National Environmental Research Center Corvallis, Oregon

QUARTERLY STATUS REPORT



JULY-SEPTEMBER 1974
OFFICE OF RESEARCH & DEVELOPMENT

This Quarterly Report summarizes the present status of progress toward achieving the milestones in each of the approved Research Objective Accomplishment Plans (ROAPs) assigned to NERC-Corvallis and its associated laboratories for the 1st Quarter FY 74. The report is divided into 4 parts. Part I summarizes the status of delays, the reasons for delays and the technical assistance provided to EPA, the Regions and other federal, state, and private organizations. Part II is the Laboratory Director's assessment of the problems, impact of delays, and accomplishments. Part III is a detailed report by ROAP on the status of tasks toward meeting task milestones and Part IV is a listing of the technical reports and papers published during the quarter.

Out of a total of 90 ROAPS and 720 active tasks approximately 80% are proceeding on schedule as of the end of the first quarter. The major delays encountered during the first quarter are in large measure attributable to the freeze in extramural funding which has caused disruption of ongoing grants and contracts and has delayed startup of new extramural projects.

Additional delays in industrial technology research have occurred as a result of many manhours being provided Headquarters in the development of effluent guidelines. This has resulted in delays in intramural as well as sone extramural activities. In most cases, delays in funding will not have serious impact on the extramural research effort. However, if funding is not forthcoming in the early part of the second quarter, the delays in achieving research outputs will obviously begin to slip.

Your comments and suggestions on the contents of this report will be appreciated. Please direct all inquiries to the Director, Program Coordination Staff, NERC-Corvallis or call on FTS 503-752-4362.

a. F. Beries.

A. F. Bartsch Director, NERC-Corvallis

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PART I

SUMMARY OF ROAP/TASK PROGRESS

TOTAL ROAPS ASSIGNED - FY 74 NERC - CORVALLIS

LABORATORY	NO. OF ROAPS
AERL	6
GBERL	3
GIL	9
NERL	5
NMWQL	7
NWQL	10
PNERL	20
RSKERL	18
SERL	12
	90

NATIONAL ENVIRONMENTAL RESEARCH CENTER - CORVALLIS SUMMARY OF TECHNICAL ASSISTANCE 1st Quarter - FY 1974 (Manhours)

				(,				
		Curre	nt Quarter		% of Total		Year-To	o-Date	
Laboratory	Regions	EPA	Non-EPA	Total	Qtrly Res Manhours	Regions	EPA	Non-EPA	Total
PNERL	756	2492	292	3540	7.64	756	249	292	3540
NMWQL	100	200	80	380	1.58	100	200	80	380
NWQL	80	3273	205	3558	9.24	80	3273	205	3558
AERL	-	-	-	-	-	-	-	-	-
GIL	21	904	104	1029	24.08	21	904	104	1029
RSKERL	30	1221	136	1387	6.66	30	1221	136	1387
GBERL	391	547	648	1586	12.2	391	547	64 8	1586
SERL	188	693	214	1095	3.76	188	693	214	1095
NERL	40	70	107	217	2.31	40	70	107	217
TOTAL	1606	9400	1786	12,792		1606	9400	1786	12,792

NATIONAL ENVIRONMENTAL RESEARCH CENTER CORVALLIS, CREGON SUMMARY OF TASK PROGRESS BY CRGANIZATION

CCT08ER 1973

LABORATORY		NC TASKS COMPLETE	NC ACTIVE TASKS	* * * CUI NO TASKS ON SCHED	RRENT QUAR NO TASKS BELAYED	TER * * * NO TASKS COMPLETED	T T T YEA	R-TO-DATE NO TASKS CELAYED	NO TASKS COMPLETED
NERC	3	0	ថ	0	0	O	0	0	0
PNERL	433	96	202	156	52	96	156	52	96
N~ k ∩ L	112	6	61	46	15	6	46	15	6
HEGE	116	0	7.5	77	1	3	77	1	0
AFRL	17	6	8	5	3	€	5	3	6
GIL	81	3	79	73	6	3	73	E	3
RSKEPL	206	37	95	6.5	13	37	82	13	37
GEEPL	50	8	42	40	2	8	40	2	8
SERL	265	34	109	73	3€	34	73	36	34
いころし	96	11	51	37	14	11	37	14	11
1015-2	1491	201	725	569	142	201	589	142	201

NATIONAL ENVIRONMENTAL RESEARCH CENTER COFVALLIS, OREGON SUMMARY OF REASONS FOR DELAY BY ORGANIZATION

OCTOBER 1973

LAECPATORY	TOTAL TASKS					RE	ASON	FOR CEL	AYS				
	DELAYED	FI	FF	FC	FL	AF	AF	AO	AG	AO	DA	8.6	0
NERC	J	0	O	0	9	0	3	O	0	٥	0	0	0
PNEAL	52	1	12	0	4	0	1	2	14	1	7	1	9
N~FCF	15	0	7	G	O	0	0	4	2	1	0	1	٥
おもびに	1	ð	C	G	0	0	0	0	٥	8	0	0	1
AERL	3	0	0	C	ø	O	3	0	1	٥	0	2	0
GIL	6	1	2	C	O	1	O	0	Q	1	0	0	1
SCKERL	13	1	1	0	a	0	0	2	2	2	0	3	2
しゅきゃし	2	0	0	0	C	0	8	C	0	1	1	0	0
SERL	36	5	4	e	G	1	1	2	11	5	3	3	1
NERL	14	o	2	1	0	a	ø	5	3	0	0	0	3
TOTALS	142	6	8 S	1	4	2	2	15	33	11	11	10	17

REASON FOR DELAY CODE								
FUNDING F	ADMINISTRATIVE - A	STAFFING - OTHER D/O						
FF - Funds Frozen FI - Funding Insufficient FD - Funds Diverted (specify) FL - Funds Late (Example delay in advice of allowance)	AD - Equipment Delays AF - Equipment Failure AG - Grant/Contract Delay (specify) AO - Other Administrative (specify) AP - Personnel Problems (specify)	DA - Diversion of Stalf for Technical Assistance DO - Diversion of Stalf for Other Than Technical Assistance (specify) O - Other (specify)						

NATIONAL ENVIRONMENTAL RESEARCH CENTER CORVALLIS, CRECON SUMMARY OF MONTHS DELAYED BY CREANIZATION

CCTOBER 1973

LABORATORY	TOTAL TASKS	NO TASKS DELAYED	1-3	4-6	DELAY I 7-9	N PCNTHS - 10-12	OVER 12
NERC	3	0	0	O	0	0	0
PNEFL	202	52	9	27	9	3	4
N ~ M CL	61	15	6	7	2	0	0
NWCL	78	1	0	0	1	0	C
AERL	8	3	C	3	0	0	O
GIL	79	б	2	4	٥	0	0
PSKFRL	95	13	4	7	1	0	1
GRERL	42	2	1	1	0	0	0
SERL	109	36	9	19	8	0	q
NERL	51	14	7	3	4	0	0
TOTALS	725	142	39	71	25	3	5

PART II

LABORATORY DIRECTORS REPORT

GROSSE ILE LABORATORY

Quarterly Status Report, 1st Quarter FY 74

I. Impact of Delays:

1BA028

There have been some delays in starting up new grant programs because of late funding and, consequently, there will be some slippage in the reporting schedules from the grantees.

II. Issues:

The problems consequent upon the freezing of extramural grant funds in four ROAPs in the Large Lakes Program are relatively obvious. Some preview of the possible timing of the release of these funds would help particularly in multi-year programs which are now being interrupted.

III. Accomplishments:

The Chemistry-Biology Program of the International Field Year on the Great Lakes is on schedule and a progress report will shortly be published describing the individual investigations. A brief State-of-the-Lake Report is also being prepared. Studies made in collaboration with Region V, Great Lakes States and various Canadian Agencies have been initiated for the Upper Lakes Reference Study mandated in the U.S.-Canada Agreement.

IV. Administrative/Management Problems:

There are no Administrative/Management problems to report at this time.

NATIONAL MARINE WATER QUALITY LABORATORY

Quarterly Status Report, 1st Quarter FY 74

I. Impact of Delays:

Six ROAP's at NMWQL have been approved for FY 74. A total of 54 tasks are scheduled to be active. Of these, 14 are delayed and none have yet been completed.

1BA022

- 16AAR This ROAP, marginally funded in the previous FY has been terminated and the effort has been consolidated at GBERL. We continue to monitor one contract which is scheduled for critical review and possible termination in October.
- 16AAS Delay in award prolongs the period during which EPA will not know the effects of chlorination procedures being recommended.
- 16AAT Knowledge of potential effects of intraspecies variation on criteria has been further delayed. Fewer short-term tests will be run than had been hoped. Available effort has been productively used in field and community studies.
- <u>l6AAV</u> The impact of these delays will probably not be too severe unless extramural funds do not materialize. Some of the delay shown reflects a correction of the distribution of effort between ballast and waste oils.
- <u>21AKF</u> A firm basis for temperature and salinity standards will not be available as scheduled although improved estimates based on the literature are being developed. The total impact of extramural funding delays is likely to be even more severe than indicated as more continuations come due. This ROAP is unusually heavily dependent on extramural support.
- <u>21BBG</u> Delays estimated at this point may be made up during the year. This is, again, a heavily extramural ROAP

II. Issues:

It will not be news to anyone that the current freeze on extramural funds will be most damaging to current projects due for continuation. It is also adding to the difficulty of obtaining qualified investigators who are often unwilling to accept the legendary uncertainty of EPA funding.

III. Accomplishments:

A document setting forth defensible criteria for dissolved oxygen in marine waters is in the final stages of preparation. It represents the culmination of several years of effort.

Internal renovation of the wet lab has been nearly completed and the teams are installing their test systems now. The contractor is progressing well on fabricating the new seawater intake structure but reliability is still limited by the old pumps.

The laboratory has at least obtained computer capability. This much needed tool will permit significant improvements in experimental design.

IV. Administrative/Management Problems:

The move of staff to the Narragansett facility is proceeding smoothly. Although this has necessarily caused some delays, it is difficult to gauge the extent. The current division of staff between the two facilities has seriously interferred with communication and cooperative effort. I recommend moving the NERC-Cincinnati group to West Kingston and consolidation of the seawater users by the bay--although the quarters will be extremely cramped. This will increase our effectiveness while still providing for the needs of the bacteriologists and will considerably reduce travel and lost time.

NMWQL has been requested by Headquarters to provide oxygen and temperature criteria on a crash basis to support the forthcoming revised water quality criteria document. It appears that this will require about two man-years of effort and will necessarily cause some program delays. We will be submitting program revisions to reflect this commitment.

PACIFIC NORTHWEST ENVIRONMENTAL RESEARCH LABORATORY

Quarterly Status Report, 1st Quarter, FY 74

I. Impact of Delays:

1BA025

Impact of delays will be mainly in delaying completion of the milstones. In the case of Task 36 of ROAP 21 AIS, it will delay the starting date of Task 69.

1BA031

Minor grant processing delays which cause concomitant delays in the completion of milestones. The freeze of ROAP 21 AJE will result in delay of milestones being attained in that ROAP. Lack of sufficient manpower in ROAP 21 AJF will impede attainment of goals.

1BA029

Lack of funding and/or the knowledge to what level the program will be funded have impacted ROAP's 25 AJX and 25 AKM. Initial contacts with State Agencies and the National Guard in states west of the Misissippi cannot be made until the funding issue has been resolved. The initial state contacts are the first of a sequence of events which must occur before the program can begin in a given state. As a consequence, the program is now three months behind in the western states. Further delays will jeopardize the timely completion of 25 AJX.

1BA032 and 1BB392

The "frozen funds" delayed acquisition of COFA's necessary for submission of grant and RFP packages, thus resulting in a delay in ROAP milestones.

1BB037

Any delays in the program will prevent the development of technology necessary to meet the legislated deadline of zero discharge of pollutants by 1985.

II. Issues:

1BA025

None

1BA031

Sufficient resources are not available to carry out full-scale lake restoration demonstrations. Research is brought through the laboratory and pilot-scale level, but then stymied by lack of funds for full-scale demonstration.

1BA029

The manner in which the program outputs will be used by the Office of Air and Water Programs remains unresolved.

1BA032 and 1BB392

None

1BB037

During the first quarter of FY 74 more than one-half of the staff time and resources were spent in technical assistance to the Effluent Guidelines Division preventing supervision of ongoing grant projects. This technical assistance is expected to taper off in the future,

CLS

The backlog of analytical work for the Eutrophication Survey Branch (ESB) is building and the buildup is due to personnel losses. Experience in automated analysis is a commodity that is non-available in people at the technician and entrance professional categorie. Our losses (Wiley, Eckerle, Bowers, Pengally, Allen, Reed, Webster, Maier and Nedberge) are causing us problems. There is little that can be done with losses of temporaries and the loss of Wiley (a full-time permanent) must be expected. We just don't have the permanent resources to get the job done. If decisions are made to complete the ESB study, we will have to go to the Agency and the Civil Service Commission to acquire term appointments for the period of the study.

A similar situation has surfaced in the computer section in a buildup of requests for assistance and our lack of ability to respond. Here, the problem is complicated because of meeting variable NERC needs which are usually a high priority item.

III. Accomplishments:

1BA025

Instruments implanted in N. Y. Bight in June were retrieved. The data, tidal heights 20-80 miles offshore, are the first of their kind and will be used as part of the verification for our large scale numerical model of the Bight. NOAA personnel are presently analyzing the reduced records for harmonic constituents.

1BA031

ROAP 21 AIY. Completed third year of field studies at Diamond Lake, Oregon, to evaluate the effect of diversion of lodge and campground wastes on the trophic condition of the lake. Completed preliminary screening of potential nutrient inactivants for efficiency of nutrient removal. Completed bioassays for chronic effects of zirconium on Daphnia. Completed all developmental work on laboratory sediment-water systems for inactivation longevity experiments. Prepared for partitioning Cline's Pond No. 1, a requirement for pilot field inactivation tests. Conducted biological monitoring of pond.

ROAP 21AJA. A mathematical model relating algal growth to incident solar radiation and concentration of available nitrogen and phosphorus was written and tested. The results were presented at the workshop "Modeling the Eutrophication Process" held September 5-7, 1973, at Utah State University. The workshop was cc_sponsored by the National Eutrophication Research Program and the Department of Environmental Engineering, Utah State University.

1BA029

The year's tributary sampling program ended in Vermont, Rhode Island, New Hampshire, Massachusetts, Maine, Wisconsin, and Connecticut during the past quarter, and data interpretation and report writing was started. Preliminary reports were prepared for Green Lake (Wisconsin), Barton Lake (michigan), Saratoga Lake (New York, Jackson Lake (Georgia), Clyde Pond (Vermont), Waterbury Reservoir (Vermont), and Harriman Reservoir (Vermont). The remaining Vermont reports are nearing completion.

Drainage and land use areas were delineated and measured for 62 CY 1972 lakes selected for land use - nutrient runoff study in Minnesota, New York, Vermont, and Wisconsin. Preliminary graphs relating nutrient concentrations in surface water to land use were prepared for the drainage areas of the 62 lakes.

1BA032 and 1BB392

In 1BA032 the transfer of EIS review responsibility to the Regional Offices required significant effort for this program element (as well as 1BB392). A report entitled "Reviewing Environmental Impact Statements - Power Plant Cooling Systems, Engineering Aspects" was prepared. This report provides technical information for implementing EIS reviews. Also, program personnel participated in a Thermal Pollution Workshop in Atlanta (August 6-9) where the report was a primary text.

In 1BB392 significant progress was made on two fronts relating to cooling tower blowdown:

- 1. A mathematical model was developed to predict residual chlorine concentrations in cooling tower blowdown under various design configurations and operating modes.
- 2. An accurate method was developed to predict residual chlorine concentrations in brackish water characteristic of cooling tower blowdown was developed.

1BB037

Eleven reports were published during the quarter on completed grant projects.

CLS

In this quarter 54,000 analyses were reported.

Two papers, one on preservation of wastewater and one on adsorption of orthophosphate were prepared and distributed to reviewers.

Analytical Quality Control studies were continuing among Las Vegas, CLS, Ely, and NERP laboratories.

IV. Administrative/Management Problems

1BA031

Because of the temporary aspects of the Shagawa Lake Project and the site location, there has been, and there will likely continue, a high turnover rate of employees. If each successive personnel replacement must be hired at one grade level less than the preceding grade position level, it will become impossible to obtain technically qualified personnel. The three year term appointments for the project were originally established at a minimum level of GS 4/5.

a minimum level of GS 4/5.

1BA029

The major problem is the uncertainty caused by lack of funding and/or a firm knowledge of the exact level of funding. Decisions relevant to program operation cannot be made until the funding level is established.

NATIONAL ECOLOGICAL RESEARCH LABORATORY

Quarterly Status Report, 1st Quarter, FY 74

I. <u>Impact of Delays</u>:

1AA006

In general the specific program delays are covered in the quarterly ROAP status reports which are attached, but there are certain basic delays which (should be especially mentioned) must be addressed if NERL is to realize its full potential. First of all, the largest problem we face in the intermediate future concerns the availability of a facility to conduct controlled environmental research. ROAP 21 ALR is the ROAP most affected by this delay. As the time for vacating the ARS Ornamental facility draws nearer, it becomes less and less worthwhile to build or otherwise begin to develop programs in that facility. However, without a clear idea of where the greenhouse/lab work will reside after December 1975, it is almost impossible to make programmatic plans. ROAP 21 ALS has only one delay, the awarding of a grant under Task 07. The immediate impact of this delay is that the grantee may not be able to continue his research. Under ROAP 21 ALU the largest problem concerns the delay in funding of those extramural tasks which have been held on the carry over funding list since the beginning of the fiscal year. This has resulted in difficulty in timing or phasing of other parts of the program (interagency agreements with other agencies, in-house research) and may result in a delay of several months in bringing the program back into a coordinated perspective. ROAP 21 BBK is experiencing delays which are of potentially minimal impact. Task 04 the greenhouse salt air studies have been delayed because we are unable to fund a contract or grant with the Boyce Thompson Institute to use their aerosol exposure chambers. This will result in a delay in the greenhouse salt effects study by several months. The second delay concerns the awarding of a grant or contract to look at the usefullness of ecosystem measurement for predicting environmental stress. This delay will have minimal impact since it simply means that the time by which we can complete ROAP 21 BBK will be delayed by two to three months. Additional impacts are anticipated, but cannot be clearly specified at this time. In general, delays in acquiring facilities and new resources for achieving a broad mission will delay somewhat the realization of a comprehensive in-house capability for ecological research.

II. Issues:

There still remains two major issues which require action of higher authority within OR&D. The first issue concerns NERL's mission and scope, the second concerns the availability of a permanent facility.

Although some progress has been achieved for acceptance of a broader mission with the formalization and acceptance of our organizational plan for the entire NERC, a final resolution of this issue can only be realized with continued awareness and support at the NERC level and also at the Headquarters level. With respect to space, some of our problems have been resolved through provision of laboratory space in the main NERC building and the acquisition of modular office space.

III. Accomplishments:

The major accomplishments of the preceding quarter are eight publications in print and achievement of a fully functional program once again. Oregon State University farm site has been made fully operative and the ARS Ornamental Facility space is being utilized effectively pending the installation of portable exposure chambers.

IV. Administrative/Management Problems:

While there have been few management difficulties in the past quarter, there are invariably some routine problems which involve NERL, PNERL and NERC. However, these difficulties are being resolved and we anticipate no serious problems in the future.

During the past quarter we have experienced some management difficulty with the cooperative research program administered by the Agricultural Research Service administered at North Carolina State University. However, at this time our management difficulties appear to be minimal and with continued assistance from Headquarters personnel the problem should resolve itself in the near future.

SOUTHEAST ENVIRONMENTAL RESEARCH LABORATORY

Quarterly Status Report, 1st Quarter, FY 74

I. Impact of Delays:

1BA023

Delay in 21 AIL 07 causes proportionate delay in testing and verifying pollutant fate models. Delay in formalizing IAG for 21 AIL 14 is inconsequential since work has started and is continuing. Delays in 21 AIM cause proportionate delays in development of mercury and malathion models, and supplying information on soil pesticide degradation to OPP. Impact of delay in 22 AEC is unknown.

1BA027

Delay in O7 ABL is tolerable to associated research at Ada. Delays in 16 ADN 37 caused by manpower diversion to write report will likely enhance EPA's ability to identify organic pollutants in water.

1BA036

Delays in 21 AZT will delay development of control technology for dyeing operations in textile industry. Delays in 21 AZR will delay development of control technology for some segments of agricultural chemicals industry; achievement of EROS will be adversely affected if delays in SRO's (highlighted below) are not resolved.

1BB039

Delays in 21 AYP affect mainly subsequent tasks in this ROAP. Major delay is highlighted as an issue below. Delays in some tasks, e.g. 15, will not adversely affect probability of meeting milestone. In 21 AYP 23, delay by ARS cooperator in delivering acceptable data and report has delayed tasks 11 and 12 and has caused SERL manpower to be diverted from scheduled tasks. Delay in 21 AYU 02 funding will delay completion.

II. Issues:

A decision is needed on strategy of research on agricultural runoff (1BB039). Revision of plans for 21 AYP during this quarter in cooperation with PAM has shown a cost of \$990K and at least two years time could be saved in meeting EROS by FY 80 if effort on nutrient runoff starts in FY 74 "piggy backed" with pesticide runoff studies. Issue will

be presented to AARD in NPS Program Area Review postponed once. Affirmative decision will require additional resources in FT 74; PAM is prepared to help solve problem. NERC Director should act to expedite decision if next growing season is to be used effectively.

SRO's submitted (and apparently approved) for 1BBO39 21 AYP 29, 1BBO36 21 AZR 14, 1BBO36 21 AZR 14, and 1BBO36 21 AZR 16 remain in limbo. Response from recipients has not been sufficient to judge task efforts, which must be assumed to be out of control. Procedure for managing SRO's is unsatisfactory for researcher needing SRO results for successful ROAP. Concept should be abandoned or better procedure developed to insure timely satisfactory response.

