u>	<u>PROJECT</u>	<u>ACTION</u>
4	Deschutes County	<u>Brooks-Willamette Corp.</u> Plans and specifications for particleboard pre- finish line.	Approved
4	Lane County	<u>Valley River Inn</u> 481-space surface parking facility.	Approved
4	Marion County	<u>Pringle Creek Parking Structure</u> 480-space parking facility	Approved
4	Multnomah County	<u>Habitat Too Apartments</u> 397-space surface parking facility	Approved
4	Multnomah County	<u>U. S. Navy Reserve Center</u> 100-space surface parking facility	Approved
4	Multnomah County	<u>White Stag Manufacturing Co.</u> 80-space surface parking facility	Approved
4	Multnomah County	<u>City of Portland Park Block No. 1</u> 95-space underground parking facility	Approved
4	Multnomah County	<u>Port of Portland Terminal No. 1</u> 59-space surface parking facility	Approved with conditions
4	Multnomah County	<u>Portland Osteopathic Hospital</u> 94-space surface parking facility	Approved
4	Multnomah County	<u>Pioneer Industries Apartments</u> 95-space surface parking facility	Approved
6	Tillamook County	<u>Foley Creek Shake Co.</u> Plans and specifications for modification of WWB	Approved
6	Crook County	<u>Prineville Forest Products Co.</u> Plans and specifications for installation of hog fuel boilers	Approved

AP-9 PROJECT PLANS, REPORTS PROPOSALS FOR AIR QUALITY CONTROL
DIVISION FOR OCTOBER, 1972

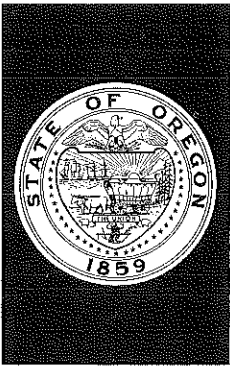
<u>DATE</u>	<u>LOCATION</u>	<u>PROJECT</u>	<u>ACTION</u>
10	Multnomah County	<u>Portland Commons Office Bldg.</u> 360-space parking facility	Approved
10	Clackamas County	<u>Page Paving Company</u> Review of variance request from CWAPA for company to operate experimental asphalt batch plant at Eagle Creek.	Approved by EQC on October 25, 1972
16	Crook County	<u>Coin Millworks Co.</u> Plans and specifications for installation of chipper system for wood residues and modification of WWB	Approved
17	Multnomah County	<u>Wood Villa Apartments</u> 96-space surface parking facility	Approved
17	Multnomah County	<u>Forest Village Apartments</u> 80-space surface parking facility	Approved
18	Columbia County	<u>Boise Cascade Corporation</u> Proposal for new recovery furnace for TRS and particulate control	Conditional Approval
25	Multnomah County	<u>Portland Commons Hotel</u> 346-space parking facility	Approved with conditions
25	Multnomah County	<u>General Services Administration</u> 200-space underground parking facility	Requested additional information
30	Deschutes County	<u>Brooks-Willamette Corporation</u> Plans and specifications for installation of Carter-Day bag filter system for sanderdust control.	Approved

PROJECT PLANS

SOLID WASTE MANAGEMENT DIVISION

During the month of October, 1972, the following project plans and specifications and/or reports were reviewed by the staff. The disposition of each project is shown, pending confirmation by the Environmental Quality Commission.

<u>Date</u>	<u>Location</u>	<u>Project</u>	<u>Action</u>
2	Marion County	Browns Island Sanitary Landfill	Prov. Approval
4	Coos County	Arago Cedar Products Landfill	Prov. Approval
13	Jackson County	Clayton Charley's Sewage Sludge Lagoon	Not approved
16	Deschutes County	Knott Pit Sewage Sludge Lagoon	Prov. Approval
19	Washington State	Proposed Regulations	Reviewed



DEPARTMENT OF ENVIRONMENTAL QUALITY

TERMINAL SALES BLDG. • 1234 S.W. MORRISON ST. • PORTLAND, OREGON 97205

TOM McCALL
GOVERNOR

L. B. DAY
Director

ENVIRONMENTAL QUALITY
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Portland
ARNOLD M. COGAN
Portland

Memorandum

To: Environmental Quality Commission
From: Director
Subject: Agenda Item No. C, November 30, 1972, EQC Meeting

Natural, Scenic and Recreational Areas (Committee Report)

Background

The DEQ Advisory Committee on Natural, Scenic and Recreational Areas presented a report to the Director on October 12, 1972. A copy of that report was presented to the EQC for their information at the October 25, 1972 meeting.

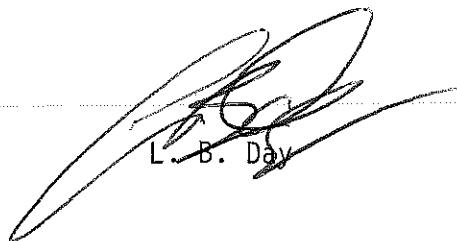
Discussion

Representative Norma Paulus will be present to discuss the Committee's report at the November 30, 1972 EQC meeting. The staff has preliminarily reviewed the Committee report and does not have any specific recommendations for EQC action at this time.

It should be noted that several of the Committee's recommendations will be the subject of proposed legislation at the 1973 Legislature; namely, centralization of sub-surface/surface sewage disposal jurisdiction within the DEQ, and State guidance relative to land use planning and zoning.

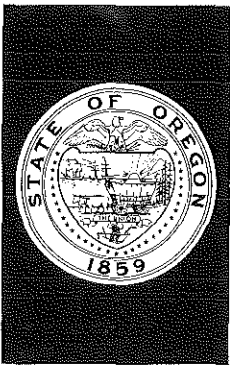
Director's Recommendation

It is the Director's recommendation that the staff proceed to make an in-depth evaluation of the Committee's recommendations and propose a specific plan of action relative to these recommendations at the March 1973 EQC meeting.



L. B. Day

DRA:vt
11/21/72



DEPARTMENT OF ENVIRONMENTAL QUALITY

TERMINAL SALES BLDG. • 1234 S.W. MORRISON ST. • PORTLAND, OREGON 97205

TOM McCALL
GOVERNOR

L. B. DAY
Director

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Portland

GEORGE A. McMATH
Portland

ARNOLD M. COGAN
Portland

MEMORANDUM

TO: Environmental Quality Commission

FROM: Director

SUBJECT: Agenda Item D, November 30, 1972 EQC Meeting

Chem-Nuclear Services, Inc. Application to Establish a Hazardous
Waste Disposal Site in Gilliam County near Arlington, Oregon
(Staff Report)

BACKGROUND

As you will recall, the Commission held a public hearing on this proposed site on September 5, 1972. The Department has followed through with further detailed investigation into the proposed facility, including the appointment of an advisory committee to conduct a comprehensive analysis of the applicant's financial and corporate status. It is expected that this committee will report its finding and make recommendations to the Director in the near future concerning the applicant's apparent financial capability to operate such a facility and the size of the cash bond that the company should be required to post with the Department to ensure proper operation and closure of the site in the event a license is issued.

FACTUAL ANALYSIS

This report concerns the Department's technical evaluation of Chem-Nuclear's proposed facility as outlined in their application and their report dealing with the necessity for a hazardous waste disposal site within the State of Oregon.

The Need for an Environmentally Hazardous Waste Disposal Site

The information submitted by the applicant relative to the need for the proposed disposal site was addressed to the types and amounts of hazardous wastes produced within the State (and some from outside the State) and to the favorable hydrologic and geologic features of the proposed facility location. General discussion of the various disposal methods which would be employed at their proposed site was also presented.

Radioactive Wastes: Chem-Nuclear has indicated in its necessity justification report and application that approximately 46,000 cu. ft. of low level radioactive wastes are produced annually within the State. The sources of these wastes are hospitals, industry, research and teaching institutions and nuclear reactors. These radioactive wastes include waste radioisotopes, depleted uranium and articles such as clothing, equipment and ion exchange resins which have become contaminated with radioisotopes.

At present, these radioactive wastes are either being stored at Chem-Nuclear's Arlington site, as authorized by the existing license from the State Health Division, or they are being disposed at Nuclear Engineering Company's Hanford site near Richland, Washington.

There are two existing disposal sites in the Western United States operated by Nuclear Engineering Company, which are or can be utilized for disposal of radioactive waste produced in Oregon. The nearest of these sites is the previously mentioned Hanford site and the other site is located near Beatty, Nevada. Although a site located within Oregon might provide less expensive disposal, this advantage would be expected to be slight due to the proximity of the Hanford site to the proposed Arlington site.

It is possible that the States in which existing disposal sites are located might take action in the future to prohibit disposal of wastes produced outside of those particular States. If this were to

occur and no disposal site existed in Oregon, then the State might be required to make provisions within Oregon for disposal. This would necessitate an interim period during which radioactive wastes would have to be stored at each source. This is not considered to involve any undue hazard.

Chemical Wastes: The company has indicated in the application and justification report that the available volume of chemical wastes which would require carefully controlled disposal, at a special site as proposed, is approximately 124,000 cu. ft. per year. The sources of these wastes include chemical manufacturers and distributors, Federal and State agencies, research institutions, electroplating facilities, paint manufacturers and users, public utilities and other industries and institutions. Some examples of these chemical wastes include unusable pesticides and other hazardous chemicals, waste organic and chlorinated solvents, paint pigment sludge, soluble heavy metal wastes, empty pesticide containers, acids, phenolics, resins, waste oils and polychlorinated biphenyls.

Presently, much of this waste is being improperly disposed in solid waste landfills or in unsanctioned disposal sites. Several industries and agencies have cooperated with the Department by storing their environmentally hazardous wastes, but this cannot continue indefinitely. At this time there are no authorized hazardous waste disposal sites located within Oregon. The nearest such disposal facility is a pilot site which was recently established near Pasco, Washington. While that site might handle some of Oregon's hazardous wastes, discussions with the Washington State Department of Ecology indicate that it would be inadvisable for the Department to consider the Pasco site for long-term disposal of large volumes of hazardous chemical wastes from Oregon.

Disposal Volumes and Methods

Radioactive Wastes: In its application, Chem-Nuclear proposes to bury approximately 54,000 cu. ft. per year. Of this amount, 44,000 cu. ft. originate from Oregon sources and 10,000 cu. ft. are from the State of Washington. In addition, about 1,700 cu. ft. per year from Oregon sources and 1,400 cu. ft. per year from Washington would be brought into the site for storage, pending possible recycling. These latter materials are nuclear reactor ion exchange resins which the application indicates may possibly be regenerated for reuse in nuclear reactor installations. As a result of recent discussions with the company and as indicated by the company's statements at the September 5, 1972 public hearing, it is indicated that Chem-Nuclear intends also to dispose of radioactive wastes from California and Hawaii. These wastes and the volumes involved were not mentioned in the application.

Chemical Wastes: In the application, the company proposes to dispose of chemical wastes which have been described earlier in this report. Generally, three disposal methods would be utilized. These are: 1) burial, 2) incineration and 3) processing to recover reusable materials. Based on the information presented in the application, the total amount proposed for disposal at the site is 124,000 cu. ft. per year. Of this amount, it is estimated that 63,000 cu. ft. would be disposed via burial, 21,000 cu. ft. would be incinerated and another 40,000 cu. ft. would be recovered by processing for reuse. Only a minor amount of these wastes, less than 100 cu. ft. of the total amount, were indicated as originating from outside the State.

For burial, the application proposes to excavate trenches which would be 400 ft. long, 50 ft. wide and 25 ft. deep and to provide at least five feet of final cover. The Department's proposed policy would be to allow burial of only solid materials to prevent escape of gases or liquids

from the buried wastes and to preclude interaction between wastes in the trenches.

In regard to incineration, the application proposes that pesticide wastes and organic and chlorinated hydrocarbon solvents would be incinerated. However, the application does not provide sufficient detailed information concerning the mode of operation and incinerator atmospheric emissions. The Department has requested such additional information from the company but it has not been provided as yet. Detailed engineering design would be required before approval of incineration could be given. Regarding processing to recover reusable materials, the application provided little information as to the specific methods or equipment to be utilized for this purpose. Accordingly, further consideration of this facet of the proposed operation is held in abeyance pending clarification by the applicant.

Suitability of the Proposed Facility and Site for EHW Disposal

As required by the statutes, Chem-Nuclear's license application has been reviewed by the State Health Division, The State Engineer, the State Fish and Game Commissions and the State Public Utility Commissioner. In addition, the State Nuclear and Thermal Energy Council and the U.S. Environmental Protection Agency have reviewed the application and the State Department of Geology and Mineral Industries has reviewed geologic studies performed by the applicant. Copies of letters from each of these agencies which comment on the suitability of the proposed site and facility are attached to this report for your information. None of these agencies have recommended disapproval of the facility.

In regard to the suitability of the site for hazardous waste disposal, the geologic and hydrologic conditions of the site can be described as follows: the major groundwater source in the area lies in

excess of 400 ft. below the site; the geologic formations underlying the site are of a type which should prevent leakage of wastes from the site into this major aquifer. The geologic investigations of the site found two small wet zones above the major aquifer which appear to be isolated from each other and from any usable groundwater source.

Several of the agencies commenting on the facility application recommended the addition of certain safeguards beyond those outlined in the application. The important additional safeguards suggested by other agencies include the following:

1. Impervious liners for liquid waste ponds,
2. Proper provisions for adequate packaging, labeling and transportation for wastes brought into the site,
3. A prepared accident contingency plan and additional training for operating personnel,
4. Additional provisions for surveillance of the site during site operation and after site closure, and
5. Personal safety equipment for emergency situations.

These comments as well as those received from the public would be carefully considered by the Department in drafting any proposed license.

CONCLUSIONS

Based on the Department's evaluation of Chem-Nuclear's license application and the hazardous waste disposal situation in Oregon, the following conclusions have been reached:

1. A site within the State for disposal of radioactive wastes is not justified at this time. In the future if disposal of radioactive wastes from Oregon is not permitted at existing disposal sites located in other states, then the Department and Commission could take action to ensure proper disposal at that time without creating any undue hazard.

2. A facility and site for disposal of hazardous chemical wastes is needed at this time to handle non-radioactive environmentally hazardous wastes. Further consideration of Chem-Nuclear's proposal will require submission of fully detailed engineering plans for the proposed facility.
3. The site which has been proposed by Chem-Nuclear would be suitable for disposal of environmentally hazardous wastes if adequate safeguards are provided and the site is operated and monitored under a properly conditioned license.

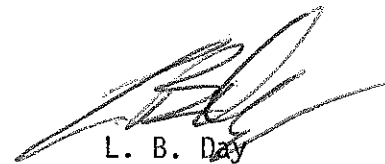
DIRECTOR'S RECOMMENDATIONS

In view of the findings of the Department it is recommended that the Commission authorize and direct the Department to:

1. Notify Chem-Nuclear Services, Inc. that henceforth, consideration of its license application by the Department will preclude radioactive wastes (pursuant to OAR, Chapter 340, Section 62-035 (4)).
2. Request the State Health Division to amend Chem-Nuclear's existing radioactive materials handling license so that storage of radioactive wastes at the Arlington site will not be permitted after a specified date.
3. Proceed with processing Chem-Nuclear's application for licensing the proposed disposal facility for non-radioactive chemical wastes only.
4. Subject to receipt of additional detailed information and acceptable engineering plans from Chem-Nuclear, draft a proposed license which would specify the types and volumes of wastes and disposal methods to be permitted and the necessary safeguards to be provided at the disposal facility.
5. Condition said license to require formal application and

public hearing to amend the initial license before disposing of any additional wastes or constructing new disposal facilities which are not included as part of the initial license.

6. Make any finally proposed license available to the public and schedule a public hearing no less than 30 days thereafter for the purpose of receiving public and expert comment upon the specific conditions of the proposed license prior to its issue.



L. B. Day

PHW:is
November 24, 1972



NUCLEAR AND THERMAL ENERGY COUNCIL

4263 COMMERCIAL S.E. • SALEM, OREGON • 97310 • Phone 378-6968

TOM McCALL
GOVERNOR

August 11, 1972

W. KELLY WOODS
Coordinator

Mr. Pat Wicks
Department of Environmental Quality
1234 S. W. Morrison
Portland, Oregon 97205

Dear Mr. Wicks:

As per our previous telephone calls of August 10, 1972, I am providing a few items that I view as needing further discussion on Chem-Nuclear Services, Inc. disposal application:

- 1) Environmental Impact discussion
- 2) Economic impact on region discussion
- 3) Cost benefit analysis
- 4) Deficiencies in application to the State of Oregon for a license to Operate a Disposal Site for Environmentally Hazardous Wastes, Volume 1.

Page 4. Security Deposit

An annual surveillance of a closed site appears inadequate. Provisions should be made for semi-annual investigations of both radioisotopic materials and chemically hazardous materials. The site should have a periodic security investigation to assure that vandalism is not disturbing the site.

Page 49. Nuclear Waste

I am curious about the accuracy of the quantity per year of waste disposal. It is inferred that the University of Oregon Medical School will dispose 450 ft³ per year. Assume most waste will be in 55 gallon drums or smaller packaging this would equal:

Pat Wicks
August 11, 1972
Page two

Drum approx. 55 gallon
1 gallon = 0.1337 ft³
therefore 55 gal = 7.35 ft³
which equals 61+ containers

I cannot vouch for the other amounts but having been the Radiation Safety Officer at the above institution I find this value very high, almost an order of magnitude.

Page 55. Nuclear - General

The disposal of "radioactive sources used in instrument calibration or medical therapy" in general refers to sources of high specific activity (HSA) and high radioactivity. Paragraph 1 refers to primary disposal of low specific activity (LSA) material. I feel that encapsulated HSA material should be returned to the manufacturer for re-encapsulation.

The discussion of LSA appears to be inadequate. 49 CFR, 173.392 (enclosed) discusses LSA in much greater detail and refers also to sections 173.395 on packaging and 173.401 on labeling.

Page 59. Special Nuclear Material

Paragraph 1 has errors in the half-lives of ⁶⁰Co and ⁵⁵Fe. They should be ⁶⁰Co - 5.26 years and ⁵⁵Fe - 2.6 years.

Classification of Isotopes According to Relative Radiotoxicity per Unit Activity

Radiotoxicity are listed as transport indices I - VII as found in 49 CFR 173.390 (enclosed). There seems to be a number of errors in the listing.

Page 61. Instruments

The alpha meter PAC - 4S should be PAC - 4G. I find it inconceivable that a company attempting to measure radiation levels in the low mr range does not have a portable survey instrument of such capabilities. The 0-50 mr/hr sensitivity of the Civil Defense CDV -700 is of questionable nature particularly in consideration of the age and window thickness of this instrument. The measurement of

Mr. Pat Wicks
August 11, 1972
Page three

low levels of radiation requires a thin window detector in the range of 1 - 2 mg/cm².

Page 71. Storage Operations

Since reactors (Trojan) are being required to meet an absorbed dose at the edge of the exclusion zone of 1 mr/yr should not such a small operation as a disposal site meet the same requirement instead of 2 mr/yr at a storage area? It may well be of this level at the barbed wire fence, but it should be stated.

Page 72. Burial Operations

" * * * radiation safety officer or his assistant will be notified in such cases * * *." Should not an individual of this capacity be present at the site during all such operations as disposal or movement of radioactive waste or hazardous chemical compounds?

Page 77. Emergency Procedures for Burial Ground Fires

Chemical air filtering masks are notoriously poor in environments containing volatile gases that are either radioactive or chemically toxic. Self-contained breathing apparatus such as the Scott Airpac has proved to be the safest method of working in hazardous atmospheres.

Personnel contamination from volatile compounds requires more than simple skin decontamination; it requires bioassay measures such as urinalysis and fecal analysis.

Page 78. Decontamination

The disposal of LSA materials will not require a high radiation area. But in the case of resins from reactors this will be necessary. In such a case proper labeling and control device should be provided and a discussion of such with a picture of symbol should be shown.

I have only looked at Volume 1 in regard to the radioactive waste program but recommend that the other material must be closely read and leave no questions unanswered. This must be a closely controlled operation and

Mr. Pat Wicks
August 11, 1972
Page four

there should be no room for error or sloppiness.

NTEC is in favor of creating a LSA waste disposal site in Oregon and the Geology report of Shannon and Wilson, January 29, 1971, appears to give this site an adequate study and favorable conclusions.

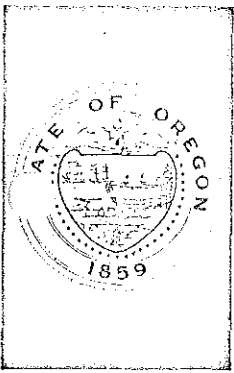
Sincerely,

Bill

W. R. Vermeere
Environmental Specialist

WRV j
enclosures

RECEIVED
AUG 14 1972
SOLID WASTE SECTION



**GAME
COMMISSION**

OFFICE OF THE DIRECTOR

P.O. BOX 3503 • 1634 S.W. ALDER ST. • PORTLAND, OREGON • 97208 • Ph. 229-5551

TOM McCALL
GOVERNOR

August 16, 1972

COMMISSIONERS

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DAN CALLAGHAN, Member

ALLAN L. KELLY, Member

FRANK A. MOORE, Member

JAMES W. WHITTAKER, Member

JOHN W. McKEAN
State Game Director

Mr. L. B. Day, Director
Department of Environmental Quality
1234 S. W. Morrison Street
Portland, Oregon 97205


Dear Mr. Day:

We have reviewed the Chem-Nuclear Services, Inc. application for an environmentally hazardous waste disposal area in Gilliam County and the revisions transmitted with its letters of July 26 and July 27.

It is necessary for us to reply upon the diversified expertise of your staff and those of the Division of Health, Department of Geology and Mineral Industries and State Engineer concerning special aspects which would relate to degradation of air, land, surface and ground waters by the various hazardous materials. Also, we have consulted with the Fish Commission staff.

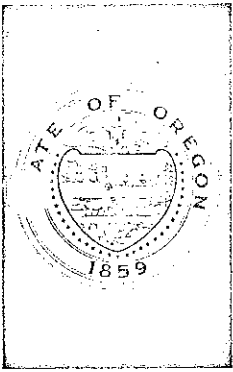
Based upon the reports and counsel that you and others made available, we do not object to the issuance of the Chem-Nuclear license. This is predicated upon the condition that the other agencies do not object to matters which fall in their areas of expertise which also would influence the fish and wildlife habitat.

Sincerely yours,



John W. McKean
Director

cc Fish Commission of Oregon



FISH COMMISSION

OFFICE OF THE DIRECTOR

307 STATE OFFICE BLDG. • 1400 S.W. 5th AVE. • PORTLAND, OREGON • 97201

TOM McCALL
GOVERNOR

July 12, 1972

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Vice Chairman

McKEE A. SMITH
Member

THOMAS E. KRUSE
State Fisheries Director

Mr. L. B. Day, Director
Department of Environmental Quality
1234 S. W. Morrison Street
Portland, Oregon 97205

Dear L. B.:

This is in answer to your June 13, request for Fish Commission comment on an application by Chem-Nuclear for a license to establish an environmentally hazardous waste disposal facility near Arlington, Oregon.

We have reviewed the reports regarding the geology, waste surveillance, trenching, environmental monitoring, training of operators and safety procedures. To the best of our knowledge, the listed requirements appear adequate to protect water quality and fish life in Rock Creek and the lower John Day River. However, we lack the expertise to evaluate this facility in the depth needed to assure protection of the environment. We must rely upon the technical capability of your staff and other qualified reviewers for this purpose.

If in your opinion there are adequate safeguards to prevent accidental release of large quantities of water and there is assurance that downstream areas will not be degraded by operation of the facility, we will not object to issuance of this license.

We appreciate the opportunity to review this application.

Sincerely,

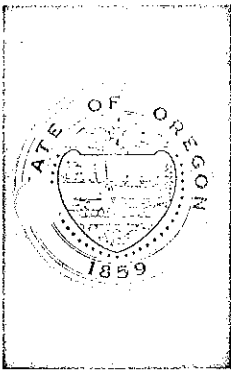
THOMAS E. KRUSE
STATE FISHERIES DIRECTOR

L. B. Day, Director

2

July 12, 1972

cc Geology
OGC
State Engineer
SWRB



**PUBLIC UTILITY COMMISSIONER
OF OREGON**

PUBLIC SERVICE BUILDING • SALEM 97310 • Telephone (503) 378-6611

TOM McCALL
GOVERNOR

August 24, 1972

DIARMUID F. O'SCANNLAIN
Commissioner

The Honorable L. B. Day, Director
Department of Environmental Quality
1234 S. W. Morrison Street
Portland, Oregon 97205

Re: Application of Chem-Nuclear Services, Inc. for
License to Establish an Environmentally Hazardous
Waste Disposal Facility

Dear Mr. ^{L.B.} Day:

The following comments concerning the subject application are made to you pursuant to requirements of ORS 459.570. It appears that the interests of my agency concerning the application might perhaps lie in four areas, those of energy, motor carrier transportation, rail transportation, and water utilities.

Review indicates the following observations are appropriate.

Energy

We make no comment in this area since the radioactive wastes involved are low level and are not those associated, for example, with fuel reprocessing wastes of nuclear power plants.

Motor Carrier Transportation

Applicant demonstrates wide knowledge of the federal (CFR Title 49) rules and regulations governing transportation of hazardous materials and proposes a detailed system of monitoring the transportation handling of the substances. Title 49 rules apply, however, to interstate transportation and to all hazardous materials transportation performed by

The Honorable L. B. Day
August 24, 1972
page 2

companies having interstate operations. Apparently, however, the applicant will be engaging in some hazardous materials movements of a purely intrastate nature not falling under federal jurisdiction. Such transportation is governed by PUC rules and while they are the Title 49 rules by adoption, the applicant should be fully aware that transportation not subject to federal jurisdiction, nevertheless, is subject to the same rules by PUC jurisdiction. It is not fully clear whether applicant is cognizant of this fact.

The application also states that Chem-Nuclear Services, Inc. will perform some of the transportation in its own vehicles. According to the application, Chem-Nuclear will take title to the materials prior to any such move. Such operation would require that applicant secure a private carrier authority from my agency prior to engaging in transportation by truck. No authority is presently on file in the applicant's name.

I strongly urge that applicant remedy its transportation proposal. I suggest this might be done by including a clear commitment to the effect that all of its transportation falling under jurisdiction of the PUC will be conducted in accord with the rules and regulations of the Public Utility Commissioner of Oregon and that it will secure appropriate PUC motor carrier operating authority prior to engaging in transportation.

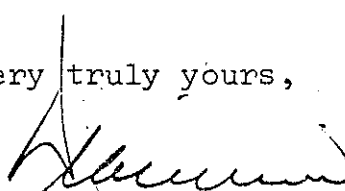
Rail Transportation

Applicant does not indicate that rail transportation will be used in connection with its operation. I suggest that it evaluate the extent to which railroads will be used, and state whether the applicant is familiar with existing rules and regulations.

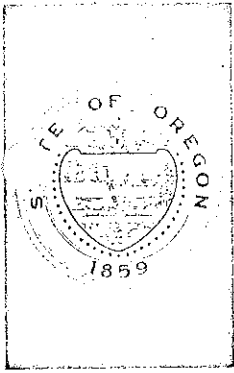
Water Utilities

Our interest in this area goes to possible impact on privately-owned community water systems. No substantial impact involving this agency is seen in the circumstances attendant to the application.

Very truly yours,


DIARMUID F. O'SCANNLAIN
Public Utility Commissioner

DFO'S:ss



**DEPARTMENT OF
GEOLOGY AND MINERAL INDUSTRIES**

ADMINISTRATIVE OFFICE

1069 STATE OFFICE BUILDING • PORTLAND, OREGON • 97201 • Phone (503) 229-5580

TOM McCALL
GOVERNOR
STATE GEOLOGIST
RAYMOND E. CORCORAN
GOVERNING BOARD
FAYETTE I. BRISTOL
Chairman
Rogue River
R. W. deWEESE
Portland
WILLIAM E. MILLER
Bend

September 8, 1972

Mr. L. B. Day, Director
State Dept. of Environmental Quality
Terminal Sales Building
1234 S.W. Morrison Street
Portland, Oregon 97205

Dear Mr. Day:

Subject: Proposed disposal site near Arlington, Oregon

This memorandum is in regard to the application by Chem Nuclear, Inc. for a disposal site near Arlington, Oregon.

The Department was first contacted by Dr. Gary Farmer, Oregon representative for Chem Nuclear, during the beginning stages of the site investigation. We made several suggestions concerning location of core holes and survey procedures by means of a gamma ray - neutron probe. Our recommendations were followed to the letter.

Geologic investigations conducted by Dr. Robert Bergstrom and Mr. R.C. Newcomb, private consultants, were extremely detailed and of excellent quality. Testing and sampling of the bore holes were done by the capable engineering firm of Shannon & Wilson, Inc., Portland.

During the time the exploration project was being carried out, we had several discussions with Mr. William Bartholomew, ground water geologist in the State Engineer's office, and with persons in the State Health Division. After reviewing the final report and studying the radioactivity survey, our staff concluded that the site would appear to be geologically sound for storage of low-level radioactive wastes.

We are enclosing copies of some of the correspondence on the project which will be helpful to you and the Environmental Quality Commission in making a decision on the application.

If you have any further questions regarding the geologic exploration of this site, please feel free to call upon me.

Sincerely yours,

R. E. Corcoran

Raymond E. Corcoran
State Geologist

REC:jr
Encl.
cc Governing Board

March 4, 1971

Dr. Elzard Press
Oregon State Board of Health
Portland, Oregon

Dear Doctor Press:

We have been closely involved in the geologic investigation of the proposed low-level radioactive disposal site near Arlington, Oregon. Dr. Farmer of Chem Nuclear, Inc. has kept us informed of progress on the investigations being made by his firm relating to geologic conditions at the site.

We have reviewed the field mapping which was done by Mr. Esuben G. Newcomb, consulting geologist, for Chem Nuclear and believe he has made a thorough study of the area. Chem Nuclear has also employed Dr. Robert Bergstrom of the Illinois Geological Survey to supervise the overall investigation. Dr. Bergstrom is a nationally recognized consultant on disposal of chemical and nuclear wastes.

The Department of Geology and Mineral Industries made certain recommendations concerning sampling and sub-surface radiation surveys on the test holes. All of the recommendations have been carried out. Radiation logs showed a zone of natural radiation in a volcanic ash between 30 and 50 feet. The Radiation Laboratory of the Board of Health verified that no fission products existed and that the gamma radiation was from natural uranium and radium minerals. The radioactivity log also located a perched water zone at 150 feet in test holes B-1 and B-6, which was confirmed by later water level checks in Hole B-1 (Shannon & Wilson Report, p. 22). The zone is very impervious and produces little water. Bedrock beneath the site is fine-grained, clayey siltstone, the most desirable material for retaining any seepage of water or leachate which might possibly escape from the burial pits. Porosity, permeability, and ion exchange test corroborate the field and petrographic data.

