Mike

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
75 Hawthorne Street
San Francisco, Ca. 94105-3901

12 NOV 1992

Norman Wei
Senior Manager
Environmental Engineering
Star-Kist Seafood Company
180 East Ocean Blvd.
Long Beach, CA 90802

Re: NPDES Permit No. AS0000019: Corrections to Permit

Dear Mr. Wei:

The letter sent on November 9, 1992 from Terry Oda regarding the above subject inadvertently referred to the wrong permit number and should have referenced Samoa Packing's NPDES No. AS0000019. Please replace page 2 of the permit with the attached corrected version (Attachment 1) for Permit No. AS0000019.

Should you have any questions regarding the above, please contact Pat Young at (415) 744-1591 or Doug Liden at (415) 744-1921.

Sincerely,

Pat Young
American Samoa Program Manager
Office of Pacific Island and
Native American Programs

Attachment

cc: Maurice Callaghan, Star-Kist Samoa, Inc.
Pati Faiai, ASEPA
Sheila Wiegman, ASEPA

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A. EFFLUENT LIMITS AND MONITORING REQUIREMENTS

1. During the period beginning with the effective date of this permit and lasting through the expiration date of this permit, the permittee is authorized to discharge from Outfall 001.

The effluent shall be sampled prior to its commingling with effluent from the other cannery.

Such discharges shall be limited and monitored by the permittee as specified below:[1]

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS		MONITORING REQUIREMENTS	
	30-DAY AVG.	DAILY MAX.	MEASUREMENT FREQUENCY	SAMPLE TYPE
FLOW (MGD)	--	2.9	CONTINUOUS	RECORDER
BIOCHEMICAL OXYGEN DEMAND (5-DAY)	[5]	[5]	TWICE/MONTH	COMPOSITE
SUSPENDED SOLIDS (lbs/day)	2653	6673	TWICE/WEEK	COMPOSITE
OIL AND GREASE (lbs/day)	675	1688	TWICE/WEEK	GRAB[2]
TOTAL PHOSPHORUS (lbs/day)	192	309	[3]	COMPOSITE
TOTAL NITROGEN (lbs/day)	1200	2100	[3]	COMPOSITE
ACUTE TOXICITY	--	[4]	ONCE/6 MONTHS	COMPOSITE
TOTAL AMMONIA (mg/l)	--	133	ONCE/WEEK	COMPOSITE
TEMPERATURE (°F)	90	95	CONTINUOUS	CONTINUOUS
TOTAL CADMIUM (mg/l)	[5]	[5]	ONCE/6 MONTHS	COMPOSITE
TOTAL CHROMIUM (mg/l)	"	"	"	"
TOTAL LEAD (mg/l)	"	"	"	"
TOTAL MERCURY (mg/l)	"	"	"	"
TOTAL ZINC (mg/l)	"	"	"	"
pH	--	[6]	CONTINUOUS	CONTINUOUS

ATTACHMENT 1

Permit No. AS0000019

AUTHORIZATION TO DISCHARGE UNDER THE

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provision of the Federal Water Pollution Control Act, as amended (33 U.S.C. 1251 et seq.; the "Act"),

Star-Kist Samoa, Inc.
P.O. Box 368
Pago Pago, Tutuila
American Samoa 96799

is authorized to discharge tuna processing wastewater from the cannery located at Pago Pago, American Samoa from outfall Discharge Serial No. 001:

Latitude:	14 deg.	17 min.	01 sec.	S
Longitude:	170 deg.	40 min.	02 sec.	W

to receiving waters named: Pago Pago Harbor in accordance with the effluent limitations, monitoring requirements, and other conditions set forth in Sections A through G hereof.

This permit shall become effective on 27 OCT 1992.

This permit and the authorization to discharge shall expire at midnight, 26 OCT 1997.

Signed this 24 day of SEPTEMBER.

For the Regional Administrator

Catherine Kuhlman for

Harry Seraydarian
Director
Water Management Division

A. EFFLUENT LIMITS AND MONITORING REQUIREMENTS

1. During the period beginning with the effective date of this permit and lasting through the expiration date of this permit, the permittee is authorized to discharge from Outfall 001.

The effluent shall be sampled prior to its comingling with effluent from the other can.

Such discharges shall be limited and monitored by the permittee as specified below:(1)

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS		MONITORING REQUIREMENTS	
	30-DAY AVG.	DAILY MAX.	MEASUREMENT FREQUENCY	SAMPLE TYPE
FLOW (MGD)	--	2.9	CONTINUOUS	RECORDER
BIOCHEMICAL OGYGEN DEMAND (5-DAY)	(6)	(6)	TWICE/MONTH	COMPOSITE
SUSPENDED SOLIDS (lbs/day)	2653	6673	TWICE/WEEK	COMPOSITE
OIL AND GREASE (lbs/day)	675	1688	TWICE/WEEK	GRAB(2)
TOTAL PHOSPHORUS (lbs/day)	192	309	(3)	COMPOSITE
TOTAL NITROGEN (lbs/day)	1200	2100	(3)	COMPOSITE
ACUTE TOXICITY	--	(4)	ONCE/6 MONTHS	COMPOSITE
TOTAL AMMONIA (mg/l)	--	133	ONCE/WEEK	COMPOSITE
TEMPERATURE (°F)	90	95	CONTINUOUS	CONTINUOUS
TOTAL CADMIUM (mg/l)	(5)	(5)	ONCE/6 MONTHS	COMPOSITE
TOTAL CHROMIUM (mg/l)	"	"	"	"
TOTAL LEAD (mg/l)	"	"	"	"
TOTAL MERCURY (mg/l)	"	"	"	"
TOTAL ZINC (mg/l)	"	"	"	"
pH	--	(6)	CONTINUOUS	CONTINUOUS

NOTES:

(1) Where discharge monitoring data is reported as "below detection limit", both the detection limit obtained and the analytical method used shall be included on the monthly discharge monitoring report (DMR).

(2) Each oil and grease sample shall consist of four individual grab samples ("sub-samples") which shall be taken at even intervals during each production period in which samples are taken. Each sub-sample shall be separately analyzed and the mean value of the four sub-samples, shall be reported for daily maximum and monthly average.

(3) Permittee is required to sample twice/week on production days. Should the permittee wish to monitor the effluent on a non-production day(s), the permittee must monitor for the six consecutive days following the non-production day on which the first sample was taken. The average of all samples taken during that month will determine compliance with the "monthly average".

Should the canneries consistently comply with their TN and TP limitations and should the monitoring data show that the discharge is not impacting the water quality in the harbor or causing water quality violations for one year, the permit may be modified to incorporate a "weighted average" method of measuring compliance with the limitations. The numerical limitations themselves shall not be made any less stringent.

(4) See Section D "Toxicity" for monitoring requirements.

(5) No limit set at this time. Monitoring and reporting only.

(6) The pH is limited between 6.5 and 8.6 standard units. The total time during which the pH values are outside the required range of pH values shall not exceed 7 hours and 26 minutes in any calendar month; and no individual excursions from the range of pH values shall exceed 60 minutes.

B. DISCHARGE SPECIFICATIONS

Samples taken at monitoring stations 8, 8a, 14, 15, 16, 17 and 18 in the receiving water shall not reveal* any of the following in accordance with American Samoa Water Quality Standards:

1. Chlorophyll a levels in excess of 1.0 ug/l;

2. Light penetration depth less than 65 feet;

3. Objectionable color, odor, or taste, either alone or in

combinations, or in the biota;

4. Visible floating materials, grease, oil, scum, foam, and other floating material; and,

5. Materials that will produce visible turbidity or settle to form objectionable deposits.

Samples taken at monitoring stations 8, 8a, 15, 16, 17, 18 in the receiving water (those stations outside the zone of initial dilution (ZID)) shall not reveal* any of the following in accordance with American Samoa Water Quality Standards:

1. Dissolved oxygen (DO) concentration less than 5.0 mg/L; or 70% saturation;

2. Turbidity in excess of 0.75 nephelometric turbidity units; and,

3. Toxicity to aquatic life.

Samples taken at monitoring stations 15, 16, 17, and 18 in the receiving water (those stations outside the zone of mixing (ZOM)) shall not reveal* any of the following in accordance with American Samoa Water Quality Standards:

1. A temperature more than 1.5 degrees Fahrenheit from conditions that would occur naturally;

2. A level of total nitrogen in excess of 200 ug/l; and,

3. A level of total phosphorous in excess of 30 ug/l.

*Should any samples of ambient water reveal exceedances of the standards specified above and should ASEPA and/or USEPA determine that the canneries' discharge is the cause of the exceedance, the canneries may be required to undertake various actions including ceasing discharge and/or additional studies or monitoring to determine the cause of the exceedance. Violations of water quality standards shall be determined in accordance with American Samoa Water Quality Standards.

C. PROTECTED AND PROHIBITED USES

1. The protected uses of Pago Pago Harbor are as follows:

   a. Recreational and subsistence fishing;
   b. Boat-launching ramps and designated mooring areas;
   c. Subsistence food gathering, e.g. shellfish harvesting;
   d. Aesthetic enjoyment;
   e. Whole and limited body-contact recreation, e.g. swimming, snorkeling, surfing and scuba diving.
   f. Support and propagation of marine life;
   g. Industrial water supply;

h. Mari-culture development;
i. Normal harbor activities; e.g. ship movements, docking, loading and unloading, marine railways and floating drydocks; and
j. Scientific investigation.