A familiar, but still unresolved issue is the additional resources for operating AEcoS in FY 74. Six months' operation starting 1 Jan 74 will require \$180K more than FY 74 program plan designates for 1BA023. Indecision in ORD Hq is further adversely impacting SERL morale. Recent loss of two key professionals, directly attributable to this situation, will likely be followed soon by a third unless a decision is forthcoming. A decision in Jan 74 to operate the AEcoS will be so late that a virtually new operating team will have to be trained and no experiments can be run until FY 75.

III. Accomplishments

<u>1BA023 - 21 AIL 06 - A sub-model describing the relationship between biological growth rates and temperature was developed.</u> When values were estimated for its parameters, the model was found to describe emperical data well in all cases tested. The model was incorporated into the aquatic ecosystem model developed to describe phytoplankton populations and a simplified water chemistry.

The effect of including chemical equilibrium expressions in the preliminary ecosystem model was studied. A computer simulation showed reduced growth rates during algal blooms when high inorganic carbon utilization rates cause the pH to increase. Further computer simulations were run incorporating six algal species that differed in nutrient uptake mechanisms and optimal growth temperatures. Four separate and irregular bloom patterns that frequently occur in natural waters.

<u>IBAO27 - 07 ABL 02 and 03 - Completion of all qualitative analyses of sixteen samples from two unbleached Kraft papermill wastewaters has yielded 65 specific identifications of compounds in both mill effluents. Many of the same compounds were present in both effluents. Thirty-eight of the 65 identifications have been confirmed. Other compounds have been identified as to chemical class.</u>

Each specific compound or class identification was assigned a number and correlated with its respective GC peak in each of the 16 effluent extracts. This provides a chemical profile that shows the effect of treatment in the composition of the effluent.

<u>IBA027 - 16 ADB 25 - Under a grant to Cornell University, a computer program is being developed for pollutant identification when the desired reference spectrum is not available. Twenty-five thousnad (25,000) mass spectra were reviwed for inclusion in the spectra library. Coding for the Cornell PDP 11/45 computer was completed and trial runs were made. Sixty seconds are required to perform a complete search of the twenty-four thousand spectra file.</u>

IV. Administrative/Management Problems:

The cavalier treatment of grantees scheduled for continued funding creates ill will toward EPA and diminishes research productivity. Delays in funding notifications for 3-4 months are not unusual and cause continuing grant projects to be disrupted, loosing staff and data. Short-notice terminations because of lack of funds in FY 74 and failure to meet commitments to grantees, made in good faith by Project Officers, for funding essential grants have eliminated crucial final year's work and final reports, resulting in nearly complete loss of return on public's investment. Best efforts of laboratory Project Officers to avert situation are unsuccessful under present system for managing ORD programs.

GULF BREEZE ENVIRONMENTAL RESEARCH LABORATORY

Quarterly Status Report, 1st Quarter

I. Impact of Delays:

1B1077

Nothing to report.

II. Issues:

The need for better communication between NERC Laboratories and Headquarter Offices dealing with toxic substances was emphasized this quarter. Recommendations for appropriate action have been made.

III. Accomplishments:

A highlight this quarter was the visit to our laboratory by Mr. Russell E. Train and members of his staff. Mr. Train was genuinely interested in our research activities and those of NERC-Corvallis as a whole. Mr. Train stated to newsmen that one of his primary concerns was that the criteria promulgated by EPA be sound scientifically and that the public be made aware and fully informed of the need for these criteria.

IV. Administrative/Management Problems

Two key employees, our purchasing and personnel clerks, terminated in order to take positions with the Navy. We are having difficulties replacing the personnel clerk under the constraints of hiring at a grade level lower than the vacated position. The same difficulties are involved in our search for a systems ecologist.

Our time and resources expended on technical services this quarter exceeded our estimation but appears to be returning to normal.

NATIONAL WATER QUALITY LABORATORY

Quarterly Status Report, 1st Quarter FY 74

I. Impact of Delays:

1BA021

We are not behind on any milestones at the present time except those caused by delays in contracts, etc., which are beyond our control. We are, however, running behind on some Tasks even though we haven't gotten behind on milestones, as yet and we are anticipating a reprogramming action in October to correct these. Most of them result from increased time requirements to complete present Tasks over and above what we anticipated and in some cases technical delays have caused the slippage due to disease of test animals, etc.

II. Issues:

I wanted to call to your attention the bar charts which we have prepared on our ROAPs for each Task and which I think are extremely useful tools in quickly assessing when milestones of various types are to be expected. I can scan these and in one or two minutes, tell how many interim and final reports are due in any given month.

Our input on the Reserve Mining case has dwindled to the lowest in several years, now, and apart from Phil Cook who is spending full time at the trial, we are relatively little engaged in the Reserve Mining activity.

III. Accomplishments:

The tempo of activity connected with decisions on the new Water Bill and meeting the legislative deadlines has picked up considerably in the last few weeks and a number of our staff members are spending a substantial amount of time helping to make some very critical decisions for the Agency.

IV. Administrative/Management Problems:

Our biggest problem and diversion of effort on the horizon is the necessary work which we must do to evaluate the effects of asbestos in our test water supply on our past research work. We have started the planning meetings to develop this work and are seeking the help of some universities in doing so. We anticipate that we will need to buy some rather expensive equipment in order to complete the work. I have discussed this equipment purchase with our PAM, with Gordon Everett, and with Gordon Robeck in Cincinnati, and they are all agreed that we should have the equipment, anyway, in order to supplement the Agency's capabilities in this area of analysis and discussions with Gordon Robeck just today

indicated that he is anxious to see us get it because they may have to do pilot work on water filtration systems for the City of Duluth and this would give them added capability. We had money in our in-house budget this year for equipping the Newtown Laboratory and some additional equipment at Jerry Bouck's lab and it would appear that the building at Newtown will not be done in time to use the money this year, so we may well be able to swing the costs pretty much without any additional clammering for funds within our own budget.

ARCTIC ENVIRONMENTAL RESEARCH LABORATORY

Quarterly Status Report, 1st Quarter FY 74

I. Impact of Delays:

<u>1BA022</u> - 21ARY

The two-month delay is not significant and will not delay related tasks in the ROAP.

1BA021 - 21ARX

This delay will affect the completion of the task if the required manpower is not obtained.

1BB044 - 21ASG

The delay in task 4 is not significant. Task 5 may not be completed in FY 74; however, this effort could be accomplished early in FY 75 without affecting the completion of the ROAP. In <u>21ASF</u> the delay has caused an unplanned use of in-house funds to cover extramural activities. This will likely necessitate a reprogramming of funds within the ROAP. The evaluation of the facilities will not be affected by the delay.

II. Issues:

The major issue still unresolved concerns the \$150,000 addition to the approved ROAP's, including the air pollution research program, at the Laboratory. The bulk of this money (\$105,000) is for the air program which has high priority in the Region and is of major concern in Alaska. This is a program decision that must be made between NERC and Headquarters.

A second issue is the chronic overceiling problem at the Laboratory. A recommendation concerning this issue was the subject of a separate communication (Oct 1, 73). Until this problem is resolved, the Laboratory program will continue to suffer from poor personnel and position management.

A third issue involves the question of whether to undertake a "third project" this fiscal year under ROAP # 21ASF, Task No. 6. A complete evaluation of this issue has not been made as yet and will be the subject of a separate communication with recommendations and alternatives.

III. Accomplishments:

The Laboratory staff completed seven research reports and papers during the quarter. This writing and publication effort represents the largest such effort in any one quarter at the Laboratory.

Three of the reports deal with cold climate disinfection and cover research completed during FY 72-73. This research indicates that effective treated wastewater disinfection can be achieved at <4°C under proper conditions. However, these conditions are not commonly found in wastewater treatment systems and no assessment has been made on the effect of this disinfection on arctic and subarctic aquatic life.

The air pollution research team completed a very successful first year. Two projects were undertaken and completed. The report "Cold Regions Automotive Emissions" covered the results of cold temperatures commonly found in the subarctic on CO and HC emissions. It outlined the problems faced in cold regions vehicle emission control, surveyed the problem on the most practical level, and pointed out ways in which the problem might be solved. The second project evaluated the use of ambient cold air to condense water vapor from stack emissions thereby preventing ice fog. This concept proved effective and could have significant applications in cold climates.

IV. Administrative/Management Problems

The Laboratory continues to operate without adequate clerical help. A summer temporary clerk-typist provided sufficient help to complete a number of important research reports and papers this past summer. However, we still have seven more reports in various stages of typing with no one to do the job. We have discussed the possibility of a temporary clerk-typist with Mike Hebert and Art Sandoval during their respective visits to the Laboratory. Even though this is not a final solution, it may see us through a period of heavy work load.

EPA Headquarters has not completed a lease agreement for space occupancy with the University of Alaska for the Laboratory. The problem of program support heretofore covered by the AERL-AHSRC Contract was discussed in a separate memo (October 1, 1973). This problem needs resolution by NERC and Headquarters.

The visit of NERC Administrative personnel to the Laboratory during September was very beneficial. Their assistance in budget-finance, procurement and property management will smooth out many of the problems we have experienced in the past.

Parter 1

ROBERT S. KERR ENVIRONMENTAL RESEARCH LABORATORY

Quarterly Status Report, 1st Quarter FY 74

I. Impact of Delays:

1BB024 1BB036 1BB045

1BB039 1BB040

We are still suffering from impacts produced by the diversion of manpower to the effluent guideline studies, task forces, and committee assignments of other areas. Providing there are no new crashes and there is a timely release of funding dollars for extramural projects, I am optimistic of accomplishing our assigned tasks within the time frame listed.

II. Issues:

Participation in lagoon upgrading task force committee with deadlines occurring monthly through January 1974. Task force resulted from request of Air & Water Program need for guidance and established with Mr. Trakowski's concurrence.

Participation in task force established by the Non-Point Source Program (1B2039) and Industrial Waste Program (1B2036).

Continued participation in the effluent guideline activities. These efforts by our staff seem to be about phased out.

Participation in the technical study committee for salinity production in the Colorado River Basin and directly the result of President Nixon's efforts to satisfy Mexico's needs.

Participation of one member of our staff in the SCOPE activities. These meetings occurring in Europe, are going to impact the dollar resources of the program. This participation will result in costs of approximately six thousand dollars which were not included in our budget planning.

III. Accomplishments:

A national feedlot conference was successfully achieved. There are still many complimentary comments being received. Mr. Russell Train expressed disappointment to me at not being there.

Mr. Russell Train visited the laboratory on September 24, 1973.

A number of reports which were behind schedule have been sent to the GPO.

IV. Administrative/Management Problems:

There are no serious Administrative/Management problems to report at this time.

Missing Control Property Contents

Corvelles, Oregon 01330

PART III

ROAP STATUS REPORTS

1 Program Element 1AA006	2 Rosp No 21 ALR		entific Basis for ont.of Other Pollut	4.Date	5 Page No
	7. No. Tasks Completed		10. No Completed CFY		12
13 Program Chief L.C. Raniere		14.Roap Manager L.C. Raniere	15		

16 TASKS DELAYED

Task No	Brief	Description	months delayed	original target	proposed target	Reason	Recommended Action	By Whom
06	Acute and	chronic studies in greenhouse	8	7/1/73	2/1/74	AD	Proceeding with related studies not requiring gas exposure chambers	Branch Ch.
80	Pollutant	mixture studies in greenhouse	8	7/1/73	2/1/74	AD	u u	n
09	Environmer	ntal stress studies (inhouse)	2	7/1/73	7/1/75	0-Function Transfer	•	НQ
10	Mechanisms	of action studies	8	7/1/73	2/1/74	AD	Proceeding with related studi not requiring gas exposure chambers.	es Br. Ch.
22	Uptake and and heavy	l transport of trace elements metals	8	7/1/73	2/1/74	AD	Develop cooperative work at OSU	Branch Ch.
24		funds to USDA, ARS, No. State University	2	9/1/73	11/1/73	AG - Negot.	Expedite	HQ

17 REMARKS.
Need firm commitment and target date for new ecological research facility.

REASON FOR DELAY CODE

FUNDING -- F

FF - Funds Frozen

FI - Funding Insufficient

FD - Funds Diverted (specify)

FL - Funds Late (Example delay in advice of allowance)

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ADMINISTRATIVE - A

AD - Equipment Delays

AF = Equipment Failure
AG = Grant/Contract Delay (specify)

AO - Other Administrative (specify) AP - Personne I Problems (specify)

STAFFING - OTHER -- D/O

- DA Diversion of Staff for Technical Assistance
- DO Diversion of Staff for Other Than Technical Assistance (specify)
- O- Other (specify)

1 Program Element 1AA006	'2 Rosp No. 21 ALS	Disturbed Ed	Impact Upon Sele Cosystems		4. Date 10/5/73	5.Page No
6. Total Tasks in Roaps 5	7. No. Tasks Completed	8.No.Active Tasks	9. No. on Schedule 4	10.No.Completed CFY	11, No. Delayed	12.
13. Program Chief Vacant		14. Roap Manager R. Wilhour		15.		

TASKS DELAYED

						<u> </u>	
Task No	Brief Description	months delayed	original target	proposed target	Reason	Recommended Action	By Whom
07	Photochemical Oxidants on Woody Vegetation.	2	7/1/73	Immed.		Reissue COFA and release funds.	HQ

17 REMARKS: This is a grant continuation. As such, the delay has placed the principal investigator in an emergency situation. Neither salary nor operating money is available; therefore, it's essential that immediate action be taken if we intend to continue this grant.

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STAFFING - OTHER -- - D/O

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O- Other (specify)

1. Program Element 1 AA006	'2 Roap No. 21 ALU	Air Pollutio	redictive Modeli on on Ecosystems	<u> </u>	1 10/5/73	5.Page No
6. Total Tasks in Roaps	7. No. Tasks Completed	8. No. Active Tasks	9. No. on Schedule	10. No Completed CFY	11. No. Delayed	1 2.
38	2	16	12	3	4	1
13 Program Chief A.S. Lefohn		14. Roap Manager A.S. I	Lefohn	15.		

16 TASKS DELAYED

							Γ
Task No	Brief Description	months delayed		Proposed target	Reason	Recommended Action	By Whom
26	Biological Scavenging of Air Pdlutants	4	6/1/73	10/73	FF	Has been taken off carryover list	
28	IAG with ARS, Ft. Collins for purposes of assessing effects of coal-fired power plants (CFPP) on ecosystems.	7	9/1/73	1/74	0	Delay until CFPP protocol developed.	
30	Grant to NCSU Ag. Experiment Sta.	3	7/1/73	1/74	AG	Complete interagency agree- ment with ARS	NERL/HQ
27	Grant to Wichita State University to study effects of coal-fired power plant on ecosystems.	2	6/1/73	8/73	FF	Has been taken off carryover list.	

17.REMARKS. The delay in funding task 26 has resulted in a phasing problem between the inhouse and extramural soil research program. Immediate action has been taken to remedy the situation. It is expected the earliest both components of the program will get back on schedule together will be March 1974.

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STAFFING - OTHER -- D/O

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- DO- Diversion of Staff for Other Than
- Technical Assistance (specify)
- O- Other (specify)

1.Program Element 1AA006	2.Roap No. 21 BBK	3. Roap Title Me cal Effects	eas. of Ecosyste of Salt Water [ms Response & Ecolo Prift.	og 4- Date 10/5/73	5.Page No
	7. No. Tasks Completed	8.No.Active Tasks	9. No. on Schedule 4	10. No.Completed CFY	11. No. Delayed	1 2.
13. Program Chief L.C. Raniere		14.Roap Manager I. Hindawi		15.		

TASKS DELAYED

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Task No	Brief	Description	months delayed		proposed target	Reason	Recommended Action	By Whom
04	Greenhouse	salt aerosol studies	5	9/1/73	3/1/74	AD	Awaiting support from Boyce Thompson	
06	Determine e	ecosystems response to change	2	8/31/73		AG- Selection of Contrac		Program Ch

17 REMARKS

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Program Element	'2 Roap No.	3. Roap Title 1	olerance Limits	of Ammonia for	4. Date	5.Page No.
			quatic Life			
· Total Tasks in Roaps	7. No. Tasks Completed	8.No.Active Tasks	9. No. on Schedule	10. No.Completed CFY	11. No. Delayed	12.
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3. Program Chief		14. Roap Manager		15,		
Donald I. Mount,	Ph.D.	Kenneth	E. F. Hokanson.	Ph.D.		

16. TASKS DELAYED

Task No.	Brief Description	months delayed		proposed turget	Reason	Recommended Action	By Whom
1	Determine Tolerance Limits of Ammonia for Aquatic Life	6	12/73	11/74	0	Because of delay in construction of testing facility, a year in the life cycle was lost and nothing can be done to regain the year. An extension without additional funds was granted by the Project Officer.	Project .Officer

17. REMARKS 0 - Building to perform bioassays was completed 6 months behind schedule.

REASON FOR DELAY CODE

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0- Other (specify)

QUARTERLY ROAP STATUS REPORT 5.Page No. 4. Date 3. Roap Title Effects of Heavy Metals Upon 1. Program Element 1BA021 2. Roap No. 10-1-73 1 01 1 1BAUZI TOTAL 11, No. Delayed 1 2. 15. 13. Program Chief 14. Roap Manager Kenneth E. Biesinger, Ph.D. Donald I. Mount, Ph.D. TASKS DELAYED 16. months original proposed Recommended Action By Whom Reason Task No. Brief Description delayed target target

17. REMARKS:

REASON FOR DELAY CODE

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11 0 13 Program Chie! Donald I. Mount, Ph.D.	9 14. Roap Mar John	rager W. Art	9 hur		0 15.		0	
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,		QU	ARTERLY	YR	DAP	STAT	US RE	PO	T		
1.Program 1BA021		2.Roap No. 16AAI	3. Roap Title						10-1-12	5.Page No	of_1
6. Total Ta		7. No. Tasks Completed	8.No.Active Tas	ks 9.N	o, on Sched 8	ule 10.N	O.Complete	d CFV	11. No. Delayed O	¹ 1 2.	
13 Progra Donald	m Chief I. Mount,		14.Roap Mana James	ger M. Mcl	Kim, Ph.).	15.				
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17. REMARKS

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Technical Assistance (specify)

	QUARTER	LY ROAP	STATUS F	REPORT	
1 Program Element '2.Ro		itle Short-Cut l	Methods to Determ		5.Page No.
6. Total Tasks in Roaps 7. No. T	0 6	6	0	0	'1 2.
13 Program Chief Donald I. Mount, Ph.D.		mes M. McKim, Pl	1.D.	5.	
Task No. Brief Desc		Months origin	al proposed Reaso	- December ded Assis	By Whom
Task No. Brief Desc	cription	delayed targe		n Recommended Action	by Whom
17. REMARKS:					

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QUARTERLY ROAP STATUS REPORT 1.Program Element '2.Roap No. 16AAV |3.Roap Title Effect of Synthetic Hazardous Organic Date |5.Page No. 2.Rosp No. 16AAK 1BAO21 in the Freshwater Environment 10-1-7 total Tasks in Roaps | 7. No. Tasks Completed | 8. No. Active Tasks | 9. No. on Schedule | 10. No. Completed CFY | 11. No. Delayed 0 15 13. Program Chief 14. Roap Manager 15. Donald I Mount Ph D John G. Eaton TASKS DELAYED months original proposed Task No. Brief Description Recommended Action By Whom Reason target larget delayed

17. REMARKS:

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1 Program Element 1BA021 6 Total Tasks in Roap 18 13. Program Chief	'2.Rosp No. 16AAO s 7. No. Tasks Completed	3. Roap Title 8. No. Active Task 7 14. Roap Manag	5 9. No				4. Date 10-1-73 d CFY 11. No. Delayed 0	5.Page No l o1 _ l 1 2.
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17. REMARKS:

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QUARTERLY ROAP STATUS REPORT AND AND AND THE PROPERTY OF TH 2.Roap No. 21AKG 3. Roap Title Effects of Air Supersaturation on 4. Date 5.Page No. 1. Program Element 1BA021 10-1-73 ___1___01__1____ 6. Total Tasks in Roaps 7. No. Tasks Completed 8. No. Active Tasks 9. No. on Schedule 10: No. Completed CFY 11. No. Delayed **'1 2.** 8 0 14. Rosp Manager Gerald R. Bouck, Ph.D. 13 Program Chief Donald I. Mount, Ph.D. 15.

16. TASKS DELAYED

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17. REMARKS:

REASON FOR DELAY CODE

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- DO Diversion of Staff for Other Than Technical Assistance (specify) O - Other (specify)

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17. REMARKS

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6. Total Tas	ks in Roaps	7. No.Tasks Completed	3		3	ule lo.k	O.Complete	d CFV	11. No. Delayed 0	12.	
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			16. TAS	KS DE	LAYED						
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17 REMARKS:

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- Technical Assistance (specify)

 O- Other (specify)

1 Program Element 1 BAO21	'2 Roap No 21ARX	3. Roap Title E	ffects of Man on reshwater Ecosys	4 Date 10/05/73	5.Page No	
6. Total Tasks in Roaps	7. No Tasks Completed			10. No.Completed CFY		12
13. Program Chief Rich	ard W. Latimer	14 Roap Manager	Ernst W. Muell	er 15		

16 TASKS DELAYED

Task No	8rief Description	months delayed		proposed target	Reason	Recommended Action	By Whom
06	Effects of Low D.O. and Low Tempera- tures on Arctic Biota	2	07/76-		0*	Hire temporary technician to complete FY 1974 portion of task	Lab.Dir. NERC

17 REMARKS. *Biological Laboratory Technician working on this task terminated employment in August 1973.

REASON FOR DELAY CODE

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FL - Funds Late (Example delay (

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ADMINISTRATIVE - A

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STAFFING - OTHER -- D/O

- DA Diversion of Staff for Technical Assistance
- DO Diversion of Staff for Other Than Technical Assistance (specify)

1 Program Element 2 Roap No 21ASA	3 Rosp Title Effects of 0	il on Arctic Fre	shwater	10/05/73	5.Page No
4 Completed	3	No. on Schedule	0. No.Complete	d CFY 11 No Delayed	12
13. Program Chief Richard W. Latimer	14 Roap Manager	Ernst W. Muell	er 15		
	16. TASKS	DELAYED			
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17 REMARKS					

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13. Program Chief		14. Roap Manager		15.	<u> </u>	<u> </u>
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1 Program Element	'2 Roap No	3 Ross Title Ed	ffoots of From C	hlorine and Chlor-	4. Date	5 Page No

16 TASKS DELAYED

Task No	Brief	Description	months delayed	original target	proposed target	Reason	Recommended Action	By Whom
09	Effects of effluents	chlorinated waste treatment		10/1/73 ⁻	1/1/74	FF	Release Funds	но

17 REMARKS:

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DO - Diversion of Staff for Other Than Technical Assistance (specify)

1 Program 1BA022		2 Rosp No. 16 AAT	3.Roap Tit Protect E	le Crit stuarin	eria for e and Ma	Heavy M	etals to e lo Complete	4. Date 10/9/73	5.Page No	11
	sks in Roaps 14	7. No. Tasks Compl		sks 9 N	_	ule 10.N		d CFY 11 No. Delayed	1 2.	
13. Progra		: 4	14. Roap Man	ager	6		0 15.			
			16. TASI	S DE	LAYED	•	-			
Task No	Brief	Description		months delayed		proposed target	Reason	Recommended Action		By Whom
				<u> </u>						

17. REMARKS

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AP - Personne i Problems (specify)

STAFFING - OTHER -- D/O

DA - Diversion of Staff for Technical Assistance

DO- Diversion of Staff for Other Than

Technical Assistance (specify)

1 Program Element 1BA022	'2 Roap No 16 AAV	persants, and	petrochemical	eum, oils, oil dis wastes on marine l	Ifa 10/0/72	5.Page No
6 Total Tasks in Roaps 6	7. No. Tasks Completed	8.No.Active Tasks	9. No. on Schedule 5	10.No Completed CFY	11. No. Delayed	12
Dr. Eric D. Schneid	er	Dr. D. K. Phe	lps	15.		