Dr. Edward Pross
Page 2
March 4, 1971

The arid climate, petrology and chemistry of the bedrock and geologic setting are all favorable for the proposed use.

Sincerely yours,

R. E. Corcoran
State Geologist

RC/bj

C. J. [unclear] (3-11-71)

October 14, 1971

Dr. Marshall Parrott, Director
Radiation Section
State Board of Health

Dear Marshall:

This is in regard to the zone of moisture at 150' in test holes B-1 and B-6 at the proposed Arlington disposal site. Mention of this perched zone is made on page 22 of the Shannon & Wilson report. Inverted triangles on logs of the two test holes signify the static water level of the moisture zone.

I discussed your questions relative to tritium contamination and Hoscapple spring (Cedar Springs) with William Bartholomew of the State Engineer's office and Bob Deacon, geologist with Shannon & Wilson, Engineers. The consensus was that the water in Cedar Springs originates in a Quaternary alluvial fan which formed at the terminus of two or three small gulleys and this seepage is in no way related to the zone of moisture found in holes B-1 and B-6. Mr. Bartholomew said the zone at 150' probably represented capillary water which was prevented from continuing downward migration by a permeability barrier. The moisture probably resulted from an accumulation of infiltration by rainwater, but recharge to the zone would be quite small because of the semi-arid climate.

I checked logs of holes B-1 and B-6 and in both instances the zone of moisture was underlain by less permeable material, the condition described by Bartholomew.

The text of the Shannon & Wilson report on page 6 describes Alkali Canyon as closed topographically and structurally on both ends. Alkali flats in the central portion of the canyon are good evidence that surface drainage is retained in those areas. The perched water zone in holes B-1 and B-6 occurs in the Salsah member of the Ellensburg Formation and this formation does not yield useable quantities of water anywhere in the area. The main aquifer is the basalt which underlies

Dr. Marshall Parrott
Page 2
October 14, 1971

the site at a depth of 200 feet (see page 10 of the report). On page 9 of the report it is stated that "Recharge of the lower basalt aquifer does not occur through percolation of water through materials overlying the basalt at the site."

Evidence of this is seen in results of radio isotope dating of water from the region to the west which shows the recharge cycle to be at least several thousand years (see page 10 of the report).

Both the State Engineer's office and consultant Ruben Newcomb are satisfied that no contamination of the basalt aquifer or spring will occur from operations at the Chem-Nuclear site. Mr. Newcomb is an authority on ground water conditions in eastern Oregon and Washington. Therefore from our review of the Shannon & Wilson study and from statements by Messrs. Newcomb and Bartholomew, we are satisfied that escape of radio-active materials from the site is very unlikely.

Sincerely,

Vernon C. Newton, Jr.
Geologist - Petroleum Engineer

VCN:bj

Office Memorandum

OREGON STATE BOARD OF HEALTH

To : Vern Newton, Jr.

Date: October 22, 1971

From : Marshall Parrott *Marshall*

Subject: Second Report on Aquifer in the Region of the Proposed Chem-Nuclear Disposal Site

Thank you for your rather comprehensive report on my few remaining questions relative to the Chem-Nuclear Services, Inc. Geological Report. This seems to clear up very nicely those questions which remained. Your expertise is most appreciated.

MWP:kg

RECEIVED
OCT 23 1971

STATE OF OREGON
DEPARTMENT OF HEALTH

U.S. ENVIRONMENTAL PROTECTION AGENCY

REGION X

1200 SIXTH AVENUE
SEATTLE, WASHINGTON 98101



REPLY TO
ATTN OF: M/S 349

Mr. L. B. Day, Director
Department of Environmental Quality
1234 S. W. Morrison Street
Portland, Oregon 97205

Dear Mr. Day:

As requested, this office has reviewed the Chem-Nuclear Services, Inc. application for a license to operate a hazardous material disposal site at Arlington, Oregon. The following comments are offered on the application:

1. The use of impervious liners should be mandatory in all the ponds shown on map M-4 of the geologic report.
2. On page 108, Volume 1, Chem-Nuclear states that infiltration is a possible method of liquid waste disposal when there is no possibility of ground water impairment. In addition, they state that there is no ground water available at the site. Contrary to the latter statement, ground water does occur in the Columbia River Basalt Formation beneath the site (see Figure 2.3 in the Geologic Report). Even though they indicate in their proposal that there is no provision to utilize infiltration as a disposal method, it should be clearly indicated to Chem-Nuclear that the site is unsuitable for subsurface disposal of liquids.
3. Proper packaging, labeling, and transporting should be specified for all pesticides rather than just those that come under Department of Transportation regulations. These regulations only apply to Class B or more toxic pesticides. Most environmentally hazardous pesticides, such as DDT-113, Chlordane-335, etc., are not included in this group as their LD₅₀ is greater than 50 mg/Kg.
4. Criteria should be established to determine what levels of contamination accumulated in trench water would be considered toxic, and therefore require some degree of treatment.
5. If disposal of chemicals by mixing them with soil is used, wind erosion should be considered in addition to ground water contamination.

6. The synergistic character of the chemicals should be included on the Chemical Safety Data Sheets.

7. The EPA Registered Pesticide Label should be recorded in the Chemical Safety Manual.

8. Chem-Nuclear's plan states it will have the responsibility for ensuring that all containers with hazardous chemical material are properly sealed so that lethal fumes will not be emitted while being transported to the disposal facility. Procedures which would ensure that this responsibility is fully carried out should be clearly indicated.

9. As stated in the application, the land disposal area will have a gas and fume control or venting system to prevent gas accumulations. Since there is no mention as to where these gasses will be vented, this should be explained in detail by Chem-Nuclear.

10. Chem-Nuclear should supply technical information on the incinerator air pollution control equipment and specific information on the air pollution emission rates of the incinerator to show evidence that it will meet State standards when tested.

11. Formal training courses should be conducted for the local fire departments in handling fires of radioactive or toxic materials. In addition, there should be periodic refresher courses, including actual field practice.

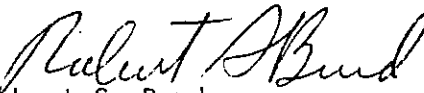
12. A prepared contingency plan should be submitted detailing responsibilities and actions to be taken in the event of an emergency. This should include basic procedures for the facility personnel to follow in the event of the various types of possible emergencies, such as radiation leaks or pesticide fires.

13. A detailed plan as to how the various materials will be handled to prevent accidents should be submitted. It should include procedures for preventing any mixing of chemical and radioactive wastes and precautionary steps to be taken when handling these wastes.

We are also attaching comments made one year ago on this application by the Office of Radiation Programs, Rockville, Maryland.

If we can be of any further assistance, please contact us.

Sincerely,


Robert S. Burd
Director

Air & Water Programs Division

Enclosure

U.S. ENVIRONMENTAL PROTECTION AGENCY

REGION X

1200 SIXTH AVENUE

SEATTLE, WASHINGTON 98101



REPLY TO
ATTN OF: M/S 349

Mr. L. B. Day, Director
Department of Environmental Quality
1234 S. W. Morrison Street
Portland, Oregon 97205

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1. The use of impervious liners should be mandatory in all the ponds shown on map M-4 of the geologic report.

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3. Proper packaging, labeling, and transporting should be specified for all pesticides rather than just those that come under Department of Transportation regulations. These regulations only apply to Class B or more toxic pesticides. Most environmentally hazardous pesticides, such as DDT-113, Chlordane-335, etc., are not included in this group as their LD50 is greater than 50 mg/kg.

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We are also attaching comments made one year ago on this application by the Office of Radiation Programs, Rockville, Maryland.

If we can be of any further assistance, please contact us.

Sincerely,

Robert S. Burd
Director
Air & Water Programs Division

Enclosure

ENVIRONMENTAL PROTECTION AGENCY

Rockville, Maryland 20852

Office of Radiation
Programs

DATE: July 14, 1971

REPLY TO
ATTN OF:

SUBJECT:

Application to the State of Oregon for a License to Operate a Burial Site for Low-Level Nuclear Wastes by Chem-Nuclear Services, Inc.

TO:

Mr. Edward J. Cowan
EPA Regional Representative

1. The Technology Assessment Division has reviewed the information submitted in support of the Chem-Nuclear Services Inc. Waste Disposal License application. In reviewing this application, we obtained the assistance of the Division of Surveillance and Inspection and the Division of Criteria and Standards.

2. In general, the permanent shallow land burial of long-lived solid radioactive waste in the manner described is, in our opinion, a questionable practice. In the current absence of definitive criteria, ground burial may best be considered only as a short-term solution to the problem. By short-term we mean time periods on the order of thirty years.

3. The controlling criteria on which our review was based is that the radioactive material remains isolated from the biosphere, perpetually under positive control, and that the permanent commitment of land areas as waste burial grounds must be kept to an absolute minimum.

4. The procedures proposed in this license application for long-lived wastes do not meet these criteria mainly because of the questionable long-term integrity of the various burial containers. Therefore, we recommend that in line with the above reasoning, the State of Oregon require the applicant to insure the integrity of all burial containers in which long half life materials are stored, and to detail the methods by which recovery at a later date can be accomplished. We believe that radioactive materials which, because of their half lives, would be essentially gone within this time frame can be disposed of by shallow burial and in a non-recoverable form.

5. The Resource Recovery Act of 1970 provides for a two-year study with a resulting comprehensive report and plans for the storage and disposal of hazardous wastes, including radioactive wastes. The report is to include, among other things, recommended methods for disposal of these materials. Hopefully, this report will provide the guidance needed for the development of burial sites for solid radioactive waste materials.

6. We further recommend that the on-site waste handling, burial, and monitoring activities be reexamined to insure that adequate measures will be instituted to confine all radioactive material to the burial site. In particular material should be monitored upon its arrival to detect any surface contamination to prevent the burial site from becoming contaminated and also to prevent this contamination from being carried off-site by surface run-off. Samples of soil around the pit, and any surface water collections on-site, should be obtained for analysis to provide a periodic check on the possible spread of contamination. Off-site water samples, in addition to those presently proposed, should also be obtained from any other private wells in the vicinity. All of the off-site water samples should be collected at least quarterly rather than the yearly schedule presently proposed by the Applicant. We also recommend that the emergency planning activities described by the applicant be greatly expanded. Information should be included detailing the monitoring activities to be conducted, and notification procedures to be followed to alert State health and police agencies in the event of an accident which may possibly affect off-site areas and populations.

7. The recommendations made in this memo should allow for the recovery of long half-life materials for final disposition by a more environmentally acceptable method, increase the degree to which the radiological safety of the operation of the proposed site can be documented, insure the prompt detection of unsafe conditions, and provide verification of the absence of any undesirable off-site effects. We hope that this analysis of the technical aspects of the proposed action will be of use in Oregon's license review process. If we can be of any further assistance in this matter, please feel free to call upon us.



Ernest D. Harward
Acting Director
Division of Technology Assessment



HEALTH DIVISION
DEPARTMENT OF HUMAN RESOURCES

1400 S.W. 5th AVENUE • PORTLAND, OREGON • 97201 • Phone 229-5910

TOM McCALL
GOVERNOR

CORNELIUS C. BATESON
Administrator

EDWARD PRESS, M.D., MPH
Deputy Administrator
and
Public Health Officer

DEPARTMENT OF
HUMAN RESOURCES

JACOB TANZER
Director

DIVISIONS
Health
Children's Services
Corrections
Employment
Mental Health
Special Programs
Vocational Rehabilitation
Welfare

October 16, 1972

Mr. L. B. Day
Department of Environmental Quality
1234 S.W. Morrison St.
Portland, Oregon 97205

Dear Mr. Day:

A member of the Radiation Control Section, State Health Division, attended the hearing for Chem-Nuclear Services, Inc., at Arlington on September 5, 1972. In addition, the staff has reviewed the report of OSPIRG alluded to in that hearing, as well as the discussion in a letter to Marshall Parrott from Raymond E. Corcoran, State Geologist, on the OSPIRG report.

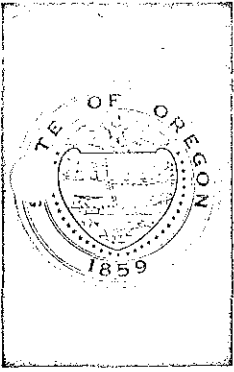
We have reached the conclusion that, barring any severe climatological abnormalities or surface accidents prior to the burial, the proposed site for burial of radioactive material appears to be suitable for ultimate disposal and does not constitute a public health hazard.

If you have any further questions, please do not hesitate to call me or a member of the staff.

Sincerely,

Cornelius C. Bateson
Administrator

MP:mw



STATE ENGINEER

WATER RESOURCES DEPARTMENT

1178 CHEMEKETA STREET N.E. • SALEM, OREGON • 97310 • Phone 378-3739

TOM McCALL
GOVERNOR

CHRIS L. WHEELER
State Engineer

August 28, 1972

File No.

Department of Environmental Quality
1234 S. W. Morrison Street
Portland, Oregon 97205

ATTENTION: L. B. Day

Gentlemen:

Hydrogeologists of this office have reviewed a report submitted to the Department of Environmental Quality for a license to establish an environmentally hazardous waste disposal facility in the vicinity of Alkali Canyon, south of the City of Arlington, Gilliam County, Oregon. Chem-Nuclear Services, Inc. have made both surface and sub-surface geologic investigations at the proposed waste disposal site. We have reviewed the consultant's (Shannon & Wilson) report entitled Geologic and Subsurface Investigations, Proposed Arlington Disposal Site, Gilliam County, Oregon.

The regional water table beneath the proposed site was encountered by exploration drilling at a depth of 426 feet below land surface. The overlying materials are dry and poorly permeable tuffaceous sediments which receives low amounts of precipitation each year. With the precautions provided for in the license application report, we feel that there is little threat or danger of ground water contamination from the proposed installation.

The report does indicate that the operators plan to construct evaporative and oxidation ponds at the site. It is doubtful if they will get the total evaporation claimed, however, the evaporation should be adequate for the estimated amounts of liquid. If it is not adequate, the additional surface required could be readily obtained without major costs. It is important that the impervious clay liner material in each of the evaporative and oxidation ponds located at the site be protected from excessive drying and cracking during periods of nonuse. The polypropylene fabric and overlying polyvinyl sheeting must be protected from rupture and puncture during construction and operation of the pond. These materials should greatly reduce the potential for drying and cracking of the underlying clay materials used to seal the bottom of the evaporative ponds.

August 28, 1972

It is recommended that periodic samples be collected to measure any changes in the chemical quality or the presence of radio-nuclides in the water supply. A program of water level monitoring should be maintained in the water well and observation wells. This office will collect the water level data and maintain hydrographs to determine the seasonal fluctuation of the water body beneath the site.

The proposed site is located on the recharge side of the local ground water flow system. However, with limited annual precipitation, proper construction and maintenance of the chem-nuclear waste disposal facilities, we believe that the proposed site does not materially threaten the ground water resources in the vicinity of the Arlington Site.

Very truly yours,

Wm. S. Bartholomew
WM. S. BARTHOLOMEW
Hydrogeologist

WSB:cjs

cc: Dr. Gary Farmer
✓ Ernest Schmidt
Raymond Corcoran
Marshall Parrott
Shannon & Wilson
✓ Kenneth Spies



DEPARTMENT OF ENVIRONMENTAL QUALITY

TERMINAL SALES BLDG. • 1234 S.W. MORRISON ST. • PORTLAND, OREGON 97205

TOM McCALL
GOVERNOR

L. B. DAY
Director

ENVIRONMENTAL QUALITY
COMMISSION

B. A. McPHILLIPS
Chairman, McMinnville

EDWARD C. HARMS, JR.
Springfield

STORRS S. WATERMAN
Portland

GEORGE A. McMATH
Portland

ARNOLD M. COGAN
Portland

MEMORANDUM

To: Environmental Quality Commission

From: Director

Subject: Agenda Item No. E, November 30, 1972, EQC Meeting

Standard Oil Company of California,
Exploratory Oil Well Site in Malheur County

Background

1. Standard Oil Company of California is proposing to drill an exploratory oil well in Malheur County near Blue Mountain.
2. The wastes generated at a drilling site are as follows: (1) excess drilling mud and drill cuttings, (2) garbage and other limited amounts of solid waste, (3) sanitary wastes from the people working at the site, and (4) brush and debris from land clearing.
3. The Bureau of Land Management is developing a nationwide programmatic environmental impact statement on oil and gas leases on federal land. They are also developing an environmental impact statement covering oil and gas leases in Oregon. They intend to complete the Eastern Oregon section first. Prior to the commencement of drilling at the proposed site, the Bureau of Land Management shall complete a detailed environmental assessment covering the proposed site.

4. Standard Oil Company of California is proposing to dispose of drill cuttings, excess drilling mud and refuse by land disposal methods. Detailed plans for the disposal have not yet been received. There will be no discharge of wastes to public waters.

Evaluation

1. The well drilling operation will be under the jurisdiction and regulations of the State Department of Geology and Mineral Industries. Adequate protection will be required to assure that a blowout will not occur if high pressure gas, oil or water is encountered during the drilling procedure. Since the drilling is on federally owned lands, the U. S. Geological Survey also will be regulating drilling operations.
2. The location of the proposed drilling site is in a remote area of the state. The predominant land use in the area is livestock grazing. The drilling operation will not detract from or limit present or anticipated land use.
3. If conducted properly the exploratory drilling operation which is proposed should have no adverse effects on the environment of the area.

Conclusions

A permit can be issued for exploratory drilling operations which has adequate provisions to cover construction, operation, and waste disposal which will give adequate assurance that environmental quality will be preserved.

Director's Recommendation

It is recommended that a single permit be issued to Standard Oil Company of California which includes the conditions of solid waste and waste water disposal.



L. B. Day

CKA:ak
November 21, 1972
Proposed Permit Attached

PROPOSED WASTE DISCHARGE PERMIT PROVISIONS

33-1

Prepared by the Staff of the
DEPARTMENT OF ENVIRONMENTAL QUALITY

Recommended Expiration Date: 7-31-74
Page 1 of 4

APPLICANT:

Standard Oil Company of California
(Blue Mountain Unit No. 1)
225 Bush Street
San Francisco, California 94104

REFERENCE INFORMATION

File Number:	<u>84128</u>		
Appl. No.:	<u>1705</u>	Received:	<u>10-6-72</u>
Major Bn:	<u>Owyhee</u>	Minor Bn:	
Receiving Stream:			
River Miles:			
County:	<u>Malheur</u>		

Until such time as this permit expires or is modified or revoked, Standard Oil Company of California is herewith permitted to:

- a. Conduct exploratory well drilling operations in Section 34, T37S, R41E, W.M., near Blue Mountain in Malheur County.
- b. Dispose of drill cuttings and mud (drilling fluid).
- c. Collect and treat sanitary wastes by approved methods.
- d. Dispose of solid wastes in an approved landfill.

All of the above activities must be carried out in conformance with the requirements, limitations and conditions which follow.

All other waste discharges are prohibited.

1. The following environmental analysis and impact statements must be initiated or completed prior to commencement of construction and exploratory drilling at the site:
 - a. The Bureau of Land Management's nationwide programmatic Environmental Impact Statement on oil and gas leases on federal lands shall be completed.
 - b. The Eastern Oregon portion of the Bureau of Land Management Environmental Impact Statement covering oil and gas leases on federal lands in Oregon and exploratory operations thereunder shall be initiated.
 - c. A detailed environmental assessment covering the proposed exploratory drilling site shall be completed by the Bureau of Land Management.
2. If oil or gas is discovered, all drilling operations shall cease until a complete Environmental Impact Statement has been prepared for the site by the Bureau of Land Management.
3. Prior to commencement of any construction or drilling activities, detailed plans and specifications shall be submitted to and approved by the Department of Environmental Quality for:
 - a. Collection, treatment and disposal of sanitary wastes, garbage and refuse, construction debris, drill cuttings and mud, and other potential waste materials.

PROPOSED WASTE DISCHARGE PERMIT PROVISIONS

33-1

Prepared by the Staff of the
DEPARTMENT OF ENVIRONMENTAL QUALITY

Recom. Expir. Date: 7-31-74
Page 2 of 4

- b. Construction activities involving roads and trails, the drilling site and other supporting facilities.
4. A contingency plan shall be submitted to the Department of Environmental Quality prior to any drilling activities outlining the following information and procedures:
 - a. Measures taken to prevent emergency conditions or unplanned discharges, such as blowouts.
 - b. A description of preventative facilities to contain or treat unplanned discharges.
 - c. The reporting system to be used to alert facility management and appropriate legal authorities.
 - d. A list of personnel and equipment available to respond to emergency conditions.
5. Upon determination of the Director of the Department that any activities conducted by Standard Oil Company of California in relation to its drilling operations or activities may tend to or will cause damage, hazards, pollution or risk to the environment of Oregon or may violate any conditions or permits issued to Standard Oil Company of California, Standard Oil Company of California shall immediately cease and desist its drilling operations or activities when notified either orally or in writing by the Director.
6. Standard Oil Company of California shall observe and comply with all occupational, safety, health and accident prevention standards established pursuant to federal and state statutes applicable to its well drilling activities and operations within the State of Oregon.
7. All drilling processes and all waste mud and waste waters collection, treatment and disposal facilities shall be operated and maintained at all times at or near maximum efficiency and in a manner which will prevent a direct discharge of any waste mud and waste waters to the waters of the state.
8. All waste mud and waste waters are to be discharged into self-contained, non-overflow holding ponds for which construction plans have been approved by this department.
9. All access roads, trails, drainage systems and the drilling site shall be constructed and maintained to minimize soil disturbances, control erosion and prevent channeling.
10. Prior to the time drilling operations are terminated a detailed plan for restoration of the drill site, roads and trails and other affected areas to as near natural conditions as possible shall be submitted to the Department of Environmental Quality for approval. All rehabilitation work shall be completed within one year after completion or termination of the drilling operation.
11. Solid wastes shall be utilized or disposed of in accordance with the following minimum standards:

PROPOSED WASTE DISCHARGE PERMIT PROVISIONS

Prepared by the Staff of the
DEPARTMENT OF ENVIRONMENTAL QUALITY

Recom. Expir. Date: 7-31-74

Page 3 of 4

- a. Landfilling shall be by the trench method: All wastes deposited shall be pushed to one end of the trench, compacted by the ramp method at a slope of 3 horizontal to 1 vertical and covered with not less than six (6) inches of earth in accordance with a program approved by the Department.
 - b. A layer of not less than two (2) feet of compacted earth, in addition to intermediate cover material, shall be placed over the completed fill following the final placement of solid waste. The final cover shall be graded, seeded with appropriate ground cover and maintained to prevent cracking, erosion and ponding of water.
 - c. Nonputrescible combustible wastes such as paper bags and brush may be burned only in a special area located at least 500 feet from the active landfill area. All open burning must be carried out in compliance with Oregon Administrative Rules Chapter 340, Subdivision 3, OPEN BURNING, Sections 23.005 through 23.020 and all other applicable federal, state and local burning regulations.
 - d. All debris blown from the disposal area shall be collected and properly disposed of a minimum of once each day.
12. No petroleum base products or other substances which might cause the Water Quality Standards of the State of Oregon to be violated shall be discharged or otherwise allowed to reach any of the waters of the state.
 13. Sanitary wastes shall be disposed of in chemical or gas fired toilet facilities which have been installed in accordance with the recommendations of the Oregon State Health Division and the local county health department or by other approved means.
 14. The permittee shall observe and inspect all waste handling, treatment and disposal facilities daily to insure compliance with the conditions of this permit. A written record of all such observations shall be maintained at the plant and shall be made available to the Department of Environmental Quality staff for inspection and review upon request.
 15. The permittee shall effectively monitor the operation and efficiency of all treatment and control facilities and the quantity and quality of the wastes discharged. A record of all such data shall be maintained and submitted to the Department of Environmental Quality at the end of each calendar month. Unless otherwise agreed to by the Department of Environmental Quality, data collected and submitted shall include, but not necessarily be limited to, the following parameters and minimum frequencies:

<u>Parameter</u>	<u>Minimum Frequency</u>
Amount of drilling fluid discharged to holding facility	Daily (barrels)
Amount of solid waste deposited in landfill	Monthly (cubic yards)

Note: Other parameters may be included after review and approval of final plans.

PROPOSED WASTE DISCHARGE PERMIT PROVISIONS

33-1

Prepared by the Staff of the
DEPARTMENT OF ENVIRONMENTAL QUALITY

Recom. Expir. Date: 7-31-74

Page 4 of 4

16. In the event a breakdown of equipment or facilities causes a violation of any of the conditions of this permit or results in any unauthorized discharge, the permittee shall:
- a. Immediately take action to stop, contain and clean up the unauthorized discharges and correct the problem.
 - b. Immediately notify the Department of Environmental Quality so that an investigation can be made to evaluate the impact and the corrective actions taken and determine additional action that must be taken.
 - c. Submit a detailed written report describing the breakdown, the actual quantity and quality of resulting waste discharges, corrective action taken, steps taken to prevent a recurrence and any other pertinent information.

Compliance with these requirements does not relieve the permittee from responsibility to maintain continuous compliance with the conditions of this permit or the resulting liability for failure to comply.

17. Authorized representatives of the Department of Environmental Quality shall be permitted access to the premises of all facilities owned and operated by the permittee at all reasonable times for the purpose of making inspections, surveys, collecting samples, obtaining data and carrying out other necessary functions related to this permit.
18. Whenever a significant change in the character of the waste is anticipated or whenever a significant change in the waste handling and disposal procedures is anticipated, the proposed changes shall be submitted together with the necessary reports, plans and specifications for the proposed changes. No change shall be made until plans are approved and a new permit issued.
19. This permit is subject to termination if the Department of Environmental Quality finds:
- a. That it was procured by misrepresentation of any material fact or by lack of full disclosure in the application.
 - b. That there has been a violation of any of the conditions contained herein.
 - c. That there has been a material change in quantity or character of waste or method of waste disposal.
20. This permit or a copy thereof shall be displayed at the drill site where it can be readily referred to by operating personnel.



**Standard Oil Company of California,
Western Operations, Inc.**

320 Market Street, San Francisco, CA 94111

November 22, 1972

R. W. Armstrong
Division Land Manager
Pacific Northwest Division
Land Department

Waste Discharge Permit
File No. 84128
Blue Mountain Unit Well

Mr. L. B. Day, Director
Department of Environmental Quality
Terminal Sales Building
1234 S.W. Morrison Street
Portland, Oregon 97205

Dear Mr. Day:

Reference is made to your November 1, 1972 letter and your proposed Waste Discharge Permit provisions concerning our drilling operations in Malheur County.

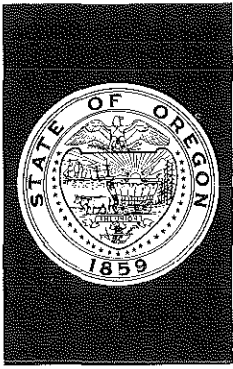
We have reviewed the proposed permit and believe that it is generally satisfactory to us. However, we would like to comment on item 2. on page 1 where the proposed permit states that if oil or gas is discovered all drilling operations shall cease until a complete environmental impact statement has been prepared for the site by the Bureau of Land Management. We believe that the EIS for additional operations should not be limited to a site but should cover a larger area. We propose that the sentence be changed to read, "2. If oil or gas is discovered in commercial quantities, no drilling of additional wells or operations in connection therewith shall commence until an Environmental Impact Statement has been prepared by the Department of Interior for producing, processing, and transportation activities for the field".

We will be present at the November 30 hearing to present any additional information you deem necessary for final approval of this permit.

Additional specifications and plans required by the permit will be submitted to your office well in advance of our commencement of operations.

Very truly yours,

RWA:sf



DEPARTMENT OF ENVIRONMENTAL QUALITY

TERMINAL SALES BLDG. • 1234 S.W. MORRISON ST. • PORTLAND, OREGON 97205

TOM McCALL
GOVERNOR

Memorandum

L. B. DAY
Director

To: Environmental Quality Commission

ENVIRONMENTAL QUALITY
COMMISSION

From: Director

B. A. McPHILLIPS
Chairman, McMinnville

Subject: Agenda Item No. F, November 30, 1972, EQC Meeting

EDWARD C. HARMS, JR.
Springfield

Depoe Bay Sanitary District Sewerage Facilities Design
Grant Application

STORRS S. WATERMAN
Portland

GEORGE A. McMATH
Portland

ARNOLD M. COGAN
Portland

Introduction

Depoe Bay Sanitary District has demonstrated its intent to obtain funding from the State of Oregon in order to finance the preparation of such plans and specifications for the purpose of constructing a sewage collection and treatment facility by its submission of an application for a sewerage planning advance to the Department. This is similar to the North Clatsop County and the Oregon City Regional Sewerage Facilities' applications reviewed and approved by the Commission at previous meetings. Because approval is required by the State Emergency Board for funding and the timing of this is very important their proposal is being brought to your attention today for review and to seek authorization to present the application to the State Emergency Board in December.

Background

1. Due to the high incidence of improper domestic waste disposal facilities and surface discharges from septic tanks in the Depoe Bay community, coupled with the increasing potential for residential and commercial development in the Depoe Bay community, the Environmental Quality Commission on August 21, 1970 adopted a resolution that stated as follows:

- a) That Lincoln County was requested to prohibit the issuance of permits for septic tank construction in the Depoe Bay area.
 - b) That the county commissioners be requested to actively consider providing a community-wide sewerage system for that area.
 - c) That the Department of Environmental Quality and the Environmental Quality Commission work diligently in cooperation with Lincoln County and its citizens to arrive at an early solution.
2. As a result of that resolution, no high density developments have been constructed and progress in the area has been confined primarily to single family dwellings and buildings where subsurface disposal systems could be approved.
 3. The interested citizens of the community immediately set to work on studying and gathering information including conferring with the county officials and the Department of Environmental Quality staff regarding methods of obtaining a community sewerage system. After an evaluation of possible government entities, it was decided to submit a measure proposing the formation of a Sanitary District to the area's voters. That proposal was approved by a 98 to 28 vote on February 11, 1971.
 4. The Sanitary District's Board immediately selected an engineering firm (Barrett & Associates) and they presented their Sewerage System Master Plan for the Depoe Bay Sanitary District in November 1971.
 5. The plan recommended presentation to the district's voters a bond issue of \$690,000 as a part of the total project cost of \$1,400,000. The district has applied for a Federal-State grant through this Department for the eligible portion of project costs which totals \$700,000 and they also requested assistance from Farmers Home Administration for \$513,000. The bond measure was approved by the voters of the district on January 27, 1972.