2. Prohibited uses include but are not limited to:

a. Dumping or discharge of solid waste;
b. Animal pens over or adjacent to any shoreline;
c. Dredging and filling activities, except when permitted by the American Samoa Environmental Quality Commission (ASEQC) in accordance with the Environmental Quality Act (Title 24, American Samoa Code); AND
d. Radioactive waste discharges; and
e. Discharge of oil sludge, oil refuse, fuel oil, or bilge water, or any other waste water from any vessel or unpermitted shoreside facility.

The permittee shall not engage in any of the above prohibited uses nor in any uses that would conflict with the protected uses of the harbor.

D. TOXICITY

1. Proposed Effluent Biomonitoring

Beginning 90 days after the effective date of this permit, the permittee shall conduct, or have a contract laboratory conduct, semi-annual 96-hr. static renewal acute bioassays on composite effluent samples according to the methods described in Methods for Measuring the Acute Toxicity of Effluents to Freshwater and Marine Organisms (Fourth Edition EPA/600/4-90/027) using the white shrimp, Penaeus vannamei postlarvae. Tests shall be conducted using a $\leq$ 0.5 dilution series (ie., 100%, 25%, 12.5%, 6.25%, 3.13%, 1.56%).

Use probit analysis to calculate the LC50 and 95% confidence intervals. Use Analysis of Variance and Dunnett's multiple comparison test to calculate the No Observed Effect Concentrations (NOECs). These results will be reported on the permittee's Discharge Monitoring Reports (DMR's).

2. Priority Pollutant Scan

The permittee shall have a priority pollutant scan of the effluent conducted concurrent with the bioassays required above. The results of shall be submitted to the USEPA and ASEPA within 4 months of the effective date of the permit and yearly thereafter.

3. Toxicity Reopener

Should any of the monitoring indicate that the discharge causes, has reasonable potential to cause, or contributes to an excursion above a water quality criteria, the permit may be reopened for the imposition of water quality-based limits and/or whole effluent toxicity limits. Also, this permit may be modified, in accordance with the requirements set forth at 40 CFR 122.44 and 124.14, to include appropriate conditions or limits to address demonstrated effluent toxicity, or to implement any EPA-approved new state water quality standards or testing methods applicable to effluent toxicity.

E. RECEIVING WATER QUALITY MONITORING PROGRAM

To determine compliance with water quality standards, the receiving water quality monitoring program must document water quality at the outfall, at areas near the zone of initial dilution (ZID) and zone of mixing (ZOM) boundaries, at areas beyond these zones where discharge impacts might reasonably be expected, and at reference/control areas. The permittee, cooperatively with Samoa Packing Co., shall perform or cause to be performed, water quality monitoring at stations along the shoreline and offshore at regular frequencies as detailed below.

Should any monitoring or studies reveal, in the judgement of either ASEPA or EPA, that the water quality, coral reef, or overall biological health of the harbor is being impaired as a result of the new outfall discharge, either agency may at any time prohibit further discharge and/or require additional monitoring.

All water quality samples should be collected and processed according to the protocols found in EPA's guidance document entitled, Quality Assurance and Quality Control (QA/QC) for 301(h) Monitoring Programs: Guidance on Field and Laboratory Methods (EPA, 1987a). Monitoring reports shall be submitted to EPA on a quarterly basis.

Monitoring stations shall be designated and located as shown (also see Figures 1 and 2):

Offshore Station	Vicinity	Location	Coordinates Latitude	Longitude
5	Transition Zone		170° 39' .72W	14° 17' .88S
6	Outer harbor	Central	170° 40' .20W	14° 17' .52S
7	Outer harbor	East, South	170° 39' .93W	14° 17' .37S
8	Outer harbor	East	170° 40' .07W	14° 17' .17S
8a	Middle harbor	East	170° 40' .13W	14° 16' .88S
9	Middle harbor	East	170° 40' .18W	14° 16' .66S
9a	Middle harbor	East	170° 40' .57W	14° 16' .58S
10	Middle harbor	West	170° 40' .75W	14° 16' .87S
11	Inner harbor	Center, East	170° 40' .90W	14° 16' .58S
11a	Inner harbor	Center, East	170° 41' .13W	14° 16' .62S
12	Inner harbor	Center	170° 41' .33W	14° 16' .60S
13	Inner harbor	Center, West	170° 41' .71W	14° 16' .50S
14	Middle harbor	Diffuser	170° 40' .03W	14° 16' .58S
15	Middle harbor	ZOM Edge, North	170° 40' .12W	14° 16' .77S
16	Middle harbor	ZOM Edge, West	170° 40' .17W	14° 16' .56S
17	Middle harbor	ZOM Edge, East	170° 39' .91W	14° 16' .90S
18	Outer harbor	ZOM Edge, South	170° 40' .08W	14° 17' .10S

It is recommended that the stations be located using the sextant angle resection positioning method or a positioning system which affords an equivalent degree of accuracy and precision. Other means may be used if, in the judgment of ASEPA and EPA Region 9, they are of sufficient accuracy and precision to allow reoccupation of the stations within plus or minus six (6) meters.

The following shall constitute the Water Quality Monitoring Program as shown:

Parameter	Units	Sample Stations	Sample Type	Frequency
Temperature	°F	all	grab	monthly
pH		"	"	"
Dissolved Oxygen	mg/l	"	"	"
Suspended Solids	mg/l	"	"	"
Light Penetration	ft	"	"	"
Turbidity	NTU	"	"	"
Salinity	ppt	"	"	"
Chlorophyll a	ug/l	"	"	"
Total Nitrogen	ug/l	"	"	"
Total Phosphorus	ug/l	"	"	"
Total Ammonia	ug/l	"	"	"

Measurements should be taken at three depths for each location: 1 meter above the bottom, 1 meter below the surface, and at mid-depth.

F. DYE OR TRACER STUDIES

Within one week of the effective date of this permit, the permittee shall submit a plan to the ASEPA and EPA to perform dye and/or tracer studies in order to better understand the fate of the effluent plume. The permittee shall perform these studies twice for one year (once during each of the two primary seasons of the year) and submit its findings 30 days after conducting each study. The date of the first study must be approved by USEPA and ASEPA and shall occur at the earliest possible time a distinct oceanographic season is in effect and no later than four months of the effective date of the permit.

G. SEDIMENT MONITORING

Sediment monitoring is conducted to determine the character of the sediments in relation to long-term high nutrient discharge by the permittee in the harbor and if harbor recovery will be affected by resuspension of the nutrients.

The permittee, cooperatively with Samoa Packing Co., shall undertake a yearly sediment monitoring program in Pago Pago Harbor in order to assess the concentration of nutrient and organic components, the distribution of stored nutrients, the size of the nutrient reservoir and the rate of accumulation of nutrients. Seven sites shall be located within Pago Pago Harbor and analyzed for total nitrogen, total phosphorus, percent organics, percent solids, bulk density, oxidation-reduction potential and sulfides. Three sites shall be located in inner Pago Pago Harbor and four sites shall be located in the outer harbor. These sites and monitoring plan shall be submitted within three months of the effective date of the permit for approval by ASEPA and EPA. Thereafter, these sites shall be approved annually by the anniversary date of the effective date of the permit. A report of the sediment monitoring program findings shall be submitted to the ASEPA and EPA 90 days after completion of sampling.

After the first two studies have been performed and the results have been assessed the permit may be reopened for the inclusion of a more frequent or less frequent monitoring schedule.

H. EUTROPHICATION STUDY

The permittee cooperatively with Samoa Packing Co., shall complete a study in which a direct assessment of the algal-nutrient relationships in Pago Pago Harbor is obtained. This study shall include construction of algal-nutrient response curves for a range of nitrogen-to-phosphorus ratios, nitrogen

and phosphorus levels, salinity levels, and phytoplankton communities. This study is not intended to be exhaustive in nature, but to provide information on phytoplankton dynamics in Pago Pago Harbor. The study may be partially completed utilizing data from past and future water quality and sediment monitoring programs and/or may be conducted in conjuunction with these programs as possible.

A proposed study design shall be submitted to ASEPA and EPA for approval within six months of the effective date of the permit. The study shall be completed and report submitted to ASEPA and EPA within one year of the effective date of the permit.

I. CORAL REEF SURVEY

Within six months of the effective date of this NPDES permit, the permittee, in cooperation with Samoa Packing Co., shall submit a field study design for approval by ASEPA and EPA Region 9 to assess the potential impacts of the discharge on the nearby coral reef. The study shall include coral reef transects which shall conform to locations found on Figure 4 in the USE ATTAINABLILITY AND SITE-SPECIFIC CRITERIA ANALYSES; PAGO PAGO HARBOR, AMERICAN SAMOA, FINAL REPORT (CH2M Hill, March 15, 1991). The intent of this annual survey is to detect significant differences, if any, from the database information found in the above-cited document. Videos shall be submitted to both the USEPA and ASEPA. Guidance for designing such surveys is provided in the "Design of 301(h) Monitoring Programs for Municipal Wastewater Discharges to Marine Waters," November 1982, EPA #430/0-82-010 (pages 70-71). In addition, the discharger should consult "Ecological Impacts of Sewage Discharges on Coral Reef Communities," September 1983, EPA #430/9-83-010, for further information. The study shall be conducted within one year of the effective date of this permit and every two years thereafter.