16 TASKS DELAYED

Task No	Brief	Description	months delayed	original target	proposed target	Reason	Recommended Action	By Whom
12		bioassays of	 delayed	target 6/30/74	target		Complete wet lab	Lab Dir.

17. REMARKS

Task 12 delayed because of concentration of manpower into task 17, waste oils. We also had no suitable facility to run continuous exposures of ballast effluent. Project will recommence on completion of waste oils task.

REASON FOR DELAY CODE

FUNDING -- F

FF - Funds Frozen

FI - Funding Insufficient

FD - Funds Diverted (specify)

FL - Funds Late (Example delay in advice of allowance)

ADMINISTRATIVE - A

AD - Equipment Delays

AF - Equipment Failure

AG - Grant/Contract Delay (specify)

AO - Other Administrative (specify)
AP - Personne | Problems (specify)

- DA Diversion of Staff for Technical Assistance
- DO Diversion of Staff for Other Than Technical Assistance (specify)
- 0- Other (specify)

1.Program Element 1BA022	2 Roap No	3 Roap Title E	cological Requir	ements Essential f	or 4. Date	5.Page No
	21 AKF	the Protecti	on of Estuarine	and Marine Life	10/9/73	
6 Total Tasks in Roaps	7 No Tasks Completed	8.No. Active Tasks	9. No. on Schedule	10. No Completed CFY	11. No. Delayed	12.
46	<u>'</u>	28	24	l o	4	1
13. Program Chief Dr. Eric D. Schne		14. Roap Manager		15.		
Dr. Eric D. Schn	eider	מ	r. D. K. Phelms			

16. TASKS DELAYED

		, 		,			
Task No.	Brief Description	months delayed	original target	proposed target	Reason	Recommended Action	By Whom
04	West Coast polychate culture	?	11/19/73		FF	Release funds	НQ
29	Sublethal effects, corals	?	10/11/73		FF	Release funds	НQ
30	Temperature standards	2	6/30/74	8/30/74	AD	Complete wet lab	Lab. Dir.
32	Salinity standards	2	6/30/74	8/30/74	AD	11 11	Lab. Dir.
		:					:
						L	

17 REMARKS.

Task 34: Objectives of this task will be met by transferring support to 21 BBG, Task 05.

Tasks 03,04,29: Delays proportional to duration of freeze.

REASON FOR DELAY CODE

FUNDING -- F ADMINISTRATIVE - A FF - Funds Frozen FI - Funding Insufficient FD - Funds Diverted (specify) FL - Funds Late (Example delay in advice of allowance) AD - Equipment Delays AF - Equipment Failure AG - Grant/Contract Delay (specify) AO - Other Administrative (specify) AP - Personnel Problems (specify)

- DA Diversion of Staff for Technical Assistance
- DO Diversion of Staff for Other Than Technical Assistance (specify)
- O- Other (specify)

1. Program	Element	'2 Roap No.					es for Wate	er 4.Date	5 Page No
1BA022	4	21 AKK	Onality pleted 8.No. Active T	Criteria	Develop	ment	O.Completed	10/9/73 d CFY 11 No. Delayed	12
18	ъкз іп ноар:	s 17. No Tasks Com	PIGIEU G.NO. ACTIVE 1	apro J.K				•	' <
	01:	. 0	14 8222 222		5		0 15.	2	
13 Progra	im Chief ic D. Schr	ander	14. Roap Mai	nager K. Phel	ne		13.		
DE BE.	ic v. sem	161061							
			16. TAS	KS DE	LAYED				
Task No	Brief	Description		months delayed	original target	proposed target	Reason	Recommended Action	By Whom
14	Bioassay	system, larval	arthropods	1	9/1/73	10/1/73	AG		
17	Toxicity	data file		6	7/1/73 ⁻	1/1/74	A)		
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17 REMARKS

Task 14: Negotiation necessary, no further problem.

Task 17: Coordination with Data Systems and Office of Toxic Substances is required unless scope severely restricted.

REASON FOR DELAY CODE STAFFING - OTHER -- D/O FUNDING -- F ADMINISTRATIVE - A DA - Diversion of Staff for Technical FF - Funds Frozen AD - Equipment Delays Assistance AF - Equipment Failure FI - Funding Insufficient DO- Diversion of Staff for Other Than AG - Grant/Contract Delay (specify) FD - Funds Diverted (specify) Technical Assistance (specify) AO - Other Administrative (specify) FL - Funds Late (Example. delay in O- Other (specify) AP - Personne | Problems (specify) advice of allowance)

1 Program Element 1BA022	, == <i>DDO</i>	ı Dumping	Cological Assess		4. Date 10/9/73	5 Page No
6. Total Tasks in Roaps	7. No Tasks Completed	8.No Active Tasks	No. on Schedule	10. No Completed CFY	11 No Delayed	1 2.
13 Program Chief Dr. Eric D. Schne	eider	14.Roap Manager Dr. D. K. Phe	lps	15		

16 TASKS DELAYED

TRONG DECATED											
Task No	Brief Description	months delayed		proposed target	Reason	Recommended Action	By Whom				
01	Merits of deep ocean and shelf disposal				FF	Release funds	НQ				
02	Leaching from spoils and sludge				FF	ų n	"				
03	Ecological effects of spoils and sludge				FF	" "	11				
04	Bioassay and bioaccumulation	4	9/15/73	1/15/74	AD, DO	Complete wet lab	Lab Dir.				
05	Site monitoring methods	4	9/15/73	1/15/74	AD, DO	" "	"				
06	Biological availability at dump sites				FF	Release funds	но				
}											
Í											
						<u> </u>	<u>. </u>				

17 REMARKS

General: Extramural support is being sought in anticipation of release of funds.

Tasks 04,05: Delays in completion of wet lab facilities and diversion of staff for permit hearings and drafting of regulations contribute equally to delays.

This ROAP is being revised to properly reflect the higher level of effort intended for coming fiscal years. Such revisions have been requested by the PAM and by NERC-Corvallis.

REASON FOR DELAY CODE

FUNDING -- F ADMINISTRATIVE - A FF - Funds Frozen FI - Funding insufficient FD - Funds Diverted (specify) FL - Funds Late (Example delay in advice of allowance) AD - Equipment Delays AF - Equipment Failure AG - Grant/Contract Delay (specify) AO - Other Administrative (specify) AP - Personnel Problems (specify)

- DA Diversion of Staff for Technical Assistance
- DO Diversion of Staff for Other Than Technical Assistance (specify)
- O Other (specify)

1 Program Element	'2 Roap No.	3. Roap Title		4 Date	5.Page No	
1BA022	21ARY	Effects of Mai	an on Arctic Est	10/05/73	} • • • }	
6 Total Tasks in Roaps	7. No Tasks Completed 8	No Active Tasks	9. No. on Schedule	10. No. Completed CFY	11 No. Delayed	12.
5	0	3	2	0	1	1
13 Program Chief Rich	hard W. Latimer	14. Roap Manager	Ernst W. Muelle	15.		

16. TASKS DELAYED

Task No	Brief Description	months delayed	original target	proposed target	Reason	Recommended Action	By Whom
02	Baseline Study of Arctic Estuarine Environment	2	10/73-	12/73	A.G.	Contact Grantee to expedite report	Project Officer

17 REMARKS

REASON FOR DELAY CODE

FUNDING -- F FF - Funds Frozen FI - Funding Insufficient FD - Funds Diverted (specify) FL - Funds Late (Example: delay in advice of allowance) AD - Equipment Delays AF - Equipment Failure AG - Grant/Contract Delay (specify) AO - Other Administrative (specify) AP - Personnel Problems (specify)

- DA Diversion of Staff for Technical Assistance
- DO Diversion of Staff for Other Than Technical Assistance (specify) O - Other (specify)

1 Program 1 BA022		'2 Roap No	21ARZ	Effe	p Title ects of	Oil	on Arct	ic Estua	arine No Completed		4. Date 10/05/73	5.Page No	01
6 Total Tas	sks in Roaps 6	7. No Tasks	Completed	4			o. on Sched 4	luie 10.1	No Completed	d CFY	11. No. Delayed	12.	
13 Progra	m Chief Rich	hard W. Lat		14. Roap	Manager		st W. Mue	ıller	15				
				16 1	TASKS	DEL	AYED						
Task No	8 rie f	Description	D N			nths ayed		proposed target	Reason	Reco	mmended Action		By Whom
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17 REMARKS.

REASON FOR DELAY CODE

FUNDING -- F

- FF Funds Frozen
- FI Funding Insufficient
- FD Funds Diverted (specify)
- FL Funds Late (Example delay in
 - advice of allowance)

ADMINISTRATIVE - A

- AD Equipment Delays
- AF Equipment Failure
- AG Grant/Contract Delay (specify)
- AO Other Administrative (specify)
- AP Personnel Problems (specify)

- DA Diversion of Staff for Technical Assistance
- DO Diversion of Staff for Other Than
- Technical Assistance (specify)
 O = Other (specify)

1 Program Element	'2 Roap No		3. Roap Title			4. Date	5.Page No
1BA023		21 AIL	Dynamics of	Natural Freshwa	ter Ecosystems	12 Oct 73	11
6. Total Tasks in Roaps	7. No. Tasks	Completed	8.No.Active Tasks	9. No. on Schedule	10 No Completed CFY	11. No. Delayed	'1 2.
13	3		5	1 4	l o	! 1	1
13. Program Chief			14 Roap Manager		15		
Dr. W. M. Sanders	<u>. III</u>		Dr. W. M. Sand	ders III			
	-		16. TASKS	DELAYED			- ·· , ————

Task No	8 rief Description	months delayed	originai target	Proposed target	Reason	Recommended Action	By Whom
07	Experimental determination of physical, chemical, and microbial rate constants & their dependency on biotic & abiotic factors	6	6/30/74	12/30/74	0 * FI	Approve over-target resources	AARD

17 REMARKS:

REASON FOR DELAY CODE FUNDING -- F ADMINISTRATIVE - A STAFFING - OTHER -- D/O FF - Funds Frozen DA - Diversion of Staff for Technical AD - Equipment Delays FI - Funding Insufficient AF - Equipment Failure Assistance DO- Diversion of Staff for Other Than FD - Funds Diverted (specify) AG - Grant/Contract Delay (specify) FL - Funds Late (Example delay in AO - Other Administrative (specify) Technical Assistance (specify) advice of allowance) AP - Personnel Problems (specify) O- Other (specify)

^{*} Loss of critical personnel

1 Program Element 1BA023	'2 Roap No. 21 AIM	3. Roap Title Fa	ate & Impact of	Selected Pollutant	s 4 Date 2 Oct 73	5.Page No of1
6. Total Tasks in Rosps 29	7. No. Tasks Completed			10 No Completed CFY	11 No. Delayed	1 2.
13. Program Chief Dr. W. M. Sander	s. III	14. Roap Manager Dr. W. M. Sai	nders, III	15.	<u> </u>	
		16 TACKE	DELAYED			·

16. TASKS DELAYED

Task No.		months delayed	original target	proposed target	Reason	Recommended Action	By Whom
13*	Develop submodel routines for combined chem., photochem., & microbial degradation, degradation rates & product formation.		9/30/74	12/30/7	1 0** FI	Approve over-target resources	AARD
30	Study combined chem, physical & photo- chem & microbial degradation	3	9/1/74	12/1/74	0** FI	Same as Task 13	
32	Grant to conduct research workshop on chemical & photochem degradation of pollutant pesticides in soils	3	1/1/74	4/1/74	FI	Same as Task 13	3
33	Grant to determine chem & photochem degradation kinetics & product formation for selected pesticides on soil.	3	1/30/74	4/30/74	FI	Same as Task 13	

17 REMARKS:

- * Task 13 output should be mercury model, not malathion model.
- ** Loss of critical personnel.

REASON FOR DELAY CODE

FUNDING -- F

- FF- Funds Frozen
- FI Funding Insufficient
- FD Funds Diverted (specify)
- FL Funds Late (Example delay in advice of allowance)

ADMINISTRATIVE - A

- AD Equipment Delays
- AF Equipment Failure
- AG Grant/Contract Delay (specify)
- AO Other Administrative (specify)
- AP Personne | Problems (specify)

- DA Diversion of Staff for Technical Assistance
- DO Diversion of Staff for Other Than Technical Assistance (specify)
- O Other (specify)

Program Element '2 Roap No.	3. Roap Title	Non-point Water	Pollution Source	4. Date	5 Page No
1BA023 22 AEC	<u>l Simulation</u>	Models		13 Oct 73	1
Total Tasks in Roaps 7. No. Tasks Completed	8.No. Active Tasks	9. No. on Schedule	10. No.Completed CFY	11 No. Delayed	12
20	2	1	0	! 1	1
Dr. W. M. Sanders, III	14. Roap Manager Dr. W. M. S	anders, III	15		

16 TASKS DELAYED

							<u> </u>	
Task No	Brief	Description	months delayed		proposed target	Reason	Recommended Action	By Whom
02	non-point	o develop loading model for source pollution for riority category and river	6	9/1/73	2/1/74	FF * AO	Decide what work should be done	PAM
			ī .	L	i	L		1

17 REMARKS:

* No decision on selection of watersheds to be researched.

REASON FOR DELAY CODE

FUNDING -- F

FF - Funds Frozen
FI - Funding Insufficient

FD - Funds Diverted (specify)

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FD - Funds Diverted (specity)
FL - Funds Late (Example delay in advice of allowance)

ADMINISTRATIVE - A

AD - Equipment Delays

AF - Equipment Failure

AG - Grant/Contract Delay (specify)
AO - Other Administrative (specify)

AP - Personne | Problems (specify)

- DA Diversion of Staff for Technical Assistance
- DO Diversion of Staff for Other Than Technical Assistance (specify)
- O- Other (specify)

1 Program Element	2 Rosp No. 21AIO		tional Assessmen ion Problems	it of Ground	4.Date 10/3/73	5 Page No
TBA024 6 Total Tasks in Roaps [7 10	No Tasks Completed	8 No Active Tasks 5	9.No on Schedule 3	10. No Completed CFY	11 No Delayed 2	12
13 Program Chief Jack W. Keeley		14 Roap Manager Marion	R.Scalf	15		

TASKS DELAYED

Task No	Brief Description	months delayed	original target	proposed target	Reason	Recommended Action	By Whom
07	Second National Ground Water Quality Symposium.	2	8/73	11/73	AG*	None. Delay is not critical at this point.	
	*Contract is near completion at this ti	me.					
09	Assess ground-water problems in southeastern states.	1	9/73	2/74	A0**	Delay milestone until 2/74	Program Chief
	**More favorable competitive time for c	ontract	or respon	ıse			

17 REMARKS.

REASON FOR DELAY CODE

FUNDING -- F

FF - Funds Frozen

FI - Funding Insufficient

FD - Funds Diverted (specify)

FL - Funds Late (Example delay in advice of allowance)

ADMINISTRATIVE - A

AD — Equipment Delays AF — Equipment Failure

AG - Grant/Contract Delay (specify)

AO - Other Administrative (specify)

AP - Personnel Problems (specify)

- DA Diversion of Staff for Technical Assistance
- DO Diversion of Staff for Other Than Technical Assistance (specify)
- O Other (specify)

		G	UARTERI	Y R	OAP	STAT	US RE	PORT		
1 Program		2 Rope No	3. Roap Tit				ers for Gr		5 Page No	of
6 Total Ta	sks in Roaps 3	7. No Tasks Comple	eted 8.No Active T	sks 9 N	lo. on Sched	luie fo. N	O.Complete	d CFY 11 No Delayed	12.	
13. Progra	m Chief Jack	W. Keeley	14 Roap Man	ager J	ack W. K	eeley	15.			
			16 TAS	KS DE	LAYED					
Task No	Brief	Description		months delayed		proposed target	Reason	Recommended Action		By Whom
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17 REM/	ARKS.									

REASON FOR DELAY CODE

FUNDING -- F

FF - Funds Frozen

FI - Funding Insufficient

FD - Funds Diverted (specify)

FL - Funds Late (Example delay in advice of allowance)

ADMINISTRATIVE - A

AD - Equipment Delays

AF - Equipment Failure

AG - Grant/Contract Delay (specify)

AO - Other Administrative (specify)

AP - Personne I Problems (specify)

STAFFING - OTHER -- D/O

DA - Diversion of Staff for Technical Assistance

DO - Diversion of Staff for Other Than

Technical Assistance (specify)
O— Other (specify)

QUA	ARTERLY	ROAP	STATUS	REPORT
				ALI OKI

<u> </u>									
1 Program El	ement '2 Roap N 1BA024 21AF	3. Roap Ti	le Predi	ctive Mo	dels for	Pollutani	10/3/73	5.Page No	011
6 Total Task	DAUZ4 ZIAF	Completed 8.No. Active T	neka 19 N	o on School	ule Ho N	nvironment o Complete	d CFY 11. No. Delayed	12.	7
	ı	Completed billo Active	88K5 J. 14	0 011 001160		io Completo	TI. No. Delayed	1 2.	
	24 <u> </u>			5		00		<u> </u>	
13. Program	Chief	14 Roap Mar				15			
	Jack W. Kee	eley	Wil	liam J.	<u>Dunlap </u>	<u></u> _		· · · · · · · · · · · · · · · · · · ·	
		16 TAS	KS DEI	LAYED					
Task No	Brief Descript	tion	months delayed		proposed target	Reason	Recommended Action		By Whom
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17 REMARKS.

REASON FOR DELAY CODE

FUNDING -- F

FF - Funds Frozen

FI - Funding Insufficient

FD - Funds Diverted (specify)
FL - Funds Late (Example delay in

advice of allowance)

ADMINISTRATIVE - A

AD — Equipment Delays

AF - Equipment Failure

AG - Grant/Contract Delay (specify)

AO - Other Administrative (specify) AP - Personne I Problems (specify)

STAFFING - OTHER -- D/O

DA — Diversion of Staff for Technical Assistance

DO - Diversion of Staff for Other Than

Technical Assistance (specify)
O= Other (specify)

1 Program Element 1BA1025	2.Roar No. 21 AIS	3.Roap Title Scientific	Criteria for Oc	ean Disposal	4.Date Oct. 4, 197	5.Page No
6. Total Tasks in Roas	s 7, No. Tasks Completed	8.No.Active Tesks	9. No. on Schedule	10. No.Completed CFY	11. No. Delayed	12.
30	! 0	14	10	4	4	1
13 Program Chief Dr. D. J. Baum	gartner	14.Roap Manager Dr. D. J. Ba	umgartner	15.		
		16 TASKS	DELAYED			,
Task No Brie	Description	mont	ha original propo	sed Reason Rec	ommended Action	By Whom

Task No	Brief Description	months delayed		proposed target	Reason	Recommended Action	By Whom
09	Synoptic Survey of PCB in L. A. Bight final report	9	1/73		FL	No action; final report is n in process 10/73.	ow Grantee
21	Determine quantitative Response Character istics for Benthic Invertebrates and Demersal Fishes of the LA Bight to Waste Water Discharges.	- 3	6/75	9/75	AG (1)	None	
36	HM in LA Bight. Model and Computationa methods.	1 6	1/73	7/73	FL	Action already taken	ROAP Manager
38	Mercury Chemistry in Natural Waters 801512	9	6/73	3/74	FL	Action already taken	R QAP Manage∽

17. REMARKS.

(1) Delay in the awarding of the grant

REASON FOR DELAY CODE

FUNDING -- F

FF - Funds Frozen

FI - Funding Insufficient

FD - Funds Diverted (specify)

FL - Funds Late (Example delay in advice of allowance)

ADMINISTRATIVE - A

AD - Equipment Delays

AF = Equipment Failure
AG = Grant/Contract Delay (specify)

AO - Other Administrative (specify)

AP - Personnel Problems (specify)

STAFFING - OTHER -- D/O

DA - Diversion of Staff for Technical Assistance

DO - Diversion of Staff for Other Than Technical Assistance (specify)

1 Program Element	'2.Roap No.	3. Rosp Title			14. Date	5 Page No.
1BA1025	'2.Rosp No. 21 AIS-A	Scientific	Criteria for Oce	ean Disposal	10/04/73	of
6. Total Tasks in Roaps	7. No. Tasks Completed	8.No. Active Tasks	9. No on Schedule	10. No.Completed CFY	11 No. Delayed	12
10 Pro China	<u> </u>	/	4	0	3	1
13. Program Chiet Dr. D. J. Baumo	gartner	14. Roap Manager W. F. Rittal	1	15.		