6. Bond counsel states that the Sanitary District cannot sell the bonds until the district is ready to construct. Therefore, construction is held up because of lack of available funds to do the final construction plans and specifications. The Federal-State grant is possible only if the construction plans are completed. This is the reason for the application by the district as they are most desirous of getting their sewerage system project promptly implemented.
7. To enable preparation of this material the district has submitted an application to this Department for a grant from the State of Oregon as provided for in ORS 449.455 and 449.685(1)(b).

Evaluation

1. A regional sewage collection and treatment facility for the Depoe Bay area in Lincoln County is most definitely needed.
2. Because of the position of bond counsel, the local funds for financing the preparation of construction plans and specifications are not available. The only other source of funds at this time is to obtain a loan from the State of Oregon. The Department has a letter from the Department of Justice dated November 21, 1972 which states that the Environmental Quality Commission is authorized to use State Pollution Control Bond Funds for, among other purposes, the making of a loan to a city or regional authority for the planning of construction of sewage treatment works. However, the Legislature authorized the expenditure of only \$1 from this fund for the purpose of sewage works planning and the State Emergency Board must approve a special budget for the Department in order to make the subject loan.
3. The district has prepared a grant application for the preparation of plans and specifications for the purpose of constructing a sewage collection and treatment facility which includes the following material:

- a) Letter from Sanitary District requesting loan.
 - b) EQC resolution of August 21, 1970.
 - c) Letter from the Lincoln County Health Department indicating the immediate need to provide sewage collection and treatment facilities for the Depoe Bay area.
 - d) Letter from the district's consulting engineer relative to engineering costs and time schedule in order to perform the necessary work to prepare for construction of the project. The major part of the project plans would be completed by May 1, 1973.
 - e) The engineering consultant's agreement for providing the construction plans and specifications for the Depoe Bay area. The final engineering design would include the necessary design surveys, soil investigations, negotiations with property owners for site acquisition, development of detailed plans, specifications and contract documents, and preparation of a final cost estimate which amounts to \$48,480.
 - f) Copy of a proposed grant loan agreement between the Department of Environmental Quality and Depoe Bay Sanitary District indicating terms of the loan and repayment possibilities. (It should be emphasized that if the construction as developed is not implemented within a specific time the loan funds will be repayed to the Department of Environmental Quality, together with accrued interest at the rate of five percent (5%) per annum. If the project is implemented, the loan funds would be subtracted from any sewage works construction grants for which the project would be eligible).
4. The staff of the Department of Environmental Quality has reviewed the above application and the following facts are noted:
- a) The need for the construction of the regional sewerage system is adequately substantiated.
 - b) The loan agreement has been reviewed by the Department of Justice and is considered adequate.

- c) The projected costs for the engineering design are considered adequate and reasonable.

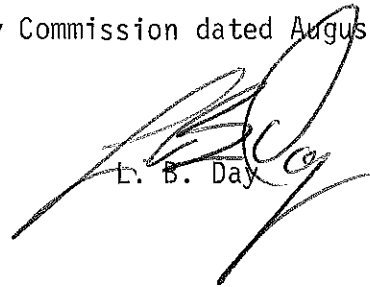
Conclusions

1. A regional sewerage system for the Depoe Bay area is needed.
2. The loan application submitted by the Depoe Bay Sanitary District is considered acceptable. (Total estimated costs for the construction plan preparation is \$48,480.)
3. The Environmental Quality Commission has the authority to authorize the use of the State Pollution Control Funds for the purpose of funding the preparation of these plans. (Actual disbursement of funds must be approved by the State of Oregon Emergency Board).

Recommendations

Therefore, it is the recommendation of the Director that:

1. The Commission authorize the use of \$48,480 of the State Pollution Control Funds for the purpose of preparing engineering plans and specifications in the Depoe Bay area as outlined in a loan application submitted to the Department.
2. The Department present the loan application in the amount of \$48,480 to the State Emergency Board for funding at the earliest possible time.
3. That the Department be directed to make written demand upon the Sanitary District for the full repayment of the then unpaid balance of the loan with accrued interest thereon if Lincoln County does not comply with the ban on buildings in the Depoe Bay area as set forth in the Resolution of the Environmental Quality Commission dated August 21, 1970.


L. B. Day

Attachment

FMB:vt
11/20/72

DEPOE BAY SANITARY DISTRICT

DEPOE BAY, OREGON

September 12, 1972

DEPARTMENT OF ENVIRONMENTAL QUALITY
1284 S. W. Morrison
Portland, Oregon 97205

Attention: Mr. Leo Eaton

Gentlemen:

The Depoe Bay Sanitary District is presently proceeding with plans to construct a Sanitary Sewer System. The proposed system will eliminate present major waste discharges to the ocean and reduce pollution of coastal waters.

While a preliminary sewerage study was completed by our engineer in 1971 and a bond election passed, the District has been unable to finance final engineering design. We, therefore, request a preliminary planning loan from the State so the project can be completed at an early date. Present plans call for construction to begin in the Spring of 1973.

If you have any questions please contact our engineer, Mr. Frank Barrett, 816 Pittock Block, Portland, Oregon.

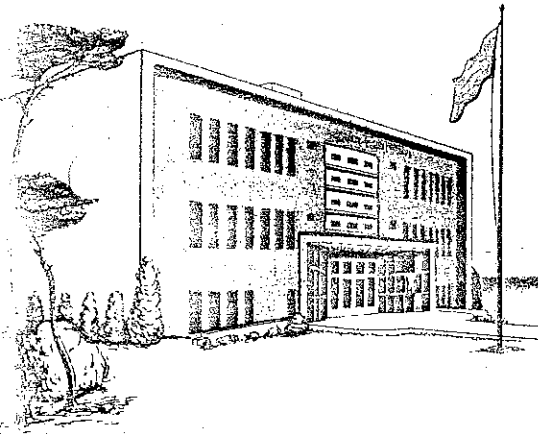
Thank you for your assistance with this project.

Very truly yours,

DEPOE BAY SANITARY DISTRICT

Ernest Kimball, Chairman

EK:ljm



Public Health Department

Sanitation Section

COUNTY OF LINCOLN

225 W. Olive

Newport, Oregon 97365

November 17, 1972

Fred M. Bolton
Field Services Division
Department of Environmental Quality
1234 S.W. Morrison St.
Portland, Oregon 97205

Re: Depoe Bay - Sewerage

Dear Mr. Bolton:

This is to report on the status of the community of Depoe Bay with respect to sewage disposal.

This office currently licenses 15 motels in the immediate Depoe Bay community with approximately 227 rooms.

We inspect and certify 11 restaurants in that community.

All of these facilities are subject to statutes and rules which require approved sewage disposal facilities. Many of these establishments have disposal arrangements known to violate water quality statutes now in effect.

Numerous others have no demonstrable violations regarding sewage disposal, but due to extremely limited land area available and high sewage flow rates they are potential problems. Close scrutiny of these establishments would in many cases reveal serious deficiencies.

The core area of the community is densely populated. Nearly all of the platted lots in the community are no larger than 5000 square feet.

The soils are characteristically shallow (less than 36 inches) overlying siltstones, clays, and basalt. Much of the platted area is located on slopes exceeding 30 percent.

Since the receipt of the letter of September 16, 1970 from your agency which emphasized these hazards, only six (6) permits for new disposal systems have been issued by this department. Four permits for new houses served by sealed vaults were authorized prior to February 14, 1972. These vaults have been a continuing hazard due to failure to pump them often enough. Since February 14, 1972 and receipt of your letter recommending against such vaults, none have been authorized.

Page two
Fred M. Bolton
November 17, 1972

In summary, the community has continuing and unabatable sewage disposal violations both in commercial and residential uses. Significant further development in the community without public sewerage is not feasible.

We request your help in promoting the availability of community sewerage for this area.

Respectfully yours,


KENNETH W. KAUFFMAN
LINCOLN COUNTY SANITARIAN

KMK:wc

BARRETT & ASSOCIATES . . . Consulting Engineers

816 Pittock Block
Portland, Oregon 97205
(503) 222-6606

November 17, 1972

Department of Environmental Quality
1234 S. W. Morrison St.
Portland, Oregon

Attn: Mr. Fred Bolton

Subject: Depoe Bay Sanitary District
Loan Application for Engineering Design

Gentlemen:

The following information is presented in support of a loan application submitted by the Depoe Bay Sanitary District. A loan for \$48,480, if approved, would provide funds to finance final engineering design of a sanitary sewage collection, treatment, and disposal system that is vitally needed by the community. The scope of the project is contained in a "Sewerage System Master Plan" prepared for the District in 1971.

The final engineering design would include the necessary design surveys soil investigations, negotiations with property owners for site acquisition, development of detailed plans, specifications and contract documents, and preparation of a final cost estimate. The estimated cost of the necessary engineering work is as follows:

Site Surveys	\$ 1,000
Soil Investigations	1,000
Negotiations	3,500
Preparation of detailed plans, specifications, contract documents and a final cost estimate.	
Supervision 200 hrs. @ \$22.50/hr.	\$ 4,500
Project Engineer 450 hrs. @ \$17.50/hr.	7,875
Design Engineer 400 hrs. @ \$15.00/hr.	6,000
Drafting 1100 hrs. @ \$13.00/hr.	14,300
Design Surveys	5,000
Reproduction, Travel, Telephone, Printing, Supplies, and miscellaneous costs.	<u>4,305</u>
	\$41,980
Contingencies	1,000
Estimated Total Design Cost	<u><u>\$48,480</u></u>

ENVIRONMENTAL ENGINEERING

PLANNING • DESIGN • CONSTRUCTION SUPERVISION

WATER SUPPLY • SEWAGE DISPOSAL • DRAINAGE AND FLOOD CONTROL • REFUSE DISPOSAL • STREET IMPROVEMENTS

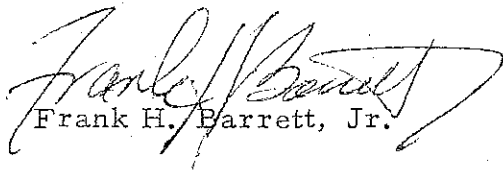
Mr. Fred Bolton
Department of Environmental Quality
Page 2 of 2

If a loan is approved by mid-December and design is begun at that time, final plans, specifications, and contract documents for the first phase project (interceptor, pumping stations, sewerage treatment plant and ocean outfall) should be available for review by the Department of Environmental Quality by May 1, 1973. Design of the remaining collection lines could be completed by July 1, 1973.

If you require additional information, please contact me at (415) 941-8090.

Very truly yours,

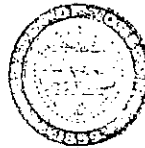
BARRETT & ASSOCIATES


Frank H. Barrett, Jr.

FHB:mb:p

LEE JOHNSON
ATTORNEY GENERAL

JAMES W. DURHAM, JR.
DEPUTY ATTORNEY GENERAL



DEPARTMENT OF JUSTICE
STATE OFFICE BUILDING
PORTLAND, OREGON 97201
TELEPHONE: (503) 229-5725

PORTLAND OFFICE

RAYMOND P. UNDERWOOD
CHIEF COUNSEL

LEONARD W. PEARLMAN ARNOLD B. SILVER
THOMAS N. TROTTA
ASSISTANT ATTORNEYS GENERAL AND COUNSEL

ROBERT L. HASKINS VICTOR LEVY
CLAYTON R. HESS ALBERT L. MENASHE
KENNETH L. KLEINSMITH ALLEN G. OWEN
THOMAS E. TWIST
ASSISTANT ATTORNEYS GENERAL

VIRGIL D. HILLS
REGISTRAR OF CHARITABLE TRUSTS

November 21, 1972

Mr. L. B. Day, Director
Department of Environmental Quality
Terminal Sales Building
1234 S.W. Morrison
Portland, Oregon 97205

Re: Depoe Bay Sanitary District Loan Application

Dear L.B.:

In response to your November 16, 1972 letter, please be advised that the Environmental Quality Commission is authorized to use the Pollution Control Fund for, among other purposes, the making of a loan to a duly organized sanitary district (a municipal corporation) of the State of Oregon for the cost of preparation of final engineering plans and specifications for the purpose of constructing sewage collection and treatment facilities within the requirements of ORS 449.455. ORS 449.685(1)(b); Oregon Constitution, Article XI-H.

I recommend that the Department require the Depoe Bay Sanitary District to supply it with the properly certified copy of an ordinance of the District authorizing the execution of the loan agreement in behalf of the District.

Please let me know if we can be of further assistance in this matter.

Sincerely,

LEE JOHNSON
Attorney General

A handwritten signature in cursive script that reads "Ray Underwood".

Raymond P. Underwood
Chief Counsel
Portland Office

RPU:ej

LOAN AGREEMENT
BETWEEN DEPARTMENT OF ENVIRONMENTAL QUALITY
AND DEPOE BAY SANITARY DISTRICT

This Agreement, made this _____ day of _____, 1972 by the State of Oregon, acting by and through its Department of Environmental Quality, hereinafter called Department, and Depoe Bay Sanitary District, a political subdivision of the State of Oregon, hereinafter called District.

WITNESSETH AND RECITALS

District desires to design and prepare engineering plans and specifications in the Depoe Bay Area for the purpose of constructing sewage collection and treatment facilities as soon as possible; and

It is necessary for District to raise a part of the cost of such plans and specifications by borrowing funds from the Department, pursuant to Article XI-H of the Constitution of Oregon and its implementing legislation; and

Department intends to assist District in financing the preparation of such plans and specifications by loaning to it funds necessary therefor; and

District plans and specifications for construction of sewage collection and treatment works being eligible for such loan as provided in ORS 449.685 (1) (b) and 449.455;

NOW THEREFORE, in consideration of the premises and mutual covenants hereinafter set forth, it is agreed:

AMOUNT OF LOAN

Department will loan to District the sum of Forty-eight Thousand Four Hundred Eighty Dollars (\$48,480), and District will repay said sum, together with interest on the balances thereof from time to time remaining unpaid at the rate of five percent (5%) per annum, to Department as hereinafter set forth.

METHOD OF DISBURSEMENT OF FUNDS

Department will remit to District, upon execution of this agreement and approval by Department of the sewage collection and treatment facilities plans and specifications preparation, construction planning contract to be entered into between District and a consulting engineering firm for the performance of the Engineering Work Program which is outlined in Exhibit "A" attached hereto and by this reference made a part hereof, the sum of Forty-eight Thousand Four Hundred Eighty Dollars (\$48,480).

REPAYMENT

Except as hereinafter provided, District shall repay to Department the loan, together with the accrued interest thereon, within sixty (60) days following the date of sale of District's Bonds for construction of sewage collection and treatment works. It is expected that the loan, together with the accrued interest thereon, will be repaid through federal grants, state grants, bond sale proceeds, user charges, tax levy and other sources deemed appropriate by the District.

If the construction of sewage collection and treatment works shall not be implemented by the District, within twelve (12) months following disbursement of the loan funds hereunder, District will repay in full to the Department the then unpaid balance of the loan, together with the accrued interest thereon, at the expiration of eighteen (18) months following disbursement of the loan funds hereunder.

Repayment of the loan will be applied first to accrued interest and then to unpaid principal balance of the loan.

Following disbursement of the loan funds hereunder, District shall make written monthly reports to the Department on the progress toward the objectives comprehended herein.

COVENANT OF AUTHORITY

District covenants with Department that District has legal authority to enter into this agreement and incur and repay the indebtedness provided for herein.

GENERAL COVENANTS AND CONDITIONS

District agrees to submit to Department a copy of the final agreement, hereinbefore referenced, between District and its consulting engineering firm, together with all amendments thereto that may thereafter be made.

District covenants to maintain financial records relating to the preparation of the plans and specifications for the sewage collection and treatment facilities and to permit reasonable inspection thereof by Department officers, employees and agents. Should litigation develop between the parties, the prevailing party shall be entitled to attorney's fees and costs from the other party.

It is agreed that time is of the essence of this agreement.

Either party may from time to time request of the other amendments or changes in this agreement for the purpose of accomplishing a viable program.

This agreement consists of _____ pages and is executed in duplicate on the date first hereinabove written.

STATE OF OREGON, acting by and
through the DEPARTMENT OF
ENVIRONMENTAL QUALITY

By _____

DEPOE BAY SANITARY DISTRICT

By _____

By _____

By _____

By _____

By _____

(SEAL)

UNITED STATES DEPARTMENT OF AGRICULTURE
FARMERS HOME ADMINISTRATION
1218 S. W. Washington Street
Portland, Oregon 97205

Re: Depoe Bay Sanitary District

November 21, 1972

Mr. Fred Bolton
Director of Field Services
Department of Environmental Quality
1234 S. W. Morrison Street
Portland, Oregon 97205

Dear Mr. Bolton:

This letter is in response to a request by Mr. Merryman, of your office, regarding the likelihood of FHA financial assistance to Depoe Bay Sanitary District and the amounts and schedule for such funding.

Based on a revised project cost estimate of \$1,400,000 and an estimate of \$700,000 costs eligible for EPA and DEQ grant funding, we have considered three possible funding plans involving Farmers Home Administration financial assistance.

Plan 1:

EPA Grant (50%)(\$700,000)	=	\$ 350,000
DEQ Grant (25%)(\$700,000)	=	175,000
Hookup Fees	=	50,000
General Obligation Bonds	=	825,000
TOTAL		<u>\$1,400,000</u>

This Plan would probably be the fastest way to get the project constructed. Farmers Home Administration could buy the General Obligation Bonds as soon as other funding was assured and Rights-of-ways, Plans and other project elements were completed. The District, however, has passed a General Obligation Bond Election of only \$690,000 and a second Bond Election would be required. This Plan would also require revenues averaging around \$12.50/month for residential connections and \$25.00/month for commercial connections.

Plan 2:

EPA Grant	=	\$ 350,000
DEQ Grant	=	175,000
Hookup Fees	=	50,000
General Obligation Bonds	=	690,000
FHA Grant	=	135,000
TOTAL		<u>\$1,400,000</u>

This Plan would not be funded by Farmers Home Administration as

quickly as our Fiscal Year 1973 grant funds have been committed to other projects. Unless substantially larger funding is available in Fiscal Year 1974, it is not likely that an FHA grant could be made next year.

Plan 3:

Divide project into two phases with Phase II including only collection lines in the areas deemed least in need of sanitary sewers at this time.

Phase I

EPA Grant	=	\$ 350,000
DEQ Grant	=	175,000
Hookup Fees	=	40,000
General Obligation Bonds	=	555,000
TOTAL		<u>\$1,120,000</u>

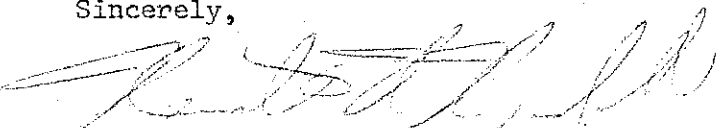
Phase II

EPA Grant	=	-0-
DEQ Grant	=	-0-
Hookup Fees	=	\$ 10,000
General Obligation Bonds	=	135,000
FHA Grant	=	135,000
TOTAL		<u>\$ 280,000</u>

This Plan would enable the project to proceed rapidly to provide service to the areas most in need of immediate service. Phase II construction could then proceed as soon as additional funding became available. This would be in Fiscal Year 1975 or possibly sooner if Farmers Home Administration should receive the full funding authorized under the Rural Development Act of 1972.

We hope that this is the information you are looking for. Please let us know if you have any questions.

Sincerely,


KENNETH K. KEUDELL, P. E.
Chief, Community Programs

cc: FHA, Albany, Oregon
District Supervisor 3
Barrett & Associates
Depoe Bay Sanitary District
Charles Purvis, Attorney

LDS:ma



DEPARTMENT OF ENVIRONMENTAL QUALITY

TERMINAL SALES BLDG. • 1234 S.W. MORRISON ST. • PORTLAND, OREGON 97205

TOM McCALL
GOVERNOR

L. B. DAY
Director

ENVIRONMENTAL QUALITY
COMMISSION

B. A. McPHILLIPS
Chairman, McMinnville

EDWARD C. HARMS, JR.
Springfield

STORRS S. WATERMAN
Portland

GEORGE A. McMATH
Portland

ARNOLD M. COGAN
Portland

Memorandum

To: Environmental Quality Commission

From: Director

Subject: Agenda Item No. G, November 30, 1972, EOC Meeting
Harry Steward Mine, Jackson County, Forest Creek

Background

Mr. Harry Steward leases land on Forest Creek (approximate stream mile 6.5) in southwest Oregon for placer gold mining by hydraulically excavating with a giant nozzle. In January 1971 the Department issued Mr. Steward a waste discharge permit for a nine-month period which specified conditions that would provide reasonable assurance that the turbidity standards (Rogue River Basin) would be maintained two miles up stream from the confluence of Forest Creek and the Applegate River.

During four inspection trips to the mine site in January and February 1971, the staff reported inadequate control of the mining waste water being returned to Forest Creek. Violation of the waste discharge permit condition by operating without the benefit of an effective settling pond existed in each case. Because of repeated waste discharge permit violations including degradation of the water quality (turbidity) in Forest Creek the staff recommended revocation of the waste discharge permit.

On March 5, 1971 a public hearing was held before the Environmental Quality Commission at which time a staff report was presented. Mr. Steward also attended and gave testimony. The Commission effected a judgement that the Department re-issue a waste discharge permit provided Mr. Steward demonstrate by submitting specific plans and proposed operating procedures that he could maintain effective settling ponds and conduct the operation in a manner to meet turbidity standards in Forest Creek (Attachment "A").

Subsequently Mr. Steward made application for a new waste discharge permit and a field inspection of the mining site was made by the Department. On September 21, 1972, the Department notified Mr. Steward that his request for a waste discharge permit renewal was being denied on the basis that the current settling pond and other waste water control facilities were inadequate (Attachment "B").

Summary Evaluation

Mine site inspection conducted on August 8, 1972 pursuant to issuing a waste discharge permit revealed that there were no facilities for effective settling of silt laden mining waste water from Mr. Steward's proposed mining operation. A second inspection and meeting with Mr. Steward on November 3, 1972 verified this. Mr. Steward has not complied with the Commission's directive of March 5, 1971 to submit specific plans and proposed operating procedures which will enable him to maintain effective settling ponds to assure meeting turbidity standards at the control point on Forest Creek.

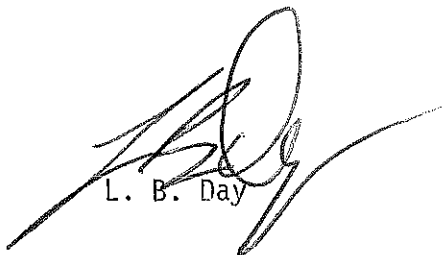
Very high turbidity increases attributed to Mr. Steward's mining operation were measured during the winter of 1971 and is presented in detail in Attachment "C". Violations of the waste discharge permit charged to Mr. Steward during his winter 1971 operations of both a general and specific nature are given in Attachment "D".

The criteria for permitting placer mining on the upper reaches of Forest Creek on a trial basis in 1971 was primarily because of the creek's non-conforming natural stream characteristics and its inability

to directly support fish (this criteria is further detailed in Attachment "E"). The principal conditions of the waste discharge permit issued on January 5, 1971 are specified in Attachment "F".

Recommendations

It is recommended that the Environmental Quality Commission sustain the Department's denial of Mr. Steward's waste discharge permit and affirm the directive of the Environmental Quality Commission of March 5, 1971 relative to his responsibility prior to obtaining a permit.



L. B. Day

TURBIDITY STUDIES ON FOREST CREEK

During January and February 1971, turbidity measurements were made at various points along Forest Creek by the Department. Significant increases in water turbidity (several hundred percent) were measured at a point about two miles below Mr. Steward's mine. Unfortunately, no data was obtained on turbidity that existed in Forest Creek one quarter mile below the confluence with Poorman Creek - the control point specified in the waste discharge permit. (This resulted from a misunderstanding by the Field Staff as to the exact location of the turbidity control point)

Results of turbidity samples are summarized as follows:

<u>Forest Creek Turbidity at Station</u>					
<u>Date</u>	<u>Above Steward's Mine</u>	<u>Below Steward Above Hall's Mine</u>	<u>*Above Mouth Poorman's Creek</u>	<u>Turbidity of Poorman's Creek</u>	<u>Conditions</u>
1/12/71 10:30 am	Clear	600 (Rod)	85 (Rod)	Clear	No pond in effect (Dike breached)
1/12/71 2:30 pm	3	130	105	Clear	No pond in effect (Dike breached)
1/29/71 4:30 pm	3	160	110	Clear	Pond overflow
1/30/71 9:00 am	3	---	17	Clear	45 minutes after start of giant
2/16/71 4:05 pm	4	750 (Note: 2000 below Steward's Mine)	15	Clear	Wood flume bypassed
2/23/71	3	6000	20	1	Flume only partial- ly blocked

* This station was about 1/4 mile above the mouth of Poormans Creek, whereas the waste discharge permit specified that water quality turbidity standards must be maintained at a point about 1/4 mile below Poormans Creek.

WASTE DISCHARGE PERMIT VIOLATIONS

GENERAL

1. Operations were not conducted and facilities were not operated and maintained in a manner to minimize turbidities in Forest Creek.
2. Mr. Steward was repeatedly observed to be operating without benefit of an effective system of settling ponds.
3. No notification was given to the Department of Environmental Quality of failure of the settling pond dikes and little effort was made to rebuild the settling ponds.

SPECIFIC

1. January 12, 1971 No effective settling pond (dike of pond breached)
2. January 29, 1971 No effective settling pond (pond full of mud - overflowing)
3. February 16, 1971 No effective settling pond (wooden flume structure in dike open - operation had just been shut down for the day at time of inspection)

CRITERIA FOR PERMITTING PLACER MINING ON FOREST CREEK:

The Department elected to issue the waste discharge permit to Mr. Steward for placer mining on the upper reaches of Forest Creek in 1971 on a trial basis. The uniqueness of the stream bed and flow pattern were primary considerations in this decision, coupled with the expertise of the Game Commission Biologist relative to actual fish habitation of the stream. The stream bed is not well defined for most of a three-mile distance below Mr. Steward's mine because of the random placement of dredge tailings from "bygone" mining operations. During the summer months the channel is dry except for occasional water pockets from spring seeps. Mr. Haight, Fish Biologist, advised that the steelhead production in Forest Creek was confined to the lower two miles of the stream. There was no testimony that turbid water from the placer mines had ever reached the spawning area in harmful concentrations.

It was thus the Department's evaluation that placer mining in upper Forest Creek should be conditioned upon meeting the Rogue River turbidity standards at a point one quarter of a mile below its confluence with Poormans Creek. It was also agreed that settling ponds would be necessary to remove the heavier concentrations of sediment from the return water.

PRINCIPAL CONDITIONS OF THE PERMIT ISSUED ON JANUARY 5, 1971:

1. Mining operations be conducted and waste water control facilities be operated and maintained in a manner to minimize waste discharges to Forest Creek.
2. All placer mining waste waters shall pass through an effective system of settling ponds prior to discharge to Forest Creek.
3. Operations be controlled so as not to violate turbidity standards in Forest Creek at a point 1/4 mile below the point of entry of Poorman's Creek.
4. The permittee notify the Department of Environmental Quality in the event he was temporarily unable to comply with any condition of the permit due to breakdown of equipment or other cause and to notify the Department of steps taken to correct the situation.



DEPARTMENT OF
ENVIRONMENTAL QUALITY

STATE OFFICE BUILDING • 1400 S.W. 5th AVENUE • PORTLAND, OREGON • 97201

March 16, 1971

Mr. Harry Steward
P. O. Box 115
Wolf Creek, Oregon 97497

Re: WDP #84980

Dear Mr. Steward:

This will confirm the action taken by the Environmental Quality Commission at its meeting in Portland on March 5, 1971, relative to your placer mining operations on Forest Creek.

The commission adopted a motion directing the staff to inform you that a waste discharge permit will not be issued for your placer mining operations on Forest Creek for the next or subsequent operating seasons unless you can demonstrate by submitting specific plans and proposed operating procedures that you will be able to maintain effective settling ponds and conduct your operations in a manner to meet turbidity standards in Forest Creek. The Commission also authorized the staff to seek injunctive action to stop your operations if you are again found to be operating in violation of waste discharge permit conditions.

This action was taken because repeated visits to your operations during this year's mining season showed that you were not maintaining adequate settling facilities.

As you are aware, your present waste discharge permit will expire September 30, 1971. You are hereby advised that you must apply for and obtain renewal of your waste discharge permit prior to starting operations next year.

ATTACHMENT "A"

Mr. Harry Steward

-2-

March 16, 1971

Causing discharges of highly turbid and silt laden waters to Forest Creek without a waste discharge permit is deemed to be in violation of OIS 449.083.

Your cooperation will be appreciated.

Very truly yours,

Kenneth H. Spies
Director

EJW:lb

cc: Leo Baton

September 21, 1972

CERTIFIED MAIL

Mr. Harry Steward
P. O. Box 115
Wolf Creek, Oregon 97497

Re: IW 5-0 Mining, Harry Steward
WDP File No. 84980

Dear Sir:

The staff has reviewed your application for renewal of Waste Discharge Permit No. 885 and visited the site of your placer mining operation on Forest Creek (August 11, 1972). At the time of the inspection it was determined that no significant change has been made in procedures or waste water control facilities from conditions that existed prior to March, 1971. You are hereby notified of the intent of the Department of Environmental Quality to deny issuance of a renewal permit. This denial shall become effective in 20 days from receipt of this notice. If you feel that this is an unjust decision you may request a hearing before the Environmental Quality Commission. If this is desired, you must request this in writing to the Director within 20 days.

This action is considered necessary because your operation has violated the conditions of your Waste Discharge Permit and the water quality standards of the Rogue River Basin. You have not demonstrated by specific plans and operational procedures that you can maintain approved settling ponds and conduct your operations in a manner to meet turbidity standards in Forest Creek, as directed by the Environmental Quality Commission March 5, 1971. You are hereby advised that as a result of this action the Department of Environmental Quality will not permit you to conduct placer mining operations at your Forest Creek claim.

If you desire to request reconsideration of this action, you must submit the information directed by the Environmental Quality Commission on March 5, 1971. The attachment submitted with your permit renewal application is not sufficient to allow the Department to issue a renewal permit.

Mr. Harry Steward
Page 2

If you have further questions please contact Mr. James R. Sheetz, District Engineer, 1000 S. E. Stephens, Roseburg (672-6541, Ext. 281).