J. VERIFICATION OF MODELING PREDICTIONS

Within three months after both dye studies have been completed, the permittee, cooperatively with Samoa Packing Co., shall submit a study plan to USEPA and ASEPA that will discuss how the permittees will utilize the results from the monitoring data and from the dye studies to verify the models used in the determination of the mixing zones (the 30-second dilution zone, the ZID, and the ZOM). Also, the plan shall discuss how the permittee will examine the effects of BOD_5 in the effluent on Dissolved Oxygen (DO) in the receiving water, utilizing an appropriate model and one year's worth of

ambient data. Upon approval of the study plan by USEPA and ASEPA, the permittee shall initiate the studies indicated and submit reports on a yearly basis. Reports shall summarize renewed predictions of dilution rates and the size, location, and movement of the plume based on the calibrated models.

K. WASTEWATER TREATMENT SYSTEM EVALUATION

The permittee shall retain an independent consultant(s) to conduct a complete diagnostic evaluation of the wastewater treatment system. The purpose of the evaluation is to review current plant operations and equipment and to identify possible modifications in order to decrease pollutant loads, specifically of nitrogen and phosphorus, to the harbor.

The evaluation shall identify all the components of the wastewater treatment system. Nitrogen, phosphorus, total suspended solids, oil and grease loadings from each waste stream of the Dissolved Air Flotation (DAF) influent (thaw-water, spray-cooling, plant-washdown) shall be determined. Methods for reducing the amount of wastewater and the pollutant loadings of the components of the DAF influent shall be examined.

The DAF equipment shall be reviewed to determine its effectiveness. The report should examine the working order of the equipment and the existing system controls. The report shall compare the design parameters of the DAF system with the average and maximum operating values for air-to-solids ratio (lb air:lb solids), solids loading ($lb/ft_2/hr$), and hydraulic loading (gpm/ft^2).

Current chemical treatment shall be analyzed to determine effective dosages. Jar and pilot DAF chemical coagulating testing shall be performed using at least three coagulants. Reduction in nitrogen and phosphorous, and total suspended solids shall be reported for each chemical tested and compared to current treatment.

In conclusion, the report shall list in order of importance all recommended improvements to the system, and estimate the cost of each improvement.

This study shall be performed and a report submitted to the ASEPA, and the EPA within one year of the effective date of this permit and again by the expiration date of this permit. The permittee shall submit for approval by ASEPA and EPA, within sixty days of completing the report, a schedule for implementing the recommended improvements. Should the permittee view some of the improvements economically infeasible or technically impossible, the report should

substantiate those views.

If such a study has been performed during the two years preceding the effective date of this permit, the permittee is not required to have the first study performed. The permittee must, however submit an implementation schedule within sixty days of the effective date of this permit. One year from the effective date of this permit, and annually thereafter, a report shall be submitted documenting the progress made in implementing these recommendations.

L. POLLUTION PREVENTION PROGRAM

1. Within six months of the effective date of this permit, the permittee shall develop and implement a Pollution Prevention Program. The purpose of the program is to evaluate and implement methods of reducing or eliminating pollutants listed under section A of this permit from the outfall, stormwater drain(s), plant-site runoff, sludge disposal and fishing vessels. A component of this plan will be a water conservation program.

2. The permittee shall review all facility components or systems (including storage areas; in-plant transfer, process and handling areas; loading and unloading operations; and sludge and waste disposal areas) where these pollutants are generated, stored or handled to evaluate methods for reducing the release of these pollutants to the harbor. In performing such an evaluation, the permittee shall consider ways of preventing fish scraps, oil and grease, etc., from entering the wastewater streams and shall consider typical industry practices such as employee training, inspections and records, preventive maintenance, and good housekeeping. In addition, the permittee may consider structural measures (such as secondary containment devices) where appropriate.

3. The permittee shall retain an independent consultant(s) to determine the source of the high levels of metals (Cadmium, Chromium, Lead, Mercury, and Zinc) in the cannery's effluent, and shall examine methods to reduce the current levels. Such an analysis shall be submitted to the ASEPA and USEPA for approval within six months of the effective date of this permit.

4. The Pollution Prevention Program shall also evaluate ways of preventing fishing vessels from discharging engine oil into the harbor. Such a plan shall explore options such as accepting used oil for burning in the cannery's boilers or for recycling, issuing a multi-lingual

statement to each fishing vessel outlining the regulations against illegal dumping, and establishing a company policy that would prohibit the canneries from purchasing tuna from any vessel found responsible for discharging oil.

5. The Pollution Prevention Program shall be documented in narrative form and shall include any necessary pilot plans, drawings or maps. Other documents already prepared for the facility such as a Safety Manual or a Spill Prevention, Control and Countermeasure (SPCC) plan may be used as part of the program and may be incorporated by reference. The Pollution Prevention plan shall be submitted to ASEPA and EPA within six months of the effective date of this permit and a copy shall be maintained at the facility and annual reports submitted documenting program progress.

M. DEFINITIONS

1. "Ambient conditions" means the existing conditions in the surrounding waters not influenced by the discharger's effluent.

2. "Bypass" means the intentional diversion of waste streams from any portion of a treatment facility whose operation is necessary to maintain compliance with the terms and conditions of this permit.

3. "Whole-effluent toxicity" is the aggregate toxic effect of an effluent measured directly with a "toxicity test".

4. "Composite sample" means, for flow rate measurements, the arithmetic mean of no fewer than eight individual measurements taken at equal intervals for 24 hours or for the duration of the discharge, whichever is shorter.

   "Composite sample" means, for other than flow rate measurement,

   a. A combination of at least eight individual portions obtained at equal time intervals for 24 hours, or the duration of the discharge, whichever is shorter. The volume of each individual portion shall be directly proportional to the discharge flow rate at the time of sampling.

   OR

   b. A combination of at least eight individual portions of equal volume obtained over a 24-hour period. The time interval will vary such that the volume of wastewater discharged between samplings remains constant.

   The compositing period shall equal the specified sampling period, or 24 hours, if no period is specified.

5. "Daily discharge" means:

   a. For flow rate measurement, the average flow rate measured during a calendar day or during any 24-hour period reasonably representative of the calendar day for purposes of sampling.

   b. For pollutant measurements, the concentration or mass emission rate measured during a calendar day or during any 24-hour period reasonably representative of the calendar day for purposes of sampling.

6. "Daily maximum" limit means the maximum acceptable "daily discharge". For pollutant measurements, unless otherwise specified, the results to be compared to the "daily maximum" limit are based on "composite samples."

7. "Duly authorized representative" is one whose:

   a. Authorization is made in writing by a principal executive officer or ranking elected official;

   b. Authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity, such as the position of plant manager, operator of a well or a well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company. (A duly authorized representative may thus be either a named individual or any individual occupying a named position.); and

   c. Written authorization is submitted to the ASEPA and EPA. If an authorization becomes no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements must be submitted to ASEPA and EPA prior to or together with any reports, information, or other applications to be signed by an authorized representative.

8. "Grab sample" is defined as any individual sample collected in a short period of time not exceeding 15 minutes. "Grab samples" shall be collected during normal peak loading conditions for the parameter of interest, which may or may not be during hydraulic peaks. It is used primarily in determining compliance with "daily maximum" limits.

9. "Hazardous substance" means any substance designated under 40 CFR 116 pursuant to Section 311 of the Clean Water Act.

10. "Heavy metals" are, for the purposes of this permit, arsenic, cadmium, chromium, copper, lead, mercury, nickel, silver, and zinc.

11. "Indirect discharger" means a non-domestic discharger introducing pollutants into a publicly owned treatment and disposal system.

12. "Initial dilution" is the process which results in the rapid and irreversible turbulent mixing of wastewater with ocean water around the point of discharge.

    For a submerged buoyant discharge, characteristics of most municipal wastes that are released from the submarine outfalls, the momentum of the discharge and its initial buoyancy act together to produce turbulent mixing. Initial dilution in this case is completed when the diluting wastewater ceases to rise in the water column and first begins to spread horizontally.

    Numerically, initial dilution is expressed as the ratio of the volume of discharged effluent plus ambient water entrained during the process of initial dilution to the volume of discharged effluent.

13. "Mass emission rate" is obtained from the following calculations for any calendar day:

$$\text{Mass emission rate (lb/day)} = 8.345/N \sum_{i=1}^{N} Qi\ Ci$$

$$\text{Mass emission rate (kg/day)} = 3.785/N \sum_{i=1}^{N} Qi\ Ci$$

    in which 'N' is the number of samples analyzed in any calendar day. 'Qi' and 'Ci' are the flow rate (MGD) and the concentration (mg/L), respectively, which are associated with each of the 'N' grab samples which may be taken in any calendar day. If a composite sample is taken, 'Ci' is the concentration measured in the composite sample and 'Qi' is the average flow rate occurring during the period over which samples are composited.