16 TASKS DELAYED

Task No.	Brief Description	months delayed	original target	proposed target	Reason	Recommended Action	By Whom
04	Improvement of Analytical Methods	2	7/75	7/75	0	None (Slippage to be made up during grant funding period)	
05	Development of Specific Analytical Methods	2	7/75	7/75	0	П	
11	Development of Methodology for assessment of bioaccumulatory nature of specific industrial waste constituents	2	7/76	7/76	0	11 11	

17 REMARKS

(0--OTHER) The design of these studies is defined in terms of a document to be issued by Headquarters staff OR&D and the initiation of work is directly related to their publication of finding the Methods Manual. It is now in the review process and the final documents are expected prior to end of this Calenday Yr.

REASON FOR DELAY CODE FUNDING -- F STAFFING . OTHER -- D/O ADMINISTRATIVE - A FF - Funds Frozen AD - Equipment Delays DA - Diversion of Staff for Technical FI - Funding insufficient AF - Equipment Failure Assistance FD - Funds Diverted (specify) AG - Grant/Contract Delay (specify) DO- Diversion of Staff for Other Than FL - Funds Late (Example delay in AO - Other Administrative (specify) Technical Assistance (specify) AP - Personne i Problems (specify) advice of allowance) O- Other (specify)

23 13 Program	5 . 2] AIT ks in Roaps 7. No Tasks Completed	3.Roap Title Predictive Mode 8.No.Active Yasks 9.R 5 14.Roap Manager R. J. Callay	lo. on Sched	ollutant ule 10.N	s in Ocean o Completed l	4. Date 1. Environ 10/4/73 2 CFV 11. No. Delayed 2	5.Page No 1 12	01		
16 TASKS DELAYED										
Task No	Brief Description	months delayed		proposed target	Reason	Recommended Action		By Whom		
12	Fjord Hydrodynamics	6	10/73	4/74	FL	6 months extension	granted	Hdqtrs.		
13	Numerical Models, N. Y. Bigh	t 4	8/73	12/73	0					

17. REMARKS:

(0--OTHER). Extra commitments by grantee. Grant interagency agreement extension given.

REASON FOR DELAY CODE

FUNDING -- F

FF - Funds Frozen

FI - Funding Insufficient

FD - Funds Diverted (specify)

FL - Funds Late (Example delay in advice of allowance)

ADMINISTRATIVE - A

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AF - Equipment Failure

AG - Grant/Contract Delay (specify)

AO - Other Administrative (specify) AP - Personnel Problems (specify)

STAFFING . OTHER -- D/O

- DA Diversion of Staff for Technical Assistance
- DO Diversion of Staff for Other Than Technical Assistance (specify)
- 0- Other (specify)

1 Program 1BAO2	6	'2 Roap No. 21AKP	Physical	Process	Affecting P	ollution of I	olog., & 4 Date g. Lakes 10/9/73	5.Page No
6 Total Ta	sks in Roaps	7. No Tasks Comple	ted 8 No. Active T	asks 9 N	o on Schedule	10. No Complete	od CFV 11. No Delayed	12
13 Progra Thoma			14 Roap Mai Tudor Day			15.		
			16 TAS	KS DE	LAYED			
Task No	8 rie f	Description	•	months delayed		psed Reason	Recommended Action	By Whom

17 REMARKS

REASON FOR DELAY CODE

FUNDING -- F

FF - Funds Frozen

FI - Funding Insufficient

FD - Funds Diverted (specify)

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ADMINISTRATIVE - A

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AF - Equipment Failure

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AO - Other Administrative (Specify)

AP - Personnel Problems (specify)

STAFFING - OTHER -- D/O

DA - Diversion of Staff for Technical

Assistance

DO - Diversion of Staff for Other Than Technical Assistance (specify)

QUARTERLY ROAP STATUS REP	PORT
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1 Program Element '2 Roap N	io. 3 Roap Title	<u> </u>		4 Date	5 Page No
1BA026 21BA	Z Support of t	he US-Canada Upper L	akes Ref Study	10/9/73	of
6 Total Tasks in Roaps 7 No Tasks	Completed 8.No Active Tasks	a'No ou scuednie . 10' M	O Completed CFY	11 No Delayed	12
10 0		9		0_	i
13 Program Chief	14 Roap Manager		15		
Thomas	Tudor Davies				
	16 TASKS	DELAYED			
7-11-11-1	·	the original proposed			
Task No Brief Descript		original proposed ayed target	Reason Recon	nmended Action	By Whom
			·		

Task No	Brief	Description	months delayed	original target	Proposed target	Reason	Recommended Action	By Whom
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17. REMARKS:

REASON FOR DELAY CODE

FUNDING -- F

FF - Funds Frozen
FI - Funding Insufficient

FD - Funds Diverted (specify)

FL - Funds Late (Example delay in advice of allowance)

ADMINISTRATIVE - A

AD — Equipment Delays AF — Equipment Failure

AG = Grant/Contract Delay (specify) AO = Other Administrative (specify)

AP - Personnel Problems (specify)

STAFFING - OTHER -- D/O

DA - Diversion of Staff for Technical Assistance

DO - Diversion of Staff for Other Than Technical Assistance (specify)

1 Program Element IBAO 26	'2 Roap No 21BBL	3. Roap Title	comprehension of	the Michigan-Huro	¹¹ 4. Date	5 Page No
			Superior Lake Sy	stem	10/9/73	1011
6 Total Tasks in Roaps	7. No. Tasks Completed	8.No Active Tasks	9. No on Schedule	10. No Completed CFY	11 No Delayed	12
8	1 0		6		2	1
13. Program Chief		14 Roap Manager		15		
Thomas		Tudor Davies		1		

16 TASKS DELAYED

Task No.	Brief Description	months delayed	original target	proposed target	Reason	Recommended Action	By Whom
0.0		2 14			10		
02	Ship Leasing	3 Mos.			AO	Hima Town	
07	Data Input to STORET	3 Mos.			AP	Hire Temp.	
		i					
-							
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							Ì
		1	L	<u>. </u>		<u> </u>	<u></u>

17 REMARKS

REASON FOR DELAY CODE

FUNDING -- F

FF - Funds Frozen

FI - Funding Insufficient

FD - Funds Diverted (specify)

FL - Funds Late (Example delay in

advice of allowance)

ADMINISTRATIVE - A

AD - Equipment Delays

AF - Equipment Failure

AG - Grant/Contract Delay (specify)

AO - Other Administrative (specify)

AP - Personnel Problems (specify)

STAFFING - OTHER -- D/O

DA - Diversion of Staff for Technical Assistance

DO - Diversion of Staff for Other Than Technical Assistance (specify)

1 Program Element 1BA026	2 Rosp No			ontrolling Nutrients		5.Page No
6 Total Tasks in Roaps	7 No Tasks Completed	<u> </u>	10	10. No Completed CFY	11 No. Delayed	12.
13 Program Chief Thomas		14 Roap Manager Tudor Davies		15		

16 TASKS DELAYED

Task No Brief Description months delayed target Proposed target Reason Recommended Action By Whom O5 Nutrient Budgets of Major Large Lakes 5 Mos. 0 Certain nutrient inputs could						<u></u>		7	
or a start and a start of the start indicate the st	Task No	Brief	Description		original target	proposed target	Reason	Recommended Action	By Whom
not be estimated at this time. Programs have been started to supply needed information.	05	Nutrient	Budgets of Major Large Lakes	5 Mos.			0	not be estimated at this tim Programs have been started t	е.

17 REMARKS

REASON FOR DELAY CODE

FUNDING -- F

FF - Funds Frozen

FI - Funding Insufficient

FD - Funds Diverted (specify)

FL - Funds Late (Example: delay in advice of allowance)

ADMINISTRATIVE - A

AD - Equipment Delays

AF - Equipment Failure

AG - Grant/Contract Delay (specify)

AO - Other Administrative (specify)
AP - Personnel Problems (specify)

- DA Diversion of Staff for Technical Assistance
- DO Diversion of Staff for Other Than Technical Assistance (specify)
- O- Other (specify)

1 Program Element	'2 Roap No	3. Roap Title Gu	idelines for Cor	ntrolling the Ecol	O- 4. Date	5 Page No
1BA026	25ADS	gical Stresses	s Caused by Ther	mal Poli of Lo La	kes 10/9/73	1011
6 Total Tasks in Roaps	7. No. Tasks Comple	ted 8.No. Active Tasks	9. No. on Schedule	10. No.Completed CFY	11 No. Delayed	12.
5	1 0	i	4		1	1
13 Program Chief		14. Roap Manager		15.		
Thomas		Tudor Davies				
		40				

16 TASKS DELAYED

Task No	Brief	Description	months delayed	original target	proposed target	Reason	Recommended Action	By Whom
05	Effects of	f Once Through Cooling	l Mos.			FF	Funds being held up by Dr. Greenfield	

17 REMARKS:

REASON FOR DELAY CODE

FUNDING -- F

FF - Funds Frozen

FI - Funding Insufficient

FD - Funds Diverted (specify)

FL - Funds Late (Example delay in advice of allowance)

ADMINISTRATIVE - A

AD - Equipment Delays

AF - Equipment Failure

AG - Grant/Contract Delay (specify)

AO - Other Administrative (specify)

AP - Personnel Problems (specify)

STAFFING - OTHER -- D/O

DA - Diversion of Staff for Technical Assistance

DO - Diversion of Staff for Other Than

Technical Assistance (specify)
O - Other (specify)

1 Program E 1BA02 6 Total Tas		Operat.	& Dispo	sal of Dr	edge Sp	ntrol of D oils in Lg	Lakes 10/9/73 1-	No 01 1
5 Thoma	m Chief	14 Roap Ma	nager	4		15	1	
Task No	Brief Description	16. TAS	months	original	Dro nosed	<u> </u>	İ Basısınının 4.4	
	Brief Description		delayed		target	Reason	Recommended Action	By Whom
06	Determine impact of Dredg Disposal on the Ecosystem		4			FI	Incorrect Milestone Date, should be 6/30/74	

17 REMARKS

REASON FOR DELAY CODE

FUNDING -- F

FF- Funds Frozen

FI - Funding Insufficient

FD - Funds Diverted (specify)

FL - Funds Late (Example delay in advice of allowance)

ADMINISTRATIVE - A

- AD Equipment Delays
- AF Equipment Delays
- AG Grant/Contract Delay (specify)
- AO Other Administrative (specify)
- AP Personnel Problems (specify)

- DA Diversion of Staff for Technical Assistance
- DO Diversion of Staff for Other Than Technical Assistance (specify)
- O- Other (specify)

1 Program Element 1BA027	2 Roap No 07ABL	3. Roap Title I	dentification o	f Chemical Pollutar	its 4 Date	5.Page No
		in industrial	Wastewaters		1 10/2/73	}01}
6. Total Tasks in Roaps	7. No. Tasks Completed	8.No Active Tasks	9. No. on Schedule	10. No.Completed CFY	11. No. Delayed	12.
15	' 0	8	, ,	1 0	1	
13 Program Chief		14. Roap Manager	•	15.		
W. T. Donaldson		A_W	arrison			
		16. TASKS	DELAYED			

Task No Brief Description months original proposed target target Reason Recommended Action By Whom											
	Task No	Brief Description		months delayed	original target	proposed target	Reason	Recommended Action	By Whom		
O4 Identify Pollutants in Petroleum Refinery Wastewaters 6 12/31/73 6/30/73 D0* Reschedule Research Report on Separation Techniques for Petroleum Refinery Pollutants to 6/30/74	04	Identify Pollutants in Refinery Wastewaters	Petroleum	6	12/31/73	6/30/73	DO*	Report on Separation Techniques for Petroleum Refinery Pollutants to			

17. REMARKS:

*Time diverted to Tasks 02 and 03.

REASON FOR DELAY CODE

FUNDING -- F

FF - Funds Frozen

FI - Funding Insufficient

FD - Funds Diverted (specify)

FL - Funds Late (Example delay in advice of allowance)

ADMINISTRATIVE - A

AD - Equipment Delays

AF - Equipment Failure

AG = Grant/Contract Delay (specify)

AO - Other Administrative (specify) AP - Personnel Problems (specify)

STAFFING - OTHER -- D/O

DA — Diversion of Staff for Technical Assistance

DO - Diversion of Staff for Other Than Technical Assistance (specify)

QUARTERLY	ROAP	STATUS	REPORT
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1 Program E IBA027 6 Total Tasi 9 13 Program W.T. D	ks in Roaps 7. No Tasks Com	Pollutants in Monager 14. Roap Manager A.W. Garris	4	emical ters • Complete 0	1	Page No
Task No	Brief Description	16. TASKS DE months delayed	LAYED original proposed target	Reason	Recommended Action	By Whom
				,		

17 REMARKS:

REASON FOR DELAY CODE

FUNDING -- F

FF- Funds Frozen

FI - Funding Insufficient

FD - Funds Diverted (specify)

The second

FL - Funds Late (Example delay in advice of allowance)

ADMINISTRATIVE - A

- AD Equipment Delays
- AF Equipment Failure
- AG Grant / Contract Delay (specify)
- AO Other Administrative (specify) AP - Personnel Problems (specify)

- DA Diversion of Staff for Technical Assistance
- DO Diversion of Staff for Other Than Technical Assistance (specify)
- O- Other (specify)

1 Program Element	'2 Roap No	3. Roap Title I	dentification of	Organic, Inorgani	C 4. Date	5 Page No
1BA027	16ADN	and Elemental	Chemical Pollut	ants	9/27/73	
	7 No Tasks Completed	8.No Active Tasks	9 No on Schedule	10. No Completed CFY	11 No Delayed	12
83	16	26	18	0	8	1
13 Program Chief		14 Roap Manager		15		
W. T. Donaldson		l T. R. Hoover	and 1 M McGuir	<u>م</u>		

16 TASKS DELAYED

Task No	Brief Description	months delayed	origina) target	proposed target	Reason	Recommended Action	By Whom
22	Spark Source Mass Spectrometry	4 1/2	9/1/73	1/15/74	DA	Reschedule Milestone for Research Report	Prog Chief
23	Mass Chromatography	1	9/1/73	9/28/73	AD/DO (Task 65)	None	
27	Improve Low Resolution Mass Spectrometry	1 2	11/1/73 2/1/74	3/15/7		uter	Lab Dir
29	Grant "Spectra Matching"	4	9/30/73		FF/O Planning	Release funds/reschedule milestones	HQ/Prog Chief

17 REMARKS

REASON FOR DELAY CODE

FUNDING -- F

FF- Funds Frozen

FI - Funding Insufficient

FD - Funds Diverted (specify)

FL - Funds Late (Example delay in advice of allowance)

ADMINISTRATIVE - A

AD - Equipment Delays

AF - Equipment Failure

AG - Grant/Contract Delay (specify)

AO - Other Administrative (specify)

AP - Personnel Problems (specify)

STAFFING - OTHER -- D/O

DA — Diversion of Staff for Technical Assistance

DO - Diversion of Staff for Other Than Technical Assistance (specify)

1 Program Element	2 Roap No.	3. Roap Title Ide	entification of	Organic, Inorganic	4. Dat e	5 Page No
1BA027	16ADN	and Elementa	<u>l Chemical Pollu</u>	tants	9/27/73	
	7. No. Tasks Completed	B.No. Active Tasks	9. No. on Schedule	10.No.Completed CFY	11 No. Delayed	1 2
83	<u>'</u>				}	
13. Program Chief		14 Roap Manager		15.	 	
4						

16 TASKS DELAYED

Task No	Brief Description	months delayed	original target	proposed target	Reason	Recommended Action	By Whom
31	Evaluate Flame Photometric Detection of Phosphorus	2	8/15/73	10/15/7		ion time not estimated)	
32	Evaluate Microwave Emission	3	8/15/73	11/15/7	B AO (sam	e as Task 31)	
35	Grant "Computer Interpretation of Spectra"	3	7/13/73	11/1/73	FF	Release funds	НQ
37	Separation and Concentration Techniques for Water Pollutants	6	12/31/73	6/30/74	DA DO*	Reschedule Research Report on Microreticular Resins to 6/30/74	

17 REMARKS:

*Some manpower was diverted to write report on "Current Practice in GC/MS Analysis of Organics in Water," written under the same task in lage FY 73.

REASON FOR DELAY CODE

FUNDING -- F

FF - Funds Frozen

FI - Funding Insufficient

FD - Funds Diverted (Specify)

FL - Funds Late (Example delay in advice of allowance)

ADMINISTRATIVE - A

AD - Equipment Delays

AF - Equipment Failure

AG - Grant / Contract Delay (specify)

AO - Other Administrative (specify)
AP - Personne | Problems (specify)

- DA Diversion of Staff for Technical Assistance
- DO Diversion of Staff for Other Than Technical Assistance (specify)
- O- Other (specify)

1 Program	Element 029	'2 Roap No 25AJ)	3 Roap Tit	Surve	v of Nut	rient Lo	adings to	4 Date Lakes 10/2/73	5 Page No.	01_]
1	0	7. No Tasks Complet 3	7		o. on Sched	ule 10 N	1	CFY 11 No. Delayed	12	
13. Progra	m Chief H. Gakstatt	er	14. Roap Man	ager Ra	1ph E. A	ustin	15			
			16 TAS		LAYED	-				
Task No	Brief	Description		months delayed	original target	proposed target	Reason	Recommended Action		By Whom
	None*									
					ı					
ļ <u>.</u>	· · · · · · · · · · · · · · · · · · ·									

17 REMARKS:

FUNDING -- F

*Tasks begin with the initiation of sampling, therefore no delays are now evident in the ROAP; however, lack of funding and subsequent uncertainty concerning the future course of the National Eutrophication Survey have delayed initial meetings with State Pollution Agencies and State National Guard Organizations which are necessary precursors to the initiation of sampling. Consequently, delays in task completion can be anticipated.

REASON FOR DELAY CODE

ADMINISTRATIVE - A FF- Funds Frozen AD - Equipment Delays FI - Funding Insufficient AF - Equipment Failure FD - Funds Diverted (specify) AG - Grant/Contract Delay (specify) FL - Funds Late (Example delay in AO - Other Administrative (specify) advice of allowance) AP - Personnel Problems (specify)

- DA Diversion of Staff for Technical Assistance
- DO Diversion of Staff for Other Than Technical Assistance (specify) O- Other (specify)

			QU	ARTE	RLY R	COAP	STAT	US RE	PORT	
1 Program	IBA029	'2 Roap No.	25ALP	3. Roap	Sur	vey of Wa	tershed	Land Use	4 Date 10/2/73	5.Page No
	2	7. No. Tasks Co	mpleted)	3		No. on Sche	dule 10. N	0	d CFY 11. No Delayed	12.
13 Progra	m Chief H.	Gakstatter		14 Roap M	lan age r	James	M. Omern	ik 15		
		- <u></u>		16. TA	SKS DI	ELAYED			,	
Task No	Brief	Description) 	 	month: delaye	origina d target		Reason	Recommended Action	By Whom
	None						:			
ŀ						}				
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						<u></u>			<u></u>	
17 REMA	RKS:									

REASON FOR DELAY CODE STAFFING - OTHER -- D/O FUNDING -- F ADMINISTRATIVE - A FF - Funds Frozen DA - Diversion of Staff for Technical AD - Equipment Delays FI - Funding Insufficient AF - Equipment Failure Assistance FD - Funds Diverted (specify) AG = Grant/Contract Delay (specify) DO- Diversion of Staff for Other Than FL - Funds Late (Example delay in AO - Other Administrative (specify) Technical Assistance (specify) AP - Personne | Problems (specify) O- Other (specify) advice of allowance)

QUART	TERLY	ROAP	STATUS	REPORT
TUAR		NUAL		

							لأبكبك والمستحدد
1 Program Elament 2 Rosp No 25AKI		Surve	y of Rate	e Limiti	ing Nutrie	nts 10/2/73	.Page No]of]
6. Total Tasks in Roaps 7. No. Tasks Complete	d 8 No Active Ta	sks 9.N	o. on Schedu	TO N	o Complete	CFY 11. No Delayed 1:	2
3 1 0	3		3	•	0	0 1	
13 Program Ghiel. Gakstatter	14 Roap Mana	nge r	Albert	Katko	15		
	16. TASK	S DE L	AYED				
Task No Brief Description		months delayed	original ; target	roposed target	Reason	Recommended Action	By Whom
None							
17 DEMARKS							

17 REMARKS:

REASON FOR DELAY CODE

FUNDING -- F

FF - Funds Frozen

FI - Funding Insufficient

FD - Funds Diverted (specify)

FL - Funds Late (Example delay in

advice of allowance)

ADMINISTRATIVE - A

AD - Equipment Delays

AF - Equipment Failure

AG - Grant/Contract Delay (specify)
AO - Other Administrative (specify)
AP - Personnel Problems (specify)

- DA Diversion of Staff for Technical Assistance
- DO Diversion of Staff for Other Than Technical Assistance (specify)
- O- Other (specify)

1 Program Element	'2 Roap No	3. Roap Title T	he Determination	n of the Effectiv	eness Date	5.Page No
1BA031	21 AIY	<u>lof Lake Resto</u>	ration Procedure	25	1 10/1/73	
	7. No Tasks Completed	B No. Active Tasks		10. No Completed CF	Y 11 No. Delayed	1 2
40	4	26	22	3	4	
13 Program Chief		14 Roap Manager		15		
T. E. Malonev		K W Mal	uea	<u> </u>		

16 TASKS DELAYED

Task No	Brief Description	months delayed	original target	proposed target	Reason	Recommended Action	By Whom
12	Evaluate nutrient diversion as a lake restoration technique at Detroit Lakes, MN.	4	7/76	12/76	A0(1)	Continue on a minimum monitoring and research program, which is being done	Prog. Chief
14	Conduct field evaluation to determine effect of nutrient inactivation, using fly ash as a lake restoration method	ן	9/76	10/76	0 (2)	Restaff with qualified personnel which is completed	Prog. Chief
40	Manipulation of natural systems to control aquatic plant growth	5	9/75	2/76	AG(3)	Negotiations with potential grantees are being pursued	Prog. Chief
35	A&E study for design of experimental ponds	12	1/74	1/75	0 (4)	Potential new sites are being sought	Prog. Chief

17 REMARKS

- (1) Construction program was delayed because of wastewater system redesign to meet state requirements and insufficient resources to implement original plan.
- Four of the five main investigators left the University
- Delays in negotiating with potential grantee
- Potential construction site no longer available.