Very truly yours,
L. B. Day

L. B. Day
Director

DKN:ljb

cc: Oregon State Game Commission, Region II
Jackson County Health Department

RECEIPT FOR CERTIFIED MAIL—30¢ (plus postage)

SENT TO Mr. Harry Steward		POSTMARK OR DATE SEP 22 1972
STREET AND NO. Post Office Box 115		
P.O., STATE AND ZIP CODE Wolf Creek, Oregon 97497		
OPTIONAL SERVICES FOR ADDITIONAL FEES		
RETURN	1. Shows to whom and date delivered 15¢	
RECEIPT	With delivery to addressee only 65¢	
SERVICES	2. Shows to whom, date and where delivered ... 35¢	
	With delivery to addressee only 65¢	
DELIVER TO ADDRESSEE ONLY 50¢		
SPECIAL DELIVERY (extra fee required)		

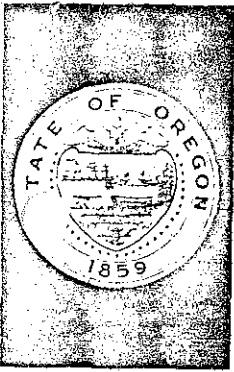
PS Form 3800 NO INSURANCE COVERAGE PROVIDED— (See other side)
Apr. 1971 NOT FOR INTERNATIONAL MAIL *GPO: 1970 O-397-498

97497

WCC

WDP 885

No. 015391



**GAME
COMMISSION**

OFFICE OF THE DIRECTOR

P.O. BOX 3503 • 1634 S.W. ALDER ST. • PORTLAND, OREGON • 97208 • Ph. 229-5551

TOM McCALL
GOVERNOR

November 22, 1972

COMMISSIONERS

J. PAT METKE, Chairman

DAN CALLAGHAN, Member

ALLAN L. KELLY, Member

FRANK A. MOORE, Member

JAMES W. WHITTAKER, Member

JOHN W. McKEAN
State Game Director

Mr. Don Neff
District Engineer
Department of Environmental Quality
1000 S. E. Stephens Street
Roseburg, Oregon 97470

Dear Don:

In 1970, our department reported to you that the upper reaches of Forest Creek have minor fisheries value because they become dry each summer and downstream obstructions prevent fish migration to the areas. On this basis, we agreed to the issuance of a waste discharge permit for a placer mine to a Mr. Harry Stewart if the mining operation was conducted according to the standards of the permit and that the gold dredge tailings would adequately serve as a filter for mining waters.

On March 4, 1971, John McKean, Director, wrote to Mr. Ken Spies reported that permit standards had been violated and waste waters were flowing directly into the creek. Because Mr. Stewart has not in the past met the restrictions of his waste discharge permit, our department supports the denial of his permit on Forest Creek.

If we may be of any further assistance to you on this matter, please contact us.

Sincerely,

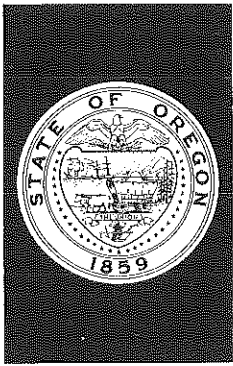
Rollie F. Rousseau
Assistant Chief
Environmental Management Section

cc DEQ-Portland, Carter ✓
Fish Commission of Oregon
SW Region
Bill Haight
Chuck Campbell

To S. J. Stewart

gpc

WQ - Harry Stewart Mining



DEPARTMENT OF ENVIRONMENTAL QUALITY

TERMINAL SALES BLDG. • 1234 S.W. MORRISON ST. • PORTLAND, OREGON 97205

TOM McCALL
GOVERNOR

L. B. DAY
Director

ENVIRONMENTAL QUALITY
COMMISSION

B. A. McPHILLIPS
Chairman, McMinnville

EDWARD C. HARMS, JR.
Springfield

STORRS S. WATERMAN
Portland

GEORGE A. McMATH
Portland

ARNOLD M. COGAN
Portland

MEMORANDUM

To: EQC Members

From: Director

Subject: Agenda Item H, November 31, 1972 EQC Meeting
Status Report on Emergency Action Plan Activities

Introduction

Oregon's Clean Air Act Implementation Plan, which was adopted by the Environmental Quality Commission in January, 1972 and approved by the Environmental Protection Agency on May 30, 1972 outlined a number of tasks which were to be accomplished if the Plan's stated goals were to be met. One of those tasks was the development, before December 31, 1972, of a system of communications and control actions to reduce emissions in order to avoid air pollution emergencies in the Oregon portion of The Portland Interstate Air Quality Control Region. The Plan as adopted contains a regulation which provides the legal authority for these special control actions during episodes, and within the Plan itself is an outline of what must be accomplished by both the Department and the regional air quality control authorities to assure capability of rapid, effective response to any episode situation.

This report outlines the Implementation Plan's requirements for air pollution episode control in the Oregon portion of

the Portland Interstate Air Quality Control Region (Washington Department of Ecology is responsible for declaring episode stages in the Washington portion of the PIAQCR), and describes the status of Department and regional authority efforts toward meeting those requirements.

Actions Required Before and During Episodes

Briefly, the Air Pollution Emergency regulation (OAR Chapter 340, Subdivision 7, Sections 27-005 through 27-073) sets air quality and meteorological criteria for declaring or terminating any of four episode stages (FORECAST, ALERT, WARNING AND EMERGENCY), delineates the basic responsibilities of the Department of Environmental Quality and the regional air pollution authorities, provides for preplanned abatement strategies which will be implemented during episodes by both industry and government, and specifies emission reduction measures required of certain source classes at the ALERT, WARNING and EMERGENCY levels. Table 1 qualitatively describes ambient air quality levels and required control measures for each episode stage.

The Department has overall responsibility for development, application and revision of all phases of an emergency action system for the Portland Interstate Air Quality Control Region, with major operational responsibilities delegated to the regional authorities.

The regulation specifically requires the regions to carry out the following functions:

TABLE 1 EMERGENCY EPISODE CRITERIA AND ACTION GUIDES

EPISODE STAGE	CRITERIA	ACTION TAKEN
FORECAST	Meteorological Forecast of Atmospheric - Stagnation for next 24 hours.	<ul style="list-style-type: none"> . Increased Air Quality Surveillance . Emergency Action Center Readiness
ALERT	Primary Ambient Air Standards Exceeded and Continued Atmospheric Stagnation Forecast: No Acute Health Effects, but Preventive Action Required	<ul style="list-style-type: none"> . Voluntary Reduction of Vehicle Usage . Substantial Reduction of Industrial and Commercial Emissions by Fuel Switching, Production Cutbacks, and Shut-down of Poorly Controlled Processes
WARNING	Air Quality Levels Indicate Preliminary Health Hazard and Continued Atmospheric Stagnation is Forecast	<ul style="list-style-type: none"> . Substantial Mandatory Restrictions on Motor Vehicle Usage . Maximum Reduction of Industrial and Commercial Emissions Including Significant Number of Plant Closures
EMERGENCY	Imminent and Substantial Endangerment to Health: Extreme Health Hazard	<ul style="list-style-type: none"> . All Vehicle Traffic Banned . Closure of Schools and Offices . Closure of Virtually All Industry

1. Secure acceptable preplanned abatement strategies.
 2. Declare the ALERT, WARNING, and EMERGENCY stages and the TERMINATION of an episode, after obtaining DEQ concurrence.
 3. Measure and report episode air quality data to DEQ.
 4. Inform the public and industry of the regulations and the consequent actions required.
 5. Survey and enforce emission reduction plans during episodes.
 6. Submit summaries of abatement strategies to DEQ.
- In addition, the regions are expected to develop and document communications procedures for use during episodes.

The Department has the following specific responsibilities:

1. Secure acceptable emission reduction plans for sources under its jurisdiction.
2. Survey and enforce implementation of emission reduction plans for these sources during episodes.
3. Declare FORECAST stage of an episode.
4. Should a region fail to declare an ALERT, WARNING, EMERGENCY or TERMINATION when criteria are met, the Director will make the declaration.
5. Should a region fail to inform the public during an episode, the Department will make the necessary news and press releases.
6. Develop and document communications procedures for use during episodes.

7. Operate an Emergency Action Center during the ALERT, WARNING and EMERGENCY stages of an episode, to provide rapid exchange of data and information between involved groups and agencies.
8. Review regional Emergency Action Plans and incorporate into coordinated state plan.
9. Submit the Emergency Action Plan for the Oregon portion of PIAQCR to EPA.

Present Status of Emergency Action Plan Development

The emergency action system in the PIAQCR is at present in an operational status. In the last two months, two FORECASTS were declared for the Willamette Valley, and one ALERT was declared by CWAPA for CO in downtown Portland. The system handled these episodes without difficulty.

The Department and regions have completed review and approval of special control procedures for 175 sources requiring Emission Reduction Plans. Communications procedures, both within each agency and between agencies, have been formalized and documented. Emergency Traffic Control Plans for Portland and Eugene have been developed by those cities and reviewed by the regions requesting the plans and by the Department, and plans for closure of Salem and Eugene airports under Emergency conditions have been approved.

At this time, the following items remain incomplete or unapproved:

1. The City of Portland Emergency Traffic Control Plan has not yet been approved officially by the City Council.
2. The City of Eugene Emergency Traffic Control Plan has not yet been approved officially by the City Council.
3. The Port of Portland plan for closure of Portland International Airport has not yet been cleared through the Federal Aviation Administration.
4. A large number of small (SCII) sources of particulate in MWVAPA do not have approved plans or have not yet submitted them.

The regions feel confident that these remaining tasks can and will be completed by the December 31, 1972 deadline. The materials submitted by the regional authorities, including their communications manuals, source listings, and SCI Emission Reduction Plans will accompany similar documents from the Department, as one part of the Department's first semiannual report to the Environmental Protection Agency, which is due early in February 1973.

Conclusions:

1. The Emergency Action Plan for the Portland Interstate Air Quality Control Region is now operational.
2. 175 point source Emission Reduction Plans have been received, reviewed and approved by the Department and Regional Authorities.
3. Four point source emergency action plans have yet to be approved by the Mid Willamette Valley Air Pollution Authority and the Department
4. Emergency motor vehicle reduction plans for Portland and Eugene have been received, reviewed and are approvable, but have not yet been adopted by the respective city councils.
5. The plan deficiencies as outlined in 3 and 4 above are expected to be received and approved prior to December 31, 1972.

Recommendations:

The Director recommends the Commission accept the status report and approve the actions of the Department in implementing the Emergency Action Plan


L. B. Day
Director

APPENDIX

CHRONOLOGY OF AN EPISODE

Listed below in chronological order are the events and actions in a hypothetical, but possible, air pollution episode.

I. Steps taken from Pre-FORECAST through ALERT

1. The National Weather Service air pollution meteorologist in Portland issues an Air Stagnation Advisory for the Willamette Valley for the next 36 hours.
2. DEQ receives the ASA via telephone and teletype, and since receipt of this message fulfills the criteria, a FORECAST declaration is issued and the Emergency Action Center is partially activated.
3. DEQ notifies regions, EPA and others on its FORECAST notification checklist, and also issues brief press release.
4. DEQ, Regions man continuous monitors and obtain hourly and appropriate running means - data is forwarded as frequently as warranted to DEQ and at day's end if ALERT levels are not attained.
5. Afternoon NWS dispersion forecast maintains ASA, forsees no change.
6. Next morning, contaminant(s) levels show marked rise, NWS dispersion forecast calls for poorer ventilation and maintains ASA for 36 more hours.
7. Mid-PM monitoring readings throughout Valley indicate ALERT criteria are met - Regions and DEQ confer and Director agrees that ALERT should be called.
8. Regions issue ALERT declaration, news and press releases.
9. DEQ and Regions make contacts on their ALERT communication checklists.
10. DEQ and Regions contact sources under their jurisdiction which have Emission Reduction Plans, notify them of ALERT, request implementation of ALERT emission reduction strategies.

II. Steps taken from ALERT through the WARNING and EMERGENCY stages

Steps similar to the above series would be taken if levels continued to increase, necessitating WARNING and EMERGENCY declarations and procedures for emission reductions would be undertaken as required by each of the sources for these stages.

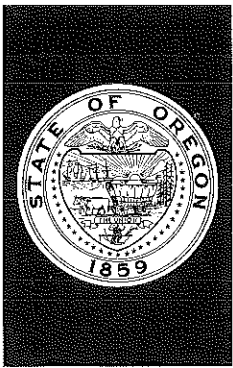
III. Steps taken to terminate a stage and an episode

1. NWS dispersion forecast maintains ASA, but shows a break in about 12 hours.
2. Wind picks up, and levels show precipitous decrease - Regions contact EAC and confer with DEQ. A check on weather is made and the indications are that the stagnation is breaking.
3. NWS terminates the ASA.
4. DEQ and Regions agree that TERMINATION criteria are met and Director agrees with findings; Regions issue TERMINATION declaration, make news and press releases.
5. DEQ and Regions make notifications on TERMINATION communications checklist, notify industries with ERP's of termination.
6. DEQ appoints a Region/DEQ team to write post-episode report, closes EAC.

TABLE 6.2 QUANTITATIVE EPISODE CRITERIA

EPISODE STAGE	Sulfur Dioxide (SO ₂)	Suspended Particulate	Particulate-SO ₂ Product	Carbon Monoxide	Photochemical Oxidant	Nitrogen Dioxide
FORECAST ----- Meteorological Forecast of Atmospheric Stagnation -----						
ALERT (Stated levels accompanied by meteorological forecast of 12 hrs. stagnation)	800 ug/m ³ (24 hr. avg.)	3.0 COH * or 375 ug/m ³ (24 hr. avg.)	525 (ug/m ³)(COH) (24 hr. avg.)	17 mg/m ³ (8 hr. avg)	200 ug/m ³ (1 hr. avg)	1130 ug/m ³ (1 hr avg) or 282 ug/m ³ (24 hr. avg)
WARNING (Stated levels accompanied by meteorological forecast of 12 hours stagnation)	1600 ug/m ³ (24 hr. avg)	5.0 COH or 625 ug/m ³ (24 hr. avg)	2100 (ug/m ³)(COH) (24 hr avg)	34 mg/m ³ (8 hr avg)	800 ug/m ³ (1 hr avg)	2260 ug/m ³ (1 hr avg) or 565 ug/m ³ (24 hr avg)
EMERGENCY (Stated levels accompanied by meteorological forecast of 12 hours stagnation)	2100 ug/m ³ (24 hr. avg)	7.0 COH or 875 ug/m ³ (24 hr. avg)	3144 (ug/m ³)(COH) (24 hr avg)	46 mg/m ³ (8 hr avg) or 69 mg/m ³ (4 hr avg) or 115 mg/m ³ (1 hr avg)	1200 ug/m ³ (1 hr avg) or 960 ug/m ³ (2 hr. avg) or 640 ug/m ³ (4 hr avg)	3000 ug/m ³ (1 hr avg) or 750ug/m ³ (24 hr avg)

* COH = Coefficient of haze; 1.0 COH is approximately equivalent to 125 ug/m³



DEPARTMENT OF ENVIRONMENTAL QUALITY

TERMINAL SALES BLDG. • 1234 S.W. MORRISON ST. • PORTLAND, OREGON 97205

TOM McCALL
GOVERNOR

L. B. DAY
Director

ENVIRONMENTAL QUALITY
COMMISSION

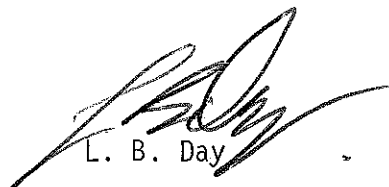
B. A. McPHILLIPS
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Portland

Memorandum

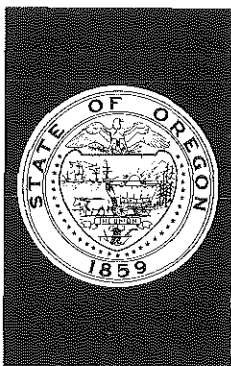
To: Environmental Quality Commission
From: Director
Subject: Agenda Item No. I, November 30, 1972, EQC Meeting

CWAPA Variances (Confirming approval by EQC)

This item has been deleted from the November 30, 1972
agenda.


L. B. Day

RBS:vt
11/22/72



DEPARTMENT OF ENVIRONMENTAL QUALITY

TERMINAL SALES BLDG. • 1234 S.W. MORRISON ST. • PORTLAND, OREGON 97205

TOM McCALL
GOVERNOR

L. B. DAY
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MEMORANDUM

To: Environmental Quality Commission

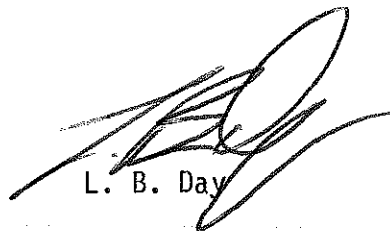
From: Director

Subject: Agenda Item No. J, November 30, 1972, EQC Meeting

Tax Credit Applications

Attached are review reports on 28 Tax Credit Applications.

These applications and the recommendations of the Director are summarized on the attached table.



L. B. Day

WEG:ahe

November 24, 1972

TAX CREDIT APPLICATIONS

Applicant	Appl No.	Facility	Claimed Cost	% Allocable to Poll. Control	Director's Recommendation
The J.M. Smucker Company	T-296	Incineration system	\$ 7,101.21	80% or more	Issue
West Coast Beet Seed Company	T-322	Dust Remover	58,882.49	80% or more	Issue
Empire Building Material Co. Empire Lite-Rock Division	T-323	Elimination of suspended solids by treatment of runoff water	36,849.	80% or more	Issue
Precision Castparts Corp.	T-325	Cyclone Dust Collectors (3)	6,524.38	80% or more	Issue
Brooks-Willamette Corporation Bend Division	T-332	Dust Collection System	4,035.81	40% or more	Issue
Modoc Orchard Company	T-339	Overhead Sprinkling System	60,435.49	60% or more	Issue
Teledyne Wah Chang Albany Div. of Teledyne Industries	T-343	Process unit for production of fertilizer	215,374.	80% or more	Issue
Teledyne Wah Chang Albany Div. of Teledyne Industries	T-344	Ammonia recovery unit	390,713.	80% or more	Issue
Teledyne Wah Chang Albany Div. of Teledyne Industries	T-345	Storage pond	18,077.	80% or more	Issue
Teledyne Wah Chang Albany Div. of Teledyne Industries	T-349	Effluent Neutralization System	4,187.	80% or more	Issue
Teledyne Wah Chang Albany Div. of Teledyne Industries	T-346	Exhaust gas treatment system	15,125.	80% or more	Issue
Teledyne Wah Chang Albany Div. of Teledyne Industries	T-347	Pre-treatment devices	12,535.	80% or more	Issue

TAX CREDIT APPLICATIONS

Page 2

Applicant	Appl. No.	Facility	Claimed Cost	% Allocable to Poll. Control	Director's Recommendation
Teledyne Wah Chang Albany Div. of Teledyne Industries	T-348	Stack gas monitoring system	\$ 1,010.50	80% or more	Issue
Teledyne Wah Chang Albany Div. of Teledyne Industries	T-350	Duct system	8,186.	80% or more	Issue
Teledyne Wah Chang Albany Div. of Teledyne Industries	T-351	Storage pond enlargement	20,742.	80% or more	Issue
Teledyne Wah Chang Albany Div. of Teledyne Industries	T-352	Packed wet scrubber tower	29,728.	80% or more	Issue
Teledyne Wah Chang Albany Div. of Teledyne Industries	T-353	Removal of ketone from waste streams	34,844.	80% or more	Issue
Teledyne Wah Chang Albany Div. of Teledyne Industries	T-354	Ductwork system	11,882.	80% or more	Issue
Teledyne Wah Chang Albany Div. of Teledyne Industries	T-355	Venturi scrubber system	70,974.	80% or more	Issue
Teledyne Wah Chang Albany Div. of Teledyne Industries	T-356	Chamber mixing tank for pH adjustment of combined effluents	24,890.	80% or more	Issue
Teledyne Wah Chang Albany Div. of Teledyne Industries	T-357	Removal of ketone from waste streams	29,790.	80% or more	Issue
Midland-Ross Corporation Midrex Division Rivergate Plant, Portland	T-373	Wastewater collection facility	98,715.	20% or less	Issue
Midland-Ross Corporation Midrex Division Rivergate Plant, Portland	T-374	Slurry settling pond	275,000.	20% or less	Issue

TAX CREDIT APPLICATIONS

Page 3

<u>Applicant</u>	<u>Appl. No.</u>	<u>Facility</u>	<u>Claimed Cost</u>	<u>% Allocable to Poll. Control</u>	<u>Director's Recommendation</u>
Cascade Orchard, Inc.	T-378	Propane orchard heating system	\$21,898.59	80% or more	Issue
Morse Brothers, Inc. Albany Plant	T-382	Scavender dust fan, cyclone & reject dust bin	6,811.83	80% or more	Issue
Herbert Malarkey Paper Co.	T-383	Wastewater collection & pump station facility	47,521.	80% or more	Issue
Dwight West	T-384	Animal waste storage facility	18,065.67	80% or more	Issue
Dwight West	T-385	Anaerobic lagoons (2)	7,100.91	80% or more	Issue
Dwight West	T-386	Animal waste storage facility	4,835.48	80% or more	Issue

WEG:ahe

November 24, 1972

State of Oregon
DEPARTMENT OF ENVIRONMENTAL QUALITY
TAX RELIEF APPLICATION REVIEW REPORT

1. Applicant

The J. M. Smucker Company
Canby Plant
1440 Silverton Road
Woodburn, Oregon 97071

The applicant operates a fruit and berry packing plant at Canby, Oregon.

This application was received February 10, 1972, and was misplaced due to a filing error. The application was found and reactivated on August 9, 1972, and the company was so notified at that time. The report from the Columbia-Willamette Air Pollution Authority was received August 25, 1972.

2. Description of Claimed Facility

The claimed facility is an incineration system to control visible and particulate emissions to the atmosphere and consists of the following:

1. Pacific Coast Incinerators, Model CSN 350-12, three chamber incinerator, 350 lb/hr capacity.
2. Pacific Coast Incinerators, Model 35 NCGW, flue gas washer.
3. Settling tank, electrical controls and induced draft system.
4. Foundation, electrical, and plumbing work required for installation.

The facility was completed and placed in service in August, 1970.

Certification is claimed under the 1967 Act. Since construction was not started until May 25, 1970, it would only be eligible for certification under the 1969 Act. The percentage claimed for pollution control is 100%.

Facility costs: \$7,101.21 (copies of Purchase Orders and Invoices were provided).

3. Evaluation of Application

The Columbia-Willamette Air Pollution Authority report states that the company was required to cease violation of the Authority's open burning rules. The company, in its compliance program, elected to install the incineration system. The authority reviewed and approved the installation and made a final inspection of the completed facility in August

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November 21, 1972
Page 2

and September, 1970. At that time the Authority determined that the installation did operate as planned and that the company was operating in compliance with the Authority's rules and regulations.

The facility did enable the company to dispose of the plant waste residues in an approved manner in lieu of the open burning means previously employed.

The company will not be able to earn any return on this investment.

4. Director's Recommendation

It is recommended that a Pollution Control Facility Certificate bearing the cost of \$7,101.21, with 80% or more of the cost allocated to pollution control, be issued for the facility claimed in Tax Application T-296.

RAR:ahc

State of Oregon
DEPARTMENT OF ENVIRONMENTAL QUALITY
TAX RELIEF APPLICATION REVIEW REPORT

1. Applicant

West Coast Beet Seed Company
2380 Claxter Road, N. E.
Post Office Box 711
Salem, Oregon 97308

The applicant owns and operates a sugar beet seed cleaning plant on Claxter Road in Salem, Oregon.

This application was received on March 2, 1972.

2. Description of Facility

The claimed facility is described to be a baghouse, 100 hp fan and ducts for removing dust from seed cleaning and pneumatic seed transfer systems.

The facility was completed July 31, 1971.

Certification must be made under the 1969 Act. The percentage claimed to be allocable to pollution control is 100%.

Facility cost: \$58,882.49. (An accountant's certification was submitted to document the cost.)

3. Evaluation of Application

The claimed facility removes dust generated by the beet seed cleaning and related operations which otherwise would be released to the atmosphere. The dust is combined with heavy seed screenings and made into pelletized animal feed. The value of the collected dust is insufficient to offset operating costs of the claimed facility.

The Mid-Willamette Valley Air Pollution Authority has stated by letter that the facility was constructed according to plans previously approved by that agency and appears to operate within the agency regulations.

It is concluded that the facility was installed and is operated to control air pollution and that 100% of its cost is allocable to pollution control.

4. Director's Recommendation

It is recommended that a Pollution Control Facility Certificate bearing the cost of \$58,882.49 be issued for the facility claimed in Tax Application T-322 with 80% or more of the cost allocable to pollution control.

State of Oregon
DEPARTMENT OF ENVIRONMENTAL QUALITY
TAX RELIEF APPLICATION REVIEW REPORT

1. Applicant

Empire Building Material Company
Empire Lite-Rock Division
9255 N. E. Halsey - P. O. Box 20086
Portland, Oregon 97220

2. Description of Claimed Facility

The facility consists of a settling pond with a chemical mixing tank and floating sprinkler system, pumps, etc., for removal of solids from runoff water from rock quarry. Grading and seeding of the surrounding area to prevent the erosion of soil into a nearby creek is also part of the facility. Also included are an outfall pipe from the settling basin and by-pass culvert for clean water diversion.

The claimed facility was placed in operation December, 1971.

Certification is claimed under the 1969 Act with 100% allocated to pollution control.

Facility Cost: \$36,849 (Accountant's certification was submitted)

3. Evaluation of Application

The claimed facilities were designed to eliminate the suspended solids by treatment of the runoff water and by eliminating the sources of the suspended solids. Prior to construction of the claimed facilities considerable suspended solids were introduced into Castor Creek from the runoff water leaving the applicant's operation. Recent investigation has revealed that erosion may still take place in the future and the facilities may not meet the prescribed standards. Sampling of the receiving stream this winter and spring during periods of high runoff will substantiate the effectiveness of the facilities. This application was presented to the Environmental Quality Commission at its meeting on October 25, 1972 with the recommendation that action be deferred until sampling of the stream this winter could substantiate the effectiveness of the claimed facilities. The applicant appeared at the meeting and requested issuance of a certificate and pledged to make any improvements that may be demonstrated necessary by winter sampling.

Since the claimed facilities do reduce the turbidity problem in the stream and since the company has committed itself to making any further improvements that may be necessary, it is concluded that a certificate can be issued.

4. Director's Recommendation

It is recommended that a Pollution Control Facility Certificate be issued for the facility claimed in Application No. T-323, such certificate to bear the actual cost of \$36,849 with 80% or more allocated to pollution control.

RJN/HLS:ak

State of Oregon
DEPARTMENT OF ENVIRONMENTAL QUALITY
TAX RELIEF APPLICATION REVIEW REPORT

1. Applicant

Precision Castparts Corporation
4600 S.E. Harney Drive
Portland, Oregon 97206

The applicant produces precision nickel, cobalt, titanium, and stainless steel base alloy castings using a lost-wax ceramic mold process.

This application was received on March 10, 1972.

2. Description of Claimed Facility

The claimed facility is described to include three cyclone type dust collectors for collecting metal and aluminum oxide particles generated in the abrasive removal of casting gates.

The facility was completed February 4, 1972.

Certification must be made under the 1969 Act. The percentage claimed to be allocable to pollution control is 100%.

Facility cost: \$6,524.38. Copies of invoices were submitted to document the \$5,219.41 expended for externally purchased equipment and freight. A total of \$1,304.97 was claimed for internal engineering and labor costs.

3. Evaluation of Application

The claimed facility was constructed according to plans reviewed and approved by the Columbia-Willamette Air Pollution Control Authority. The regional authority has stated that the facility appears to be achieving its intended purpose.

The documentation of expenditures is considered adequate and satisfactory since the claimed cost is considerably less than \$10,000.

It is concluded that the claimed facility was installed and operates to control air pollution and that 100% of its cost is allocable to pollution control.

4. Director's Recommendation

It is recommended that a Pollution Control Facility Certificate bearing the cost of \$6,524.38 be issued for the facility claimed in Tax Application T-325 with 80% or more allocable to pollution control.

State of Oregon
DEPARTMENT OF ENVIRONMENTAL QUALITY
TAX RELIEF APPLICATION REVIEW REPORT

1. Applicant

Brooks-Willamette Corporation
Bend Division
Post Office Box 1245
Bend, Oregon 97701

The applicant operates a particleboard plant in Bend.

2. Description of Claimed Facility

The claimed facility is a dust collection system consisting of the following:

1. Two (2) 40" diameter ducts from two (2) high pressure cyclones to the raw materials building.
2. One (1) 32" diameter duct from one (1) low pressure cyclone to the raw materials building.

The facility was completed and placed in service January 3, 1972.

Certification is claimed under the 1969 Act and the percentage claimed for pollution control is 100%.

Facility costs: \$4,035.81 (copies of all invoices were provided).

3. Evaluation of Application

The two (2) high pressure cyclones and the one (1) low pressure cyclone were used to control particulate emissions that were generated from the pneumatic wood material conveying systems. In October, 1970, a study of the mass emissions from all particulate sources was conducted. The emissions from the low pressure cyclone (system 100-3) was not measured at that time because it was not operating. The emissions from the two high pressure cyclones (systems 11 and 12) were measured at only 0.4 lb/hr. However, the company did state that all the systems did show some visible emissions when operating. The company, accordingly, proposed the collection system claimed in this application.

The exhausts from the three (3) cyclones on systems 11, 12 and 100-3 were connected to the raw materials building by the two (2) 42" diameter ducts and the one (1) 32" diameter duct. In this manner, the raw materials building was made to serve as a settling chamber for the particulate matter in the cyclone exhausts.

The facility was reviewed and approved by the Department in December, 1971. The Department, by letter dated December 22, 1971, stated that it was questionable as to whether or not this approach would serve to reduce the total particulate emissions although it was conceded that the visible emissions would be reduced because of the masking effect of the building and the lower elevation of the discharge point. This view is still held by the Department.

It is concluded that this facility does reduce the amount of particulate discharge to the atmosphere by perhaps 50% and it does serve to make the visible emissions less noticeable. The ideal solution, in this case, would have been the installation of a filter unit in the top of the raw materials building so that 90% or more of the particulate matter would have been captured. A baghouse installation of this nature would have been about five (5) times more expensive to install.