    The daily concentration of all constituents shall be determined from the flow-weighted average of the same constituents in the combined waste stream as follows:

$$\text{Daily concentration} = 1/Qt \sum_{i=1}^{N} Qi\ Ci$$

    in which 'N' is the number of component waste streams. 'Qi' and 'Ci' are the flow rate (MGD) and the constituent concentration (mg/L), respectively, which are associated with each of the 'N' waste streams. 'Qt' is the total flow rate of the combined waste streams.

14. "Monthly average" is the arithmetic mean of daily con-

centrations, or of daily "mass emission rates", over the specified monthly period:

$$\text{Average} = 1/N \sum_{i=1}^{N} Xi$$

in which 'N' is the number of days samples were analyzed during the period and 'Xi' is either the constituent concentration (mg/L) or mass emission rate (kg/day or lb/day) for each sampled day.

15. "100-year frequency flood" means a flood of unusually large magnitude and which is characterized by its infrequent occurrence.

16. "Open coastal waters" means marine waters bounded by 100 fathom (183 m; 600 ft) depth contour and the shoreline excluding bays named in section 24.0206(c)(2)-(4) of the American Samoa water quality standards.

17. "Overflow" means the intentional or unintentional diversion of flow from the collection and transport systems, including the pumping facilities.

18. "Pesticides" are, for purposes of this permit, those six constituents referred to in 40 CFR 125.58(m) (demeton, guthion, malathion, mirex, methoxychlor, and parathion).

19. "Pollutant-free wastewater" means infiltration and inflow, cooling waters, and condensates which are essentially free of pollutants.

20. "Priority pollutants" are those constituents referred to in 40 CFR 401.15 and listed in the EPA NPDES Application Form 2C, pp. V-3 through V-9.

21. "Severe property damage" means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a "bypass" or "overflow." It does not mean economic loss by delays in production.

22. "Sludge" means the solid, semi-liquid suspension of solids, residues, screenings, grit, scum and precipitates separated from, or created in wastewater by the unit processes of a treatment system. It also includes, but is not limited to, all supernatant, filtrate, centrate, decantate, and thickener overflow/underflow in the solids handling parts of the wastewater treatment system.

23. "Toxic pollutant" means any pollutant listed as toxic under Section 307(a)(1) of the Clean Water Act or under 40 CFR 122, Appendix D. Violation of the maximum daily discharge limitations are subject to the 24-hour reporting requirement (section P.13.f).

24. "Toxicity test" is the means to determine the toxicity of a chemical or an effluent using living organisms. A toxicity test measures the degree of response of an exposed test organism to a specific chemical or effluent.

25. "Toxic unit chronic" is the reciprocal of the effluent dilution that causes no unacceptable effect on the test organisms by the end of the chronic exposure period.

26. "Upset" means any exceptional incident in which there is unintentional and temporary noncompliance with effluent limitations in the permit because of factors beyond the reasonable control of the discharger. It does not include noncompliance caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, careless or improper operation, or those problems the discharger should have foreseen.

27. "Waste", "waste discharge", "discharge of waste", and "discharge" are used interchangeably in this permit. The requirements of this permit are applicable to the entire volume of water, and the material therein, which is disposed of to marine waters.

28. "Weekly average" is the arithmetic mean of daily concentrations, or of daily mass emission rates, over the specified weekly period:

$$\text{Average} = 1/N \sum_{i=1}^{N} Xi$$

in which 'N' is the number of days samples were analyzed during the period and 'Xi' is either the constituent concentration (mg/L) or "mass emission rate" (kg/day or lb/day) for each sampled day.

29. "Zone of initial dilution" (ZID) means the region of initial mixing surrounding or adjacent to the end of the outfall pipe or diffuser ports, providing that the ZID may not be larger than allowed by mixing zone restrictions in applicable water quality standards [40 CFR 125.58(w)]. For purposes of designating monitoring stations, the region within a horizontal distance equal to a specified water depth (usually depth of outfall or

average depth of diffuser) from any point of the diffuser or end of the outfall and the water column above and below that region, including the underlying seabed.

30. "Zone of mixing" (ZOM) means limited areas around outfalls and other facilities approved by ASEQC with the concurrence of EPA to allow for the initial dilution of waste discharges [American Samoa Water Quality Standards].

N. QUALITY ASSURANCE/QUALITY CONTROL

All waste material sampling procedures, analytical protocols, and quality assurance/quality control procedures shall be performed in accordance with guidelines specified by EPA. The following references shall be used by the permittee where appropriate:

1. EPA, 40 CFR 136, Guidelines Establishing Test Procedures for the Analysis of Pollutants Under the Clean Water Act;

2. Tetra Tech, Inc. 1985. Summary of the U.S. EPA-approved methods and other guidance for 301(h) monitoring variables. Final program document prepared for the Marine Operations Division, Office of Marine and Estuarine Protection, U.S. Environmental Protection Agency. EPA Contract No. 68-01-693. Tetra Tech, Inc., Bellevue, WA; and

3. Tetra Tech, Inc. 1986. Quality assurance and quality control guidance for 301(h) monitoring programs. Final program document prepared for the Marine Operations Division, Office of Marine and Estuarine Protection, U.S. Environmental Protection Agency. EPA Contract No. 68-01-3968. Tetra Tech, Inc., Bellevue, WA.

O. REPORTING

Monitoring results obtained during the previous 3 months shall be summarized for each month and submitted quarterly on forms to be supplied by EPA, to the extent that the information reported may be entered on the forms. The results of all monitoring required by this permit shall be sumitted in such a format as to allow direct comparison with the limitations and requirements of this permit. Monitoring reports shall be postmarked no later than the 28th day of the month following the completed reporting period. The first report is due 4 months after the effective date of this permit. Signed copies of these and all other reports required herein shall be submitted to the EPA Regional Administrator

and the Government of American Samoa at the following addresses:

Regional Administrator
Environmental Protection Agency
Region 9, Attn: Office of Pacific Island and
Native American Programs (E-4)
75 Hawthorne Street
San Francisco, CA 94105

Director
American Samoa Environmental Protection Agency
Office of the Governor
Pago Pago, American Samoa 96799

P. EPA REGION IX STANDARD CONDITIONS

See attachment.