REASON FOR DELAY CODE

FUNDING -- F ADMINISTRATIVE - A FF - Funds Frozen AD - Equipment Delays AF - Equipment Failure FI - Funding Insufficient Assistance AG - Grant/Contract Delay (specify) FD - Funds Diverted (specify) FL - Funds Late (Example delay in AO - Other Administrative (specify) advice of allowance) AP - Personne | Problems (specify)

- DA Diversion of Staff for Technical
- DO Diversion of Staff for Other Than
- Technical Assistance (specify) O- Other (specify)

1 Program Ele 1BA0	ement 31	'2 Roap N	A.1A	3. Road	ess	Predi	ictive Mo	dels fo	r the eutr	ophica	tion 10/1/	5 Page No	- 01]
6 Total Tasks	s in Moaps	i7. No. i asks	Completed	- 1		3. N	0. on Sched	10.1	10.Cg m p late	a CFV	11 No. Delayed	'1 2 i	
13 Program	Chief Maloney	-		14.Roap		luec			15				
				16.	TASKS	DE	AYED						
Task No	Brief	Descript	ton			nths layed		proposed target	Reason	Recor	mmended Actio	n	By Whom
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17 REMARKS.

REASON FOR DELAY CODE

FUNDING -- F FF - Funds Frozen FI - Funding Insufficient

FD - Funds Diverted (specify)
FL - Funds Late (Example delay in advice of allowance)

ADMINISTRATIVE - A

AD – Equipment Delays AF – Equipment Failure

AG - Grant/Contract Delay (specify)

AO - Other Administrative (specify)
AP - Personnel Problems (specify)

STAFFING - OTHER -- D/O

DA -- Diversion of Staff for Technical Assistance

DO - Diversion of Staff for Other Than Technical Assistance (specify)

1 Program 1BAC 6 Total Ta	Element)3] sks in Roaps	'2 Roap No 21	AJE	measur	e nu	trient	lopment s from d	ittuse s	niques to sources lo complete		10/1/73	5.Page -] ed 12.	No of]
11		<u> </u>	,	- •	9	"	Ω		Λ	''	1	, i .	
13 Progra T. E. Ma	m Chief	<u>U</u>		14. Roap C. F.	Manag		<u> </u>		15				
		-		16 T	ASKS	DEI	LAYED						
Task No	Brief	Descripti	o n			onths elayed	original target	proposed target	Reason	Recom	nended Act	ion	By Whom
	Studies of addition a restoratio water nitr	nd aeratio n techniqu	n (two la es) on se	ke		1	9/1/73	ASAP	FF	Funding availab	as soon	as funds	Head- quarters
											L		

Two of the eight active tasks are not being supported by FY-73 funds but have/given no-cost extensions to permit completion of final report. A third task was funded in FY-73 and will be completed in FY-73 if it remains on scheduled.

REASON FOR DELAY CODE

FUNDING -- F

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FI - Funding Insufficient

FD - Funds Diverted (specify)

FL - Funds Late (Example delay in advice of allowance)

ADMINISTRATIVE - A

AD - Equipment Delays

AF - Equipment Failure

AG - Grant/Contract Delay (specify)

AO - Other Administrative (specify) AP - Personnel Problems (specify)

- DA Diversion of Staff for Technical Assistance
- DO Diversion of Staff for Other Than Technical Assistance (specify)
- O- Other (specify)

1.Program Element 1BA031	'2 Roap No. 21 AJF	3. Roap Title Dand Categoriz		ethods of orals sea	sing 4 Date ters 10/1/73	5.Page No
6 Total Tasks in Roaps 7	No.Tasks Completed	8.No Active Tasks	9 No on Schedule	10. No Completed CI	11 No. Delayed	1 2.
13. Program Chief Thomas E. Maloney		14.Roap Manager William E. M	liller	15.		

16 TASKS DELAYED

Task No.	Brief Description	months delayed		proposed target	Reason	Recommended Action	By Whom
08	Environmental and nutritional requirements and physiological processe of selected fresh water and estuarine algae and aquatic plants	s 03	1/1/74	4/1/74	0	Permission to hire	PED
17	Determine the critical levels of nitrogen, phosphorus and iron necessary to support the growth of Anabaena Flos aquae and Microcystis aeruginosa in AAP culture medium and natural waters.			4/1/74	0	Permission to hire personnel	PED

17 REMARKS: 6.3 pmy's were assigned to ROAP 21 AJF to accomplish the stated research tasts in FY 74. To date 4.0 pmy positions are assuming the work outlined in the ROAP. The remaining 2.3 positions have been assigned to non-research functions. Unless this situation is changed delays in task output will continue.

REASON FOR DELAY CODE

FUNDING -- F FF - Funds Frozen FI - Funding Insufficient FD - Funds Diverted (specify) FL - Funds Late (Example delay in

advice of allowance)

ADMINISTRATIVE - A

AD – Equipment Delays AF – Equipment Failure

AG - Grant/Contract Delay (specify)
AO - Other Administrative (specify)

AP - Personne i Problems (specify)

- DA Diversion of Staff for Technical Assistance
- DO Diversion of Staff for Other Than Technical Assistance (specify)
- O- Other (specify)

1 Program Element 1BA032	'2 Roap No 21AJH	3. Roap Title Predictive Mo	dels for Therma	l Pollution	10/3/73	5.Page No
6. Total Tasks in Roaps 28	7. No Tasks Completed	11	9	10.No.Completed CFY	11. No. Delayed 2	12.
13 Program Chief Frank H. Rainwate	er	14. Roap Manager Bruce A. Ti	ichenor	15.		
		16. TASKS	DELAYED			

Task No	Brief Description	months delayed		proposed turget	Reason	Recommended Action	By Whom				
34	Field test cooling tower plume models	4	start 8/1/73	start 12/1/73	FF	None - Funds unfrozen as of 9/17/73	B. Tichenor				
35	Improve statistical reliability of streatemperature prediction. Section 303(d), PL92-500 requirement	m 3	start 10/1/73	start 1/1/74	FF	None - Funds unfrozen as of 9/17/73	B. Tichenor				

17 REMARKS

REASON FOR DELAY CODE

FUNDING -- F

FF - Funds Frozen

FI - Funding Insufficient

FD - Funds Diverted (specify)

FL - Funds Late (Example delay in advice of allowance)

ADMINISTRATIVE - A

AD - Equipment Delays

AF - Equipment Failure

AG - Grant/Contract Delay (specify)

AO - Other Administrative (Specify)
AP - Personne I Problems (specify)

STAFFING . OTHER -- D/O

DA - Diversion of Staff for Technical Assistance

DO- Diversion of Staff for Other Than Technical Assistance (specify)

1.Program Element 1BB392	'2 Romp No. 21 AZU			hnology-Electric P		5.Page No
6. Total Tasks in Roaps 30	7. No. Tasks Completed	8	4	10. No.Completed CFY	11. No. Delayed	'1 2.
13. Program Chie! Frank H. Rainwat	er	14. Roap Managar Alden Chr	ristianson	15		

16 TASKS DELAYED

Task No	Brief Description	months delayed	original target	proposed turget	Reason	Recommended Action	By Whom					
19	Assess engineering and economic feasibil of backfitting various cooling devices to existing power plants.	ity 6	start 7/1/73	start 1/1/74	FF	Release Funds	Hdqtrs.					
25	Predemonstration characterization SO ₂ scrubber water effluents and investigation of potential handling and treatment	3	start 9/1/73	start 1/1/74	FF	Release Funds	Hdqtrs.					
	Predemonstration engineering and economic assessment of once-through discharge modifications for adverse impact control		start 7/1/73	start 1/1/74	FF	Release Funds	Hdqtrs.					
	Demonstrate effluent control as a phase of recycle/reuse	6	start 9/1/73	start 3/1/74	AG	Pursue different (but related demonstration project) NTPRP Prog. Chie					
		1				_						

17 REMARKS:

Task 28 -- Negotiations with potential contractor stopped because of management decisions evolving from equipment cost rise and questionable reliability.

REASON FOR DELAY CODE

FUNDING -- F FF - Funds Frozen FI - Funding Insufficient FD - Funds Diverted (specify) FL - Funds Late (Example delay in advice of allowance)

ADMINISTRATIVE - A

AD — Equipment Delays AF — Equipment Failure

AG - Grant/Contract Delay (specify)
AO - Other Administrative (specify)
AP - Personnel Problems (specify)

- DA Diversion of Staff for Technical Assistance
- DO Diversion of Staff for Other Than Technical Assistance (specify)
- O- Other (specify)

1 Ридкал		12 Rospana	3. Rosp. Ti Assistan	ce to T	echnology	y Transf	er	4. Date 10/1/73	5.Page No	
6 Total Tas	sks in Roaps	7. No. Tasks Complete	8.No. Active T	asks 9.N	o. on Sched	ule 10.N	O Complete	d CFY 11. No. Delayed	12	
13 Progra Frank	m Chiet H. Rainwat	er	14. Roap Mai Alden Ch	ristian	son		15			
			16 TAS	KS DE	LAYED	-				
Task No	Brief	Description		months delayed	original target	Proposed target	Reason	Recommended Action	By Wh	om
!										
							l <u>.</u> .			

17 REMARKS.

REASON FOR DELAY CODE

FUNDING -- F

FF - Funds Frozen

FI - Funding Insufficient

FD - Funds Diverted (specify)

FL - Funds Late (Example delay in advice of allowance)

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AD - Equipment Delays

AF - Equipment Failure

AG - Grant/Contract Delay (specify)

AO - Other Administrative (specify) AP - Personne I Problems (specify)

- DA Diversion of Staff for Technical Assistance
- DO Diversion of Staff for Other Than Technical Assistance (specify)
- O- Other (specify)

GHAD	TEDIY	POAP	STATUS	REPORT
YUAR		NUAL	JIAIUJ	REFURI

1 Program Element '2 Roap No. 1BB036 21AVS	3 Roap Title	stance - Hoavy	Industrial Source	9/26/73	5 Page No
6 Total Tasks in Roaps 7. No Tasks Comple	eted 8.No Active Task	ks 9 No. on Sched	ule 10 No Complete	d CFY 11 No. Delayed	12
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13 Program Chief Marvin L. Wood	14 Roap Manag Leon H. M	er vers	15		
	16 TASKS				•
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17 REMARKS

REASON FOR DELAY CODE

FUNDING -- F

FF - Funds Frozen

FI - Funding Insufficient

FD - Funds Diverted (specify)

FL - Funds Late (Example delay in

advice of allowance)

ADMINISTRATIVE - A

AD - Equipment Delays

AF - Equipment Failure

AG - Grant/Contract Delay (specify)

AO - Other Administrative (specify)

AP - Personnel Problems (specify)

STAFFING - OTHER -- D/O

DA - Diversion of Staff for Technical Assistance

DO - Diversion of Staff for Other Than

Technical Assistance (specify)

13	36 21AZN sks in Rosps 7. No Tasks Completed 0	Steel Ma	achiner	v Transn	ortat &	. Matal Ei	f, etc. 4-Date 5 Page No nishings 10/9/73 1 12 1	- 011
13. Progra Durha		14 Roap Man Tudor Day 16 TASI	vies	LAYED		15.		
Task No	Brief Description		months delayed		proposed target	Reason	Recommended Action	By Whom
08	"Demonstration of Ultrafill Treatment of Central Cuttin Emulsion Effluents" Formerly 21ARE-1BB036-05		2			FF	Recommend that these funds be released as soon as pos- sible	

17. REMARKS

REASON FOR DELAY CODE

FUNDING -- F FF - Funds Frozen FI - Funding Insufficient FD - Funds Diverted (specify) FL - Funds Late (Example delay in advice of allowance)

ADMINISTRATIVE - A

AD - Equipment Delays
AF - Equipment Failure
AG - Grant/Contract Delay (specify)

AO - Other Administrative (Specify) AP - Personne i Problems (specify)

STAFFING - OTHER -- D/O

- DA Diversion of Staff for Technical Assistance
- DO Diversion of Staff for Other Than Technical Assistance (specify)

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1. Program Element 2 Roap No. 21AZP	3. Roap Tit the Petro	_{ιε} οτ τη chemica	le Discha il & Petr	rge of P oleum Re	ollutants finerv Inc	from 4 Date ustries 9/26/73	5.Page No	01l
6. Total Tasks in Roaps 7 No. Tasks Comple	6	18K5 3. N	to on Sched	lule 10.N	O.Complete	d CFY 11. No. Delayed	1 2.	01
13 Program Chief Marvin Wood	14 Roap Man Leon Mye	age r rs			15			
	16. TAS	S DE	LAYED			_		
Task No Brief Description		months delayed	original target	proposed target	Reason	Recommended Action		By Whom
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17 REMARKS								

FUNDING -- F

FF - Funds Frozen

FI - Funding Insufficient

FD - Funds Diverted (specify)

FL - Funds Late (Example delay in

advice of allowance)

ADMINISTRATIVE - A

REASON FOR DELAY CODE

AD – Equipment Delays AF – Equipment Failure

AG - Grant/Contract Delay (specify)

AO - Other Administrative (Specify) AP - Personne | Problems (specify)

STAFFING - OTHER -- D/O

DA - Diversion of Staff for Technical Assistance

DO - Diversion of Staff for Other Than Technical Assistance (specify)

1 Program Element 1BB036	21-AZR	tion Discharge	e of Pollutants	ch for the Elimina- from the Ag.Chem.I	nd. 26 Sep 73	5.Page ₁ No 4
6 Total Tasks in Roaps 35	7. No. Tasks Completed 8	3.No. Active Tasks	9.No on Schedule	10. No.Completed CFY	11 No. Delayed 7	1 2.
13. Program Chief Dr. H. P	P. Nicholson	14. Roap Manager	Dr. R. R. Swan	nk, Jr.	<u> </u>	

16. TASKS DELAYED

						,	
Task No	Brief Description	months delayed		proposed target	Reason	Recommended Action	By Whom
	ROAP Administration/Monitoring- Industrial Task Force analysis with PERTS for BPT/BAT response (ORD plan for FY-75 ff cycles)	2	9/73	11/73	!	1. Reestablish deadline - Use industry - comments to draft guidelines. 2. Pre- pare PERT/plan 10/11/73 as part of pre-ROAP cycle.	Dir. NERC-C plus Trakowski Plans-PED & ROAP Mgr.
	Integrated fluorine/slime control for phos-acid/phosphate complexes initiate scope revision and experimental phase.	4	5/73	9/73	(FL)	Technical scope revisions/ timing for fluorine control/ recovery phases be re-negoti- ated to accelerate project.	Project Officer & Technical Asst.

17. REMARKS. General:

- 1. Please clarify SRO status with regard to FY-74 submission they are crucial to success of this ROAP.
- 2. Please clarify future SRO submission procedures, approval modes, fiscal responsibility, program control mechanisms, and initiator feedback rights before the FY-75 ROAP cycle has begun.

Task 06: Delay due to excessive demands for Effluent Guidelines (2 industries) support.

Task 07: Approval by AAR of scope change submitted in November 1972 was delayed until July 1973. Slime obviation phase was initiated 9/73. Fluorine phases will now be further delayed due to rescheduling technical difficulties arising from long elapsed time awaiting scope approval.

REASON FOR DELAY CODE

FUNDING -- F STAFFING - OTHER -- D/O ADMINISTRATIVE - A DA - Diversion of Staff for Technical FF - Funds Frozen AD - Equipment Delays FI - Funding Insufficient AF - Equipment Failure Assistance DO- Diversion of Staff for Other Than FD - Funds Diverted (specify) AG - Grant/Contract Delay (specify) FL - Funds Late (Example, delay in AO - Other Administrative (Specify) Technical Assistance (specify) AP - Personnel Problems (specity) O- Other (specify) advice of allowance)

1 Program Element 1BB036	2 Roap No. 21-AZR		See Page 1)		4.Date 26 Sep 73	5.Page No
6 Total Tasks in Roaps	7. No Tasks Completed	8.No Active Tasks	9. No. on Schedule	10. No Completed CFY	11. No. Delayed	12.
13. Program Chief		14.Roap Manager		15.		

16. TASKS DELAYED

Took Ma	Brief Description	months	original	Dronged			D. 1415
Task No.	Brief Description	delayed	target	target	Reason	Recommended Action	By Whom
09	Feasibility of ionizing radiation to degrade aqueous pesticide wastes.	3	7.74	10/74		promoters - try new oxidizing modes. 2. Test other (non-pesticide) chlorinated wastes (aqueous) - use brine values.	in con- junction
14	Integrated air-water technology for balanced N-fertilizer complexes (SRO 51-AZR-1A2012-14).	3	3/74	6/74		immediately. 2. Approve SRO and assign responsibilities	NERC-RTP Trakowski

17 REMARKS: Task 09: Promoters/catalysts tried to date have not proven effective. Apparent requirement to solubalize pesticidal component has also caused difficulty for "concentrated" wastes.

Task 14: SRO status unknown - official inquiries have been initiated - no feedback. Prospects for industrial cooperation unclear due to EPA indecision.

REASON FOR DELAY CODE

FUNDING -- F ADMINISTRATIVE - A FF - Funds Frozen AD - Equipment Delays FI - Funding Insufficient AF - Equipment Failure FD - Funds Diverted (specify) AG - Grant/Contract Delay (specify) FL - Funds Late (Example delay in AO - Other Administrative (Specify) AP - Personnel Problems (specify) advice of allowance)

STAFFING - OTHER -- D/O

- DA Diversion of Staff for Technical Assistance
- DO Diversion of Staff for Other Than Technical Assistance (specify)

1 Program Element 1BB036	21 - AZR	,	See Page 1		4.Date 26 Sep 73	5.Page No3 of4
6 Total Tasks in Rosps	7. No Tasks Completed 8	No. Active Tasks	9. No. on Schedule	10 No Completed CFY	11. No. Delayed	12
13 Program Chief	1	4. Roap Manager		15.		<u> </u>

16 TASKS DELAYED

							
Task No	Brief Description	months delayed		proposed target	Reason	Recommended Action	By Whom
	Emissions survey and control technology for fertilizer (mixed fertilizer- pesticide) bulk blend plants (SRO 21AZR-1A2015-15)	2 (May be 12)	10/73	12/73	(FL)	immediately. 2. Approve SRO and assign responsibilities/budgets. 3. Renegotiate,	Dirs. NERC-C & NERC-RTP Trakowski Assigned PO's.

17 REMARKS. Task 15: SRO status unknown. Official inquiries have been initiated -- no feedback.

REASON FOR DELAY CODE

FUNDING -- F FF - Funds Frozen FI - Funding Insufficient FD - Funds Diverted (specify) FL - Funds Late (Example delay in advice of allowance)

ADMINISTRATIVE - A

AD — Equipment Delays AF — Equipment Failure

AG - Grant/Contract Delay (specify)
AO - Other Administrative (specify)

AP - Personne | Problems (specify)

STAFFING - OTHER -- D/O

DA — Diversion of Staff for Technical Assistance

DO - Diversion of Staff for Other Than Technical Assistance (specify)

1.Program Element IBB036	'2 Rosp No. 21-AZR	3. Roap Title	(See Page 1)		4. Date 26 Sep 73	5.Page No
6. Total Tasks in Roaps	7. No. Tasks Completed	8. No . Active Tasks	9. No. on Schedule	10. No.Completed CFY		12.
13. Program Chief		14. Roap Manager		15.	4	

16. TASKS DELAYED

Task No.	Brief		months delayed	original target	proposed target	Reason	Recommended Action	By Whom
. "	from develo treatment a	cute and chronic) of effluent ped/developing pesticide and discharge (BPT) class R&D (SRO 51-AZR-1B1021-16)	s 8	7/73	2/74		1. Same as Tasks 14 & 15. 2. Coordinate with Duluth staff in "complex industrial effluents program" to meet need (SRO).	Same as Tasks 14 & 15. Dir.NERC-C PED 1BB036 PO's in- volved.
17		nt condensate treatment le - air and water)	3	10/73	1/74	(FL) AO	1. Clarify interface. 2. Negotiate grant (in system) to meet need as redefined. 3. Expedite grant (redefined) processing and initiation.	PO-1BB036 and PED - 1BB036

17 REMARKS. Task 16: SRO status unknown - see remarks for Tasks 14 and 15.

Task 17:

1. Grant application was received late. 2. Advice of allowance not received. 3. Minor scope/budget questions need resolution prior to grant funding approval. 4. Successful interface both technologically and managerially with Tasks 12 and 14 must be assured during scope revision discussions.

REASON FOR DELAY CODE

FUNDING -- F

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FD - Funds Diverted (specify)

FL - Funds Late (Example delay in advice of allowance }

ADMINISTRATIVE - A

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AP - Personnel Problems (specify)

STAFFING - OTHER -- D/O

DA - Diversion of Staff for Technical Assistance

DO- Diversion of Staff for Other Than Technical Assistance (specify)

1 Program Element IBB036	ZTAZT	tion of the D	ischarge of Poll	rch for the Elimina Lutants from Texti	le Industry	·
16	7. No Tasks Completed 03	8.No.Active Tasks	9.No on Schedule	0 . No.Completed CFV	11 No Delayed	12.
13. Program Chief Dr. H.P. Nichol		14. Roap Manager		15.		<u>-</u>

16. TASKS DELAYED

Task No	Brief Description	months delayed	original target	proposed target	Reason	Recommended Action	By Whom					
08	Extramural project - Demonstrate membrane technology recycle/reuse at multiple sites	03	9/30/73	12/31/7	3 AG/Grant applicati will be submitted late	on in formulating proposal	ROAP Mgr					
09	Extramural project - Demonstrates the reduction/elimination of dye waste discharges using solvent dying systems	**	. 10/31/7:	**	AG	Attempt to interest appropriate segments of the industry in cooperating in this project.	ROAP Mgr					

17 REMARKS:

**Task 21AZT-09 - No interest expressed in this task to date by textile industry. "Months delayed" and "proposed target" can be estimated once initial contacts have been made with textile industry.