4. Director's Recommendation

It is recommended that a Pollution Control Facility Certificate bearing the cost of \$4,035.81, with 40% or more of cost allocated to pollution control, be issued for the facility claimed in Tax Application T-332.

RAR:ahe

Date 11-16-72

State of Oregon
DEPARTMENT OF ENVIRONMENTAL QUALITY
TAX RELIEF APPLICATION REVIEW REPORT

1. Applicant

Mr. George F. Joseph & Estate of Victor H.M. Joseph
dba Modoc Orchard Company
Post Office Box 56
Medford, Oregon 97501

The applicant operates a 285-acre pear orchard on Modoc Road north of Central Point.

This application was received on April 13, 1972.

2. Description of Claimed Facility

The claimed facility is described to be an overhead sprinkling system on 90 acres of pear orchard.

The facility was completed on March 9, 1972.

Certification is claimed under the 1969 Act. The percentage claimed for pollution control was not specified.

Facility cost: \$60,435.49 (Accountant's certification provided).

3. Evaluation of Application

The claimed facility serves to provide the frost protection for 60 acres of mature trees and 30 acres of young trees by replacing or eliminating the need for some 3,050 orchard heaters. In addition, the facility provides irrigation by sprinklers instead of by flooding for 90 acres of a 285-acre pear orchard. (The applicant has previously obtained certification for a similar 80-acre system of overhead sprinklers, Tax Credit Application T-212.)

Since the claimed facility does contribute to both reducing atmospheric emissions and increasing pear production, only a portion of it can be certified under the 1969 Act. In order to establish the percentage of the system allocable to pollution control, the company has provided data on hours of heating and hours of irrigation for those previous years for which this information was available. The data submitted for the seasons 1968-69, 1969-70, 1970-71 and 1971-72 indicate that the average hours of orchard heating (397 1/2 hours per season) and the average hours of irrigation (352 1/2 hours per season) were about equal. Although these numbers (specific to the 90 acres served by the claimed facility) are subject to many variables, they are considered to be sufficiently representative to make the desired determination for this particular application. (It is well established that

Tax Relief Application T-339
November 16, 1972
Page 2

the required amount of frost protection usually varies among orchards and often within a given orchard.

It is concluded that the facility operates to a substantial extent for reducing atmospheric emissions and that the portion of the cost allocable to pollution control should be 40% or more and less than 60%. (This is the same as the conclusion reached in Application T-212 which was previously certified.)

4. Director's Recommendation

It is recommended that a Pollution Control Facility Certificate bearing the cost of \$60,435.49, with more than 40% and less than 60% of the cost allocable to pollution control, be issued for the facility claimed in Tax Application T-339.

FAS:jc

State of Oregon
DEPARTMENT OF ENVIRONMENTAL QUALITY
TAX RELIEF APPLICATION REVIEW REPORT

1. Applicant

Teledyne Wah Chang
Division of Teledyne Industries, Inc.
1600 Old Pacific Highway (P. O. Box 460)
Albany, Oregon 97321

The applicant owns and operates a refractory and reactive metals production complex at Albany, Oregon, consisting of extraction and reduction of ores to produce zirconium, hafnium, tantalum and columbium.

2. Description of the Claimed Facility

The facility claimed is a storage pond for V-2 liquor prior to treatment in the ammonia recovery unit. In addition to the storage pond the claimed facility includes pumps and motors, piping, lime tank, mixer, instrumentation, valves and electrical.

The claimed facility was placed in operation November of 1970. Certification is claimed under the 1967 Act with 100% of the cost allocated to pollution control.

Facility Cost: \$18,077 (accountant's certification was attached to the application).

3. Evaluation of the Application

The facility was constructed to insure a continuous supply of feed to the Ammonia Distillation Column. V-2 liquor is intermittent and not continuously suitable as feed. The facility precludes the possibility of bypassing V-2 effluent, unsatisfactory for feed, to Truax Creek. V-2 effluent contains undesirable ammonium ions. No income is derived from the claimed facility.

4. Director's Recommendation

It is recommended that a pollution control facility certificate be issued for the facility claimed in Application T-345, such certificate to bear the actual cost of \$18,077 with 80% or more allocable to pollution control.

State of Oregon
DEPARTMENT OF ENVIRONMENTAL QUALITY
TAX RELIEF APPLICATION REVIEW REPORT

1. Applicant

Teledyne Wah Chang
Division of Teledyne Industries, Inc.
1600 Old Pacific Highway (P. O. Box 460)
Albany, Oregon 97321

The applicant owns and operates a refractory and reactive metals production complex at Albany, Oregon, consisting of extraction and reduction of ores to produce zirconium, hafnium, tantalum and columbium.

2. Description of Claimed Facility

The facility claimed is a 6" PVC line approximately 1400 feet in length. The line originates at the acid sump near the metal pickling building and terminates at the acid tank in the effluent neutralization area near the clarifier.

The claimed facility was placed in operation April 1971. Certification is claimed under the 1969 Act with 100% of the cost allocated to pollution control.

Facility Cost: \$4,187 (Accountant's certification was provided)

3. Evaluation of the Application

The system was installed to transfer acid wastes (Hydrofluoric acid) to the treatment area where it is introduced to neutralize effluents. At the same time the fluoride ion is removed from the effluent by precipitation as calcium fluoride. The company's Waste Discharge Permit has limits on pH and fluoride ion in the effluent to Truax Creek.

4. Director's Recommendation

It is recommended that a Pollution Control Facility Certificate be issued for the facility claimed in application T-349, such certificate to bear the actual cost of \$4,187 with 80% or more allocable to pollution control.

State of Oregon
DEPARTMENT OF ENVIRONMENTAL QUALITY
TAX RELIEF APPLICATION REVIEW REPORT

1. Applicant

Teledyne Wah Chang Albany
Division of Teledyne Industries, Inc.
(1600 Old Pacific Highway)
Post Office Box 460
Albany, Oregon 97321

The applicant produces zirconium, hafnium, tantalum and columbium, and alloys of these reactive metals.

This application was received on April 27, 1972.

2. Description of Claimed Facility

The claimed facility is described to be a venturi scrubber (Simpson 3000 cfm) located next to the Zirconium Reduction Building (Building No. 1) for treating the exhaust gases from the reduction furnace-seal hoods and condenser-bleeder stems.

The facility was completed in October, 1969.

Certification is claimed under the 1969 Act with 100% allocable for pollution control.

Facility cost: \$15,125 (Accountant's certification was provided).

3. Evaluation of Application

The claimed facility was constructed according to plans reviewed and approved by the Mid-Willamette Valley Air Pollution Authority. The facility collects about 400 pounds of solid and gaseous chloride materials per day.

It is concluded that the claimed facility was installed and is operated to control air pollution and that 100% of its cost is allocable to pollution control.

4. Director's Recommendation

It is recommended that a Pollution Control Facility Certificate bearing the cost of \$15,125, with 80% or more of the cost allocable to pollution control, be issued for the facility claimed in Tax Application T-346.

State of Oregon
DEPARTMENT OF ENVIRONMENTAL QUALITY
TAX RELIEF APPLICATION REVIEW REPORT

1. Applicant

Teledyne Wah Chang Albany
Division of Teledyne Industries, Inc.
(1600 Old Pacific Highway)
Post Office Box 460
Albany, Oregon 97321

The applicant produces zirconium, hafnium, tantalum and columbium, and alloys of these reactive metals.

This application was received on April 27, 1972.

2. Description of Claimed Facility

The claimed facility is described to be two Tri-Mer Separators which serve as pre-treatment devices for the Pure Chlorination scrubber (Building No. 1).

The claimed facility was completed in October, 1969.

Certification is claimed under the 1969 Act with 100% allocable for pollution control.

Facility cost: \$12,535 (Accountant's certification provided).

3. Evaluation of Application

The claimed facility serves to remove a majority of the silicon tetrachloride from the pure chlorinator exhaust ahead of a packed scrubber. (The packed scrubber, which is not claimed, removes other chlorides and chlorine.) Silicon tetrachloride reacts with water to form a material which would plug the packed tower. Thus the pre-treatment to remove the silicon tetrachloride protects the packed scrubber. The Mid-Willamette Valley Air Pollution Authority has indicated that the claimed facility is apparently achieving its intended purpose.

It is concluded that the claimed facility was installed and is operated to control air pollution and that 100% of its cost is allocable to pollution control.

4. Director's Recommendation

It is recommended that a Pollution Control Facility Certificate bearing the cost of \$12,535, with 80% or more of the cost allocable to pollution control, be issued for the facility claimed in Tax Application T-347.

State of Oregon
DEPARTMENT OF ENVIRONMENTAL QUALITY
TAX RELIEF APPLICATION REVIEW REPORT

1. Applicant

Teledyne Wah Chang Albany
Division of Teledyne Industries, Inc.
(1600 Old Pacific Highway)
Post Office Box 460
Albany, Oregon 97321

The applicant produces zirconium, hafnium, tantalum and columbium, and alloys of these reactive metals.

This application was received on April 27, 1972.

2. Description of Claimed Facility

The claimed facility is described to be a Calgon Chemomtor Chlorine/Chloride Stack Gas Monitor for continuously determining and recording the relative concentrations of chlorine and chlorides in the Pure Chlorination Area scrubber stack (Building No. 1).

The claimed facility was completed in April, 1970.

Certification is claimed under the 1969 Act with 100% allocable to pollution control.

Facility cost: \$1010.50 (Copy of Calgon Corporation invoice no. 6 01170 provided).

3. Evaluation of Application

The claimed facility is a custom-built prototype unit for continuously monitoring and recording relative chlorine and chloride values in the pure chlorinator exhaust. The facility was required by the Mid-Willamette Valley Air Pollution Authority and was intended to provide a real-time readout of scrubber efficiency which otherwise involved lengthy analytical procedures.

The facility appears to be achieving its intended purpose.

Since the claimed cost is considerably below \$10,000, the copy of Calgon Corporation invoice no. 6 01170 is sufficient cost documentation.

It is concluded that the claimed facility was installed and is operated to control air pollution. In addition, 100% of the claimed costs appears allocable to pollution control.

Tax Relief Application T-348

November 14, 1972

Page 2

4. Director's Recommendation

It is recommended that a Pollution Control Facility Certificate bearing the cost of \$1010.50, with 80% or more of the cost allocable to pollution control, be issued for the facility claimed in Tax Application T-348.

FAS:ahe

State of Oregon
DEPARTMENT OF ENVIRONMENTAL QUALITY
TAX RELIEF APPLICATION REVIEW REPORT

1. Applicant

Teledyne Wah Chang
Division of Teledyne Industries, Inc.
1600 Old Pacific Highway (P.O. Box 460)
Albany, Oregon 97321

The applicant owns and operates a refractory and reactive metals production complex at Albany, Oregon, consisting of extraction and reduction of ores to produce zirconium, hafnium, tantalum and columbium.

2. Description of Claimed Facility

The ammonia recovery unit is a process unit consisting of:

- a. Ammonia recovery column.
- b. Ammonia condenser.
- c. Accumulator.
- d. Ammonia absorption unit.
- e. Ammonia cooler.
- f. Necessary piping and controls.
- g. Motors, pumps and electrical controls.
- h. Lime system.
- i. Steam boiler (in common with fertilizer plant)

The claimed facility was placed in operation in November 1969. Certification is claimed under the 1967 Act.

Facility Cost: \$390,713 (accountant's certification was provided).

3. Evaluation of Application

The system was installed so as to remove large quantities of ammonium ion which were previously discharged to Truax Creek. The ammonia recovered is recycled to the separations plant. Cost of this operation outweighs value of ammonia recovery. The company reports:

421,140 pounds ammonia recovered in August.

537,540 pounds ammonia recovered in July.

455,388 pounds ammonia recovered in June.

State of Oregon
DEPARTMENT OF ENVIRONMENTAL QUALITY
TAX RELIEF APPLICATION REVIEW REPORT

4. Director's Recommendation

It is recommended that a Pollution Control Facility Certificate be issued under the 1967 Act for the facility claimed in Application T-344, such certificate to bear the actual cost of \$390,713.

State of Oregon
DEPARTMENT OF ENVIRONMENTAL QUALITY
TAX RELIEF APPLICATION REVIEW REPORT

1. Applicant

Teledyne Wah Chang
Division of Teledyne Industries, Inc.
1600 Old Pacific Highway (P.O. Box 460)
Albany, Oregon 97321

The applicant owns and operates a refractory and reactive metals production complex at Albany, Oregon, consisting of extraction and reduction of ores to produce zirconium, hafnium, tantalum and columbium.

2. Description of Claimed Facility

The facility is a crystallizer and drier for the production of Ammonium Sulfate fertilizer and ancillary tanks, pumps, process piping, instrumentation, motors and electrical controls. The main components of the process unit consists of:

- a. Finishing filter press.
- b. Filtrate tank (12' diameter x 20' high).
- c. Continuous crystallizer, Struthers Wells Krystal Evaporator.
- d. Slurry screen.
- e. Centrifuge, Baker Perkins 2-8.
- f. Crystal Drier and Cooler.
- g. Drier exhaust system and cyclone collector.
- h. Screen.
- i. Solids handling.
- j. Boiler (in common with ammonia recovery).

The claimed facility was placed in operation September 1, 1969. Certification is claimed under the 1967 Act.

Facility Cost: \$215,374 (accountant's certification was provided).

3. Evaluation of the Application

The system was installed to remove large quantities of ammonium and sulfate ion as ammonium sulfate fertilizer. These ions were previously discharged to Truax Creek. The operating cost of the plant far outweighs the value of the fertilizer recovered in spite of the fact that 10,000 pounds of ammonium sulfate are recovered and kept out of Truax Creek per day.

State of Oregon
DEPARTMENT OF ENVIRONMENTAL QUALITY
TAX RELIEF APPLICATION REVIEW REPORT

4. Director's Recommendation

It is recommended that a Pollution Control Facility Certificate be issued under the 1967 Act for the facility claimed in Application T-343, such certificate to bear the actual cost of \$215,374.

11/1/72 WDL

State of Oregon
DEPARTMENT OF ENVIRONMENTAL QUALITY
TAX RELIEF APPLICATION REVIEW REPORT

1. Applicant

Teledyne Wah Chang Albany
Division of Teledyne Industries, Inc.
(1600 Old Pacific Highway)
Post Office Box 460
Albany, Oregon 97321

The applicant produces zirconium, hafnium, tantalum and columbium, and alloys of these reactive metals.

This application was received on April 27, 1972.

2. Description of Facility

The claimed facility is described to be the duct system which carries the exhaust gases from the reduction furnace-seal hoods and condenser-bleeder stems to the Venturi scrubber claimed in Tax Application T-346.

The facility claimed in Tax Application T-350 was completed in July, 1971.

Certification is claimed under the 1969 Act with 100% allocable to pollution control.

Facility cost: \$8,186 (Accountant's certification provided).

3. Evaluation of Application

The claimed facility is necessary to transport the exhaust gases from the sites where they are generated to the site where they are treated to remove solid and gaseous chloride materials. (The treatment device, a Venturi scrubber, is the subject of Tax Application T-346.)

It is concluded that the claimed facility was installed and is operated to control air pollution and that 100% of its cost is allocable to pollution control.

4. Director's Recommendation

It is recommended that a Pollution Control Facility Certificate bearing the cost of \$8,186, with 80% or more allocable to pollution control, be issued for the facility claimed in Tax Application T-350.

State of Oregon
DEPARTMENT OF ENVIRONMENTAL QUALITY
TAX RELIEF APPLICATION REVIEW REPORT

1. Applicant

Teledyn Wah Chang
Division of Teledyn Industries, Inc.
1600 Old Pacific Highway (P. O. Box 460)
Albany, Oregon 97321

The applicant owns and operates a refractory and reactive metals production complex at Albany, Oregon, consisting of extraction and reduction of ores to produce zirconium, hafnium, tantalum and columbium.

2. Description of Claimed Facility

The facility claimed is enlargement (raising of dikes) of a storage pond for solids removed from the company's liquid waste as a slurry at the clarifier.

The claimed facility was placed in operation January 1970. Certification is claimed under the 1969 Act with 100% of the cost allocated to pollution control.

Facility Cost: \$20,742 (Accountant's certification was provided)

3. Evaluation of the Application

Land where the solids storage pond is located was originally certified by Certificate No. 78 (Application No. T-100). The original solids pond was certified by Certificate No. 80 (Application No. T-102). The original pond design contemplated the raising of the dikes claimed in this application to increase pond capacity at a future date.

A centrifuge has since been installed near the clarifier to remove solids. The solids are deposited in a box below the centrifuge and transferred when full to municipal landfill. The claimed facility (solids pond) is now full. When sufficiently dry the solids will be removed from the pond and it will be retained for back up to the centrifuge.

4. Director's Recommendation

It is recommended that a Pollution Control Facility Certificate be issued for the facility claimed in Application T-351, such certificate to bear the actual cost of \$20,742 with 80% or more of the cost allocable to pollution control.

State of Oregon
DEPARTMENT OF ENVIRONMENTAL QUALITY
TAX RELIEF APPLICATION REVIEW REPORT

1. Applicant

Teledyne Wah Chang Albany
Division of Teledyne Industries, Inc.
(1600 Old Pacific Highway)
Post Office Box 460
Albany, Oregon 97321

This applicant produces zirconium, hafnium, tantalum and columbium, and alloys of these reactive metals.

This application was received on April 27, 1972.

2. Description of Claimed Facility

The claimed facility is described to be a packed wet scrubber tower (8800 CFM Ershig Tower), ancillary control equipment, fan, ductwork, and acid handling system using sulfuric acid solution for treating ammonia fumes from the tantalum/columbium separation plant (Building No. 11).

The claimed facility was completed in January, 1970.

Certification is claimed under the 1969 Act with 100% allocable to pollution control.

Facility cost: \$29,728 (Accountant's certification provided).

3. Evaluation of Application

The claimed facility was constructed according to plans reviewed and approved by the Mid-Willamette Valley Air Pollution Authority.

The claimed facility was intended to control ammonia emissions to the atmosphere. The Regional Authority has indicated that the facility is achieving its intended purpose.

It is concluded that the facility was installed and is operated to control air pollution and that 100% of its cost is allocable to pollution control.

4. Director's Recommendation

It is recommended that a Pollution Control Facility Certificate bearing the cost of \$29,758 with 80% or more allocable to pollution control be issued for the facility claimed in Tax Application T-352.

State of Oregon
DEPARTMENT OF ENVIRONMENTAL QUALITY
TAX RELIEF APPLICATION REVIEW REPORT

1. Applicant

Teledyne Wah Chang
Division of Teledyne Industries, Inc.
1600 Old Pacific Highway (P.O. Box 460)

The applicant owns and operates a refractory and reactive metals production complex at Albany, Oregon, consisting of extraction and reduction of ores to produce zirconium, hafnium, tantalum and columbium.

2. Description of Claimed Facility

The claimed facility is designed to remove methyl-isobutyl ketone from waste streams in the tantalum/columbium separations plant. Its main components are:

- a. Stripping columns (2) (zirconium metal).
- b. Ancillary instrumentation.
- c. Temperature Controllers/Recorders.
- d. Piping.
- e. Steam supply.
- f. Ketone recycle system.

The claimed facility was placed in operation October 1970. Certification is claimed under the 1969 act with 100% of the cost allocated to pollution control.

Facility Cost: \$34,844 (accountant's certification was provided).

3. Evaluation of the Application

The system was installed to remove 1975 pounds per day of methyl-isobutyl ketone from the tantalum/columbium separations plant effluent to Truax Creek. Design efficiency is 97% removal.

4. Director's Recommendation

It is recommended that a Pollution Control Facility Certificate be issued for the facility claimed, such certificate to bear the actual cost of \$34,844 with 80% or more of the cost allocable to pollution control.

State of Oregon
DEPARTMENT OF ENVIRONMENTAL QUALITY
TAX RELIEF APPLICATION REVIEW REPORT

1. Applicant

Teledyne Wah Chang Albany
Division of Teledyne Industries, Inc.
(1600 Old Pacific Highway)
Post Office Box 460
Albany, Oregon 97321

This applicant produces zirconium, hafnium, tantalum and columbium, and alloys of these reactive metals.

This application was received on April 27, 1972.

2. Description of Claimed Facility

The claimed facility is described to be two additional ductwork systems which collect malodorous emissions from various production areas and equipment located in the Hafnium Calciner Building (Building No. 9), Separations Warehouse (Building No. 10), and Separations Building (Building No. 11). (The claimed facility connects to previously existing ductwork which in turn leads to an existing packed wet scrubber using a hypochlorite solution. The previously existing ductwork and scrubber are not claimed in this application.)

The claimed facility was completed in February, 1970.

Certification is claimed under the 1969 Act with 100% allocable to pollution control.

Facility cost: \$11,882 (Accountant's certification provided).

3. Evaluation of Application

The claimed facility was constructed according to plans reviewed and approved by the Mid-Willamette Valley Air Pollution Authority.

The claimed facility was intended to collect additional malodorous materials for subsequent treatment. The Regional Authority has indicated that the claimed facility is achieving its intended purpose.

It is concluded that the claimed facility was installed and is operated to control air pollution and that 100% of its cost is allocable to pollution control.

4. Director's Recommendation

It is recommended that a Pollution Control Facility Certificate bearing the cost of \$11,882 with 80% or more allocable to pollution control be issued to the facility claimed in Tax Application T-354.

State of Oregon
DEPARTMENT OF ENVIRONMENTAL QUALITY
TAX RELIEF APPLICATION REVIEW REPORT

1. Applicant

Teledyne Wah Chang Albany
Division of Teledyne Industries, Inc.
(1600 Old Pacific Highway)
Post Office Box 460
Albany, Oregon 97321

This applicant produces zirconium, hafnium, tantalum and columbium, and alloys of these reactive metals.

This application was received on April 27, 1972.

2. Description of Claimed Facility

The claimed facility is described to be a 20,000 CFM Venturi scrubber system which treats gaseous and particulate materials emitted from the magnesium recovery area, crucible burn-out enclosure, and retort wash area in the Mag. Smelting Building (Building No. 61).

The claimed facility was completed in January, 1971.

Certification is claimed under the 1969 Act with 100% allocable to pollution control.

Facility cost: \$70,974 (Accountant's certification provided).

3. Evaluation of Application

The claimed facility was constructed according to plans reviewed and approved by the Mid-Willamette Valley Air Pollution Authority.

The claimed facility was intended to reduce the emission of gaseous and particulate materials. The facility is achieving its intended purpose.

It is concluded that the claimed facility was installed and is operated to control air pollution and that 100% of its cost is allocable to pollution control.

4. Director's Recommendation

It is recommended that a Pollution Control Facility Certificate bearing the cost of \$70,974, with 80% or more allocable to pollution control, be issued for the facility claimed in Tax Application T-355.

State of Oregon
DEPARTMENT OF ENVIRONMENTAL QUALITY
TAX RELIEF APPLICATION REVIEW REPORT

1. Applicant

Teledyne Wah Chang
Division of Teledyne Industries, Inc.
1600 Old Pacific Highway (P.O. Box 460)
Albany, Oregon 97321

The applicant owns and operates a refractory and reactive metals production complex at Albany, Oregon, consisting of extraction and reduction of ores to produce zirconium, hafnium, tantalum and columbium.

2. Description of the Claimed Facility

The facility is a five chamber (treated wood) mining tank for pH adjustment of combined effluents. Neutralization is accomplished by mixing lime slurry or pickling acid. Four cells are equipped with mixers. Acid and lime feed are controlled by sensors, controllers and recorders.

The claimed facility was placed in operation October 1970. Certification is claimed under the 1969 act with 100% allocated to pollution control.

Facility Cost: \$24,890. (Accountant's certification was provided).

3. Evaluation of the Application

The neutralization adjustment was installed primarily to control pH which fluctuated and was usually alkaline. Alkalinity has considerable effect on the toxicity of the ammonium ion in the effluent so that pH control is important in the treatment of the company's wastes. The addition of lime and the agitation here also tends to remove fluoride ion. The facility is a necessary part of the company's treatment system.

4. Director's Recommendation

It is recommended that a Pollution Control Facility Certificate be issued for the facility claimed in Application T-356, such certificate to bear the actual cost of \$24,890 with 80% or more of the cost allocable to pollution control.

State of Oregon
DEPARTMENT OF ENVIRONMENTAL QUALITY

TAX RELIEF APPLICATION REVIEW REPORT

1. Applicant

Teledyne Wah Chang
Division of Teledyne Industries, Inc.
1600 Old Pacific Highway (P. O. Box 460)
Albany, Oregon 97321

The applicant owns and operates a refractory and reactive metals production complex at Albany, Oregon, consisting of extraction and reduction of ores to produce zirconium, hafnium, tantalum and columbium.

2. Description of Claimed Facility

The claimed facility is designed to remove methyl-isobutyl ketone from waste streams in the zirconium/hafnium separations plant. Its main components are:

- a. Stripping columns (2) (zirconium metal)
- b. Ancillary instrumentation
- c. Temperature controllers/recorders
- d. Piping
- e. Steam supply
- f. Ketone recycle system

The claimed facility was placed in operation October 1970, certification is claimed under the 1969 Act with 100% of the cost allocated to pollution control.

Facility Cost: \$29,790 (Accountant's certification was provided)

3. Evaluation of the Application

The system was installed to remove 2450 pounds per day of methyl-isobutyl ketone from the zirconium/hafnium separations plant effluent to Truax Creek. Design efficiency is 98% removal.

4. Director's Recommendation

It is recommended that a Pollution Control Facility Certificate be issued for the facility claimed, such certificate to bear the actual cost of \$29,790 with 80% or more of the cost allocable to pollution control.

State of Oregon
DEPARTMENT OF ENVIRONMENTAL QUALITY
TAX RELIEF APPLICATION REVIEW REPORT

1. Applicant

Midland-Ross Corporation
Midrex Division
Rivergate Plant, Portland, Oregon
55 Public Square
Cleveland, Ohio 44113

The applicant owns and operates an iron ore pelletizing and reducing plant to produce iron suitable as raw feed to Oregon Steel Mills at Rivergate in Multnomah County.

2. Description of Claimed Facility

The waste water collection facility consists of:

- a. 2 collection sumps
- b. 1 process discharge pump, Worthington - Model 8x12 FR-127 - 100 HP.
- c. 1 water discharge pump, Gould Model 3755 - 75 HP.
- d. Overflow pump, Denver 6" x 6" SLR - 30 HP.
- e. Associated piping, valves and fittings
- f. Motors, motor controls and wiring

The claimed facility was placed in operation in March, 1970. Certification is claimed under the 1969 Act with 17.8% of the cost allocated to pollution control.

Facility cost: \$98,715. (Accountant's certification was attached to application).

3. Evaluation of Application

Installation of claimed facility was incorporated in the original construction of the plant as part of the dust collecting system, cooling and process water collecting and transfer. The total facility removes 85,200 pounds of iron oxide and metallized dust per day from exhaust air. This is 97% removal. This application is for a part of the total facility.

The claimed facility, as stated above, has functions other than collecting and transferring dust laden waste waters. The company has calculated the portion of the total cost allocable to this application by applying the ratio of scrubber water effluent to total flow of the system (17.8%).

The application states that annual income derived from recovered materials is zero, as the value is assessed against other claimed facilities.

The facility is performing as designed.

4. Director's Recommendation

It is recommended that a Pollution Control Facility Certificate be issued for the facility claimed in Application T-373, such certificate to bear the actual cost of \$98,715, with less than 20% of the cost allocable to pollution control.

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State of Oregon
DEPARTMENT OF ENVIRONMENTAL QUALITY
TAX RELIEF APPLICATION REVIEW REPORT

1. Applicant

Midland-Ross Corporation
Midrex Division
Rivergate Plant - Portland, Oregon
55 Public Square
Cleveland, Ohio 44113

The applicant owns and operates an iron ore pelletizing and reduction plant to produce iron suitable as raw feed to Oregon Steel Mills at Rivergate in Multnomah County.

2. Description of Claimed Facility

The claimed facility consists of a slurry settling pond of approximately 4 1/2 acres, overflow weirs, concrete flume and pipe for collecting decanted water, and a 350 Hp diesel driven suction dredge for removing settled particles.

The claimed facility was placed in operation in March 1970. Certification is claimed under the 1969 Act with 13% of the cost allocated to pollution control.

Facility Cost: \$275,000 (Accountant's certification was attached to application.)

3. Evaluation of Application

Installation of claimed facility was incorporated in the original construction of the plant as part of the dust collection system. The total facility removes 85,200 pounds of iron oxide and metallized dust per day from exhaust air. This is 97% removal.

The claimed facilities main function is to receive, store and transfer to process iron oxide ore. The dust laden scrubber water is returned to this facility. Midrex claims that 13% of the cost of the claimed facility is properly allocable to pollution control.

They state that annual income derived from recovered materials is zero (this application) as the value is assessed against other claimed facilities.

The facility is performing as designed.

4. Director's Recommendation

It is recommended that a Pollution Control Facility Certificate be issued for the facilities claimed in Application T-374, such certificate to bear the actual cost of \$275,000, with less than 20% of the cost allocable to pollution control.

State of Oregon
DEPARTMENT OF ENVIRONMENTAL QUALITY
TAX RELIEF APPLICATION REVIEW REPORT

1. Applicant

Cascade Orchard, Inc.
Route 1, Box 620
Hood River, Oregon 97031

The applicant owns and operates pear, cherry, and apple orchards about seven miles southeast of Hood River, Oregon.

This application was received, minus the cost certification, on June 23, 1972. Completion of the application was made July 19, 1972.

2. Description of Claimed Facility

The claimed facility is described to be a propane orchard heating system consisting of an 18,000 gallon propane storage tank, approximately 1200 burners, PVC pipe lines, and appropriate regulators and controls which replaced about 1200 diesel fueled open buckets.

The claimed facility was completed in April, 1971.

Certification is claimed under the 1969 Act with 100% allocable to pollution control.

Facility cost: \$21,898.59 (the claimed cost figure was documented with a detailed listing of items and costs prepared by Mr. G.B. Wertgen, a Certified Public Accountant and president of Cascade Orchards, Inc.).

3. Evaluation of Application

The claimed facility, which allowed the phase-out of approximately 1200 diesel fueled open buckets, can be activated faster and operated with less manpower than the previous heating method. However, the claimed facility has a higher fuel cost than the old system. The claimed facility, which heats a total of 37 acres, definitely operates with much less air pollution than the open buckets.

The applicant prepared a listing of itemized costs and requested in writing that this listing be accepted as adequate documentation of the claimed cost.

It appears that the operating cost of the claimed facility is no less than equal and likely greater than that of the open buckets and that the benefit of quicker start-up is real but unassessable. Since the application was prepared by a CPA and it was indicated that property tax relief would be applied for, the cost documentation presented in the application is acceptable. (The mechanics of property tax relief in

essence involves an exemption from the tax rolls without consideration of cost.)