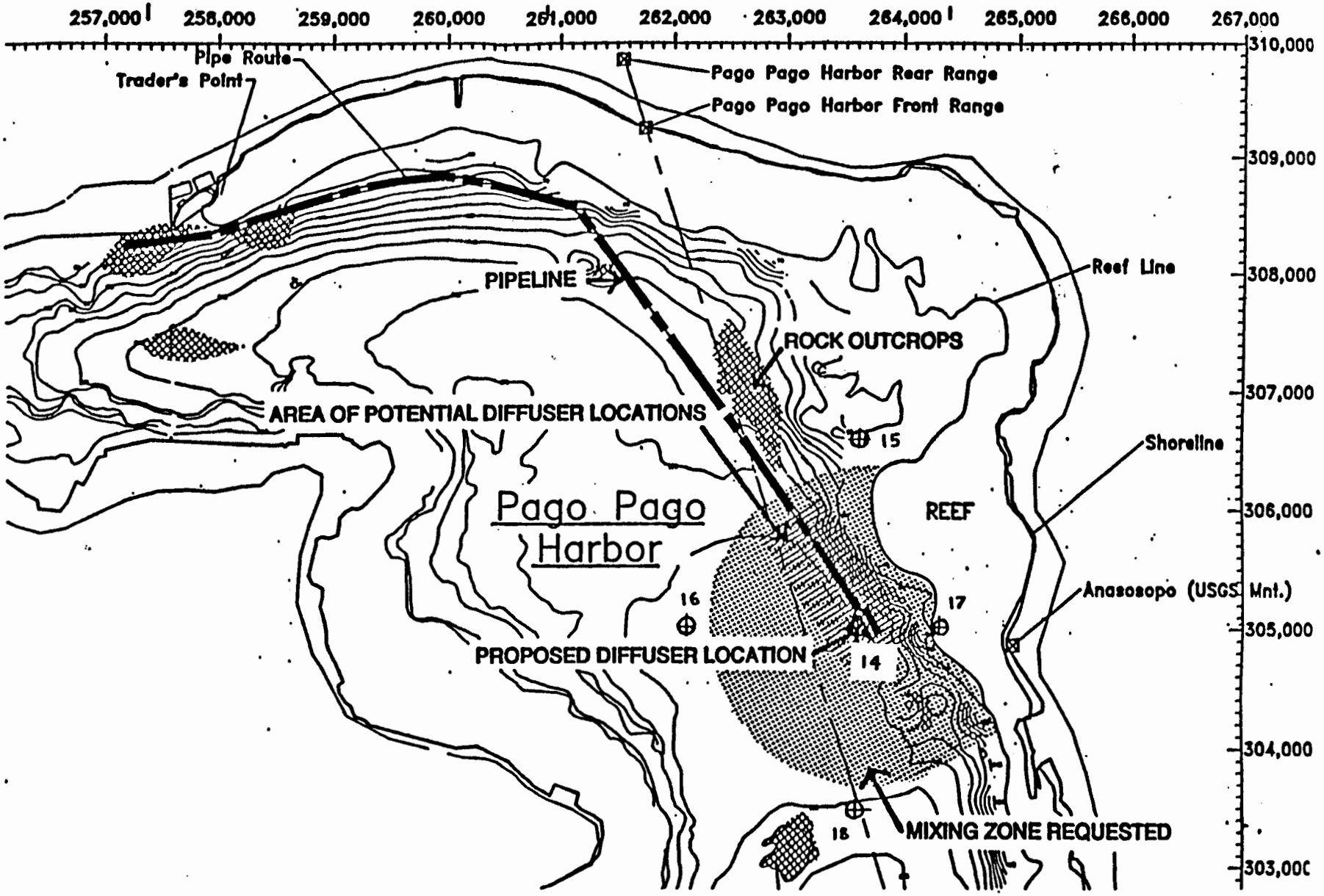
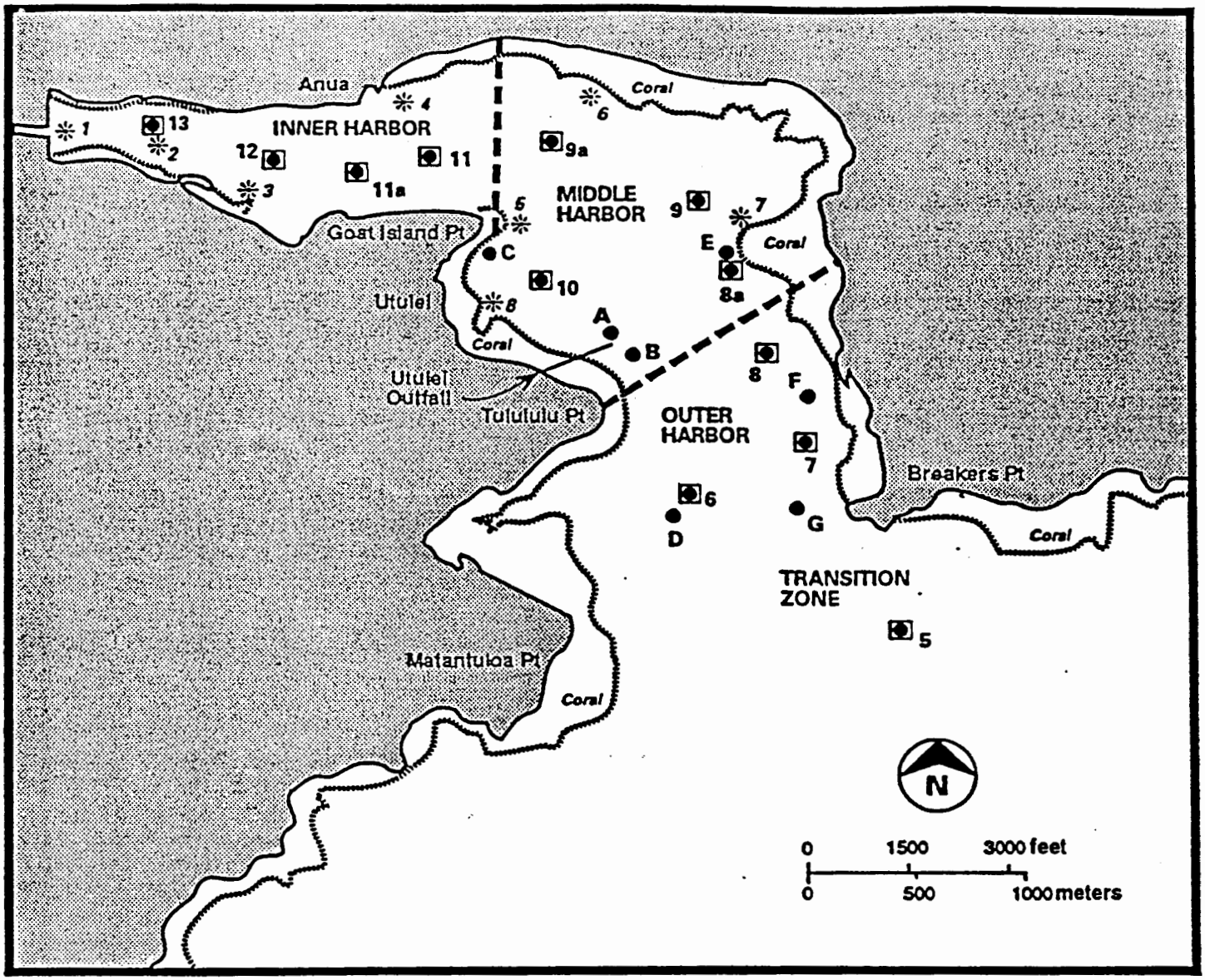


FIGURE 1. NEW MONITORING STATIONS IN PAGO PAGO HARBOR (14-18)



LEGEND

- ASG Sampling Station
- Utulei WWTP Station
- CH2M HILL Field Measurement Station (1/19/91)