REASON FOR DELAY CODE

FUNDING -- F

FF- Funds Frozen

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FD - Funds Diverted (specify)

FL - Funds Late (Example. delay in advice of allowance)

ADMINISTRATIVE - A

AD - Equipment Delays

AF - Equipment Failure

AG - Grant/Contract Delay (specify)

AO - Other Administrative (specify)
AP - Personnel Problems (specify)

STAFFING - OTHER -- D/O

DA - Diversion of Staff for Technical Assistance

DO - Diversion of Staff for Other Than Technical Assistance (specify)

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1 Program Element 1BB036	² Roap No. 21AZV	Rosp Title Municipal	of Pollut	ants from Jo Iv Owned Tro	oint Indust eatment Wor	trial 4.Date rkds 9/26/73	5 Page No
6 Total Tasks in Roa 40	ps 7. No Tasks Completed	8.No.Active Task	s 9.No on 3	cnedule 10.	No Complete	d CFY 11. No. Delayed	1 2.
13 Program Chief	<u></u>	14 Roap Manag	er		<u> </u>	i0	
Marvin L. Woo	<u>d</u>	Leon H. My	ers			 	
		16 TASKS	DELAYE	D			
Task No. Brie	f Description		onths origeisyed tar	in al proposed get target	Reason	Recommended Action	By Whom
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. 17. REMARKS				t	<u> </u>	<u> </u>	<u> </u>
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FL - Funds La		AO - Other	ment Failuí Contract l Administrat)	DA - Diversion of Sta Assistance DO - Diversion of Sta Technical Assis O - Other (specify	aff for Other Than stance (specify)

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	Element	'2 Roap No. 58 AAH	3. Roap Tit	Assis	stance_to	Technol	ogy Trans	fer 2 Oct 73	5.Page No	1_1
6. Total T	sks in Roaps	7. No. Tasks Completed	8.No. Active T	BBKS 9.N	o. on Sched	ule Ho.N	o.Complete	CFY 11 No. Delayed	12	-
03_		0	03	<u> </u>	03		0	0	+	
13. Progr Dr. H.	am Chier P. Nicholso	on	14. Roap Mar	N. Saro	ent		15.			
			16 TAS	KS DE	LAYED					
Task No	8 r le f	Description		months delayed		proposed target	Reason	Recommended Action		By Whom
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17. REMARKS.

REASON FOR DELAY CODE

FUNDING -- F

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FD - Funds Diverted (specify)
FL - Funds Late (Example delay in advice of allowance)

ADMINISTRATIVE - A

AD - Equipment Delays

AF - Equipment Failure

AG - Grant/Contract Delay (specify)
AO - Other Administrative (specify)

AP - Personnel Problems (specify)

STAFFING - OTHER -- D/O

DA - Diversion of Staff for Technical

DO- Diversion of Staff for Other Than Technical Assistance (specify)

1 Program Element 1BB037	'2 Rosp No. 21-AZX		Closed-loop	.Wood Pulping	4.Date 10/5/73	5.Page No.
6 Total Tasks in Roaps 7	0	8.No.Active Tasks 7	9. No. on Schedule 4	10.No.Completed CFY	.11. No. Delayed	12.
13. Program Chief J.R. Boydston		14. Roap Manager	ard	15.		

16. TASKS DELAYED

Task No	Brief Description	months delayed		proposed target	Reason	Recommended Action	By Whom
02	Preparation bi-annual project assessment; evaluation of non-EPA Fedenal projects related to ROAP In-house assessment of effluent limitations etc.		a. 1/74 b. 7/74	3/74 7/74	DA	Delay final request date.	PEM
30	Water quality requirements for pulping water recycle.				FI	Transfer funds to 21-AZY: 12 when available	PED
03	Final report published.	1-3			AG & AO	PED has declined to carry out recommendation of P.O. This should be effected on grant 12040 DEH.	PED

17 REMARKS.

REASON FOR DELAY CODE

FUNDING -- F

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FD - Funds Diverted (specify)

FL - Funds Late (Example delay in advice of allowance)

ADMINISTRATIVE - A

AD — Equipment Delays AF — Equipment Failure

AG - Grant/Contract Delay (specify) AO - Other Administrative (specify)

AP - Personnel Problems (specify)

STAFFING . OTHER -- D/O

DA - Diversion of Staff for Technical Assistance

DO- Diversion of Staff for Other Than Technical Assistance (specify)

1.Program Element 1BB037	'2 Roap No. 21-AZY		Closed-loop	.Paper Prod.	10/5/73	5.Page No.
6. Total Tasks in Rosps	7. No. Tasks Completed	8.No.Active Tasks	9.No. on Schedule	10. No Completed CFY	11 No. Delayed	1 2.
6	1	5	1	1	4	I
13. Program Chief J.R. Boydston)	14. Roap Manager J.S. Ruppe	rsberger	15.		

16. TASKS DELAYED

Task No	Brief Description	months delayed	original target	proposed target	Reason	Recommended Action	By Whom
09	Final reports published.	1-3			AG	Adjust completion date.	P.O. (RM)
10	In-house report preparation.		a. 1/74 b. 3/74 c. 7/74	3/74 6/74 	DA & AF	Delay final request date.	PEM
12	Grant	3			FF	Relax freeze.	PAG
13	Grant	3			FF	Relax freeze. *	

17. REMARKS:

* Light small bon fire under chair of D.O.

REASON FOR DELAY CODE

FUNDING -- F

FF- Funds Frozen

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FD - Funds Diverted (specify)

FL - Funds Late (Example delay in advice of allowance)

ADMINISTRATIVE - A

AD - Equipment Delays

AF - Equipment belays

AG - Grant/Contract Delay (specify)

AO - Other Administrative (specify)
AP - Personnel Problems (specify)

- DA Diversion of Staff for Technical Assistance
- DO Diversion of Staff for Other Than Technical Assistance (specify)
- O- Other (specify)

1. Program Element TBB037	2. Rosp No 21-AZ		3. Roap Title Industrial.		Products	4. Date 10/5/73	5.Page No.
6. Total Tasks in Rosps 4	7. No. Tasks	Completed	8.No.Active Tasks	9.No. on Schedule	10.No.Completed CF	11. No. Delayed 2	12.
13 Program Chief)		14. Roap Manager A.L. Ewing		15.	·	

16. TASKS DELAYED

Task No.	Brief Description	months delayed	proposed target	Resson	Recommended Action	By Whom
,			 			
07	Final report published.	1-3	 	AD	Adjust completion date.	P.O. (RM)
08	In-house bi-annual reports.	1-3	 	DA	Delay final request date.	PEM
09	Grant	3	 	FF	Relax freeze.	PAG

17. REMARKS:

REASON FOR DELAY CODE

AP - Personne | Problems (specify)

FF - Funds Frozen FI - Funds Diverted (specify) FL - Funds Late (Example delay in

advice of allowance)

- DA Diversion of Staff for Technical
 Assistance
 DO Diversion of Staff for Other Than
- DO Diversion of Staff for Other Than
 Technical Assistance (specify)
 O Other (specify)

1 Program Element 1BB037	2 Roap No. 21-BAA	Industrial.	Meat & Edible		10/9/73	5.Page No
46	7 No Tasks Completed	15	11	10. No.Completed CFY	11. No Delayed 4	12
13 Program Chief J.R. Boydston	· · · · · · · · · · · · · · · · · · ·	14. Rgap Manager	OW	15.		

16 TASKS DELAYED

Task No	Brief Description	months delayed	original target	proposed target	Reason	Recommended Action	By Whom
12	Demonstrate aerobic treatment & spray irrigation for small meat packers	18	9/73	3/75	DO Temp. position frozen.	See Task 13	- -
13	In-house analytical support of Task 12	18	9/73	3/75	AG Error in contract procedure	Wait for contracting officer to act.	NERC Cin.
14	In-house direction of Task 12.	18	9/73	3/75	0 Result of 12 & 13	Wait for Task 13.	
19	Demonstrate fluid bed dryer and incineration		10/74		AG Grant offer rejected	Delete Task.	PAM

17 REMARKS:

REASON FOR DELAY CODE

FUNDING -- F

FF - Funds Frozen

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FD - Funds Diverted (specify)

FL - Funds Late (Example delay in advice of allowance)

ADMINISTRATIVE - A

AD - Equipment Delays

AF - Equipment Failure

AG - Grant/Contract Delay (specify)

AO - Other Administrative (specify)
AP - Personne I Problems (specify)

- DA Diversion of Staff for Technical Assistance
- DO Diversion of Staff for Other Than Technical Assistance (specify)
- O- Other (specify)

1. Program Element 188037	'2 Rosp No. 21-BAB	3 Rosp Title Industrial.		Sugar &	4. Date	5 Page No
					lucits 10/9/73	lo12
6 Total Tasks in Roaps	7 No. Tasks Completed	8.No.Active Tasks	9. No. on Schedule	10.No Completed CFY	11 No. Delayed	1 2.
100	26	17	9	l o	8	1
13. Program Chief J.R. Boydston		14. Roap Manager		15		<u> </u>
J.R. Boydston		! H.W. Ihom	IDSON			

16. TASKS DELAYED

Task No	Brief Description	mon the delayed	original target	proposed target	Reason	Recommended Action	By Whom
28	State of art - prepared food industry	4	8/73		AG Grantee sampling delayed	Extension requested.	P.O.
29	Pilot plant - low liquid waste	2	10/73	12/73	DA	Grant extended.	
	vegetable blancher.	7	2/74	2/74	AG Director left country	Extend termination.	D.O.
31	State of art - sweet potato	3	8/73	11/73	DA	Extend termination	P.O.
33	By-products from waste activated sludge.	6	9/73	3/74	AG No appl.	Wait for application.	

17 REMARKS

REASON FOR DELAY CODE

FUNDING -- F FF - Funds Frozen FI - Funding Insufficient FD - Funds Diverted (specify) FL - Funds Late (Example delay in advice of allowance) AD - Equipment Delays AF - Equipment Failure AG - Grant/Contract Delay (specify) AO - Other Administrative (specify) AP - Personnel Problems (specify)

- DA Diversion of Staff for Technical Assistance
- DO Diversion of Staff for Other Than Technical Assistance (specify) O - Other (specify)

1 Program Element 1BB037	'2 Roap No. 21-BAB	3.Roap Title Industrial.		Jub 1 CD ,	ducts 10/9/73	5.Page No 2 of2
6. Total Tasks in Roaps	7. No. Tasks Completed	8.No Active Tasks	9 No. on Schedule	10. No Completed CFY	11. No. Delayed	12.
13 Program Chief J.R. Boydston		14. Roap Manager H.W. Thompso	<u>9</u>	15.	8	

16. TASKS DELAYED

Task No	Brief Description	months delayed	original target	Proposed target	Reason	Recommended Action	By Whom
36	Low water use - leafy vegetable clean- ing.	4	8/73	12/73	AG Appl. late	Process grant application.	D.O.
38	Low water use for cleaning root crops.	8	8/73	4/74	AG No appl.	Wait for application.	
85	Cane harvesting & cleaning.	5	7/73	12/73	AG Three mo. strike	Grant extended.	
88	Beet sugar unit process water quality requirements.		8/73		AG No appl.	Delete task.	РАМ

17 REMARKS.

REASON FOR DELAY CODE

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ADMINISTRATIVE - A

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AF - Equipment Failure

AG - Grant/Contract Delay (specify)

AO - Other Administrative (specify)
AP - Personnel Problems (specify)

- DA Diversion of Staff for Technical Assistance
- DO Diversion of Staff for Other Than Technical Assistance (specify)
- O- Other (specify)

1 Program Element IBB037	2 Rosp No. 21-BAC	3. Roap Title Industrial.	Grain Mills 8	& Beverages	4. Date 10/9/73	5.Page No
6. Total Tasks in Roaps	7. No. Tasks Completed	8.No.Active Tasks	9. No. on Schedule	10.No.Completed CFY	11. No. Delayed	1 2.
_ 34	5	9	6	0	3	
34 13. Program Chief J.R. Boydston		14. Roap Manager M.W. Cochra	no	15		

16. TASKS DELAYED

Task No	Brief Description	months delayed		proposed target	Reason	Recommended Action	By Whom
04	Treatment and reuse in wine production.	8	8/73	4/73	FF & AG No appl.	Wait for grant application.	
08	Activated sludge treatment of winery wastewater.	5	7/73	12/73	DA	Complete review of final report.	P.O.
10	Pilot plant treatment of wine stillage.	5	7/73	12/73	DA	Complete review of final report.	P.O.

17 REMARKS

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ADMINISTRATIVE_- A

AD - Equipment Delays

AF - Equipment Failure

AG - Grant/Contract Delay (specify)

AO - Other Administrative (specify) AP - Personnel Problems (specify)

- DA Diversion of Staff for Technical Assistance
- DO Diversion of Staff for Other Than Technical Assistance (specify)
- O- Other (specify)

1.Program Element 1BB037	2 Rosp No. 21-BAD	3. Roap Title Industrial.	Miscellaneo	cts_and us_Foods	10/9/73	5.Page No
6 Total Tasks in Roaps	7. No. Tasks Completed	8.No.Active Tasks	9. No. on Schedule 6	10.No.Completed CFY	11. No. Delayed 2	12.
13. Program Chief J.R. Boydston	1	14. Roap Manager M.W. Cochra	ne	15.		

16. TASKS DELAYED

Task No	Brief Description	months delayed		proposed target	Reason	Recommended Action	By Whom
05	Dissolved-air flotation of seafood processing waste.	9	6/73	3/73	FF & AG No appl.	Wait for grant application.	
14	Literature review - misc. food processing wastes.	7	8/73	3/73	FF & AG No appl.	Wait for grant application.	

17 REMARKS

REASON FOR DELAY CODE

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FI - Funding Insufficient

FD - Funds Diverted (specify)

FL - Funds Late (Example. delay in advice of allowance)

ADMINISTRATIVE - A

AD - Equipment Delays

AF - Equipment Failure AG - Grant/Contract Delay (specify)

AO - Other Administrative (specify) AP - Personne | Problems (specify)

- DA Diversion of Staff for Technical Assistance
- DO- Diversion of Staff for Other Than Technical Assistance (specify)
- O Other (specify)

1 Program Element	'2 Rosp No.	3. Roap Title			4. Date	5.Page No
<u>1BB</u> 037	21-BAE	Industrial.	Misc. Ind./S	Stone Clav. Glass	10/9/73	
6 Total Tasks in Roap	s 7. No Tasks Completed	8.No Active Tasks	9. No. on Schedule	10. No.Completed CFY	11. No. Delayed	12.
12	! 0	12	10	11	2	1
13. Program Chief J.R. Boydsto	n	14. Roap Manager M.D. Knit	tel	15.		

16 TASKS DELAYED

Task No	Brief Description	months delayed		proposed target	Reason	Recommended Action	By Whom
17	Grant - reuse brines from ion exchange softening.	3	8/73	11/73	AF	Extend grant period.	P.O.
18	Mag. carb. coag. for municipal water.	3	9/73	12/73	AF (1)	Extend grant period.	P.O.
		'					

17 REMARKS

(1) Grant amendment issued 7/73.

REASON FOR DELAY CODE

FUNDING -- F FF - Funds Frozen FI - Funding Insufficient FD - Funds Diverted (specify) FL - Funds Late (Example: delay in advice of allowance)

ADMINISTRATIVE - A

AD — Equipment Delays AF — Equipment Failure

AG - Grant/Contract Delay (specify)

AO - Other Administrative (specify) AP - Personnel Problems (specify)

- DA Diversion of Staff for Technical Assistance
- DO Diversion of Staff for Other Than
- Technical Assistance (specify)
 O Other (specify)

1 Program Element 1BB037	2. Roap No. 21-BAF	Rosp Title Industrial.	Joint Light	Ind./Munic.	10/9/73	5.Page No
6 Total Tasks in Roaps	7. No Tasks Completed	6.No Active Tasks	9 No on Schedule	10.No Completed CFY	11 No. Delayed	12
13 Program Chief J.R. Boydston		M.D. Knitte	el	15.		

16 TASKS DELAYED

Task No	Brief Description	months delayed	original target	proposed turget	Resson	Recommended Action	By Whom
17	Pilot processing for cleaning sugar cane.	3	9/73	12/73	AD	Extend grant period.	P.O.

17 REMARKS.

REASON FOR DELAY CODE

FUNDING -- F

FF - Funds Frozen

FI - Funding Insufficient

FD - Funds Diverted (specify)
FL - Funds Late (Example delay in advice of allowance)

ADMINISTRATIVE - A

AD — Equipment Delays AF — Equipment Failure

AG - Grant/Contract Delay (specify)

AO - Other Administrative (specify)
AP - Personnel Problems (specify)

STAFFING - OTHER -- D/O

DA - Diversion of Staff for Technical Assistance

DO - Diversion of Staff for Other Than Technical Assistance (specify)

		QUARTER	LY R	OAP on & Gui	STAT delines	US RE	PORT	
1 Program 1BB03	Element 2 Roap No. 9 2 AYN sks in Roaps 7 No Tasks Comp	3. Roap T	itle Of Ar	ilmal Was	tes, Irr	igation Re	eturn 4 Date 5.Pag	ge No }ot}-
6. Total Ta	sks in Roaps 7 No Tasks Comp	eted 8 No Active	Tasks 9.	lo on Sched	Sule 10.N	O Complete	d CFV 11 No Delayed 12	
13. Marvi	r €. Wood	14 Reap M	naghuy 1e			15		
		16 TA	SKS DE	LAYED				
Task No	Brief Description		months delayed		proposed target	Reason	Recommended Action	By Whom
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17. REM#	ARKS:							
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	FUNDING F		STRATIV				STAFFING - OTHER D/O	
FF-	Funds Frozen		u ip ment				DA - Diversion of Staff to	
FI-	Funding Insufficient Funds Diverted (Specify)	AF- Eq	uipment		v (specify)	Assistance DO - Diversion of Staff for (
	Funds Late (Example delay advice of allowance)	/ In AO - Ot	her Admir	nistrative Problem	(specify))	Technical Assistance (O- Other (specify)	

QUARTERLY ROAP STATUS REPORT Development & Demonstration of Crop/Soil/Water 3. Roap Title Management Methods to Reduce Volume 5.Page No 4 Date 1 Program Element 2 Roap No. 1BB039 21AYR and Pollutants in Irrigation Return Flow 6 Total Tasks in Rosps 7 No Tasks Completed 8.No Active Tasks 9.No on Schedule 10.No Completed CFY 9/26/73 ___l__o1__l-----11. No. Delayed 14. Boan Managew , Jr. 15 13 Marvin Chie TASKS DELAYED 16.

Task No	8 rie f	Description	months delayed		proposed target	Reason	Recommended Action	By Whom
08	Prototype of management	evaluation of irrigation practices (In-house)	12	6/30/75	6/30/76	FI/O	Project now underway. Man- years assigned inadequate	Headquarter

17 REMARKS.

REASON FOR DELAY CODE

FUNDING -- F

FF - Funds Frozen

FI - Funding Insufficient

FD - Funds Diverted (specify)

FL - Funds Late (Example delay in advice of allowance)

ADMINISTRATIVE - A

AD - Equipment Delays

AF - Equipment Failure

AG - Grant/Contract Delay (specify)

AO - Other Administrative (specify) AP - Personne i Problems (specify)

- DA Diversion of Staff for Technical Assistance
- DO Diversion of Staff for Other Than Technical Assistance (specify)
- O- Other (specify)

1 Program P 1BB039 6 Total Tas 9	Element ks in Roaps	'2 ROAD NA AZTAYR 7. No Tasks C	ompleted	3	(Sam Tasks 9 N	e as 21 /	AYR)	lo.Complete	4 Date 9/26/73 11. No. Delayed 0	5 Page No 	01
13. Program Marvin	m Chiel L. Wood	- · · · · · · · · · · · · · · · · · · ·		14.Roap M James F	. Ľaw, J	r.		15			
				16. TA	SKS DE	LAYED					
Task No.	Brief	Descriptio	n		months delayed	original target	proposed turget	Reason	Recommended Action		By Whom
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17 REMARKS.