Since the claimed facility allowed the phase-out of an existing orchard heating system without any easily assessable advantages and operates with considerably less air pollution, it is concluded that the facility can be considered to be a pollution control facility for the purposes of the tax relief program.

4. Director's Recommendation

It is recommended that a Pollution Control Facility Certificate bearing the cost of \$21,898.59, with 80% or more allocable to pollution control, be issued for the facility claimed in Tax Application T-378.

FAS:ahe

State of Oregon
DEPARTMENT OF ENVIRONMENTAL QUALITY
TAX RELIEF APPLICATION REVIEW REPORT

1. Applicant

Morse Brothers, Inc.
(Albany Plant)
Post Office Box 7
Lebanon, Oregon 97355

The applicant owns and operates a stationary hot-mix asphalt plant at 1747 S. E. Kennel Road, Albany, Oregon 97321.

This application was received on July 20, 1972.

2. Description of Claimed Facility

The claimed facility is described to include a 12,000 CFM scavenger dust fan, a cyclone, and a reject dust bin.

The claimed facility was completed in April, 1971.

Certification is claimed under the 1969 Act with 100% allocable to pollution control.

Facility cost: \$6,811.83 (Accountant's certification provided).

3. Evaluation of Application

The claimed facility was constructed according to plans reviewed and approved by the Mid-Willamette Valley Air Pollution Authority. The claimed facility was intended to enable an existing wet-wash system achieve compliance with the Regional Authority regulations. The Regional Authority has indicated that the facility is achieving its intended purpose.

It is concluded that the facility was installed and is operated to control air pollution and that 100% of its cost is allocable to pollution control.

4. Director's Recommendation

It is recommended that a Pollution Control Facility Certificate bearing the cost of \$6,811.83, with 80% or more allocable to pollution control, be issued for the facility claimed in Tax Application T-382.

State of Oregon
DEPARTMENT OF ENVIRONMENTAL QUALITY
TAX RELIEF APPLICATION REVIEW REPORT

1. Applicant

Herbert Malarkey Paper Company
3131 N. Columbia Boulevard
Portland, Oregon 97217

The applicant owns and operates a plant for manufacturing roofing materials from waste paper, wood flour and asphalt.

2. Description of Claimed Facility

A waste water collection and pump station facility consisting of:

- a. Approximately 725 ft. of 10" CSP with manholes at points of collection sewer pipe bearing change (3 manholes).
- b. Approximately 450 ft. of 8" CIP to sampling manhole and city of Portland sanitary sewer (pump station discharge pipeline).
- c. Necessary excavation, backfill and pavement repair.
- d. Process diversion box, concrete with 10" outlet to new collection sewer, 12" inlet from plant and valved off outlet to existing lagoon.
- e. Pump station, concrete, with two submersible sewage pumps, Hydromatic Pump Co. SH-300. Pump station is equipped with level controls and electrical.
- f. Metering station.
- g. City of Portland approved sampling manhole.

The claimed facility was placed in operation in August 1971. Certification is claimed under the 1969 act with 98% of the cost allocated to pollution control.

Facility Cost: \$47,521. (Accountants certification was provided.)

State of Oregon
DEPARTMENT OF ENVIRONMENTAL QUALITY
TAX RELIEF APPLICATION REVIEW REPORT

3. Evaluation of Application

Installation of the claimed facility was suggested by DEQ letter to the company January 13, 1971.

Prior to the installation discharge was to a lagoon on company property. There was the possibility of failure of the wastewater seepage/evaporation and storage ponds to provide year around control of waste waters containing wood and pulp fiber.

With the claimed facility no discharge occurs to the storage lagoon or Columbia Slough. All discharge is to the city of Portland sanitary sewer. The company estimates annual city of Portland sewer charges amount to \$24,000.

The facility does not recover any materials so that no income is realized by the company.

4. Director's Recommendation

It is recommended that a Pollution Control Facility Certificate be issued for the claimed facility claimed in application T-383, such certificate to bear the actual cost of \$47,521.00 with 80% or more allocable to pollution control.

State of Oregon
DEPARTMENT OF ENVIRONMENTAL QUALITY
TAX RELIEF APPLICATION REVIEW REPORT

1. Applicant

Dwight West
Route 2, Box 139
McMinnville, Oregon 97218

The applicant owns and operates a swine production facility with a maximum annual capacity of 2,300 market hogs. The facility is located at Route 2, Box 139, McMinnville, Oregon in Yamhill County.

2. Description of Claimed Facility

Application T-384

The claimed facility includes three (3) reinforced concrete animal waste storage pits, a reinforced concrete pumping pit, 6,380 square feet of steel slotted floors over the pits, 11,440 square feet of concrete sanitation floor with curbs, and associated waste disposal equipment. The facility was designed to provide storage for animal wastes prior to pumping to the lagoon system.

The claimed facility was completed and placed in operation in December 1969.

Certification is claimed under the 1967 Act. (Principal purpose of pollution control).

Claimed Facility Cost: \$18,065.67 (Documentation submitted).

Application T-385

The claimed facility includes an anaerobic lagoon of 250,000 cubic feet capacity and an aerobic lagoon of 180,000 cubic feet capacity to provide complete capture and holding of animal wastes.

The claimed facility was completed and placed in operation in November 1970.

Certification is claimed under the 1969 Act with 100% of the cost allocated to pollution control.

Claimed Facility Cost: \$7,100.91 (Documentation submitted).

State of Oregon
DEPARTMENT OF ENVIRONMENTAL QUALITY
TAX RELIEF APPLICATION REVIEW REPORT

Application T-386

The claimed facility includes 2,692 square feet of steel slotted floors in the finishing house. The facility was designed to provide storage for animal wastes prior to pumping to the lagoon system.

The claimed facility was completed and placed in operation in April 1971.

Certification is claimed under the 1969 Act with 100% of the cost allocated to pollution control.

Claimed facility cost: \$4,835.48. (Documentation submitted).

3. Evaluation of Applications

Since the claimed facilities were constructed as integral parts of a total operation, many other provisions were included in the design which reduce the difficulty of controlling the escapement of manure and contaminated drainage but cannot be directly attributable to the pollution control facility. Accumulated animal wastes are pumped from the lagoon system as conditions permit disposal upon the land. The nutrient value of the manure utilized does not provide recovery of the cost of the pollution control facilities constructed.

Alternative manure collection, control, storage, and disposal facilities were considered but ruled out as more costly than the alternatives selected.

The claimed facility is contributing to adequate control of animal wastes for the design scope of swine raising operations that it serves.

4. Recommendation

It is recommended that Pollution Control Facility Certificates be issued for the facilities claimed in Applications T-384, T-385 and T-386, such certificates to show the following costs:

- A. Application T-384: \$18,065.67. Certified under the 1967 Act.
- B. Application T-385: \$7,100.91 with 80% or more of the cost allocable to pollution control.
- C. Application T-386: \$4,835.48 with 80% or more of the cost allocable to pollution control.



DEPARTMENT OF
ENVIRONMENTAL QUALITY

TERMINAL SALES BLDG. • 1234 S.W. MORRISON ST. • PORTLAND, OREGON 97205

TOM McCALL
GOVERNOR

L. B. DAY
Director

MEMORANDUM

To: Environmental Quality Commission

From: Director

Subject: Agenda Item No. J, November 30, 1972, EQC Meeting

ENVIRONMENTAL QUALITY
COMMISSION

B. A. McPHILLIPS
Chairman, McMinnville

EDWARD C. HARMS, JR.
Springfield

STORRS S. WATERMAN
Portland

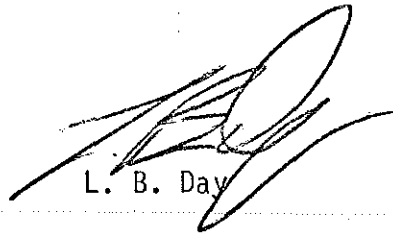
GEORGE A. McMATH
Portland

ARNOLD M. COGAN
Portland

Tax Credit Applications

Attached are review reports on 28 Tax Credit Applications.

These applications and the recommendations of the Director are summarized on the attached table.



L. B. Day

WEG:ahc

November 24, 1972

TAX CREDIT APPLICATIONS

Applicant	App'l No.	Facility	Claimed Cost	% Allocable to Poll. Control	Director's Recommendation
The J.M. Smucker Company	T-296	Incineration system	\$ 7,101.21	80% or more	Issue
West Coast Beet Seed Company	T-322	Dust Remover	58,882.49	80% or more	Issue
Empire Building Material Co. Empire Lite-Rock Division	T-323	Elimination of suspended solids by treatment of runoff water	36,849.	80% or more	Issue
Precision Castparts Corp.	T-325	Cyclone Dust Collectors (3)	6,524.38	80% or more	Issue
Brooks-Willamette Corporation Bend Division	T-332	Dust Collection System	4,035.81	40% or more	Issue
Modoc Orchard Company	T-339	Overhead Sprinkling System	60,435.49	60% or more	Issue
Teledyne Wah Chang Albany Div. of Teledyne Industries	T-343	Process unit for production of fertilizer	215,374.	80% or more	Issue
Teledyne Wah Chang Albany Div. of Teledyne Industries	T-344	Ammonia recovery unit	390,713.	80% or more	Issue
Teledyne Wah Chang Albany Div. of Teledyne Industries	T-345	Storage pond	18,077.	80% or more	Issue
Teledyne Wah Chang Albany Div. of Teledyne Industries	T-349	Effluent Neutralization System	4,187.	80% or more	Issue
Teledyne Wah Chang Albany Div. of Teledyne Industries	T-346	Exhaust gas treatment system	15,125.	80% or more	Issue
Teledyne Wah Chang Albany Div. of Teledyne Industries	T-347	Pre-treatment devices	12,535.	80% or more	Issue

TAX CREDIT APPLICATIONS

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Applicant	Appl. No.	Facility	Claimed Cost	% Allocable to Poll. Control	Director's Recommendation
Teledyne Wah Chang Albany Div. of Teledyne Industries	T-348	Stack gas monitoring system	\$ 1,010.50	80% or more	Issue
Teledyne Wah Chang Albany Div. of Teledyne Industries	T-350	Duct system	8,186.	80% or more	Issue
Teledyne Wah Chang Albany Div. of Teledyne Industries	T-351	Storage pond enlargement	20,742.	80% or more	Issue
Teledyne Wah Chang Albany Div. of Teledyne Industries	T-352	Packed wet scrubber tower	29,728.	80% or more	Issue
Teledyne Wah Chang Albany Div. of Teledyne Industries	T-353	Removal of ketone from waste streams	34,844.	80% or more	Issue
Teledyne Wah Chang Albany Div. of Teledyne Industries	T-354	Ductwork system	11,882.	80% or more	Issue
Teledyne Wah Chang Albany Div. of Teledyne Industries	T-355	Venturi scrubber system	70,974.	80% or more	Issue
Teledyne Wah Chang Albany Div. of Teledyne Industries	T-356	Chamber mining tank for pH adjustment of combined effluents	24,890.	80% or more	Issue
Teledyne Wah Chang Albany Div. of Teledyne Industries	T-357	Removal of ketone from waste streams	29,790.	80% or more	Issue
Midland-Ross Corporation Midrex Division Rivergate Plant, Portland	T-373	Wastewater collection facility	98,715.	20% or less	Issue
Midland-Ross Corporation Midrex Division Rivergate Plant, Portland	T-374	Slurry settling pond	275,000.	20% or less	Issue

TAX CREDIT APPLICATIONS

Page 3

Applicant	Appl. No.	Facility	Claimed Cost	% Allocable to Poll. Control	Director's Recommendation
Cascade Orchard, Inc.	T-378	Propane orchard heating system	\$21,898.59	80% or more	Issue
Morse Brothers, Inc. Albany Plant	T-382	Scavender dust fan, cyclone & reject dust bin	6,811.83	80% or more	Issue
Herbert Malarkey Paper Co.	T-383	Wastewater collection & pump station facility	47,521.	80% or more	Issue
Dwight West	T-384	Animal waste storage facility	18,065.67	80% or more	Issue
Dwight West	T-385	Anaerobic lagoons (2)	7,100.91	80% or more	Issue
Dwight West	T-386	Animal waste storage facility	4,835.48	80% or more	Issue

WEG:ahe

November 24, 1972

State of Oregon
DEPARTMENT OF ENVIRONMENTAL QUALITY
TAX RELIEF APPLICATION REVIEW REPORT

1. Applicant

The J. M. Smucker Company
Canby Plant
1440 Silverton Road
Woodburn, Oregon 97071

The applicant operates a fruit and berry packing plant at Canby, Oregon.

This application was received February 10, 1972, and was misplaced due to a filing error. The application was found and reactivated on August 9, 1972, and the company was so notified at that time. The report from the Columbia-Willamette Air Pollution Authority was received August 25, 1972.

2. Description of Claimed Facility

The claimed facility is an incineration system to control visible and particulate emissions to the atmosphere and consists of the following:

1. Pacific Coast Incinerators, Model CSN 350-12, three chamber incinerator, 350 lb/hr capacity.
2. Pacific Coast Incinerators, Model 35 NCGW, flue gas washer.
3. Settling tank, electrical controls and induced draft system.
4. Foundation, electrical, and plumbing work required for installation.

The facility was completed and placed in service in August, 1970.

Certification is claimed under the 1967 Act. Since construction was not started until May 25, 1970, it would only be eligible for certification under the 1969 Act. The percentage claimed for pollution control is 100%.

Facility costs: \$7,101.21 (copies of Purchase Orders and Invoices were provided).

3. Evaluation of Application

The Columbia-Willamette Air Pollution Authority report states that the company was required to cease violation of the Authority's open burning rules. The company, in its compliance program, elected to install the incineration system. The authority reviewed and approved the installation and made a final inspection of the completed facility in August

Tax Application T-296
November 21, 1972
Page 2

and September, 1970. At that time the Authority determined that the installation did operate as planned and that the company was operating in compliance with the Authority's rules and regulations.

The facility did enable the company to dispose of the plant waste residues in an approved manner in lieu of the open burning means previously employed.

The company will not be able to earn any return on this investment.

4. Director's Recommendation

It is recommended that a Pollution Control Facility Certificate bearing the cost of \$7,101.21, with 80% or more of the cost allocated to pollution control, be issued for the facility claimed in Tax Application T-296.

RAR:ahe

State of Oregon
DEPARTMENT OF ENVIRONMENTAL QUALITY
TAX RELIEF APPLICATION REVIEW REPORT

1. Applicant
West Coast Beet Seed Company
2380 Claxter Road, N. E.
Post Office Box 711
Salem, Oregon 97308

The applicant owns and operates a sugar beet seed cleaning plant on Claxter Road in Salem, Oregon.

This application was received on March 2, 1972.

2. Description of Facility

The claimed facility is described to be a baghouse, 100 hp fan and ducts for removing dust from seed cleaning and pneumatic seed transfer systems.

The facility was completed July 31, 1971.

Certification must be made under the 1969 Act. The percentage claimed to be allocable to pollution control is 100%.

Facility cost: \$58,882.49. (An accountant's certification was submitted to document the cost.)

3. Evaluation of Application

The claimed facility removes dust generated by the beet seed cleaning and related operations which otherwise would be released to the atmosphere. The dust is combined with heavy seed screenings and made into pelletized animal feed. The value of the collected dust is insufficient to offset operating costs of the claimed facility.

The Mid-Willamette Valley Air Pollution Authority has stated by letter that the facility was constructed according to plans previously approved by that agency and appears to operate within the agency regulations.

It is concluded that the facility was installed and is operated to control air pollution and that 100% of its cost is allocable to pollution control.

4. Director's Recommendation

It is recommended that a Pollution Control Facility Certificate bearing the cost of \$58,882.49 be issued for the facility claimed in Tax Application T-322 with 80% or more of the cost allocable to pollution control.

State of Oregon
DEPARTMENT OF ENVIRONMENTAL QUALITY
TAX RELIEF APPLICATION REVIEW REPORT

1. Applicant

Empire Building Material Company
Empire Lite-Rock Division
9255 N. E. Halsey - P. O. Box 20086
Portland, Oregon 97220

2. Description of Claimed Facility

The facility consists of a settling pond with a chemical mixing tank and floating sprinkler system, pumps, etc., for removal of solids from runoff water from rock quarry. Grading and seeding of the surrounding area to prevent the erosion of soil into a nearby creek is also part of the facility. Also included are an outfall pipe from the settling basin and by-pass culvert for clean water diversion.

The claimed facility was placed in operation December, 1971.

Certification is claimed under the 1969 Act with 100% allocated to pollution control.

Facility Cost: \$36,849 (Accountant's certification was submitted)

3. Evaluation of Application

The claimed facilities were designed to eliminate the suspended solids by treatment of the runoff water and by eliminating the sources of the suspended solids. Prior to construction of the claimed facilities considerable suspended solids were introduced into Castor Creek from the runoff water leaving the applicant's operation. Recent investigation has revealed that erosion may still take place in the future and the facilities may not meet the prescribed standards. Sampling of the receiving stream this winter and spring during periods of high runoff will substantiate the effectiveness of the facilities. This application was presented to the Environmental Quality Commission at its meeting on October 25, 1972 with the recommendation that action be deferred until sampling of the stream this winter could substantiate the effectiveness of the claimed facilities. The applicant appeared at the meeting and requested issuance of a certificate and pledged to make any improvements that may be demonstrated necessary by winter sampling.

Since the claimed facilities do reduce the turbidity problem in the stream and since the company has committed itself to making any further improvements that may be necessary, it is concluded that a certificate can be issued.

4. Director's Recommendation

It is recommended that a Pollution Control Facility Certificate be issued for the facility claimed in Application No. T-323, such certificate to bear the actual cost of \$36,849 with 80% or more allocated to pollution control.

State of Oregon
DEPARTMENT OF ENVIRONMENTAL QUALITY
TAX RELIEF APPLICATION REVIEW REPORT

1. Applicant

Precision Castparts Corporation
4600 S.E. Harney Drive
Portland, Oregon 97206

The applicant produces precision nickel, cobalt, titanium, and stainless steel base alloy castings using a lost-wax ceramic mold process.

This application was received on March 10, 1972.

2. Description of Claimed Facility

The claimed facility is described to include three cyclone type dust collectors for collecting metal and aluminum oxide particles generated in the abrasive removal of casting gates.

The facility was completed February 4, 1972.

Certification must be made under the 1969 Act. The percentage claimed to be allocable to pollution control is 100%.

Facility cost: \$6,524.38. Copies of invoices were submitted to document the \$5,219.41 expended for externally purchased equipment and freight. A total of \$1,304.97 was claimed for internal engineering and labor costs.

3. Evaluation of Application

The claimed facility was constructed according to plans reviewed and approved by the Columbia-Willamette Air Pollution Control Authority. The regional authority has stated that the facility appears to be achieving its intended purpose.

The documentation of expenditures is considered adequate and satisfactory since the claimed cost is considerably less than \$10,000.

It is concluded that the claimed facility was installed and operates to control air pollution and that 100% of its cost is allocable to pollution control.

4. Director's Recommendation

It is recommended that a Pollution Control Facility Certificate bearing the cost of \$6,524.38 be issued for the facility claimed in Tax Application T-325 with 80% or more allocable to pollution control.

State of Oregon
DEPARTMENT OF ENVIRONMENTAL QUALITY
TAX RELIEF APPLICATION REVIEW REPORT

1. Applicant

Brooks-Willamette Corporation
Bend Division
Post Office Box 1245
Bend, Oregon 97701

The applicant operates a particleboard plant in Bend.

2. Description of Claimed Facility

The claimed facility is a dust collection system consisting of the following:

1. Two (2) 40" diameter ducts from two (2) high pressure cyclones to the raw materials building.
2. One (1) 32" diameter duct from one (1) low pressure cyclone to the raw materials building.

The facility was completed and placed in service January 3, 1972.

Certification is claimed under the 1969 Act and the percentage claimed for pollution control is 100%.

Facility costs: \$4,035.81 (copies of all invoices were provided).

3. Evaluation of Application

The two (2) high pressure cyclones and the one (1) low pressure cyclone were used to control particulate emissions that were generated from the pneumatic wood material conveying systems. In October, 1970, a study of the mass emissions from all particulate sources was conducted. The emissions from the low pressure cyclone (system 100-3) was not measured at that time because it was not operating. The emissions from the two high pressure cyclones (systems 11 and 12) were measured at only 0.4 lb/hr. However, the company did state that all the systems did show some visible emissions when operating. The company, accordingly, proposed the collection system claimed in this application.

The exhausts from the three (3) cyclones on systems 11, 12 and 100-3 were connected to the raw materials building by the two (2) 42" diameter ducts and the one (1) 32" diameter duct. In this manner, the raw materials building was made to serve as a settling chamber for the particulate matter in the cyclone exhausts.

Tax Application T-332

November 20, 1972

Page 2

The facility was reviewed and approved by the Department in December, 1971. The Department, by letter dated December 22, 1971, stated that it was questionable as to whether or not this approach would serve to reduce the total particulate emissions although it was conceded that the visible emissions would be reduced because of the masking effect of the building and the lower elevation of the discharge point. This view is still held by the Department.

It is concluded that this facility does reduce the amount of particulate discharge to the atmosphere by perhaps 50% and it does serve to make the visible emissions less noticeable. The ideal solution, in this case, would have been the installation of a filter unit in the top of the raw materials building so that 90% or more of the particulate matter would have been captured. A baghouse installation of this nature would have been about five (5) times more expensive to install.

4. Director's Recommendation

It is recommended that a Pollution Control Facility Certificate bearing the cost of \$4,035.81, with 40% or more of cost allocated to pollution control, be issued for the facility claimed in Tax Application T-332.

RAR:ahe

Date 11-16-72

State of Oregon
DEPARTMENT OF ENVIRONMENTAL QUALITY
TAX RELIEF APPLICATION REVIEW REPORT

1. Applicant

Mr. George F. Joseph & Estate of Victor H.M. Joseph
dba Modoc Orchard Company
Post Office Box 56
Medford, Oregon 97501

The applicant operates a 285-acre pear orchard on Modoc Road north of Central Point.

This application was received on April 13, 1972.

2. Description of Claimed Facility

The claimed facility is described to be an overhead sprinkling system on 90 acres of pear orchard.

The facility was completed on March 9, 1972.

Certification is claimed under the 1969 Act. The percentage claimed for pollution control was not specified.

Facility cost: \$60,435.49 (Accountant's certification provided).

3. Evaluation of Application

The claimed facility serves to provide the frost protection for 60 acres of mature trees and 30 acres of young trees by replacing or eliminating the need for some 3,050 orchard heaters. In addition, the facility provides irrigation by sprinklers instead of by flooding for 90 acres of a 285-acre pear orchard. (The applicant has previously obtained certification for a similar 80-acre system of overhead sprinklers, Tax Credit Application T-212.)

Since the claimed facility does contribute to both reducing atmospheric emissions and increasing pear production, only a portion of it can be certified under the 1969 Act. In order to establish the percentage of the system allocable to pollution control, the company has provided data on hours of heating and hours of irrigation for those previous years for which this information was available. The data submitted for the seasons 1968-69, 1969-70, 1970-71 and 1971-72 indicate that the average hours of orchard heating (397 1/2 hours per season) and the average hours of irrigation (352 1/2 hours per season) were about equal. Although these numbers (specific to the 90 acres served by the claimed facility) are subject to many variables, they are considered to be sufficiently representative to make the desired determination for this particular application. (It is well established that

the required amount of frost protection usually varies among orchards and often within a given orchard.

It is concluded that the facility operates to a substantial extent for reducing atmospheric emissions and that the portion of the cost allocable to pollution control should be 40% or more and less than 60%. (This is the same as the conclusion reached in Application T-212 which was previously certified.)

4. Director's Recommendation

It is recommended that a Pollution Control Facility Certificate bearing the cost of \$60,435.49, with more than 40% and less than 60% of the cost allocable to pollution control, be issued for the facility claimed in Tax Application T-339.

FAS:jc

State of Oregon
DEPARTMENT OF ENVIRONMENTAL QUALITY
TAX RELIEF APPLICATION REVIEW REPORT

1. Applicant

Teledyne Wah Chang
Division of Teledyne Industries, Inc.
1600 Old Pacific Highway (P. O. Box 460)
Albany, Oregon 97321

The applicant owns and operates a refractory and reactive metals production complex at Albany, Oregon, consisting of extraction and reduction of ores to produce zirconium, hafnium, tantalum and columbium.

2. Description of the Claimed Facility

The facility claimed is a storage pond for V-2 liquor prior to treatment in the ammonia recovery unit. In addition to the storage pond the claimed facility includes pumps and motors, piping, lime tank, mixer, instrumentation, valves and electrical.

The claimed facility was placed in operation November of 1970. Certification is claimed under the 1967 Act with 100% of the cost allocated to pollution control.

Facility Cost: \$18,077 (accountant's certification was attached to the application).

3. Evaluation of the Application

The facility was constructed to insure a continuous supply of feed to the Ammonia Distillation Column. V-2 liquor is intermittent and not continuously suitable as feed. The facility precludes the possibility of bypassing V-2 effluent, unsatisfactory for feed, to Truax Creek. V-2 effluent contains undesirable ammonium ions. No income is derived from the claimed facility.

4. Director's Recommendation

It is recommended that a pollution control facility certificate be issued for the facility claimed in Application T-345, such certificate to bear the actual cost of \$18,077 with 80% or more allocable to pollution control.

State of Oregon
DEPARTMENT OF ENVIRONMENTAL QUALITY
TAX RELIEF APPLICATION REVIEW REPORT

1. Applicant

Teledyne Wah Chang
Division of Teledyne Industries, Inc.
1600 Old Pacific Highway (P. O. Box 460)
Albany, Oregon 97321

The applicant owns and operates a refractory and reactive metals production complex at Albany, Oregon, consisting of extraction and reduction of ores to produce zirconium, hafnium, tantalum and columbium.

2. Description of Claimed Facility

The facility claimed is a 6" PVC line approximately 1400 feet in length. The line originates at the acid sump near the metal pickling building and terminates at the acid tank in the effluent neutralization area near the clarifier.

The claimed facility was placed in operation April 1971. Certification is claimed under the 1969 Act with 100% of the cost allocated to pollution control.

Facility Cost: \$4,187 (Accountant's certification was provided)

3. Evaluation of the Application

The system was installed to transfer acid wastes (Hydrofluoric acid) to the treatment area where it is introduced to neutralize effluents. At the same time the fluoride ion is removed from the effluent by precipitation as calcium fluoride. The company's Waste Discharge Permit has limits on pH and fluoride ion in the effluent to Truax Creek.

4. Director's Recommendation

It is recommended that a Pollution Control Facility Certificate be issued for the facility claimed in application T-349, such certificate to bear the actual cost of \$4,187 with 80% or more allocable to pollution control.

State of Oregon
DEPARTMENT OF ENVIRONMENTAL QUALITY
TAX RELIEF APPLICATION REVIEW REPORT

1. Applicant

Teledyne Wah Chang Albany
Division of Teledyne Industries, Inc.
(1600 Old Pacific Highway)
Post Office Box 460
Albany, Oregon 97321

The applicant produces zirconium, hafnium, tantalum and columbium, and alloys of these reactive metals.

This application was received on April 27, 1972.

2. Description of Claimed Facility

The claimed facility is described to be a venturi scrubber (Simpson 3000 cfm) located next to the Zirconium Reduction Building (Building No. 1) for treating the exhaust gases from the reduction furnace-seal hoods and condenser-bleeder stems.

The facility was completed in October, 1969.

Certification is claimed under the 1969 Act with 100% allocable for pollution control.

Facility cost: \$15,125 (Accountant's certification was provided).

3. Evaluation of Application

The claimed facility was constructed according to plans reviewed and approved by the Mid-Willamette Valley Air Pollution Authority. The facility collects about 400 pounds of solid and gaseous chloride materials per day.

It is concluded that the claimed facility was installed and is operated to control air pollution and that 100% of its cost is allocable to pollution control.

4. Director's Recommendation

It is recommended that a Pollution Control Facility Certificate bearing the cost of \$15,125, with 80% or more of the cost allocable to pollution control, be issued for the facility claimed in Tax Application T-346.

State of Oregon
DEPARTMENT OF ENVIRONMENTAL QUALITY
TAX RELIEF APPLICATION REVIEW REPORT

1. Applicant

Teledyne Wah Chang Albany
Division of Teledyne Industries, Inc.
(1600 Old Pacific Highway)
Post Office Box 460
Albany, Oregon 97321

The applicant produces zirconium, hafnium, tantalum and columbium, and alloys of these reactive metals.

This application was received on April 27, 1972.

2. Description of Claimed Facility

The claimed facility is described to be two Tri-Mer Separators which serve as pre-treatment devices for the Pure Chlorination scrubber (Building No. 1).

The claimed facility was completed in October, 1969.

Certification is claimed under the 1969 Act with 100% allocable for pollution control.

Facility cost: \$12,535 (Accountant's certification provided).

3. Evaluation of Application

The claimed facility serves to remove a majority of the silicon tetrachloride from the pure chlorinator exhaust ahead of a packed scrubber. (The packed scrubber, which is not claimed, removes other chlorides and chlorine.) Silicon tetrachloride reacts with water to form a material which would plug the packed tower. Thus the pre-treatment to remove the silicon tetrachloride protects the packed scrubber. The Mid-Willamette Valley Air Pollution Authority has indicated that the claimed facility is apparently achieving its intended purpose.

It is concluded that the claimed facility was installed and is operated to control air pollution and that 100% of its cost is allocable to pollution control.

4. Director's Recommendation

It is recommended that a Pollution Control Facility Certificate bearing the cost of \$12,535, with 80% or more of the cost allocable to pollution control, be issued for the facility claimed in Tax Application T-347.

State of Oregon
DEPARTMENT OF ENVIRONMENTAL QUALITY
TAX RELIEF APPLICATION REVIEW REPORT

1. Applicant

Teledyne Wah Chang Albany
Division of Teledyne Industries, Inc.
(1600 Old Pacific Highway)
Post Office Box 460
Albany, Oregon 97321

The applicant produces zirconium, hafnium, tantalum and columbium, and alloys of these reactive metals.

This application was received on April 27, 1972.

2. Description of Claimed Facility

The claimed facility is described to be a Calgon Chemomtor Chlorine/Chloride Stack Gas Monitor for continuously determining and recording the relative concentrations of chlorine and chlorides in the Pure Chlorination Area scrubber stack (Building No. 1).

The claimed facility was completed in April, 1970.