FIGURE 2. LOCATION OF WATER QUALITY STATIONS IN PAGO PAGO HARBOR

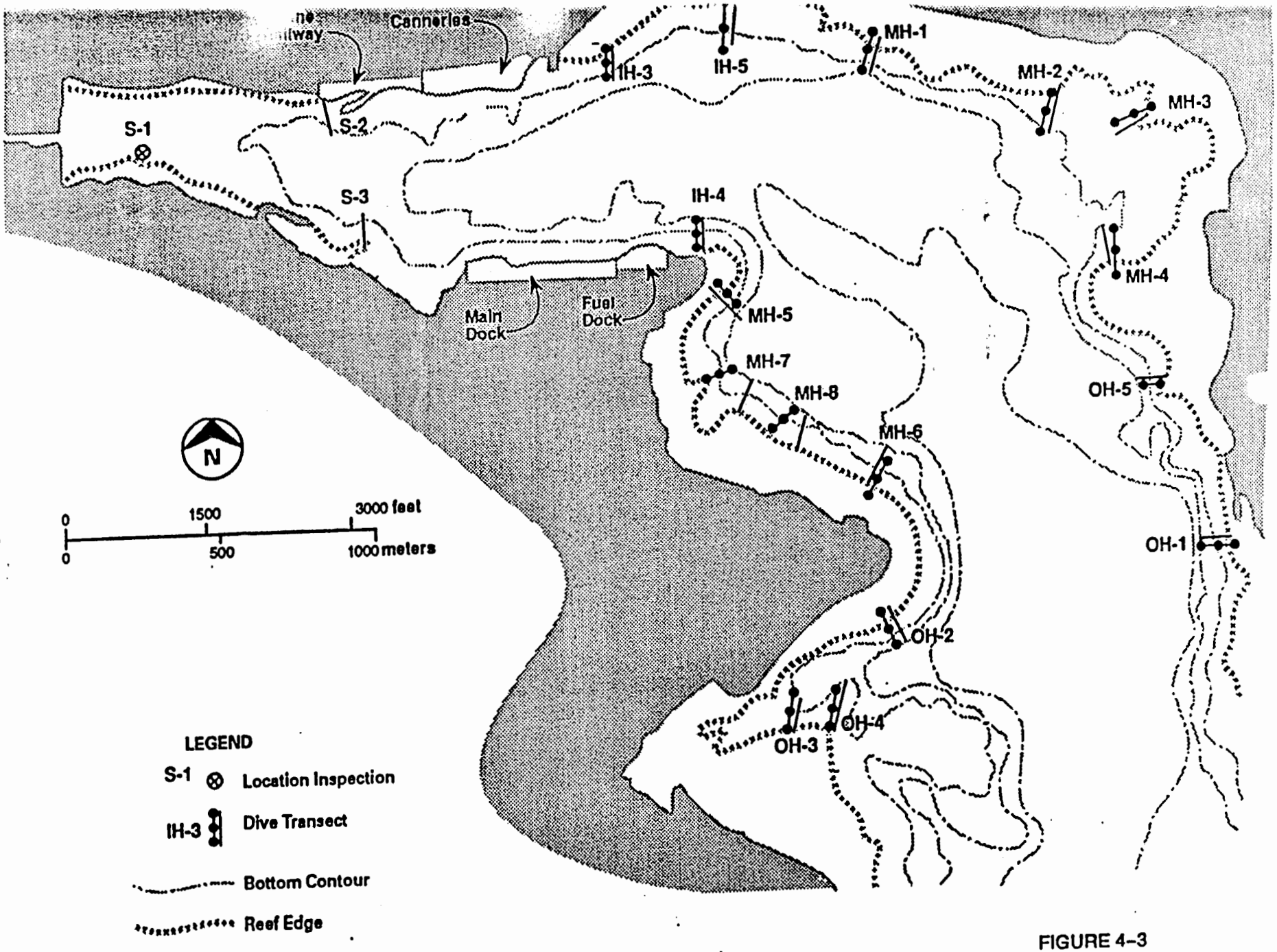


FIGURE 4-3
Coral Reef Transects from 1991 "Use Attainability Analysis", CH2M

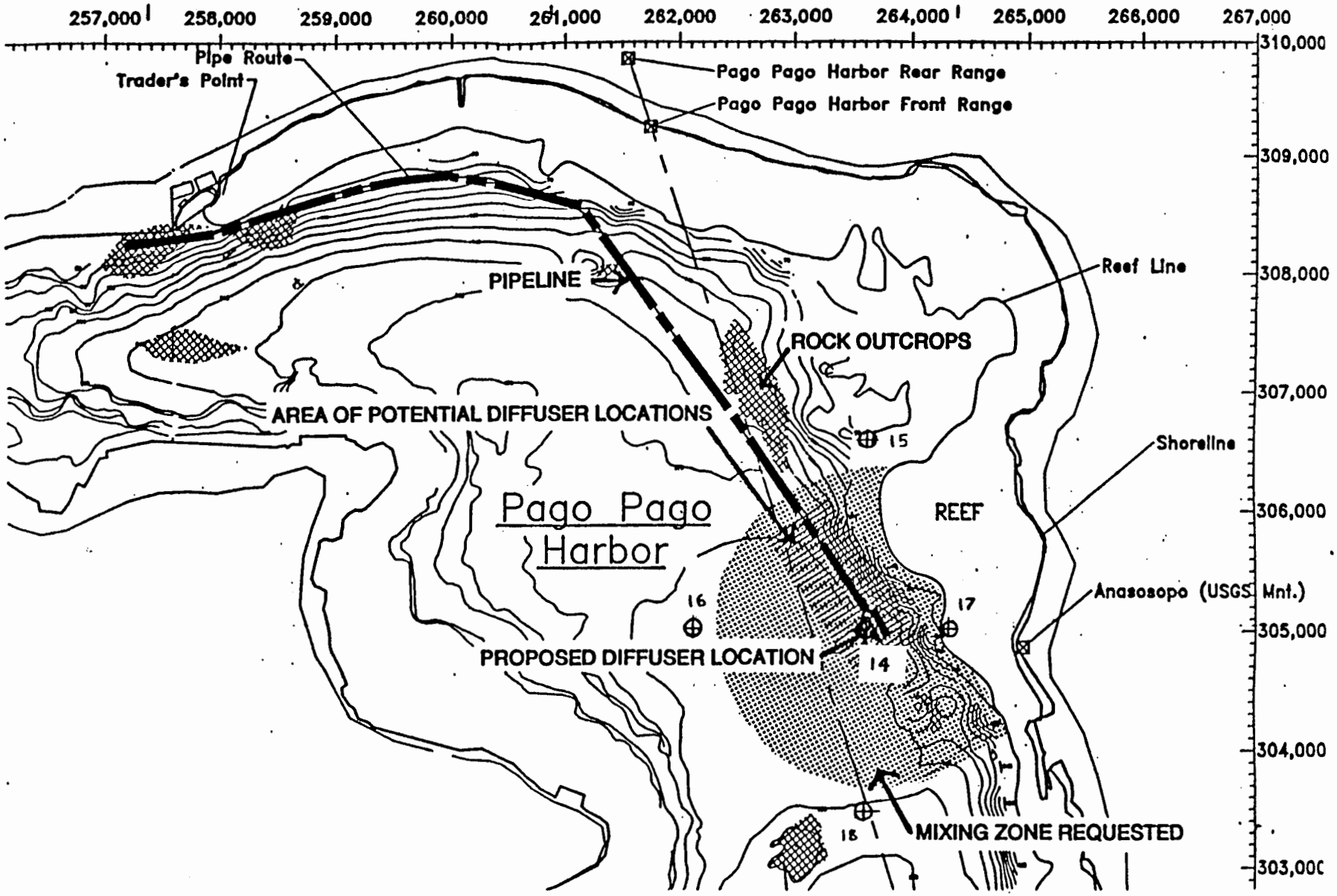


FIGURE 1. NEW MONITORING STATIONS IN PAGO PAGO HARBOR (14-18)

EPA REGION IX STANDARD FEDERAL NPDES PERMIT CONDITIONS
(Updated as of May 10, 1990)

1. Duty to Reapply [40 CFR 122.21(d)]

The permittee shall submit a new application 180 days before the existing permit expires. 122.2(c)(2) POTW's with currently effective NPDES permits shall submit with the next application the sludge information listed at 40 CFR 501.15(a)(2).

2. Applications [40 CFR 122.22]

a. All permit applications shall be signed as follows:

1) For a corporation: by a responsible corporate officer. For the purpose of this section, a responsible corporate officer means:

i) A president, secretary, treasurer, or vice-president of the corporation in charge of a principle business function, or any other person who performs similar policy- or decision-making functions for the corporation, or

ii) the manager of one or more manufacturing, production, or operating facilities employing more than 250 persons or having gross annual sales or expenditures exceeding $25 million (in second-quarter 1980 dollars), if authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.

2) For a partnership or sole proprietorship: by a general partner or the proprietor, respectively; or

3) For a municipality, State, Federal, or other public agency: By either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a Federal agency includes: (i) The chief executive officer of the agency, or (ii) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., Regional Administrators of EPA).

b. All reports required by permits and other information requested by the Director shall be signed by a person described in paragraph (a) of this Section, or by a duly authorized representative of that person. A person is a duly authorized representative only if:

1) The authorization is made in writing by a person described in paragraph (a) of this section;

2) The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity such as

the position of plant manager, operator of a well or a well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company. (A duly authorized representative may thus be either a named individual or any individual occupying a named position.) and,

3) The written authorization is submitted to the Director.

c. Changes to authorization. If an authorization under paragraph (b) of this section is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of paragraph (b) of this section must be submitted to the Director prior to or together with any reports, information, or applications to be signed by an authorized representative.

d. Certification. Any person signing a document under paragraph (a) or (b) of this section shall make the following certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

3. Duty to comply [40 CFR 122.41(a)]

The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Clean Water Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or denial of a permit renewal application.

a. The permittee shall comply with effluent standards or prohibitions established under section 307(a) of the Clean Water Act for toxic pollutants and with standards for sewage sludge use or disposal established under section 405(d) of the CWA within the time provided in the regulations that establish these standards or prohibitions, even if the permit has not yet been modified to incorporate the requirement.

b. The Clean Water Act provides that:

1) Any person who causes a violation of any condition in this permit is subject to a civil penalty not to exceed $25,000 per day of each violation. Any person who negligently causes a violation of any condition in this permit is subject to a fine off not less than $2,500 nor more than $25,000 per day of violation, or by imprisonment for not more than one year, or both for a first conviction. For a second conviction, such a person is subject to a fine of not more than $50,000 per day of violation, or by imprisonment for not more than two years, or both. [Updated pursuant to the Water Quality Act of 1987]

2) Any person who knowingly causes violation of any condition of this permit is subject to a fine of not less than $5,000 nor more than $50,000 per day of violation, or by imprisonment for not more than three years, or by both for a first conviction. For a second conviction, such a person is subject to a fine of not more than $100,000 per day of violation, or by imprisonment of not more than six years, or both. [Updated pursuant to the Water Quality Act of 1987]

3) Any person who knowingly causes a violation of any condition of this permit and, by so doing, knows at that time that he thereby places another in imminent danger of death or serious bodily injury shall be subject to a fine of not more than $250,000, or imprisonment of not more than 15 years, or both. A person who is an organization and violates this provision shall be subject to a fine of not more than $1,000,000 for a first conviction. For a second conviction under this provision, the maximum fine and imprisonment shall be doubled. [Updated pursuant to the Water Quality Act of 1987]

4. Need to halt or reduce activity not a defense [40 CFR 122.41(c)]

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

5. Duty to mitigate [40 CFR 122.41(d)]

The permittee shall take all reasonable steps to minimize or prevent any discharge or sludge use or disposal in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.

6. Proper operation and maintenance [40 CFR 122.41(e)]

The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems which are installed by a permittee only when the operation is necessary to achieve compliance with the conditions of the permit.

7. Permit actions [40 CFR 122.41(f)]

This permit may be modified, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition.

8. Property rights [40 CFR 122.41(g)]

This permit does not convey any property rights of any sort, or any exclusive privilege.

9. Duty to provide information [40 CFR 122.41(h)]

The permittee shall furnish to the Director, within a reasonable time, any information which the Director may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. The permittee shall also furnish to the Director upon request, copies of records required to be kept by this permit.

10. Inspection and entry [40 CFR 122.41(i)]

The permittee shall allow the Director, or an authorized representative, upon the presentation of credentials and other documents as may be required by law, to:

a. Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;

b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;

c. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and

d. Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the Clean Water Act, any substances or parameters at any location.