REASON FOR DELAY CODE

FUNDING -- F

FF- Funds Frozen

FI - Funding Insufficient

FL - Funds Late (Example: delay in

FD - Funds Diverted (specify) advice of allowance)

ADMINISTRATIVE - A

AD - Equipment Delays

AF - Equipment Failure

AG - Grant/Contract Delay (specify)

AO - Other Administrative (specify) AP - Personnel Problems (specify)

- DA Diversion of Staff for Technical Assistance
- DO Diversion of Staff for Other Than Technical Assistance (specify)
- O- Other (specify)

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Program E 1BB039	lement	2 Roap No 21AYS	3. Roap Titl	Develo	pment &	Demonstr	ation of F	redicti MeDate 9/26/73	5.Page No	-4 1
Total Tas	ks in Roaps	7. No Tasks Comp	eted 8.No. Active Ta	ks 9.N	6. on Sched	ide lo	o Complete	d CFV 11. No. Delayed	12	<u>or</u>
3 Program	n Chief	'	14. Roap Man	nge r	4		0 15.	0	<u> </u>	
Marvin	L. Wood		lames P	Law, J					. 	
			16. TASK		LAYED			,		
ask No	Brief	Description		months delayed	original target	proposed target	Reason	Recommended Action		By Whom
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7 REMAI	RKS:									

FUNDING -- F

FF - Funds Frozen

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FD - Funds Diverted (specify)
FL - Funds Late (Example detay in

advice of allowance)

ADMINISTRATIVE - A

REASON FOR DELAY CODE

AD - Equipment Delays

AF - Equipment Failure

AG - Grant/Contract Delay (specify)

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- DA Diversion of Staff for Technical Assistance
- DO Diversion of Staff for Other Than Technical Assistance (specify)
- 0- Other (specify)

QUARTERLY ROAP STATUS REPORT Land Disposal, Treatment and Control

1 Program Element 1BB039	'2 Roap No A2TAYV	3. Roap Title (oncepts for Wast	es from Animal	9/20/73	5.Page No
6 Total Tasks in Roaps 05	7 No Tasks Complete	8 No Active Tasks		10. No Completed CFY	11. No Delayed	12
13 Program Chie! Marvin L. Wood		14. Roap Manager Lynn R. Shu	yler	15		

TASKS DELAYED

				,			
Task No	8 rief Description	months delayed		proposed target	Reason	Recommended Action	By Whom
03	Develop user-oriented state-of-the-art for land disposal of animal wastes, delineating land loading criteria for major production areas, including mathematical runoff and infiltration modeling where available.	4	9/1/73	1/1/74	FF	Ask for release of funds when grant package is ready for processing	HQ

17 REMARKS

Formal application for funds is not ready as of this date; it is expected within 30 days. 03

REASON FOR DELAY CODE

FUNDING -- F

FF - Funds Frozen

FI - Funding Insufficient

FD - Funds Diverted (specify)

FL - Funds Late (Example delay in

advice of allowance)

ADMINISTRATIVE - A

AD - Equipment Delays

AF - Equipment Failure

AG - Grant/Contract Delay (specify)

AO - Other Administrative (specify) AP - Personnel Problems (specify)

- DA Diversion of Staff for Technical Assistance
- DO Diversion of Staff for Other Than
- Technical Assistance (specify) O - Other (specify)

QUARTERLY ROAP STATUS REPORT Land Disposal, Treatment & Control

2 Roap No 21AYV Program Element 3. Roap Title Concepts for Wastes from 4 Date 5 Page No 1BB039 21AYV Animal Feeding Enterprises 9/20/73
6 Total Tasks in Roaps 7 No Tasks Completed 8.No. Active Tasks 9.No. on Schedule 10 No. Completed CFV 11. No Delayed _l_____ 16 13 Program Chief Marvin L. Wood 14 Roap Manager 15 Lynn R. Schuvler

TASKS DELAYED

				,			
Task No	Brief Description	months delayed		Proposed target	Reason	Recommended Action	By Whom
03	Demonstration of rotating biological contracter for treatment of swine wastes and recycled waste water for confinement building flushing systems.	4	2/1/73	6/30/73	AD	Extension granted by PO and HQ prior to NERC having authority.	PO
05	To modify existing soils with barrier at a depth which will enhance the soils ability to remove nitrogen and phosphate from waste water and allow recovery & reuse of the waste water.	6	3/30/73	9/30/73	0	Extension granted by PO	PO
06	To study the effectiveness of liquid aerobic composting on dairy wastes in Chino Valley, California, and to evaluate the results of such a system.	4	5/30/73	10/30/7	3 0	Extension granted	PO

17 REMARKS 03 - Project is finished; please note change of stop date.

05 - Additional data was obtained by extending the grant period without additional funding.

06 - This extension was needed to evaluate the system during hot weather.

Grant application not received this date. Due to shortage of funds, task may be deactivated to allow continuation of ongoing work.

REASON FOR DELAY CODE

FUNDING -- F

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FD - Funds Diverted (specify)

San San San

FL - Funds Late (Example delay in advice of allowance)

ADMINISTRATIVE - A

AD - Equipment Delays

AF - Equipment Failure

AO - Other Administrative (specify) AP - Personne I Problems (specify)

AG - Grant / Contract Delay (specify)

- DA Diversion of Staff for Technical Assistance
- DO Diversion of Staff for Other Than Technical Assistance (specify)
- O- Other (specify)

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1 Program Element '2 F	Roap No. 3 Roap Title C	oncepts for Wastes	from Animal	4 Date	5.Page No
1BB0392	Tasks Completed 8.No Active Tasks	terprises		9/20/73	2of2
6 TotārTašks in Roaps 7 No	Tasks Completed 8.No Active Tasks	9. No on Schedule 10.	No Completed CFY 1	1 No. Delayed	12
	416	13	1 !	Λ	1
13 Program Chief Marvin L. Wood	14 Roap Manage	r	15.		<u> </u>
<u>Marvin L. Wood</u>	lLynn R. Sh	uvler			

16 TASKS DELAYED

Task No	Brief Description	months delayed	original target	proposed target	Reason	Recommended Action	By Whom
17	Demonstrate spray runoff treatment methods for central plains for beef cattle feedlot located in moderate rainfall area.		8/1/7: Start		AG,FD	Possible deactivation of task for FY -74	Lab Dir

17 REMARKS

REASON FOR DELAY CODE

FUNDING -- F

FF - Funds Frozen

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FL - Funds Late (Example delay in

advice Of allowance)

ADMINISTRATIVE - A

AD - Equipment Delays

AF - Equipment Failure

AG - Grant/Contract Delay (specify)

AO - Other Administrative (specify) AP - Personnel Problems (specify)

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- DO Diversion of Staff for Other Than Technical Assistance (specify)
- O- Other (specify)

1 Program Element	2 Roap No	3. Roap Title FC	rmulation & Fie	ld Verification of	4 Date	5 Page No
1BB039	21AYP	Pesticide & N	Jutrient Runoff,	Mathematical Models	9/27/73	1013
6 Total Tasks in Roaps	s 7 No Tasks Completed 8	J.No Active Tasks	9. No on Schedule	10 No Completed CFY 1	11 No. Delayed	12.
53	5	22	11	0	11	1
13 Program Chief Dr.	H. P. Nicholson	14 Roap Manager	Dr. George W. Ba	ailey 15		

16 TASKS DELAYED

Task No	Brief Description	months delayed	original target	proposed target	Reason	Recommended Action	By Whom
05	Res Grant (R800401) Nutrient Input to Streams from Fertilizer	6	6/30/73	12/30/74	AG Initial Draft Late	Lean on grantee garder to finish final report	Project Officer
06	Res Grant (13020EBL) Pesticide Movement from Cropland into Lake Erie	6	6/30/73	12/30/74	AG Initial Draft Late	Complete review of initial draft of final report	Project Officer
08	Data Reduction and Analysis for Initial Testing and Model Calibration	3	6/30/73		O Data Not Available from IA Agreement Cooperator		

17 REMARKS Extensive ROAP revisions are required; these resulting from redefinition of agency needs & deadlines as viewed by PAM. ROAP revisions cannot be completed until resource issues are resolved; program review with Assistant Administrator for R&D required to resolve critical issues (originally scheduled for 9/20/73 but cancelled & not rescheduled as yet). Slippage in model development contracts due to data transmittal problems/or model redefinition requirements. Differences between FY & growing season complicate model testing & development. PERT chart completed for development, calibration, testing & verification of pesticide & plant nutrient models in 4 major geographic regions through FY 80 (projected program completion date). ROAP revisions anticipated include tasks 17, 18, 19, 20, 21, 26, 27, 30, 32, and 33.

REASON FOR DELAY CODE

FUNDING -- F

- FF Funds Frozen
- FI Funding Insufficient
- FD Funds Diverted (specify)
- FL Funds Late (Example delay in advice of allowance)

ADMINISTRATIVE - A

- AD Equipment Delays
- AF Equipment Failure
- AG Grant/Contract Delay (specify)
- AO Other Administrative (specify)
 AP Personnel Problems (specify)

- DA Diversion of Staff for Technical Assistance
- DO Diversion of Staff for Other Than Technical Assistance (specify)
- O- Other (specify)

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1 Program Element 1BB039	2 Roap No. 21AYP	3 Roap Title F	ormulation & Fie	ld Verification of	4. Date	5 Page No
		Pesticide &	Nutrient Runoff	Mathematical Mode	ls 9/27/73	2013
6 Total Tasks in Roap	s 7. No. Tasks Completed	8 No Active Tasks	9 No. on Schedule		11 No. Delayed	12
53	5	22	11	0	11	i -
13. Program Chief Dr.	. H. P. Nicholson	14 Roap Manager	Dr. George W. Ba	ilev 15		

16 TASKS DELAYED

Task No	Brief Description	months delayed	original target	proposed turget	Reason	Recommended Action	By Whom
10	ROAP Supervision - Interim Report, Pesticide Runoff Model Piedmont, Rest of Milestones on Schedule	2	8/15/73		Chge in	ROAP revision - Change to interim in-house report on FY-73 work plan	ROAP Manager
11	Contract (68-01-0721) Pesticide Runoff Model Definition & Testing, Mechan- istic Approach ESL	5	8/30/73	;	AG Scope Chge Needed	Action of proposed scope change	Project & Contractin Officers
12	Contract (68-01-0887) Pesticide Runoff Model Definition Testing Lumped Para- meter Approach - Hydrocomp	4	8/26/73	12/30/7	B AG Needed Data not Transmitte	Action taken	Project Officer
15	Res Grant (801835) Pesticide Volatility Sub-Model	7 6	10/30/73	4/30/74	AP Delay in Filling Post-Doc. Position	Give grant extension (ROAP target date in error)	Project Officer

17 REMARKS

REASON FOR DELAY CODE

FUNDING -- F

FF - Funds Frozen
FI - Funding Insufficient

FD - Funds Diverted (specify)

FL - Funds Late (Example delay in advice of allowance)

ADMINISTRATIVE - A

AD - Equipment Delays AF - Equipment Failure

AG - Grant/Contract Delay (specify)

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STAFFING - OTHER -- D/O

DA - Diversion of Staff for Technical Assistance

DO - Diversion of Staff for Other Than Technical Assistance (specify)

O- Other (specify)

1 Program Element IBBU39	2 Roap No. 21AYP			ld Verification of		5 Page No
	7 No Tasks Completed	Pesticide & N B.No Active Tasks	utrient Rumoff N 9.No. on Schedule	(athematical Models 10.No Completed CFV	9/27/73 11. No. Delayed	12
53	5	22	11	0	11	
13 Program Chief Dr.	H. P. Nicholson	14 Roap Manager	Dr. George W. Ba	ailey 15		

16 TASKS DELAYED

		16 145	KS DE	LATED				
Task No	Brief	Description	months delayed	original target	proposed target	Reason	Recommended Action	By Whom
19	Pesticide 1 Model	Microbial Degradation Sub-	3	9/15/73	12/15/73	DO Diversion to Task 2 ²	Re-direct personnel	Program Chief
22	Organism U	ptake Sub-Model	2	10/15/73	12/15/74	DO Diversion to 21AYP, 24	Re-direct personnel	Program Chief
26		or Software Development and tion for Tasks 11, 12, & 23	4	9/30/73	1/30/74	AO	Re-define task after Agency & program needs redefined (see remarks)	AAR&D PAM, PED Program Chief
27		or Correlation & Analysis ata from Task 23	3	11/1/73		AO	Re-define task after Agency program needs redefined (see remarks)	AAR&D PAM, PED Prog Chief

17 REMARKS

REASON FOR DELAY CODE

FUNDING -- F

FF - Funds Frozen

FI - Funding Insufficient

FD - Funds Diverted (specify)

FL - Funds Late (Example delay in advice of allowance)

ADMINISTRATIVE - A

AD - Equipment Delays

AF - Equipment Failure

AG - Grant/Contract Delay (specify)

AO - Other Administrative (specify)
AP - Personnel Problems (specify)

- DA Diversion of Staff for Technical Assistance
- DO Diversion of Staff for Other Than Technical Assistance (specify)
- O- Other (specify)

			37		/·
1 Program Element	'2 Roap No	3. Roap Title		4 Date	5 Page No
1BB039	21AYU	Waste Treatment & Disposal	Sys for Poultry Waste	9/25/73	1011
6 Total Tasks in Roaps	7 No Tasks Completed	8 No Active Tasks 9. No on Schedule	10 No Completed CFY	1 No. Delayed	12
3	' 0	3 2	0	1	
13 Program Chief		14 Roap Manager	15		
H.	P. Nicholson	Lee A. Mulkey			
		16 TASKS DELAYED			

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Task No	Brief Description	months delayed		proposed target	Reason	Recommended Action	By Whom
02	Development of Biological Treatment System Coupled with Land Disposal for Egg Production Wastes	de layed	target	10/15/73		Request Funds Release	НQ

17 REMARKS Delays in grant award (this is continuation award for final year of a three-year project) are creating substantial administrative and financial difficulties for grantee.

REASON FOR DELAY CODE

FUNDING -- F

FF - Funds Frozen

FI - Funding Insufficient

FD - Funds Diverted (specify)

FL - Funds Late (Example delay in advice of allowance)

ADMINISTRATIVE - A

AD - Equipment Delays

AF - Equipment Failure

AG - Grant/Contract Delay (specify)
AO - Other Administrative (specify)

AP - Personnel Problems (specify)

- DA Diversion of Staff for Technical
- DO Diversion of Staff for Other Than Technical Assistance (specify)
- O Other (specify)

Program E	lement	'2 Roap No _{21BBV}	UARTERL					PORT	5 Page No	
Total Tas	al Tasks in Roaps 7 No. Tasks Completed 8 No Active 2 0 2 rogram Chief Dr. H. P. Nicholson 14 Roap N L.A. M			sks 9.N	o. on Sched	ule 10 N	O Complete	d CFY 11 No Delayed	12.	
	DI.H.P.NI	Chorson	16 TASK		LAYED		11			
Task No	Brief	Description		months delayed		proposed target	Reason	Recommended Action	Ву	Whom
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17 REMARKS.

REASON FOR DELAY CODE

FUNDING -- F

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FI - Funding Insufficient

FD - Funds Diverted (specify)

FL - Funds Late (Example. delay in advice of allowance)

ADMINISTRATIVE - A

AD - Equipment Delays

AF - Equipment Failure

AG - Grant/Contract Delay (specify)
AO - Other Administrative (specify)

AP - Personnel Problems (specify)

STAFFING - OTHER-- D/O

DA - Diversion of Staff for Technical Assistance

DO - Diversion of Staff for Other Than Technical Assistance (specify)

O- Other (specify)

QUARTERLY ROAP	STATUS	REPORT
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1 Program 1BB04	Element	2 Roap No. 21 AGD	3. Roap Tit	le Cont Prod	rol of P	ollution	Caused by	0il Pate 9/25/73	5 Page No	01	
6 Total Ta	sks in Roaps 9	7. No Tasks Comple	ted 8.No Active T	sks 9 N	o on Sched	lule 10.N	O Complete	CFY 11. No Delayed	'1 2.		
13 Progra Mar	vin L. Wood		14 Roap Mar Fred M	ager Pfeff	er		15	<u> </u>	<u> </u>		
	16 TASKS DELAYED										
Task No	8 rie f	Description		months delayed		proposed turget	Reason	Recommended Action		By Whom	
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17 REM/	ARKS.										

REASON FOR DELAY CODE

FUNDING -- F

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FD - Funds Diverted (specify)

FL - Funds Late (Example delay in

advice of allowance)

ADMINISTRATIVE - A

- AD Equipment Delays
- AF Equipment Failure
- AG Grant/Contract Delay (specify)
- AO Other Administrative (specify)
- AP Personnel Problems (specify)

- DA Diversion of Staff for Technical Assistance
- DO Diversion of Staff for Other Than
- Technical Assistance (specify)
- O- Other (specify)

1 Program Element '2 Roap No. 1B8040 21AGF	3 Roap Title Mining Sources	(0res)		4.Date 9/25/73	5 Page No
6 Total Tasks in Hoaps 7 No Tasks Completed	8 No Active Tasks 9 No	on Schedule 1	10. No.Completed CFY	11 No. Delayed	12
13 Program Chief Marvin L. Wood	14.Roap Manager James E. Moyer		15.		

TASKS DELAYED

Task No	Brief	Description	months delayed		proposed target	Reason	Recommended Action	By Whom				
02		ne-Art; Uranium Mining, nd Refining Industry	3	6/30/73	10/31/7	3 DO	Final review & publication	M.L. Wood				
16	Evaluation	of Tailings Pond Sealants	3	6/30/73	12/31/7	3 DO	Resume report writing	M.L. Wood				
	_											

17 REMARKS Reason for delay - Assignment of personnel to API-EPA Oil Refinery Survey and compilation of priority report (Task 05) for ore mining industries.

REASON FOR DELAY CODE

FUNDING -- F

FF - Funds Frozen

Fi - Funding Insufficient

FD - Funds Diverted (specify)

FL - Funds Late (Example delay in advice of allowance)

ADMINISTRATIVE - A

AD - Equipment Delays

AF - Equipment Failure

AG - Grant/Contract Delay (specify)

AO - Other Administrative (specify) AP - Personnel Problems (specify)

- DA Diversion of Staff for Technical Assistance
- DO Diversion of Staff for Other Than Technical Assistance (specify)
 - O Other (specify)

1 Program Element	'2 Roap No	3. Roap Title			4 Date	5 Page No
1BB040	21AĞG	🔝 Minina Sour	ces (Sand and Gr	'ave'	9/25/73	
6 Total Tasks in Roaps	7. No Tasks Completed	8.No Active Tasks		10 No'Completed CFY	11 No Delayed	12
10	1 0	1	0	0	1	1
13 Program Chief Marvin Wood		14 Roap Manager		15	'	
Marvin Wood		James E. Moy	er	<u>_</u>		

16 TASKS DELAYED

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Task No	Brief Description	months delayed	original target	proposed target	Reason	Recommended Action	By Whom
02	State-of-the-Art: Sand and Gravel	3	6/30/73	10/31/7	3 DO	Complete report	M. Wood
					;		

Reason for delay - Assignment of personnel to API-EPA Oil Refinery Survey, compilation of priority report (ROAP 21AGF, Task O5) for ore mining industries, and inability to obtain state regulatory documents.

REASON FOR DELAY CODE

FUNDING -- F

FF - Funds Frozen

FI - Funding Insufficient

FD - Funds Diverted (specify)

FL - Funds Late (Example delay in advice of allowance)

ADMINISTRATIVE - A

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AP - Personne | Problems (specify)

STAFFING . OTHER -- D/O

DA - Diversion of Staff for Technical Assistance

DO - Diversion of Staff for Other Than Technical Assistance (specify)

O- Other (specify)

QUARTERLY	ROAP	STATUS	REPORT
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Program E	lement 2	2 Rosp No 21AGI	3 Roap T Control	itle of Poll	. Caused 1	by Const	ruction P	oject 10/9/73	5 Page No
Total Task	ks in Roaps	7 No Tasks Comple	ted 8.No.Active	Tasks 9.N	o on Sched	ule IO.N	lo Complete		12
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			16 TA	SKS DE	LAYED				_
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i									
}					l		!	I	

17. REMARKS:

REASON FOR DELAY CODE

FUNDING -- F

FF - Funds Frozen

FI - Funding Insufficient

FD - Funds Diverted (specify)

FL - Funds Late (Example delay in advice of allowance)

ADMINISTRATIVE - A

- AD Equipment Delays
- AF Equipment Failure
- AG Grant/Contract Delay (specify)
- AO Other Administrative (specify)
 AP Personnel Problems (specify)

- DA Diversion of Staff for Technical Assistance
- DO Diversion of Staff for Other Than Technical Assistance (specify)
- O- Other (specify)

QUARTERLY ROAP STATUS REPORT										
2	s in Roaps	'2 Rosp No. AZIAGI 7. No. Tasks Complet 0	3. Roap Tit Control c ed 8.No Active To	18KS 9.N	Caused boon School	y Constr	uction Pro	oject 10/9/73 d CFV 11 No. Delayed 0	5. Page No 1of1	
13 Program Thoma	s		Tudor Da	vies	LAYED					
Task No	Brief	Description		montha delayed	original target	proposed target	Reason	Recommended Action	By Whom	

17 REMARKS:

REASON FOR DELAY CODE

FUNDING -- F

FF - Funds Frozen

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FL - Funds Late (Example delay in advice of allowance)

ADMINISTRATIVE - A

AD - Equipment Delays

AF = Equipment Failure
AG = Grant/Contract Delay (specify)

AO - Other Administrative (specify)

AP - Personnel Problems (specify)

- DA Diversion of Staff for Technical Assistance
- DO Diversion of Staff for Other Than Technical Assistance (specify)
- O Other (specify)

	Program Element IBB044	'2 Roap No. 2		itie a Village Demonstrati		10/05/73	5 Page No
6	Total Tasks in Roaps	7 No. Tasks Con	npleted 8 No. Active	Tasks 9. No on Schedule	10. No.Completed CFY	11 No. Delayed	'1 2
	8	1 3	4	3	0	1	1
13	Program Chief Ric	hard W. Latime	er 14.Roap M	Merritt A. Mi	tchell 15.		

16 TASKS DELAYED

Task No	Brief Description	months delayed	original target	proposed target	Reason	Recommended Action	By Whom						
05	Operation of Emmonak and Wainwright projects for evaluation	3	07/73 ⁻	10/73	A.G.	Action has been taken to complete negotiations for contracts	Program Chief						

17 REMARKS.

REASON FOR DELAY CODE

FUNDING -- F

FF - Funds Frozen

FI - Funding Insufficient

FD - Funds Diverted (specify)

FL - Funds Late (Example delay in advice of allowance)

ADMINISTRATIVE - A

AD - Equipment Delays

AF - Equipment Failure

AG - Grant/Contract Delay (specify)

AO - Other Administrative (Specify)
AP - Personnel Problems (specify)

- DA Diversion of Staff for Technical Assistance
- DO Diversion of Staff for Other Than Technical Assistance (specify)
- O- Other (specify)

1 Program Element	'2 Roap No.	3. Roap Title	reatment for Mun	icipal Wastes in	4. Date	5.Page No
1 Program Element 1BB044 C	'2 Roap No.	<u> </u>	old Climates		10/05/73	<u> </u> of
6 Total Tasks in Rosps	7. No. Tasks Completed	8.No.Active Tasks	9. No on Schedule	10. No.Completed CFY	11. No. Delayed	1 2
9	3	4	2	0	2	1
13. Program Chief		14. Roap Manager		15.		
Kic	hard W. Latimer		Barry H. Reid	<u> </u>		

16. TASKS DELAYED

Task No.	Brief Description	months delayed		proposed target	Reason	Recommended Action	By Whom
04	Inventory of non-conventional process with application in Arctic	3	3/74		D.O.	Reprogram .3 MY (no funds) FROM 21ASG to 21ASF	Lab.Dir.
05	Conference on non-conventional processes	3	3/74		D.O.		