Certification is claimed under the 1969 Act with 100% allocable to pollution control.

Facility cost: \$1010.50 (Copy of Calgon Corporation invoice no. 6 01170 provided).

3. Evaluation of Application

The claimed facility is a custom-built prototype unit for continuously monitoring and recording relative chlorine and chloride values in the pure chlorinator exhaust. The facility was required by the Mid-Willamette Valley Air Pollution Authority and was intended to provide a real-time readout of scrubber efficiency which otherwise involved lengthy analytical procedures.

The facility appears to be achieving its intended purpose.

Since the claimed cost is considerably below \$10,000, the copy of Calgon Corporation invoice no. 6 01170 is sufficient cost documentation.

It is concluded that the claimed facility was installed and is operated to control air pollution. In addition, 100% of the claimed costs appears allocable to pollution control.

Tax Relief Application T-348

November 14, 1972

Page 2

4. Director's Recommendation

It is recommended that a Pollution Control Facility Certificate bearing the cost of \$1010.50, with 80% or more of the cost allocable to pollution control, be issued for the facility claimed in Tax Application T-348.

FAS:ahe

State of Oregon
DEPARTMENT OF ENVIRONMENTAL QUALITY
TAX RELIEF APPLICATION REVIEW REPORT

1. Applicant

Teledyne Wah Chang
Division of Teledyne Industries, Inc.
1600 Old Pacific Highway (P.O. Box 460)
Albany, Oregon 97321

The applicant owns and operates a refractory and reactive metals production complex at Albany, Oregon, consisting of extraction and reduction of ores to produce zirconium, hafnium, tantalum and columbium.

2. Description of Claimed Facility

The ammonia recovery unit is a process unit consisting of:

- a. Ammonia recovery column.
- b. Ammonia condenser.
- c. Accumulator.
- d. Ammonia absorption unit.
- e. Ammonia cooler.
- f. Necessary piping and controls.
- g. Motors, pumps and electrical controls.
- h. Lime system.
- i. Steam boiler (in common with fertilizer plant).

The claimed facility was placed in operation in November 1969. Certification is claimed under the 1967 Act.

Facility Cost: \$390,713 (accountant's certification was provided).

3. Evaluation of Application

The system was installed so as to remove large quantities of ammonium ion which were previously discharged to Truax Creek. The ammonia recovered is recycled to the separations plant. Cost of this operation outweighs value of ammonia recovery. The company reports:

421,140 pounds ammonia recovered in August.

537,540 pounds ammonia recovered in July.

455,388 pounds ammonia recovered in June.

State of Oregon
DEPARTMENT OF ENVIRONMENTAL QUALITY
TAX RELIEF APPLICATION REVIEW REPORT

4. Director's Recommendation

It is recommended that a Pollution Control Facility Certificate be issued under the 1967 Act for the facility claimed in Application T-344, such certificate to bear the actual cost of \$390,713.

State of Oregon
DEPARTMENT OF ENVIRONMENTAL QUALITY
TAX RELIEF APPLICATION REVIEW REPORT

1. Applicant

Teledyne Wah Chang
Division of Teledyne Industries, Inc.
1600 Old Pacific Highway (P.O. Box 460)
Albany, Oregon 97321

The applicant owns and operates a refractory and reactive metals production complex at Albany, Oregon, consisting of extraction and reduction of ores to produce zirconium, hafnium, tantalum and columbium.

2. Description of Claimed Facility

The facility is a crystallizer and drier for the production of Ammonium Sulfate fertilizer and ancillary tanks, pumps, process piping, instrumentation, motors and electrical controls. The main components of the process unit consists of:

- a. Finishing filter press.
 - b. Filtrate tank (12' diameter x 20' high).
 - c. Continuous crystallizer, Struthers Wells Krystal Evaporator.
 - d. Slurry screen.
 - e. Centrifuge, Baker Perkins 2-8.
 - f. Crystal Drier and Cooler.
 - g. Drier exhaust system and cyclone collector.
 - h. Screen.
 - i. Solids handling.
 - j. Boiler (in common with ammonia recovery).
-

The claimed facility was placed in operation September 1, 1969. Certification is claimed under the 1967 Act.

Facility Cost: \$215,374 (accountant's certification was provided).

3. Evaluation of the Application

The system was installed to remove large quantities of ammonium and sulfate ion as ammonium sulfate fertilizer. These ions were previously discharged to Truax Creek. The operating cost of the plant far outweighs the value of the fertilizer recovered in spite of the fact that 10,000 pounds of ammonium sulfate are recovered and kept out of Truax Creek per day.

State of Oregon
DEPARTMENT OF ENVIRONMENTAL QUALITY
TAX RELIEF APPLICATION REVIEW REPORT

4. Director's Recommendation

It is recommended that a Pollution Control Facility Certificate be issued under the 1967 Act for the facility claimed in Application T-343, such certificate to bear the actual cost of \$215,374.

State of Oregon
DEPARTMENT OF ENVIRONMENTAL QUALITY
TAX RELIEF APPLICATION REVIEW REPORT

1. Applicant

Teledyne Wah Chang Albany
Division of Teledyne Industries, Inc.
(1600 Old Pacific Highway)
Post Office Box 460
Albany, Oregon 97321

The applicant produces zirconium, hafnium, tantalum and columbium, and alloys of these reactive metals.

This application was received on April 27, 1972.

2. Description of Facility

The claimed facility is described to be the duct system which carries the exhaust gases from the reduction furnace-seal hoods and condenser-bleeder stems to the Venturi scrubber claimed in Tax Application T-346.

The facility claimed in Tax Application T-350 was completed in July, 1971.

Certification is claimed under the 1969 Act with 100% allocable to pollution control.

Facility cost: \$8,186 (Accountant's certification provided).

3. Evaluation of Application

The claimed facility is necessary to transport the exhaust gases from the sites where they are generated to the site where they are treated to remove solid and gaseous chloride materials. (The treatment device, a Venturi scrubber, is the subject of Tax Application T-346.)

It is concluded that the claimed facility was installed and is operated to control air pollution and that 100% of its cost is allocable to pollution control.

4. Director's Recommendation

It is recommended that a Pollution Control Facility Certificate bearing the cost of \$8,186, with 80% or more allocable to pollution control, be issued for the facility claimed in Tax Application T-350.

State of Oregon
DEPARTMENT OF ENVIRONMENTAL QUALITY
TAX RELIEF APPLICATION REVIEW REPORT

1. Applicant

Teledyn Wah Chang
Division of Teledyn Industries, Inc.
1600 Old Pacific Highway (P. O. Box 460)
Albany, Oregon 97321

The applicant owns and operates a refractory and reactive metals production complex at Albany, Oregon, consisting of extraction and reduction of ores to produce zirconium, hafnium, tantalum and columbium.

2. Description of Claimed Facility

The facility claimed is enlargement (raising of dikes) of a storage pond for solids removed from the company's liquid waste as a slurry at the clarifier.

The claimed facility was placed in operation January 1970. Certification is claimed under the 1969 Act with 100% of the cost allocated to pollution control.

Facility Cost: \$20,742 (Accountant's certification was provided)

3. Evaluation of the Application

Land where the solids storage pond is located was originally certified by Certificate No. 78 (Application No. T-100). The original solids pond was certified by Certificate No. 80 (Application No. T-102). The original pond design contemplated the raising of the dikes claimed in this application to increase pond capacity at a future date.

A centrifuge has since been installed near the clarifier to remove solids. The solids are deposited in a box below the centrifuge and transferred when full to municipal landfill. The claimed facility (solids pond) is now full. When sufficiently dry the solids will be removed from the pond and it will be retained for back up to the centrifuge.

4. Director's Recommendation

It is recommended that a Pollution Control Facility Certificate be issued for the facility claimed in Application T-351, such certificate to bear the actual cost of \$20,742 with 80% or more of the cost allocable to pollution control.

State of Oregon
DEPARTMENT OF ENVIRONMENTAL QUALITY
TAX RELIEF APPLICATION REVIEW REPORT

1. Applicant

Teledyne Wah Chang Albany
Division of Teledyne Industries, Inc.
(1600 Old Pacific Highway)
Post Office Box 460
Albany, Oregon 97321

This applicant produces zirconium, hafnium, tantalum and columbium, and alloys of these reactive metals.

This application was received on April 27, 1972.

2. Description of Claimed Facility

The claimed facility is described to be a packed wet scrubber tower (8800 CFM Ershig Tower), ancillary control equipment, fan, ductwork, and acid handling system using sulfuric acid solution for treating ammonia fumes from the tantalum/columbium separation plant (Building No. 11).

The claimed facility was completed in January, 1970.

Certification is claimed under the 1969 Act with 100% allocable to pollution control.

Facility cost: \$29,728 (Accountant's certification provided).

3. Evaluation of Application

The claimed facility was constructed according to plans reviewed and approved by the Mid-Willamette Valley Air Pollution Authority.

The claimed facility was intended to control ammonia emissions to the atmosphere. The Regional Authority has indicated that the facility is achieving its intended purpose.

It is concluded that the facility was installed and is operated to control air pollution and that 100% of its cost is allocable to pollution control.

4. Director's Recommendation

It is recommended that a Pollution Control Facility Certificate bearing the cost of \$29,758 with 80% or more allocable to pollution control be issued for the facility claimed in Tax Application T-352.

State of Oregon
DEPARTMENT OF ENVIRONMENTAL QUALITY
TAX RELIEF APPLICATION REVIEW REPORT

1. Applicant

Teledyne Wah Chang
Division of Teledyne Industries, Inc.
1600 Old Pacific Highway (P.O. Box 460)

The applicant owns and operates a refractory and reactive metals production complex at Albany, Oregon, consisting of extraction and reduction of ores to produce zirconium, hafnium, tantalum and columbium.

2. Description of Claimed Facility

The claimed facility is designed to remove methyl-isobutyl ketone from waste streams in the tantalum/columbium separations plant. Its main components are:

- a. Stripping columns (2) (zirconium metal).
- b. Ancillary instrumentation.
- c. Temperature Controllers/Recorders.
- d. Piping.
- e. Steam supply.
- f. Ketone recycle system.

The claimed facility was placed in operation October 1970. Certification is claimed under the 1969 act with 100% of the cost allocated to pollution control.

Facility Cost: \$34,844 (accountant's certification was provided).

3. Evaluation of the Application

The system was installed to remove 1975 pounds per day of methyl-isobutyl ketone from the tantalum/columbium separations plant effluent to Truax Creek. Design efficiency is 97% removal.

4. Director's Recommendation

It is recommended that a Pollution Control Facility Certificate be issued for the facility claimed, such certificate to bear the actual cost of \$34,844 with 80% or more of the cost allocable to pollution control.

Date 11-14-72

State of Oregon
DEPARTMENT OF ENVIRONMENTAL QUALITY
TAX RELIEF APPLICATION REVIEW REPORT

1. Applicant

Teledyne Wah Chang Albany
Division of Teledyne Industries, Inc.
(1600 Old Pacific Highway)
Post Office Box 460
Albany, Oregon 97321

This applicant produces zirconium, hafnium, tantalum and columbium, and alloys of these reactive metals.

This application was received on April 27, 1972.

2. Description of Claimed Facility

The claimed facility is described to be two additional ductwork systems which collect malodorous emissions from various production areas and equipment located in the Hafnium Calciner Building (Building No. 9), Separations Warehouse (Building No. 10), and Separations Building (Building No. 11). (The claimed facility connects to previously existing ductwork which in turn leads to an existing packed wet scrubber using a hypochlorite solution. The previously existing ductwork and scrubber are not claimed in this application.)

The claimed facility was completed in February, 1970.

Certification is claimed under the 1969 Act with 100% allocable to pollution control.

Facility cost: \$11,882 (Accountant's certification provided).

3. Evaluation of Application

The claimed facility was constructed according to plans reviewed and approved by the Mid-Willamette Valley Air Pollution Authority.

The claimed facility was intended to collect additional malodorous materials for subsequent treatment. The Regional Authority has indicated that the claimed facility is achieving its intended purpose.

It is concluded that the claimed facility was installed and is operated to control air pollution and that 100% of its cost is allocable to pollution control.

4. Director's Recommendation

It is recommended that a Pollution Control Facility Certificate bearing the cost of \$11,882 with 80% or more allocable to pollution control be issued to the facility claimed in Tax Application T-354.

State of Oregon
DEPARTMENT OF ENVIRONMENTAL QUALITY
TAX RELIEF APPLICATION REVIEW REPORT

1. Applicant

Teledyne Wah Chang Albany
Division of Teledyne Industries, Inc.
(1600 Old Pacific Highway)
Post Office Box 460
Albany, Oregon 97321

This applicant produces zirconium, hafnium, tantalum and columbium, and alloys of these reactive metals.

This application was received on April 27, 1972.

2. Description of Claimed Facility

The claimed facility is described to be a 20,000 CFM Venturi scrubber system which treats gaseous and particulate materials emitted from the magnesium recovery area, crucible burn-out enclosure, and retort wash area in the Mag. Smelting Building (Building No. 61).

The claimed facility was completed in January, 1971.

Certification is claimed under the 1969 Act with 100% allocable to pollution control.

Facility cost: \$70,974 (Accountant's certification provided).

3. Evaluation of Application

The claimed facility was constructed according to plans reviewed and approved by the Mid-Willamette Valley Air Pollution Authority.

The claimed facility was intended to reduce the emission of gaseous and particulate materials. The facility is achieving its intended purpose.

It is concluded that the claimed facility was installed and is operated to control air pollution and that 100% of its cost is allocable to pollution control.

4. Director's Recommendation

It is recommended that a Pollution Control Facility Certificate bearing the cost of \$70,974, with 80% or more allocable to pollution control, be issued for the facility claimed in Tax Application T-355.

State of Oregon
DEPARTMENT OF ENVIRONMENTAL QUALITY
TAX RELIEF APPLICATION REVIEW REPORT

1. Applicant

Teledyne Wah Chang
Division of Teledyne Industries, Inc.
1600 Old Pacific Highway (P.O. Box 460)
Albany, Oregon 97321

The applicant owns and operates a refractory and reactive metals production complex at Albany, Oregon, consisting of extraction and reduction of ores to produce zirconium, hafnium, tantalum and columbium.

2. Description of the Claimed Facility

The facility is a five chamber (treated wood) mining tank for pH adjustment of combined effluents. Neutralization is accomplished by mixing lime slurry or pickling acid. Four cells are equipped with mixers. Acid and lime feed are controlled by sensors, controllers and recorders.

The claimed facility was placed in operation October 1970. Certification is claimed under the 1969 act with 100% allocated to pollution control.

Facility Cost: \$24,890. (Accountant's certification was provided).

3. Evaluation of the Application

The neutralization adjustment was installed primarily to control pH which fluctuated and was usually alkaline. Alkalinity has considerable effect on the toxicity of the ammonium ion in the effluent so that pH control is important in the treatment of the company's wastes. The addition of lime and the agitation here also tends to remove fluoride ion. The facility is a necessary part of the company's treatment system.

4. Director's Recommendation

It is recommended that a Pollution Control Facility Certificate be issued for the facility claimed in Application T-356, such certificate to bear the actual cost of \$24,890 with 80% or more of the cost allocable to pollution control.

State of Oregon
DEPARTMENT OF ENVIRONMENTAL QUALITY

TAX RELIEF APPLICATION REVIEW REPORT

1. Applicant

Teledyne Wah Chang
Division of Teledyne Industries, Inc.
1600 Old Pacific Highway (P. O. Box 460)
Albany, Oregon 97321

The applicant owns and operates a refractory and reactive metals production complex at Albany, Oregon, consisting of extraction and reduction of ores to produce zirconium, hafnium, tantalum and columbium.

2. Description of Claimed Facility

The claimed facility is designed to remove methyl-isobutyl ketone from waste streams in the zirconium/hafnium separations plant. Its main components are:

- a. Stripping columns (2) (zirconium metal)
- b. Ancillary instrumentation
- c. Temperature controllers/recorders
- d. Piping
- e. Steam supply
- f. Ketone recycle system

The claimed facility was placed in operation October 1970, certification is claimed under the 1969 Act with 100% of the cost allocated to pollution control.

Facility Cost: \$29,790 (Accountant's certification was provided)

3. Evaluation of the Application

The system was installed to remove 2450 pounds per day of methyl-isobutyl ketone from the zirconium/hafnium separations plant effluent to Truax Creek. Design efficiency is 98% removal.

4. Director's Recommendation

It is recommended that a Pollution Control Facility Certificate be issued for the facility claimed, such certificate to bear the actual cost of \$29,790 with 80% or more of the cost allocable to pollution control.

State of Oregon
DEPARTMENT OF ENVIRONMENTAL QUALITY
TAX RELIEF APPLICATION REVIEW REPORT

1. Applicant

Midland-Ross Corporation
Midrex Division
Rivergate Plant, Portland, Oregon
55 Public Square
Cleveland, Ohio 44113

The applicant owns and operates an iron ore pelletizing and reducing plant to produce iron suitable as raw feed to Oregon Steel Mills at Rivergate in Multnomah County.

2. Description of Claimed Facility

The waste water collection facility consists of:

- a. 2 collection sumps
- b. 1 process discharge pump, Worthington - Model 8x12 FR-127 - 100 HP.
- c. 1 water discharge pump, Gould Model 3755 - 75 HP.
- d. Overflow pump, Denver 6" x 6" SLR - 30 HP.
- e. Associated piping, valves and fittings
- f. Motors, motor controls and wiring

The claimed facility was placed in operation in March, 1970. Certification is claimed under the 1969 Act with 17.8% of the cost allocated to pollution control.

Facility cost: \$98,715. (Accountant's certification was attached to application).

3. Evaluation of Application

Installation of claimed facility was incorporated in the original construction of the plant as part of the dust collecting system, cooling and process water collecting and transfer. The total facility removes 85,200 pounds of iron oxide and metallized dust per day from exhaust air. This is 97% removal. This application is for a part of the total facility.

The claimed facility, as stated above, has functions other than collecting and transferring dust laden waste waters. The company has calculated the portion of the total cost allocable to this application by applying the ratio of scrubber water effluent to total flow of the system (17.8%).

The application states that annual income derived from recovered materials is zero, as the value is assessed against other claimed facilities.

The facility is performing as designed.

4. Director's Recommendation

It is recommended that a Pollution Control Facility Certificate be issued for the facility claimed in Application T-373, such certificate to bear the actual cost of \$98,715, with less than 20% of the cost allocable to pollution control.

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State of Oregon
DEPARTMENT OF ENVIRONMENTAL QUALITY
TAX RELIEF APPLICATION REVIEW REPORT

1. Applicant

Midland-Ross Corporation
Midrex Division
Rivergate Plant - Portland, Oregon
55 Public Square
Cleveland, Ohio 44113

The applicant owns and operates an iron ore pelletizing and reduction plant to produce iron suitable as raw feed to Oregon Steel Mills at Rivergate in Multnomah County.

2. Description of Claimed Facility

The claimed facility consists of a slurry settling pond of approximately 4 1/2 acres, overflow weirs, concrete flume and pipe for collecting decanted water, and a 350 Hp diesel driven suction dredge for removing settled particles.

The claimed facility was placed in operation in March 1970. Certification is claimed under the 1969 Act with 13% of the cost allocated to pollution control.

Facility Cost: \$275,000 (Accountant's certification was attached to application.)

3. Evaluation of Application

Installation of claimed facility was incorporated in the original construction of the plant as part of the dust collection system. The total facility removes 85,200 pounds of iron oxide and metallized dust per day from exhaust air. This is 97% removal.

The claimed facilities main function is to receive, store and transfer to process iron oxide ore. The dust laden scrubber water is returned to this facility. Midrex claims that 13% of the cost of the claimed facility is properly allocable to pollution control.

They state that annual income derived from recovered materials is zero (this application) as the value is assessed against other claimed facilities.

The facility is performing as designed.

4. Director's Recommendation

It is recommended that a Pollution Control Facility Certificate be issued for the facilities claimed in Application T-374, such certificate to bear the actual cost of \$275,000, with less than 20% of the cost allocable to pollution control.

State of Oregon
DEPARTMENT OF ENVIRONMENTAL QUALITY
TAX RELIEF APPLICATION REVIEW REPORT

1. Applicant

Cascade Orchard, Inc.
Route 1, Box 620
Hood River, Oregon 97031

The applicant owns and operates pear, cherry, and apple orchards about seven miles southeast of Hood River, Oregon.

This application was received, minus the cost certification, on June 23, 1972. Completion of the application was made July 19, 1972.

2. Description of Claimed Facility

The claimed facility is described to be a propane orchard heating system consisting of an 18,000 gallon propane storage tank, approximately 1200 burners, PVC pipe lines, and appropriate regulators and controls which replaced about 1200 diesel fueled open buckets.

The claimed facility was completed in April, 1971.

Certification is claimed under the 1969 Act with 100% allocable to pollution control.

Facility cost: \$21,898.59 (the claimed cost figure was documented with a detailed listing of items and costs prepared by Mr. G.B. Wertgen, a Certified Public Accountant and president of Cascade Orchards, Inc.).

3. Evaluation of Application

The claimed facility, which allowed the phase-out of approximately 1200 diesel fueled open buckets, can be activated faster and operated with less manpower than the previous heating method. However, the claimed facility has a higher fuel cost than the old system. The claimed facility, which heats a total of 37 acres, definitely operates with much less air pollution than the open buckets.

The applicant prepared a listing of itemized costs and requested in writing that this listing be accepted as adequate documentation of the claimed cost.

It appears that the operating cost of the claimed facility is no less than equal and likely greater than that of the open buckets and that the benefit of quicker start-up is real but unassessable. Since the application was prepared by a CPA and it was indicated that property tax relief would be applied for, the cost documentation presented in the application is acceptable. (The mechanics of property tax relief in

Tax Application T-378

November 20, 1972

Page 2

essence involves an exemption from the tax rolls without consideration of cost.)

Since the claimed facility allowed the phase-out of an existing orchard heating system without any easily assessable advantages and operates with considerably less air pollution, it is concluded that the facility can be considered to be a pollution control facility for the purposes of the tax relief program.

4. Director's Recommendation

It is recommended that a Pollution Control Facility Certificate bearing the cost of \$21,898.59, with 80% or more allocable to pollution control, be issued for the facility claimed in Tax Application T-378.

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State of Oregon
DEPARTMENT OF ENVIRONMENTAL QUALITY
TAX RELIEF APPLICATION REVIEW REPORT

1. Applicant

Morse Brothers, Inc.
(Albany Plant)
Post Office Box 7
Lebanon, Oregon 97355

The applicant owns and operates a stationary hot-mix asphalt plant at 1747 S. E. Kennel Road, Albany, Oregon 97321.

This application was received on July 20, 1972.

2. Description of Claimed Facility

The claimed facility is described to include a 12,000 CFM scavenger dust fan, a cyclone, and a reject dust bin.

The claimed facility was completed in April, 1971.

Certification is claimed under the 1969 Act with 100% allocable to pollution control.

Facility cost: \$6,811.83 (Accountant's certification provided).

3. Evaluation of Application

The claimed facility was constructed according to plans reviewed and approved by the Mid-Willamette Valley Air Pollution Authority. The claimed facility was intended to enable an existing wet-wash system achieve compliance with the Regional Authority regulations. The Regional Authority has indicated that the facility is achieving its intended purpose.

It is concluded that the facility was installed and is operated to control air pollution and that 100% of its cost is allocable to pollution control.

4. Director's Recommendation

It is recommended that a Pollution Control Facility Certificate bearing the cost of \$6,811.83, with 80% or more allocable to pollution control, be issued for the facility claimed in Tax Application T-382.

State of Oregon
DEPARTMENT OF ENVIRONMENTAL QUALITY
TAX RELIEF APPLICATION REVIEW REPORT

1. Applicant

Herbert Malarkey Paper Company
3131 N. Columbia Boulevard
Portland, Oregon 97217

The applicant owns and operates a plant for manufacturing roofing materials from waste paper, wood flour and asphalt.

2. Description of Claimed Facility

A waste water collection and pump station facility consisting of:

- a. Approximately 725 ft. of 10" CSP with manholes at points of collection sewer pipe bearing change (3 manholes).
- b. Approximately 450 ft. of 8" CIP to sampling manhole and city of Portland sanitary sewer (pump station discharge pipeline).
- c. Necessary excavation, backfill and pavement repair.
- d. Process diversion box, concrete with 10" outlet to new collection sewer, 12" inlet from plant and valved off outlet to existing lagoon.
- e. Pump station, concrete, with two submersible sewage pumps, Hydromatic Pump Co. SH-300. Pump station is equipped with level controls and electrical.
- f. Metering station.
- g. City of Portland approved sampling manhole.

The claimed facility was placed in operation in August 1971. Certification is claimed under the 1969 act with 98% of the cost allocated to pollution control.

Facility Cost: \$47,521. (Accountants certification was provided.)

State of Oregon
DEPARTMENT OF ENVIRONMENTAL QUALITY
TAX RELIEF APPLICATION REVIEW REPORT

3. Evaluation of Application

Installation of the claimed facility was suggested by DEQ letter to the company January 13, 1971.

Prior to the installation discharge was to a lagoon on company property. There was the possibility of failure of the wastewater seepage/evaporation and storage ponds to provide year around control of waste waters containing wood and pulp fiber.

With the claimed facility no discharge occurs to the storage lagoon or Columbia Slough. All discharge is to the city of Portland sanitary sewer. The company estimates annual city of Portland sewer charges amount to \$24,000.

The facility does not recover any materials so that no income is realized by the company.

4. Director's Recommendation

It is recommended that a Pollution Control Facility Certificate be issued for the claimed facility claimed in application T-383, such certificate to bear the actual cost of \$47,521.00 with 80% or more allocable to pollution control.

State of Oregon
DEPARTMENT OF ENVIRONMENTAL QUALITY
TAX RELIEF APPLICATION REVIEW REPORT

1. Applicant

Dwight West
Route 2, Box 139
McMinnville, Oregon 97218

The applicant owns and operates a swine production facility with a maximum annual capacity of 2,300 market hogs. The facility is located at Route 2, Box 139, McMinnville, Oregon in Yamhill County.

2. Description of Claimed Facility

Application T-384

The claimed facility includes three (3) reinforced concrete animal waste storage pits, a reinforced concrete pumping pit, 6,380 square feet of steel slotted floors over the pits, 11,440 square feet of concrete sanitation floor with curbs, and associated waste disposal equipment. The facility was designed to provide storage for animal wastes prior to pumping to the lagoon system.

The claimed facility was completed and placed in operation in December 1969.

Certification is claimed under the 1967 Act. (Principal purpose of pollution control).

Claimed Facility Cost: \$18,065.67 (Documentation submitted).

Application T-385

The claimed facility includes an anaerobic lagoon of 250,000 cubic feet capacity and an aerobic lagoon of 180,000 cubic feet capacity to provide complete capture and holding of animal wastes.

The claimed facility was completed and placed in operation in November 1970.

Certification is claimed under the 1969 Act with 100% of the cost allocated to pollution control.

Claimed Facility Cost: \$7,100.91 (Documentation submitted).

State of Oregon
DEPARTMENT OF ENVIRONMENTAL QUALITY
TAX RELIEF APPLICATION REVIEW REPORT

Application T-386

The claimed facility includes 2,692 square feet of steel slotted floors in the finishing house. The facility was designed to provide storage for animal wastes prior to pumping to the lagoon system.

The claimed facility was completed and placed in operation in April 1971.

Certification is claimed under the 1969 Act with 100% of the cost allocated to pollution control.

Claimed facility cost: \$4,835.48. (Documentation submitted).

3. Evaluation of Applications

Since the claimed facilities were constructed as integral parts of a total operation, many other provisions were included in the design which reduce the difficulty of controlling the escapement of manure and contaminated drainage but cannot be directly attributable to the pollution control facility. Accumulated animal wastes are pumped from the lagoon system as conditions permit disposal upon the land. The nutrient value of the manure utilized does not provide recovery of the cost of the pollution control facilities constructed.

Alternative manure collection, control, storage, and disposal facilities were considered but ruled out as more costly than the alternatives selected.

The claimed facility is contributing to adequate control of animal wastes for the design scope of swine raising operations that it serves.

4. Recommendation

It is recommended that Pollution Control Facility Certificates be issued for the facilities claimed in Applications T-384, T-385 and T-386, such certificates to show the following costs:

- A. Application T-384: \$18,065.67. Certified under the 1967 Act.
- B. Application T-385: \$7,100.91 with 80% or more of the cost allocable to pollution control.
- C. Application T-386: \$4,835.48 with 80% or more of the cost allocable to pollution control.



DEPARTMENT OF ENVIRONMENTAL QUALITY

TERMINAL SALES BLDG. • 1234 S.W. MORRISON ST. • PORTLAND, OREGON 97205

TOM McCALL
GOVERNOR

L. B. DAY
Director

ENVIRONMENTAL QUALITY
COMMISSION

B. A. McPILLIPS
Chairman, McMinnville

EDWARD C. HARMS, JR.
Springfield

STORRS S. WATERMAN
Portland

GEORGE A. McMATH
Portland

ARNOLD M. COGAN
Portland

MEMORANDUM

To: Environmental Quality Commission
From: Director
Subject: Agenda Item No. K, November 30, 1972, EQC Meeting
City of Coquille - Ferbasch Heights Annexation

Background

The Ferbasch Heights area outside the City of Coquille was surveyed under the direction of the Community Sanitation Program of the State Division of Health. Serious subsurface waste disposal problems have been shown to exist in the area and the forced annexation procedures under ORS 222.860 have been initiated.

Evaluation

The city has enlisted the services of a consulting engineer to prepare preliminary plans and specs, and a timetable for construction of sewers to serve the area. The material submitted is satisfactory and will, when implemented, relieve the problems associated with subsurface waste disposal. The plans, specs and timetable were approved by the Director by letter of July 21, 1972.

Director's Recommendation

It is recommended by the Director that the Commission give its ratifying approval of the Director's actions in this matter, and that its certification of such approval be conveyed by letter to the Division of Health as required by ORS 222.865.


L. B. Day



DEPARTMENT OF ENVIRONMENTAL QUALITY

TERMINAL SALES BLDG. • 1234 S.W. MORRISON ST. • PORTLAND, OREGON 97205

TOM McCALL
GOVERNOR

L. B. DAY
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Portland

ARNOLD M. COGAN
Portland

MEMORANDUM

To: Environmental Quality Commission

From: Director

Subject: Agenda Item No. L, November 30, 1972, EQC Meeting

Formal Hearing to Consider Amendment of Oregon's Water
Quality Implementation and Enforcement Plan, Oregon
Administrative Rules Chapter 340, Division 4, Sub-
division 1, Section 41-075

Background

On March 24, 1972, the Environmental Quality Commission considered and adopted certain amendments to the 1967 Water Quality Standards Implementation Plan for interstate waters. On July 6, 1972, the Environmental Protection Agency approved the amendments.