11. Monitoring and records [40 CFR 122.41(j)]

a. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.

b. The permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least 3 years from the date of the sample, measurement, report or application, except for records of monitoring information required by this permit related to the permittee's sewage sludge use and disposal activities, which shall be retained for a period of at least five years (or longer as required by 40 CFR Part 503). This period may be extended by request of the Director at any time.

c. Records of monitoring information shall include:

1) The date, exact place, and time of sampling or measurements;

2) The individual(s) who performed the sampling or measurements;

3) The date(s) analyses were performed;

4) The individual(s) who performed the analyses;

5) The analytical techniques or methods used; and

6) The results of such analyses.

d. Monitoring must be conducted according to test procedures approved under 40 CFR Part 136, or in the case of sludge use or disposal, approved under 40 CFR Part 136 unless otherwise specified in 40 CFR Part 503, unless other test procedures have been specified in this permit.

e. The Clean Water Act provides that any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained in this permit shall, upon conviction, be punished by a fine of not more than $10,000 per violation, or by imprisonment for not more than two years per violation, or by both for a first conviction. For a second conviction, such a person is subject to a fine of not more than

$20,000 per day of violation, or imprisonment for not more than four years, or both. [Updated pursuant to the Water Quality Act of 1987]

12. Signatory requirement [40 CFR 122.41(k)]

a. All applications, reports, or information submitted to the Director shall be signed and certified. (See 40 CFR 122.22)

b. The CWA provides that any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or non-compliance shall, upon conviction, be punished by a fine of not more than $10,000 per violation, or by imprisonment for not more than two years per violation, or by both for a first conviction. For a second conviction, such a person is subject to a fine of not more than $20,000 per day of violation, or imprisonment of not more than four years, or both. [Updated pursuant to the Water Quality Act of 1987]

13. Reporting requirements [40 CFR 122.41(l)]

a. Planned changes. The permittee shall give notice to the Director as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required only when:

1) The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source in 40 CFR 122.29(b); or

2) The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations in the permit, nor to notification requirements under 40 CFR 122.42(a)(1).

3) The alteration or addition results in a significant change in the permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan.

b. Anticipated noncompliance. The permittee shall give advance notice to the Director of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.

c. Transfers. This permit is not transferable to any person except after notice to the Director. The Director may require modification or revocation and reissuance of the permit to change the name of the permittee and incorporate such other requirements as may be necessary under the Clean Water Act (CWA). (See 40 CFR 122.61; in some cases, modification or revocation and reissuance is mandatory.)

d. Monitoring reports. Monitoring results shall be reported at the intervals specified elsewhere in this permit.

1) Monitoring results must be reported on a Discharge Monitoring Report (DMR) or forms provided or specified by the Director for reporting results of monitoring of sludge use or disposal practices.

2) If the permittee monitors any pollutant more frequently than required by the permit, using test procedures approved under 40 CFR Part 136 or in the case of sludge use or disposal, approved under 40 CFR Part 136 unless otherwise specified in 40 CFR Part 503, as specified in the permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR, or sludge reporting form specified by the Director.

3) Calculations for all limitations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified by the Director in the permit.

e. Compliance schedules. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than 14 days following each schedule date.

f. Twenty-four hour reporting.

1) The permittee shall report any noncompliance which may endanger health or the environment. Any information shall be provided orally within 24 hours from the time the permittee becomes aware of the circumstances. A written submission shall also be provided within 5 days of the time the permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.

2) The following shall be included as information which must be reported within 24 hours under this paragraph.

i) Any unanticipated bypass which exceeds any effluent limitation in the permit. (See 40 CFR 122.41(g).)

ii) Any upset which exceeds any effluent limitation in the permit.

iii) Violation of a maximum daily discharge limitation for any of the pollutants listed by the Director in the permit to be reported within 24 hours. (See 40 CFR 122.44(g).)

3) The Director may waive the written report on a case-by case basis for reports under paragraph (6)(ii) of this section if the oral report has been received within 24 hours.

g. Other noncompliance. The permittee shall report all instances of noncompliance not reported under paragraphs (4), (5), and (6) of this section, at the time monitoring reports are submitted. The reports shall contain the information listed in paragraph (6) of this section.

h. Other information. Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Director, it shall promptly submit such facts or information.

14. Bypass [40 CFR 122.41(m)]

a. Definitions

1) "Bypass" means the intentional diversion of waste streams from any portion of a treatment facility.

2) "Severe property damage" means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.

b. Bypass not exceeding limitations. The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of paragraphs (3) and (4) of this section.

c. Notice-

1) Anticipated bypass. If the permittee knows in advance of the need for a bypass, it shall submit prior notice, of possible at least ten days before the date of the bypass.

2) Unanticipated bypass. If the permittee shall submit notice of an unanticipated bypass as required in paragraph (a)(6) of section 13) (24-hour notice).

d. Prohibition of bypass.

1) Bypass is prohibited, and the Director may take enforcement action against a permittee for bypass, unless:

i) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;

ii) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and

iii) The permittee submitted notices as required under paragraph (3) of this section.

2) The Director may approve an anticipated bypass, after considering its adverse effects, if the Director determines that it will meet the three conditions listed above in paragraph (4)(i) of this section.

15. Upset [40 CFR 122.41(n)]

a. Definition.
"Upset" means an exceptional incident in which there is unintentional and temporary noncompliance with technology based permit effluent limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.

b. Effect of an upset. An upset constitutes an affirmative defense to an action brought for noncompliance with such technology based permit effluent limitations if the requirements of paragraph (3) of this section are met. No

determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is final administrative action subject to judicial review.

c. Conditions necessary for a demonstration of upset. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:

1) An upset occurred and that the permittee can identify the cause(s) of the upset;

2) The permitted facility was at the time being properly operated; and

3) The permittee submitted notice of the upset as required in paragraph 13)(6)(ii)(B)(24-hour notice).

4) The permittee complied with any remedial measures required under 40 CFR 122.41(d).

d. Burden of proof. In any enforcement proceeding the permittee seeking to establish the occurrence of an upset has the burden of proof.

16. Existing manufacturing, commercial, mining, and silvicultural dischargers [40 CFR 122.42(a)]

In addition to the reporting requirements under 40 CFR 122.41(l), all existing manufacturing, commercial, mining, and silvicultural dischargers must notify the Director as soon as they know or have reason to believe:

a. That any activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, of any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":

1) One hundred micrograms per liter (100 ug/l);

2) Two hundred micrograms per liter (200 ug/l) for acrolein and acrylonitrile; five hundred micrograms per liter (500 ug/l) for 2,4-dinitrophenol and for 2-methyl-4,6-dinitrophenol; and one milligram per liter (1 mg/l) for antimony;

3) Five times the maximum concentration value reported for that pollutant in the permit application in accordance with 40 CFR 122.21(g)(7); or

4) The level established by the Director in accordance with 40 CFR 122.44(f).

b. That any activity has occurred or will occur which would result in any discharge, on a nonroutine or infrequent basis, of a toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":

1) Five hundred micrograms per liter (500 ug/l);

2) One milligram per liter (1 mg/l) for antimony;

3) Ten (10) times the maximum concentration value reported for that pollutant in the permit application in accordance with 40 CFR 122.21(g)(7);

4) The level established by the Director in accordance with 40 CFR 122.44(f).

17. Publicly owned treatment works [40 CFR 122.42(b)]

This section applies only to publicly owned treatment works as defined at 40 CFR 122.2.

a. All POTW's must provide adequate notice to the Director of the following:

1) Any new introduction of pollutants into the POTW from an indirect discharger which would be subject to section 301 or 306 of CWA if it were directly discharging those pollutants; and

2) Any substantial change in the volume or character of pollutants being introduced into that POTW by a source introducing pollutants into the POTW at the time of issuance of the permit.

3) For purposes of this paragraph, adequate notice shall include information on (i) the quality and quantity of effluent introduced into the POTW, and (ii) any anticipated impact of the change on the quantity or quality of effluent to be discharged from the POTW.

b. [The following condition has been established by Region 9 to enforce applicable requirements of the Resource Conservation and Recovery Act] Publicly owned treatment works may not receive hazardous waste by truck, rail, or dedicated pipe except as provided under 40 CFR 270. Hazardous wastes are defined at 40 CFR 261 and include any mixture containing any waste listed under 40 CFR 261.31 - 261.33. The Domestic Sewage Exclusion (40 CFR 261.4) applies only to wastes mixed with domestic sewage in a sewer leading to a publicly owned treatment works and not to mixtures of hazardous wastes and sewage or septage delivered to the treatment plant by truck.

18. Reopener clause [40 CFR 122.44(c)]

This permit shall be modified or revoked and reissued to incorporate any applicable effluent standard or limitation or standard for sewage sludge use or disposal under sections 301(b)(2)(C), and (D), 304(b)(2), 307(a)(2) and 405(d) which is promulgated or approved after the permit is issued if that effluent or sludge standard or limitation is more stringent than any effluent limitation in the permit, or controls a pollutant or sludge use or disposal practice not limited in the permit.