17 REMARKS. This reporgram action is within the same program element 1BB044

REASON FOR DELAY CODE

FUNDING -- F

FF - Funds Frozen

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FD - Funds Diverted (specify)

FL - Funds Late (Example. delay in

advice of allowance)

ADMINISTRATIVE - A

AD - Equipment Delays

AF - Equipment Failure

AG - Grant/Contract Delay (specify)

AO - Other Administrative (specify)

AP - Personnel Problems (specify)

- DA Diversion of Staff for Technical
- Assistance DO - Diversion of Staff for Other Than
- Technical Assistance (specify)
- O- Other (specify)

QII	APTI	FDIY	POAP	STATUS	REPORT
40			NUAL	JIAIUJ	ALF OR I

Program EI 1BB045		'2 Roap No. 21-ASJ	3 Roap Ti Wastewate	ueBiolo er Treat	gical/Ecolo ment/Contro	gical L.Svs	Municipal tems	4. Date	5.Page No	<u> </u>
. 4		7 No Tasks Complet	} 3		on Schedule	10 N	O Complete	d CFY 11 No. Delayed	'1 2 	
Program Curtis	Chief C. Harlir	ı, Jr.		alegar_			15			
			16 TAS	KS DE	LAYED					
ask No	Brief	Description		months delayed	original pro target ta	posed rget	Reason	Recommended Action		By Whom
1						İ				
				:						
					1					

17. REMARKS Completion date for Task 02 was extended to November 30, 1973.

REASON FOR DELAY CODE

FUNDING -- F

FF - Funds Frozen

FI - Funding Insufficient

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FL - Funds Late (Example delay in advice of allowance)

ADMINISTRATIVE - A

AD - Equipment Delays

AF - Equipment Failure

AG - Grant/Contract Delay (specify)

AO - Other Administrative (Specify)
AP - Personne i Problems (specify)

- DA Diversion of Staff for Technical Assistance
- DO Diversion of Staff for Other Than Technical Assurance (specify)
- Technical Assistance (specify)
 O = Other (specify)

1 Program Element	'2 Roap No.	3. Roap Title			4 Date	5.Page No
1BB045	21-ASH	Soil System		Wastewater Treatmon	+ 10-2-73	l
6. Total Tasks in Roaps	7 No. Tasks Completed	8.No Active Tasks	9 No on Schedule	HO. NO. COMPTERED CEVE		12
37	! 6	17	15	0	2	1
13 Program Chief Curtis C. Harli		14 Roap Manager		15.		···
Curtis C. Harlin	n, Jr.	William C. Ga	legar			

16. TASKS DELAYED

Tools No	D lot D lotte	months	original	Droposed			-
Task No	Brief Description	delayed	target	target	Reason	Recommended Action	By Whom
					Л		
14	Testing of infiltration-percolation approach for hydrology, nutrient removal, organic removal and microorganism removal.	2	6/81		AD/DO	Finish report so involved personnel can be shifted to this project. Continue assembling equipment with available personnel.	Program Chief
15	Management of soil systems for land restoration through wastewater reuse.	3	6/79		AO/0 ² /	Resolution of the status of funding Task 19 during FY 75	HQS

Diversion of staff to complete project report on previously completed research. $\frac{2}{2}$ This task is preliminary laboratory work for Task 19 which is scheduled for funding in

This task is preliminary laboratory work for Task 19 which is scheduled for funding in FY 75. At this time, there is a question whether or not Task 19 will be funded next year; therefore, nothing should be initiated under Task 15 until this decision is made.

Task 37 and 38 cover SRO's submitted to other program elements. The status of work under these tasks is not known at this time.

REASON FOR DELAY CODE

FUNDING --- F FF - Funds Frozen

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FL - Funds Late (Example delay in advice of allowance)

ADMINISTRATIVE - A

AD – Equipment Delays AF – Equipment Failure

AG - Grant/Contract Delay (specify)

AO - Other Administrative (specify)

AP - Personnel Problems (specify)

- DA Diversion of Staff for Technical Assistance
- DO Diversion of Staff for Other Than Technical Assistance (specify)
- O- Other (specify)

1 Program Element 1BB045	2 Roap No A21-ASH		oil Systems for ewater Treatment	t ^{Municipal}	4 Date 10-2-/73	5 Page No
6 Total Tasks in Roaps	7. No Tasks Completed	8.No Active Tasks	9.No on Schedule 8	10. No Completed CFY	11 No. Delayed	12
13 Program Chief Curtis C. Harli	n, Jr.	14.Roap Manager W. C. Galegar		15	<u> </u>	<u> </u>

16 TASKS DELAYED

Task No	Brief	Description	months delayed	original target	proposed target	Reason	Recommended Action	By Whom
}								

17 REMARKS

Task 06 is a supplement to ROAP 21-ASH, Task 11. Task 07 is a supplement to ROAP 21-ASH, Task 12.

REASON FOR DELAY CODE

FUNDING -- F

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FI - Funding Insufficient

FD - Funds Diverted (specify)

FL - Funds Late (Example. delay in advice of allowance)

ADMINISTRATIVE - A

AD - Equipment Delays

AF - Equipment Failure
AG - Grant/Contract Delay (specify)

AO - Other Administrative (specify) AP - Personne I Problems (specify)

- DA Diversion of Staff for Technical Assistance
- DO Diversion of Staff for Other Than Technical Assistance (specify)
- O- Other (specify)

1 Program Element 1E1077	'2.Roap No 10AKC	3. Roap Title E	ffects of Select	ed Hazardous Syn-	4 Date 10/4/73	5 Page No
6 Total Tasks in Roaps	7. No Tasks Complete	8.No Active Tasks	9. No on Schedule	10. No.Completed CFY	11 No. Delayed	1 2
40	! 8	32	31	0	1	
13 Program Chief		14 Roap Manager		15.		
_		Thomas V	W. Duke	1		

16 TASKS DELAYED

6							
Task No.	Brief Description	months delayed		proposed target	Reason	Recommended Action	By Whom
	Begin spawning experiments with grass shrimp	4	7/1/73	11/30/73	DA	Action has been taken. Tanks, lights, and temperature-regulating equipment have been ordered.	Research Coordin- ator

17 REMARKS.

REASON FOR DELAY CODE

FUNDING -- F

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FI - Funding Insufficient

FD - Funds Diverted (specify)

FL - Funds Late (Example delay in advice of allowance)

ADMINISTRATIVE - A

AD - Equipment Delays

AF - Equipment Failure

AG - Grant/Contract Delay (specify)

AO - Other Administrative (specify)

AP - Personnel Problems (specify)

- DA Diversion of Staff for Technical Assistance
- DO Diversion of Staff for Other Than Technical Assistance (specify)
- O- Other (specify)

1 Program Element 1E1077	'2 Roap No. 25AJN	3 Roap Title AD	rects of specification for the second contraction factors of the second contraction of the secon	ic Biotic and n Estuarine Eco-	4 Date 10/4/73	5 Page No
6 Total Tasks in Roaps	7 No.Tasks Completed 0	8.No Active Tasks	9 No on Schedule 10	10 No.Completed CFY	11 No Delayed	12
13 Program Chief		14 Roap Manager Thomas W.	Duke	15		

16 TASKS DELAYED

Task No	Brief Description	months delayed		proposed target	Reason	Recommended Action	By Whom
10	Milestone "Issue RFP 7/30/73" cancelled. The task has been reprogrammed to read "Symposium on Assessment of Current Use and Possible Impact of Microbial Seed Cultures in Estuarine Ecosystems."		RFP 7/30/73	6/30/74	AO	Task reprogrammed for Symposium	Laboratory

17 REMARKS.

REASON FOR DELAY CODE

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FI - Funding Insufficient

FD - Funds Diverted (specify)

FL - Funds Late (Example delay in advice of allowance)

ADMINISTRATIVE - A

AD - Equipment Delays AF - Equipment Failure

AG - Grant/Contract Delay (specify)

AO - Other Administrative (specify)

AP - Personnel Problems (specify)

STAFFING - OTHER-- D/O

DA - Diversion of Staff for Technical Assistance

DO - Diversion of Staff for Other Than Technical Assistance (apecify)

O- Other (specify)

PART IV

RESEARCH PUBLICATIONS

RESEARCH PUBLICATIONS

Program	Chief:	A.L.	Lefohn	Program	Element:	1AA006	Date:	9/30/73
_	-			<u>.</u> .				

ROAP T	TASK	TASK Publication Title	How Published (Give name of series or journal,etc.,	Portion of Task Completed (Check)		
			Number, and Date)	ALL	PART	NONE
21 ALU	19	Nitrogen Fixation on Granite Outcrop Pioneer Ecosystems.	The Bryologist, Vol. 76, No. 1, 1973.		х	
21 ALU	16	Lead Pollution: Records in So. California Coastal Sediments.	Science, Vol. 181, 10 Aug 73.		Х	
21 ALU	Term. FY-72	Orovada, Nevada Basin Environmental Study.	Final Report of EPA Grant #APO 0944 July 1973.	X		
						;

RESEARCH PUBLICATIONS

Program Chief: L.C. Raniere Program Element: 1AA006 Date: 9/30/73

ROAP	TASK	Publication Title	How Published (Give name of series or journal,etc., Number, and Date)	ion of Teted (Che	
21 ALR	10	Effects of Ozone on Soybean Nodules.	Jour. of Environmental Quality Vol. 2, No. 3 Jul-Sept 1973	Х	
21 ALR	10	Foliar Sensitivity of Soybeans to Ozone as Related to Several Leaf Parameters.	Environ. Pollution (4) 1973	х	
21 ALR	9	Response of Pinto Bean and Tobacco to Ozone as Conditioned by Light Intensity and/or Humidity.	Environ. Science & Technology Vol. 7, No. 9 Sept. 1973	Х	
21 ALR	10 -	Ozone Alteration of Nitrate Reduc- tion in Soybean.	Physiol. Plant. Vol. 29 1973	Х	
21 ALR	8	Foliar Injury Responses of Eleven Plant Species to Ozone/Sulfur Dioxide Mixtures.	Atmospheric Environment, Pergamon Press. Vol. 7 1973	Х	

RESEARCH PUBLICATIONS

Program Chief: Richard W. Latımer

Program Element: 1AAOO9

Date: October 5, 1973

ROAP	TASK	Publication Title	How Published (Give name of series or journal,etc., Number, and Date)	Port Comple ALL	ion of T ted (Che PART	ask ck) NONE
21 AUJ	06	Cold Regions Automotive Emissions	AERL - Working Paper Series, #19, August 1973		Х	

RESEARCH PUBLICATIONS

Program Chief: W. M.Sanders, III Program Element: 1BA023 Date: 5 Oct 73

ROAP	TASK	Publication Title	How Published (Give name of series or journal,etc., Number, and Date)		ion of Teted (Che	
3103010	QG (FY 72)	Chemistry of Phenylmercury Compounds in the Aquatic Environment	<u>Chemosphere</u> No. 6, pp 273-278 (1973)	Х		
3103010	QG (FY 72)	Gas Chromatography-Mass Spectrometry of Organomercury Compounds	Journal of Chromatography 76 pp 417-476 (1973)	х		
3103010	PL (FY 72)	Carbon Cycle in Sediment-Water Sys- tems	Journal of Environmental Quality Vol 2, No. 1 Jan-Mar (1973)	х		
3103010	RL (FY 72)	Chemical and Microbial Degradation of Ten Selected Pesticides in Aquatic Systems	Residue Reviews Vol 45 pp 95-124 (1973)		Х	
3103010	QG (FY 72)	Photodecomposition of Phenylmercury Compounds in Sunlight	<u>Chemosphere</u> No 3 pp 93-99 (1973)	Х		
			!			

RESEARCH PUBLICATIONS

Program Chief: Dr. D. J. Baumgartner

Program Element: 1BA1025

Date: Oct. 5, 1973

ROAP	TASK	Publication Title	How Published (Give name of series or journal,etc., Number, and Date)		ion of Teted (Che	
21 AIS	16	Evaluation of Floatables of Waste Water Origin in the Vicinity of Marine Outfalls	Proceedings 3rd Annual Technical Conference on Estuaries of the Pacific Northwest. Oregon State University 1973			хх
16070	EKZ	Oxidation of Organic Matter in Seabed*	Several Journal Publications by Pamatmat	xx		
		An Instrument for Measuring Subtidal Benthic Metabolism <u>in situ</u> .*	University of Washington, 1969			
		Oxidation of Organic matter in the Seabed*	First annual progress report 1970			
		Oxygen Consumption by THE SEABED, IN SITU Measurements to 180m. depth.*	University of Washington, 1969			
		Oxygen Consumption by the Seabed. Seasonal cycle of chemical oxidation and respiration in Puget Sound.*	Internationale Revue der Gesamten Hydrobiology			
		*Final report now in publications de	partment in Headquarters.			

RESEARCH PUBLICATIONS

Program Chief: W. T. Donaldson Program Element: 1BA027 Date: 5 Oct 73

ROAP TASK	Publication Title (G	How Published (Give name of series or journal,etc.,				
			Number, and Date)	ALL	PART	NONE
09 AEC	03	Quantitative PCB Standards for EC-GC	Journal of Chromatographic Science Jul, <u>11</u> , 366 (1973)	*		
06020 Q	DC (FY 72)	Environmental Applications of Advanced Instrumental Analyses: Assistance Projects, FY 69-71	EPA Research Report EPA-R2-73-155 May 1973	х		
16 ADN	18	Polarographic Determination of NTA	EPA Research Report EPA-R2-73-254 Jun 1973	Х		
16 ADN	25	Organic Pollutant Identification Utilizing Mass Spectrometry	EPA Research Report EPA-R2-73-234		х	
			* ROAP not funded. Project started before notification of funding.			

RESEARCH PUBLICATIONS

Program Chief: T. E. Maloney Program Element: 1BA031 Date: 10/1/73

ROAP	TASK	Publication Title	How Published (Give name of series or journal, etc., Number, and Date) Portion of Completed (CALL PART			Task eck) NONE
21 AIY	01	The Shagawa Lake Project - Lake Restoration by Nutrient Removal from Wastewater Effluent	EPA Ecological Series, EPA-R3-73-026	Х		
This resear completed before ROAI procedures implemented	in 1971 P were	Uptake of Radiophosphorus by Rooted Aquatic Plants	Proceeding of the Third National Symposium of Radioecology held in Oak Ridge, Tenn., May 10-12, 1971			

RESEARCH PUBLICATIONS

Program Chief: T. E. Maloney	Program Element: 1BA031	Date: 10/1/73

ROAP	TASK	Publication Title	How Published (Give name of series or journal,etc., Number, and Date)		cion of T eted (Che PART	ask ck) NONE
No ROAP grant te in 1971. Dakota S College)	rminated (16010 DZ tate	Effect of silt and silt removal in a prairie lake. K,	Ecological Research Series, EPA-R3-73-037, July 1973.	X		

RESEARCH PUBLICATIONS

Program Chief: Frank H. Rainwater Program Element: 1BA032 Date: 10/1/73

ROAP	TASK	SK Publication Title (6	How Published (Give name of series or journal,etc., Number, and Date)	Portion of Task Completed (Check)		
				ALL	PART	NONE
21 AJH	10	Reviewing Environmental Impact Statements-Power Plant Cooling Systems Engineering Aspects	GPO - Environmental Protection Techno ,logy Series - EPA-660/2-73-016 - June 1973	_	Х	
21AJH	12	Negatively Buoyant Jets in Cross Flow	GPO - Environmental Protection Tech. Series - EPA-660/2-73-012 - July 1973		х	
21 AJH		Explicit Calibration of the PILLS II System	GPO - Environmental Protection Tech. Series - EPA-660/2-73-011 - July 1973	:		
21AJH		Statistical Prediction of Equilibrium Temperature from Standard Meteorological Data Bases	GPO - Environmental Protection Tech. 'Series - EPA-660/2-73-003 - July 1973			
:						

RESEARCH PUBLICATIONS

Program Chief: Frank H. Rainwater Program Element: 1BB392 Date: 10/1/73

ROAP	TASK	SK Publication Title	How Published (Give name of series or journal, etc.				
			Number, and Date)	ALL	PART	NONE	
21AZU	23	Predicting and Controlling Residual Chlorine in Cooling Tower Blowdown	GPO - Environmental Protection Technol Series - EPA-R2-73-273 - July 1973	ogy	χ		
21AZU		Reviewing Environmental Impact Statements-Power Plant Cooling Systems, Engineering Aspects	GPO - Environmental Protection Technol Series - EPA-660/2-73-016 - June 1973				
21AZU		Nomographs for Thermal Pollution Control Systems	GPO - Environmental Protection Technol Series - EPA-660/2-73-004 - July 1973				

RESEARCH PUBLICATIONS

Program Chief: J.R. Boydston Program Element: 1BB037 Date: 10/5/73

ROAP	TASK	Publication Title	How Published (Give name of series or journal,etc.,	Portion of Task Completed (Check)		
			Number, and Date) ALL ARE EPA REPORTS.	ALL	PART	NONE
AOL	03	Forest Fertilization (A State-or- the-Art Review and Description of Environmental Effects)	EPA-R2-72-016	Х		
AZZ	02	International Paper Company	12040 DYD	Х		
AZZ	03	Oregon State University	12100 EBG	X		
BAE	04	State of Art-Ready Mix Concrete	12080 HBM	Х		
AZX	14	St. Regis Paper Company	12040 EJU	Х		
ВАВ	81	Anaerobic - Aerobic Ponds for Beet Sugar Waste Treatment	WPD-93-04-68	Х		
BAE	08	Melbourne Water Science Institute Report	12060 EHS	Х		
		Waste Management Research and Development Program - Meat Packing	EPA-R2-73-178 (12060 FGF)	х		;
AKZ	04	State of Art Review of Pulp and Paper Industry	EPA-R2-73-184 (12040 HAR)	х		
		Cannery Wastewater Treatment with Rotating Biological Contactor and Extended Aeration.	EPA-R2-73-024	x		
AZZ	02	Aerob. Trtmt. Plywood Glue Wastes	12100 EZU	Х		

RESEARCH PUBLICATIONS

Program Chief: Marvin L. Wood Program Element: 18B039 Date: September 24, 1973

ROAP	TASK	Publication Title	How Published (Give name of series or journal,etc., Number, and Date)	Portion of Completed (Ch		nech)	
			Environmental Protection Technology Series:				
21 AOW	01	Prediction Modeling for Salinity Control in Irrigation Return Flows (In-House Report)	EPA-R2-73-168		х		
21 AOV	02	Cation Transport in Soils and Factors Affecting Carbonate Solubility	EPA-R2-73-235		х		
21 AOV	02	Irrigation Management for Control of Quality of Irrigation Return Flow	EPA-R2-73-265		х		
21 AOV	02	Herbicide Contamination of Surface Runoff Waters	EPA-R2-73-266	:	x		
21 AOY	14	Selected Irrigation Return Flow Quality Abstracts 1970-1971	EPA-R2-73-271	х			

RESEARCH PUBLICATIONS

Program Chief: Richard W. Latimer Program Element: 1BB044

Date: October 5, 1973

ROAP	TASK	How Published Publication Title (Give name of series or journal, end Date)			Portion of Task Completed (Check) ALL PART NONE		
21 ASG	02	Diffusion Systems for Cold Climate Lagoons	Proceedings of the "International Symposium on Research and Treatment of Waste Waters in Cold Climates," August 1973. Also AERL Working Paper #20.		X		
21ASG	09	Chlorine Disinfection of Treated Wastewater in a Baffled Contact Chamber at <1°C	Proceedings of the "International Symposium on Research and Treatment of Waste Waters in Cold Climates," August 1973. Also AERL Working Paper #21		X		

RESEARCH PUBLICATIONS

Program Chief: Richard W. Latimer Program Element: 1BB044 Date: October 5, 1973

ROAP	TASK	Publication Title	How Published (Give name of series or journal,etc., Number, and Date)	Portion of Task Completed (Check)			
				ALL PART	NONE		
21ASG	09	Batch Disinfection of Treated Wastewater with Chlorine at Less Than O°C	Environmental Protection Technology Series #EPA-660/2-73-005, September 1973	x			
21ASG	09	Lime Disinfection of Sewage Bacteria at Low Temperature	Environmental Protection Technology Series #EPA-660/2-73-017, September 1973	x			
21ASF	80	Report to CongressAlaska Village Demonstration Projects	EPA-ORD Special Publication, July 1973	x			
21ASF	01	Alaska Village Demonstration Projects: First Generation of Integrated Utilities for Remote Communities	Proceedings of the "International Symposium on Research and Treatment of Waste Waters in Cold Climates," August 1973. Also AERL Working Paper #22.	x			

RESEARCH PUBLICATIONS

Program Chief:	Program Element:_	1E1077	Date:	10/4/73
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ROAP	TASK	Publication Title	How Published (Give name of series or journal,etc., Number, and Date)	Port Comple ALL	ion of T ted (Che PART	ask ck) NONE
10AKC	12	The polychlorinated biphenyls Aroclor (R) 1248 and 1260: Effect on and accumulation by Tetrahymena pyriformis.	Journal of Protozoology 20: 443-445, 1973		х	
10AKC	14	Relation between simple dynamic pool and surplus production models for yield from a fishery.	Journal of the Fisheries Research Board of Canada, 30: 998-1002, 1973		X	

RESEARCH PUBLICATIONS

Program Chief: Curtis C. Harlin, Jr.

Program Element: 1B2045

Date: 10-2-73

ROAP	TASK	Publication Title	How Published (Give name of series or journal,etc.,	Portion of Task Completed (Check)			
			Number, and Date)	ALL	PART	NONE	
*		Nitrate and Nitrite Volatilization by Microorganisms in Laboratory	EPA-660/2-73-002 (R-800997)	х			
		Experiments.					
21-ABY*	* 22	Wastewater Treatment and Reuse by Land Application, Volume I.	EPA-660/2-73-006a (Contract 68-01-074)	L) X			
21-ABY*	* 22	Wastewater Treatment and Reuse by Land Application, Volume II.	EPA-660/2-73-006b (Contract 68-01-074)	L) X			
		EPA Studies on Applying Sludge and Effluent to the Land.	COMPOST SCIENCE, Journal of Waste Recycling, Vol. 14, No. 4, July-August 1973.			х	
		Land Disposal II: An Overview of Treatment Methods	JOURNAL WATER POLLUTION CONTROL FEDERATION, Vol. 45, No. 7, July 1973.			х	
	ryover of F	Y '72. '73 approved ROAPs.					
) Jan	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, approved Notice					
				_			