In granting approval of the plan amendments, Environmental Protection Agency requested that interim dates of accomplishment be adopted for five sources listed in the plan. These were:

Hood River
Menasha Corporation, North Bend
Ore-Ida Foods, Inc., Ontario
Crown Zellerbach Corporation, Wauna
The Amalgamated Sugar Company, Nyssa

The requested interim dates are proposed for adoption.

Since the plan amendments were adopted in March, eleven domestic sewage sources have fallen behind the established schedules.

It is therefore proposed to make further amendments for these sources.

On July 6, 1972, Department of Environmental Quality and Environmental Protection Agency entered into an agreement relative to processing of Waste Discharge Permits. One provision of this agreement requires that periodic hearings be held to formally adopt the Waste Discharge Permits that have been issued as the official Water Quality Standards Implementation Plan for those sources. It is therefore proposed to consider the permits issued between March 24, 1972 and October 31, 1972 pursuant to this agreement.

Discussion of Interim Dates

All of the sources for which it is proposed to establish interim dates of accomplishment are under specific Waste Discharge Permits which incorporate schedules for compliance with requirements.

Attachment A lists the five sources and the interim dates proposed for adoption. The project completion dates are unchanged.

The proposed interim dates for Hood River are different from those contained in their Waste Discharge Permit. The proposed interim dates are considered realistic at this time. The completion date may not be met, however, the Department proposes no change at this time.

No interim dates are proposed for Amalgamated Sugar Company since required facilities have already been completed -- two years ahead of time.

Proposed interim dates for Menasha Corporation are consistent with the dates contained in their present permit. Issuance of a renewal permit is pending at this time.

Discussion of Revised Completion Dates

Attachment B contains the proposed revised completion dates and the reason for change. All projects are either under construction or are awaiting construction grants. Availability of grants and grant procedures have been responsible for most of the project delays.

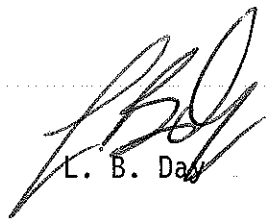
Discussion of Permits Issued

Attachment C contains a listing of permits issued between March 24, 1972 and October 31, 1972. Environmental Protection Agency has been provided copies of all proposed permits prior to issuance as well as copies of the final permits as issued.

Director's Recommendation

It is recommended that the proposed interim dates contained in Attachment A and the proposed revised completion dates contained in Attachment B be adopted as revisions to the Implementation and Enforcement Plan for Public Waters of the State of Oregon.

It is further recommended that the Waste Discharge Permits as listed in Attachment C be formally adopted as the official Water Quality Standards Implementation Plan of the State of Oregon for the listed sources.



L. B. Darr

HLS:ak

November 22, 1972

Proposed Interim Dates of
Accomplishment to be Established
For Certain Cities and Industries Listed in Tables
2 D (1), 2 D (2), 2 G (2), and 2 H (2)

<u>Source</u>	<u>Required Action</u>	<u>Required Completion Date</u>	<u>Proposed Interim Dates</u>	<u>Comments</u>
Hood River	Secondary Treatment	12/73	Complete Engineering Design 2/73 Start Construction 3/73	Present Waste Discharge Permit requires plans by 9/30/72 and start of construction by 12/1/72. Failure of city to authorize design until late August 72 has significantly delayed project and increased chance that 12/73 completion date will not be met
Crown Zellerbach Wauna	Secondary Treatment for IW	12/75	Complete in-plant Control 7/73 Start preliminary Engineering 9/73 Complete Secondary Design 12/74 Start Construction of Secondary 2/75	None
Amalgamated Sugar Nyssa	Secondary Treatment to meet 0.5 lb. BOD/Ton of sliced beets	Prior to 74-75 Processing Season	None	System installed already (Summer 72) and presently being tested.
Ore-Ida Foods Ontario	Secondary Treatment or equivalent control	9/73	Start Construction 5/73	Plans approved already (11/72).
Menasha Corp. North Bend	Deep Ocean Disposal Chemical Recovery Secondary Treatment (or concurrent with plant expansion)	11/15/72 7/74 7/76	None Start Construction 7/73 Submit Plans 12/74 Start Construction 7/75	Will be completed on schedule. Design underway, equipment ordered. None

Proposed
 Amendments to Table 2 D (1) and 2 H (1)
 of
 1967 Implementation and Enforcement Plan for the Public Waters of the State of Oregon
 as Amended on March 24, 1972

Source	Required Action	Required Completion Date 3/24/72 Amended Plan	Proposed Revised Completion Date (11/72)	Present Status	Reason for Change
Astoria	Secondary Treatment	6/73	4/74	Under Construction	Initial bids higher than available funds. Rebid twice. Lower bids plus return by the state to a matching grant program permitted project to proceed.
Gresham	Secondary Treatment	8/72	3/73	Under Construction	8/72 was original expected completion date. Because of higher than anticipated costs, job split into 3 contracts with secondary to be done 1/73. Approved change orders have extended completion to 3/73.
Port of Portland, (Multnomah Co.)	Secondary Treatment (Interceptor to connect to Inverness Plant)	10/72	7/73	2 phases under construction 3 phases approved for contract award 1 phase under redesign	Some delay in attaining grant. Initial bids too high. Project rebid on phases. One phase is being redesigned. Bid call on redesigned phase expected 1/73.
Umatilla	Secondary Treatment	8/72	8/73	Under Construction	Major delay in obtaining grant. Some delay in obtaining approvable plans. Bids received 8/1/72. Grant finally received 10/4/72. Plans approved by EPA 10/20/72. Contract award approved by EPA on 10/25/72.
Seaside	Secondary Treatment	12/72	3/73	Under Construction	Project held up pending EPA grant.
Garibaldi	Secondary Treatment	10/72	2/73	Under Construction	Project held up pending EPA grant
Coos Bay #1) Bunker Hill S.D.) Eastside)	Secondary Treatment	6/73	4/74	Awaiting EPA grant	Plans for plant expected 11/72. Plans for interceptors and pump stations to eliminate Bunker Hill and Eastside plants to be submitted by 3/73 with facilities to be completed at same time as treatment plant.
Coos Bay #2	Secondary Treatment	6/73	4/74	Awaiting EPA grant	Under design. Final plans expected by 3/73 One year projected for construction.
Gold Beach	Secondary Treatment	4/73	4/74	Awaiting EPA grant	Plans approved. Construction delayed until grant received and contract award approved. One year projected for construction.

ATTACHMENT C

PERMIT NUMBER	PERMITTEE	DATE ISSUED	DATE EXPIRED
1152	Lage Orchards, Inc.	04-07-72	08-31-74
1153	Moore Orchards, Inc.	04-07-72	08-31-74
1154	Walter Walls & Sons	04-07-72	08-31-74
1155	U.S. Plywood-Champ Papers, Inc. (Gold Beach Div.)	04-07-72	12-31-74
1156	Argipac, Incproprated	04-07-72	11-30-74
1157	Diamond Fruit Growers, Inc. (Odell Plant)	04-07-72	09-01-73
1158	Bate Plywood Division (Fiberboard Corp.)	04-07-72	06-30-74
1159	Diamond Fruit Growers, Inc. (Diamond Central Plant)	04-07-72	09-01-73
1160	Diamond Fruit Growers, Inc. (Parkdale Plant)	04-07-72	09-01-73
1161	Diamond Fruit Growers, Inc. (Pine Grove Pre-Size Plant)	04-07-72	09-01-73
1162	Driftwood Shores, Inc.	04-07-72	12-31-73
1163	Wendell D. Hiatt (apartments)	04-18-72	06-30-73
1164	Bethel-Danebo Sand & Gravel Co.	04-18-72	12-31-74
1165	Crown Zellerbach Corp. (Flexible Packaging Division, Portland)	04-18-72	12-31-73
1166	Hub City Concrete Co., Inc.	04-18-72	12-31-73
1167	Stayton Canning Co., Cooperative (Brooks Plant)	05-24-72	03-31-73
1168	Kinzua Corporation, Kinzua Plant	05-24-72	07-31-73
1169	VOID		
1170	City of Heppner	05-24-72	03-31-74
1171	Interstate Meats, Inc.	05-24-72	12-31-74
1172	Oregon Portland Cement Co. (Lake Oswego Plant)	05-24-72	12-31-73
1173	Cascade Eggs, Incorporated	05-24-72	03-31-75
1174	City of Woodburn	05-24-72	03-31-73
1175	U.S. Army Corps of Engineers (Bonneville Dam & Power Project)	06-06-72	03-01-74
1176	U.S. Army Corps of Engineers (John Day Dam & Power Project)	06-06-72	03-01-74
1177	U.S. Army Corps of Engineers (McNary Dam & Power Project)	06-06-72	03-01-74
1178	U.S. Army Corps of Engineers (The Dalles Dam & Power Project)	06-06-72	03-01-74
1179	R. A. Heintz Construction Co. (Holiday Beach)	06-07-72	06-30-73
1180	Klamath Potato Distributors, Inc.	06-07-72	01-31-73
1181	Gilchrist Timber Company (Industrial Waste)	06-07-72	12-31-73
1182	Stadelman Fruit Inc. (Letz and Whitney Plants)	06-07-72	06-30-73
1183	City of Aumsville	06-07-72	03-31-76
1184	Zidell Explorations, Inc.	06-07-72	05-31-73
1185	Baker	07-13-72	06-30-74
1186	Prineville	07-13-72	03-31-77
1187	Enterprise	07-13-72	05-01-75
1188	Klamath Falls (Airport Plant)	07-13-72	03-31-77
1189	Richland	07-13-72	06-30-74
1190	Nordic Plywood, Inc.	07-13-72	12-31-74
1191	Stanfield	07-13-72	03-31-74
1192	Clackamas Co. S.D. #1 (Kellog Plant)	07-13-72	06-30-74

PERMIT NUMBER	PERMITTEE	DATE ISSUED	DATE EXPIRES
1193	Pacific Building Materials	07-18-72	07-01-73
1194	Molalla Sand & Gravel	07-18-72	12-31-74
1195	Estacada Rock Products	07-18-72	12-31-74
1196	Quick Service Sand & Gravel	07-18-72	12-31-74
1197	Georgia Pacific Corp. (Camp Adair Plant)	08-01-72	06-30-76
1198	Time Oil Company	08-01-72	12-31-74
1199	City of Coos Bay (Plant 1)	08-01-72	06-30-73
1200	City of Coos Bay (Plant 2)	08-01-72	06-30-73
1201	Bunker Hill S. D.	08-01-72	06-30-73
1202	City of Eastside	08-01-72	06-30-73
1203	Condominiums N.W., Inc. (Inn at Otter Crest	08-01-72	12-31-73
1204	Neighbors of Woodcraft Home	08-01-72	09-30-72
1205	Coos Head Timber Co. (McKenna Plywood & Studmill op.)	08-01-72	08-31-73
1206	Steve Wilson Company (Trail Creek Mill)	08-01-72	06-30-74
1207	Muirhead Canning Co.	08-01-72	06-30-75
1208	Vanply, Inc.	08-01-72	05-31-77
1209	Cornucopis Minerals, Inc.	08-01-72	03-31-73
1210	City of Brookings	08-01-72	04-30-73
1211	City of Gold Beach	08-01-72	04-30-73
1212	City of Waldport	08-01-72	04-30-73
1213	Teledyne Wah Chang, Albany	08-03-72	07-01-73
1214	Pacific Power and Light Co. (Albany Water Treatment Plant)	08-03-72	05-31-77
1215	Pacific Power and Light Co. (Lebanon Water Treatment Plant)	08-03-72	05-31-77
1216	Pacific Power and Light Co. (Mill City Plant)	08-03-72	05-31-77
1217	Pacific Power and Light Co. (Portland, Lincoln Plant)	08-03-72	05-31-77
1218	Sheridan	08-03-72	08-31-75
1219	Wallowa	08-03-72	06-30-73
1220	Astoria	08-03-72	06-30-73
1221	Rainier	08-03-72	07-31-73
1222	Seaside	08-03-72	12-31-72
1223	Umatilla	08-03-72	08-31-75
1224	Portland (Columbia Plant)	08-03-72	12-31-73
1225	Arlington	08-03-72	09-30-73
1226	Hood River	08-03-72	12-31-73
1227	Sunset Packing Co. of Oregon (Salem Division)	08-04-72	06-01-74
1228	Valley Concrete & Gravel, Inc.	08-04-72	06-01-77
1229	Mt. Angel	08-04-72	03-31-73
1230	Vale	08-04-72	06-30-75
1231	Terminal Ice & Cold Storage Co.	08-04-72	06-01-77
1232	Stayton Canning Co. Cooperative (Stayton Plant)	08-04-72	06-30-76
1233	Reichhold Chemicals, Inc.	08-10-72	09-30-74
1234	Scappoose	08-10-72	05-31-74
1235	The Dalles Cherry Growers, Inc.	08-10-72	07-31-74
1236	Garibaldi	08-10-72	10-31-74
1237	Stadelman Fruit, Inc.	08-10-72	07-31-74

PERMIT NUMBER	PERMITTEE	DATE ISSUED	DATE EXPIRES
1238	Pendleton	08-10-72	10-31-73
1239	Fishhawk Lake Recreation Club, Inc.	09-13-72	12-31-75
1240	Rasmussen & Company	09-13-72	12-31-72
1241	Zig Zag Condominiums Oregon, Ltd.	09-13-72	12-31-73
1242	Lamb-Weston, Int. (Hermiston Plant)	09-13-72	06-30-74
1243	U.S. Plawood=Champion Papers, Inc. (Lebanon Plant)	09-13-72	08-01-74
1244	Willow Is. Mobile Estates	09-13-72	12-31-73
1245	Royal Oak Charcoal Co. (Medford Division)	09-13-72	07-31-76
1246	Crown Rendering Co., Inc.	09-13-72	06-30-74
1247	Molalla	09-13-72	12-31-73
1248	Vernonia	09-13-72	06-30-75
1249	Rivergate Rick Products	09-19-72	07-01-73
1250	Sundown Sanitary District	09-19-72	06-30-74
1251	VOID		
1252	Tygh Valley Sand & Gravel	09-19-72	03-31-75
1253	Glendale	09-19-72	04-30-73
1254	Paris Woolen Mills, Inc.	09-19-72	06-30-76
1255	Oregon Fruit Products Co.	09-19-72	12-31-73
1256	Scio	09-19-72	06-30-76
1257	Coquille	09-19-72	03-31-74
1258	Georgia Pacific Corp. (Prairie Road Plant)	09-19-72	06-30-77
1259	M. C. Lininger & Sons, Inc. (Ashland Plant)	09-19-72	06-30-73
1260	South Suburban S. D.	09-20-72	06-30-75
1261	Harris Pine Mills	09-20-72	06-30-74
1262	Twin Rocks Sanitary District	09-20-72	09-30-74
1263	Independence	09-20-72	06-30-75
1264	Dikeside Morrage	09-20-72	12-31-73
1265	Monroe	09-20-72	06-30-76
1266	Sweetbrier Inn Motor Hotel	09-20-72	12-31-74
1267	Nehalem	09-21-72	06-30-74
1268	Happy Valley Homes, Inc. (Happy Valley Mobile Pk.)	09-21-72	12-31-75
1269	Norpac Growers, Inc. (Dundee Plant)	09-21-72	06-30-77
1270	Myrtle Point	09-21-72	12-31-75
1271	Pleasant Valley School District	09-21-72	12-31-73
1272	Florence	09-21-72	03-31-76
1273	City of Lebanon	09-22-72	12-31-74
1274	Sunriver Properties, Inc.	09-22-72	06-30-75
1275	Edward Hines Lumber Company, Westfir Hemlock Add. (Domestic)	09-22-72	03-31-77
1276	Umpqua River Navigation Company	09-22-72	06-30-74
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1285	Phillips Petroleum Company	09-27-72	12-31-74
1286	Union Oil Company of California (Portland Terminal & Asphalt Plant)	09-27-72	12-31-74
1287	AtlanticRichfield Company (Linnton Terminal)	09-27-72	12-31-74
1288	Pacific Carbide & Alloys Co.	09-27-72	09-30-74
1289	Brownlee Dam & Power Project, Idaho Power Co.	10-02-72	03-01-74
1290	Hells Canyon Dam & Power Project, Idaho Power Co.	10-02-72	03-01-74
1291	Oxbow Dam & Power Project. Idaho Power Co.	10-02-72	03-01-74
1292	Mobile Oil Corp	10-03-73	12-31-74
1293	Texaco, Inc., Portland Terminal	10-03-72	12-31-74
1294	Coos Bay Packing Co., Inc.	10-03-72	03-31-74
1295	TP Packing Co.	10-03-72	06-30-74
1296	Klamath Ready Mix, Inc.	10-03-72	05-31-74
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1298	Zidell Explorations, Inc.	10-16-72	12-01-73
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1301	Erdman Packing Company	10-13-72	06-30-75
1302	Forrest Industries, Ltd.	10-13-72	07-31-74
1303	Pacific Resins & Chemicals, Inc. West Coast Div. - Eugene Plant	10-13-72	08-31-74
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1329	Haven Acres, Incorporated	10-31-72	07-31-74
1330	City of Creswell	10-31-72	03-21-77
1331	City of Carlton	10-31-72	07-31-75
1332	City of Cave Junction	10-31-72	09-30-75
1333	City of Salem - Willow Lake Plant	10-31-72	03-31-75
1334	City of Roseburg	10-31-72	09-30-75
1335	City of Yamhill	10-31-72	06-30-74

Proposed Interim Dates of
Accomplishment to be Established
For Certain Cities and Industries Listed in Tables
2 D (1), 2 D (2), 2 G (2), and 2 H (2)

<u>Source</u>	<u>Required Action</u>	<u>Required Completion Date</u>	<u>Proposed Interim Dates</u>	<u>Comments</u>
Hood River	Secondary Treatment	12/73	Complete Engineering Design 2/73 Start Construction 3/73	Present Waste Discharge Permit requires plans by 9/30/72 and start of construction by 12/1/72. Failure of city to authorize design until late August 72 has significantly delayed project and increased chance that 12/73 completion date will not be met
Crown Zellerbach Wauna	Secondary Treatment for IW	12/75	Complete in-plant Control 7/73 Start preliminary Engineering 9/73 Complete Secondary Design 12/74 Start Construction of Secondary 2/75	None
Amalgamated Sugar Nyssa	Secondary Treatment to meet 0.5 lb. BOD/Ton of sliced beets	Prior to 74-75 Processing Season	None	System installed already (Summer 72) and presently being tested.
Ore-Ida Foods Ontario	Secondary Treatment or equivalent control	9/73	Start Construction 5/73	Plans approved already (11/72).
Menasha Corp. North Bend	Deep Ocean Disposal Chemical Recovery Secondary Treatment (or concurrent with plant expansion)	11/15/72 7/74 7/76	None Start Construction 7/73 Submit Plans 12/74 Start Construction 7/75	Will be completed on schedule. Design underway, equipment ordered. None

Attachment A

Proposed
 Amendments to Table 2 D (1) and 2 H (1)
 of
 1967 Implementation and Enforcement Plan for the Public Waters of the State of Oregon
 as Amended on March 24, 1972

Source	Required Action	Required Completion Date 3/24/72 Amended Plan	Proposed Revised Completion Date (11/72)	Present Status	Reason for Change
Astoria	Secondary Treatment	6/73	4/74	Under Construction	Initial bids higher than available funds. Rebid twice. Lower bids plus return by the state to a matching grant program permitted project to proceed.
Gresham	Secondary Treatment	8/72	3/73	Under Construction	8/72 was original expected completion date. Because of higher than anticipated costs, job split into 3 contracts with secondary to be done 1/73. Approved change orders have extended completion to 3/73.
Port of Portland, (Multnomah Co.)	Secondary Treatment (Interceptor to connect to Inverness Plant)	10/72	7/73	2 phases under construction 3 phases approved for contract award 1 phase under redesign	Some delay in attaining grant. Initial bids too high. Project rebid on phases. One phase is being redesigned. Bid call on redesigned phase expected 1/73.
Umatilla	Secondary Treatment	8/72	8/73	Under Construction	Major delay in obtaining grant. Some delay in obtaining approvable plans. Bids received 8/1/72. Grant finally received 10/4/72. Plans approved by EPA 10/20/72. Contract award approved by EPA on 10/25/72.
Seaside	Secondary Treatment	12/72	3/73	Under Construction	Project held up pending EPA grant.
Garibaldi	Secondary Treatment	10/72	2/73	Under Construction	Project held up pending EPA grant
Coos Bay #1) Bunker Hill S.D.) Eastside)	Secondary Treatment	6/73	4/74	Awaiting EPA grant	Plans for plant expected 11/72. Plans for interceptors and pump stations to eliminate Bunker Hill and Eastside plants to be submitted by 3/73 with facilities to be completed at same time as treatment plant.
Coos Bay #2	Secondary Treatment	6/73	4/74	Awaiting EPA grant	Under design. Final plans expected by 3/73. One year projected for construction.
Gold Beach	Secondary Treatment	4/73	4/74	Awaiting EPA grant	Plans approved. Construction delayed until grant received and contract award approved. One year projected for construction.

ATTACHMENT C

PERMIT NUMBER	PERMITTEE	DATE ISSUED	DATE EXPIRED
1152	Lage Orchards, Inc.	04-07-72	08-31-74
1153	Moore Orchards, Inc.	04-07-72	08-31-74
1154	Walter Walls & Sons	04-07-72	08-31-74
1155	U.S. Plywood-Champ Papers, Inc. (Gold Beach Div.)	04-07-72	12-31-74
1156	Argipac, Incorporated	04-07-72	11-30-74
1157	Diamond Fruit Growers, Inc. (Odell Plant)	04-07-72	09-01-73
1158	Bate Plywood Division (Fiberboard Corp.)	04-07-72	06-30-74
1159	Diamond Fruit Growers, Inc. (Diamond Central Plant)	04-07-72	09-01-73
1160	Diamond Fruit Growers, Inc. (Parkdale Plant)	04-07-72	09-01-73
1161	Diamond Fruit Growers, Inc. (Pine Grove Pre-Size Plant)	04-07-72	09-01-73
1162	Driftwood Shores, Inc.	04-07-72	12-31-73
1163	Wendell D. Hiatt (apartments)	04-18-72	06-30-73
1164	Bethel-Danebo Sand & Gravel Co.	04-18-72	12-31-74
1165	Crown Zellerbach Corp. (Flexible Packaging Division, Portland)	04-18-72	12-31-73
1166	Hub City Concrete Co., Inc.	04-18-72	12-31-73
1167	Stayton Canning Co., Cooperative (Brooks Plant)	05-24-72	03-31-73
1168	Kinzua Corporation, Kinzua Plant	05-24-72	07-31-73
1169	VOID		
1170	City of Heppner	05-24-72	03-31-74
1171	Interstate Meats, Inc.	05-24-72	12-31-74
1172	Oregon Portland Cement Co. (Lake Oswego Plant)	05-24-72	12-31-73
1173	Cascade Eggs, Incorporated	05-24-72	03-31-75
1174	City of Woodburn	05-24-72	03-31-73
1175	U.S. Army Corps of Engineers (Bonneville Dam & Power Project)	06-06-72	03-01-74
1176	U.S. Army Corps of Engineers (John Day Dam & Power Project)	06-06-72	03-01-74
1177	U.S. Army Corps of Engineers (McNary Dam & Power Project)	06-06-72	03-01-74
1178	U.S. Army Corps of Engineers (The Dalles Dam & Power Project)	06-06-72	03-01-74
1179	R. A. Heintz Construction Co. (Holiday Beach)	06-07-72	06-30-73
1180	Klamath Potato Distributors, Inc.	06-07-72	01-31-73
1181	Gilchrist Timber Company (Industrial Waste)	06-07-72	12-31-73
1182	Stadelman Fruit Inc. (Letz and Whitney Plants)	06-07-72	06-30-73
1183	City of Aumsville	06-07-72	03-31-76
1184	Zidell Explorations, Inc.	06-07-72	05-31-73
1185	Baker	07-13-72	06-30-74
1186	Prineville	07-13-72	03-31-77
1187	Enterprise	07-13-72	05-01-75
1188	Klamath Falls (Airport Plant)	07-13-72	03-31-77
1189	Richland	07-13-72	06-30-74
1190	Nordic Plywood, Inc.	07-13-72	12-31-74
1191	Stanfield	07-13-72	03-31-74
1192	Clackamas Co. S.D. #1 (Kellog Plant)	07-13-72	06-30-74

PERMIT NUMBER	PERMITTEE	DATE ISSUED	DATE EXPIRES
1193	Pacific Building Materials	07-18-72	07-01-73
1194	Molalla Sand & Gravel	07-18-72	12-31-74
1195	Estacada Rock Products	07-18-72	12-31-74
1196	Quick Service Sand & Gravel	07-18-72	12-31-74
1197	Georgia Pacific Corp. (Camp Adair Plant)	08-01-72	06-30-76
1198	Time Oil Company	08-01-72	12-31-74
1199	City of Coos Bay (Plant 1)	08-01-72	06-30-73
1200	City of Coos Bay (Plant 2)	08-01-72	06-30-73
1201	Bunker Hill S. D.	08-01-72	06-30-73
1202	City of Eastside	08-01-72	06-30-73
1203	Condominiums N.W., Inc. (Inn at Otter Crest	08-01-72	12-31-73
1204	Neighbors of Woodcraft Home	08-01-72	09-30-72
1205	Coos Head Timber Co. (McKenna Plywood & Studmill op.)	08-01-72	08-31-73
1206	Steve Wilson Company (Trail Creek Mill)	08-01-72	06-30-74
1207	Muirhead Canning Co.	08-01-72	06-30-75
1208	Vanply, Inc.	08-01-72	05-31-77
1209	Cornucopis Minerals, Inc.	08-01-72	03-31-73
1210	City of Brookings	08-01-72	04-30-73
1211	City of Gold Beach	08-01-72	04-30-73
1212	City of Waldport	08-01-72	04-30-73
1213	Teledyne Wah Chang, Albany	08-03-72	07-01-73
1214	Pacific Power and Light Co. (Albany Water Treatment Plant)	08-03-72	05-31-77
1215	Pacific Power and Light Co. (Lebanon Water Treatment Plant)	08-03-72	05-31-77
1216	Pacific Power and Light Co. (Mill City Plant)	08-03-72	05-31-77
1217	Pacific Power and Light Co. (Portland, Lincoln Plant)	08-03-72	05-31-77
1218	Sheridan	08-03-72	08-31-75
1219	Wallowa	08-03-72	06-30-73
1220	Astoria	08-03-72	06-30-73
1221	Rainier	08-03-72	07-31-73
1222	Seaside	08-03-72	12-31-72
1223	Umatilla	08-03-72	08-31-75
1224	Portland (Columbia Plant)	08-03-72	12-31-73
1225	Arlington	08-03-72	09-30-73
1226	Hood River	08-03-72	12-31-73
1227	Sunset Packing Co. of Oregon (Salem Division)	08-04-72	06-01-74
1228	Valley Concrete & Gravel, Inc.	08-04-72	06-01-77
1229	Mt. Angel	08-04-72	03-31-73
1230	Vale	08-04-72	06-30-75
1231	Terminal Ice & Cold Storage Co.	08-04-72	06-01-77
1232	Stayton Canning Co. Cooperative (Stayton Plant)	08-04-72	06-30-76
1233	Reichhold Chemicals, Inc.	08-10-72	09-30-74
1234	Scappoose	08-10-72	05-31-74
1235	The Dalles Cherry Growers, Inc.	08-10-72	07-31-74
1236	Garibaldi	08-10-72	10-31-74
1237	Stadelman Fruit, Inc.	08-10-72	07-31-74

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1238	Pendleton	08-10-72	10-31-73
1239	Fishhawk Lake Recreation Club, Inc.	09-13-72	12-31-75
1240	Rasmussen & Company	09-13-72	12-31-72
1241	Zig Zag Condominiums Oregon, Ltd.	09-13-72	12-31-73
1242	Lamb-Weston, Int. (Hermiston Plant)	09-13-72	06-30-74
1243	U.S. Plawood=Champion Papers, Inc. (Lebanon Plant)	09-13-72	08-01-74
1244	Willow Is. Mobile Estates	09-13-72	12-31-73
1245	Royal Oak Charcoal Co. (Medford Division)	09-13-72	07-31-76
1246	Crown Rendering Co., Inc.	09-13-72	06-30-74
1247	Molalla	09-13-72	12-31-73
1248	Vernonia	09-13-72	06-30-75
1249	Rivergate Rick Products	09-19-72	07-01-73
1250	Sundown Sanitary District	09-19-72	06-30-74
1251	VOID		
1252	Tygh Valley Sand & Gravel	09-19-72	03-31-75
1253	Glendale	09-19-72	04-30-73
1254	Paris Woolen Mills, Inc.	09-19-72	06-30-76
1255	Oregon Fruit Products Co.	09-19-72	12-31-73
1256	Scio	09-19-72	06-30-76
1257	Coquille	09-19-72	03-31-74
1258	Georgia Pacific Corp. (Prairie Road Plant)	09-19-72	06-30-77
1259	M. C. Lininger & Sons, Inc. (Ashland Plant)	09-19-72	06-30-73
1260	South Suburban S. D.	09-20-72	06-30-75
1261	Harris Pine Mills	09-20-72	06-30-74
1262	Twin Rocks Sanitary District	09-20-72	09-30-74
1263	Independence	09-20-72	06-30-75
1264	Dikeside Morrage	09-20-72	12-31-73
1265	Monroe	09-20-72	06-30-76
1266	Sweetbrier Inn Motor Hotel	09-20-72	12-31-74
1267	Nehalem	09-21-72	06-30-74
1268	Happy Valley Homes, Inc. (Happy Valley Mobile Pk.)	09-21-72	12-31-75
1269	Norpac Growers, Inc. (Dundee Plant)	09-21-72	06-30-77
1270	Myrtle Point	09-21-72	12-31-75
1271	Pleasant Valley School District	09-21-72	12-31-73
1272	Florence	09-21-72	03-31-76
1273	City of Lebanon	09-22-72	12-31-74
1274	Sunriver Properties, Inc.	09-22-72	06-30-75
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1332	City of Cave Junction	10-31-72	09-30-75
1333	City of Salem - Willow Lake Plant	10-31-72	03-31-75
1334	City of Roseburg	10-31-72	09-30-75
1335	City of Yamhill	10-31-72	06-30-74