19. Privately owned treatment works

[The following conditions were established by Region 9 to enforce applicable requirements of the Resource Conservation and Recovery Act and 40 CFR 122.44(m)]

This section applies only to privately owned treatment works as defined at 40 CFR 122.2.

a. Materials authorized to be disposed of into the privately owned treatment works and collection system are typical domestic sewage. Unauthorized materials are hazardous waste (as defined at 40 CFR Part 261), motor oil, gasoline, paints, varnishes, solvents, pesticides, fertilizers, industrial wastes, or other materials not generally associated with toilet flushing or personal hygiene, laundry, or food preparation, unless specifically listed under "Authorized Non-domestic Sewer Dischargers" elsewhere in this permit.

b. It is the permittee's responsibility to inform users of the privately owned treatment works and collection system of the prohibition against unauthorized materials and to ensure compliance with the prohibition. The permittee must have the authority and capability to sample all discharges to the collection system, including any from septic haulers or other unsewered dischargers, and shall take and analyze such samples for conventional, toxic, or hazardous pollutants when instructed by the permitting authority or by an EPA, State or Tribal inspector. The permittee must provide adequate security to prevent unauthorized discharges to the collection system.

c. Should a user of the privately owned treatment works desire authorization to discharge non-domestic wastes, the permittee shall submit a request for permit modification and an application, pursuant to 40 CFR 122.44(m), describing the proposed discharge. The application shall, to the extent possible, be submitted using EPA Forms 1 and 2C, unless another format is requested by the permitting authority. If the privately owned treatment works or collection system user is different from the permittee, and the permittee agrees to allow the non-domestic discharge, the user shall submit the application and the

permittee shall submit the permit modification request. The application and request for modification shall be submitted at least 6 months before authorization to discharge non-domestic wastes to the privately owned treatment works or collection system is desired.

20. Transfers by modification [40 CFR 122.61(a)]

Except as provided in section 21), a permit may be transferred by the permittee to a new owner or operator only if the permit has been modified or revoked and reissued (under 40 CFR 122.62(b)(2)), or a minor modification made (under 40 CFR 122.63(d)), to identify the new permittee and incorporate such other requirements as may be necessary under CWA.

21. Automatic transfers [40 CFR 122.61(b)]

As an alternative to transfers under section 20), any NPDES permit may be automatically transferred to a new permittee if:

a. The current permittee notifies the Director at least 30 days in advance of the proposed transfer date in paragraph (2) of this section;

b. The notice includes a written agreement between the existing and new permittees containing a specific date for transfer of permit responsibility, coverage, and liability between them; and

c. The Director does not notify the existing permittee and the proposed new permittee of his or her intent to modify or revoke and reissue the permit. A modification under this subparagraph may also be a minor modification under 40 CFR 122.63. If this notice is not received, the transfer is effective on the date specified in the agreement mentioned in the paragraph (2) of this section.

22. Minor modification of permits [40 CFR 122.63]

Upon the consent of the permittee, the Director may modify a permit to make the corrections or allowances for changes in the permitted activity listed in this section, without following the procedures of 40 CFR Part 124. Any permit modification not processed as a minor modification under this section must be made for cause and with 40 CFR Part 124 draft permit and public notice as required in 40 CFR 122.62. Minor modifications may only:

a. Correct typographical errors;

b. Require more frequent monitoring or reporting by the permittee;

c. Change an interim compliance date in a schedule of compliance, provided the new date is not more than 120 days after the date specified in the existing permit and does not interfere with attainment of the final compliance date requirement; or

d. Allow for a change in ownership or operational control of a facility where the Director determines that no other change in the permit is necessary, provided that a written agreement containing a specific date for transfer of permit responsibility, coverage, and liability between the current and new permittees has been submitted to the Director.

e. Change the construction schedule for a discharger which is a new source. No such change shall affect a discharger's obligation prior to discharge under 40 CFR 122.29.

f. Delete a point source outfall when the discharge from that outfall is terminated and does not result in discharge of pollutants from other outfalls except in accordance with the permit limits.

g. When the permit becomes final and effective on or after March 9, 1982, conform to changes respecting 40 CFR 122.41(e), (l), (m)(4)(i)(B), (n)(3)(i), and 122.42(a) issued September 26, 1984.

h. Incorporate conditions of a POTW pretreatment program that has been approved in accordance with the procedures in 40 CFR 403.11 as enforceable conditions of the POTW's permit.

23. Termination of permits [40 CFR 122.64]

The following are causes for terminating a permit during its term, or for denying a permit renewal application:

a. Noncompliance by the permittee with any condition of the permit;

b. The permittee's failure in the application or during the permit issuance process to disclose fully all relevant facts, or the permittee's misrepresentation of any relevant facts at any time;

c. A determination that the permitted activity endangers human health or the environment and can only be regulated to acceptable levels by permit modification or termination; or

d. A change in any condition that requires either a temporary or a permanent reduction or elimination of any discharge controlled by the permit (for example, plant closure or termination of discharge by connection to a POTW).

24. Availability of Reports [Pursuant to Clean Water Act Section 308]

Except for data determined to be confidential under 40 CFR Part 2, all reports prepared in accordance with the terms of this permit shall be available for public inspection at the offices of the Regional Administrator. As required by the Act, permit applications, permits, and effluent data shall not be considered confidential.

25. Removed Substances [Pursuant to Clean Water Act Section 301].

Solids, sludges, filter backwash, or other pollutants removed in the course of treatment or control of wastewaters shall be disposed of in a manner such as to prevent any pollutant from such materials from entering navigable waters.

26. Severability [Pursuant to Clean Water Act Section 512]

The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and remainder of this permit, shall not be affected thereby.

27. Civil and Criminal Liability [Pursuant to Clean Water Act Section 309]

Except as provided in permit conditions on "Bypass" (Section 14) and "Upset" (Section 15), nothing in this permit shall be construed to relieve the permittee from civil or criminal penalties for noncompliance.

28. Oil and Hazardous Substance Liability [Pursuant to Clean Water Act Section 311]

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under Section 311 of the Clean Water Act.

29. State or Tribal Law [Pursuant to Clean Water Act Section 510]

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the operator from any responsibilities, liabilities, or penalties established pursuant to any applicable State or Tribal law or regulation under authority preserved by Section 510 of the Clean Water Act.

Permit No. AS0000019

AUTHORIZATION TO DISCHARGE UNDER THE
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provisions of the Federal Water Pollution Control Act, as amended, (33 U.S.C. 1251 et. seq.; the "Act"),

Star-Kist Samoa, Inc.
P.O. Box 368
Pago Pago, Tutuila
American Samoa 96799

is authorized to discharge

tuna processing wastewater (discharge 001 at 14° 16' 37" S latitude, 170° 41' 10" W longitude)

storm water (discharge 002 at 14° 16' 37" S latitude, 170° 41' 12" W longitude)

from the Star-Kist Samoa Tuna Cannery located at Pago Pago, American Samoa to receiving waters named Pago Pago Harbor

in accordance with effluent limitations, monitoring requirements and other conditions set forth in Parts I, II and III hereof.

This permit shall become effective on March 8 , 1987.

This permit and the authorization to discharge shall expire at midnight, March 7 , 1992.

Signed this 3rd day of February , 1987

For the Regional Administrator

James E. Thompson

Acting Director
Water Management Division

PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (based on a maximum production rate of 500 tons/day of seafood processed and an approximate flow rate of 2.08 MGD)

1. During the period beginning (March 8, 1987) and lasting through (March 7, 1988), the permittee is authorized to discharge from Outfall Serial No. 001 (tuna processing wastewater).

a. Such discharges shall be limited and monitored by the permittee as specified below:

	Discharge Limitations			Monitoring Requirements	
	loading		concentration in mg/l		
Effluent Characteristic	Monthly Average	Daily Maximum	Monthly Average	Measurement Frequency	Sample Type
Flow (MGD)	(d)	(d)	-	Continuous	Continuous
Temperature (°F)	(d)	90	-	Continuous	Continuous
pH (Standard Units) (e)	Not less than 6.5 and not greater than 8.6			Continuous	Continuous
Total Suspended Solids (lbs/day)	3,300	8,300	(d)	Twice weekly	Composite
Total Suspended Solids (lbs/1000 lbs seafood)	3.3	8.3		Twice weekly	Calculated
Oil and Grease (a)(b) (lbs/day)	840	2,100	(d)	Twice weekly	Composite
Oil and Grease (a)(b) (lbs/1000 lbs seafood)	0.84	2.1	-	Twice weekly	Calculated
Total Nitrogen (b) (lbs/day)	(d)	(d)	(d)	Twice weekly	Composite
Total Phosphorus (b) (lbs/day)	(d)	(d)	(d)	Twice weekly	Composite

(a) The test procedure for the analysis of oil and grease shall comply with the method described in the manual of "Methods for Chemical Analysis of Water and Wastes," 1974, EPA, Methods Development and Quality Assurance Research Laboratory, page 229 (with written EPA approval for non-substantive changes) or an alternate procedure approved in accordance with the procedures specified in regulations published pursuant to Section 304(h) of the Act.

(b) Samples shall be taken concurrently.

(d) Reporting required only.

(e) The total time during which the pH values are outside the required range of pH values shall not exceed 7 hours and 26 minutes in any calendar month; and no individual excursions from the range of pH values shall exceed 60 minutes.

PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (based on a maximum production rate of 500 tons/day of seafood processed and an approximate flow rate of 2.08 MGD)

2. During the period beginning (March 8, 1988) and lasting through (March 7, 1991), the permittee is authorized to discharge from Outfall Serial No. 001 (tuna processing wastewater).

a. Such discharges shall be limited and monitored by the permittee as specified below:

	Discharge Limitations			Monitoring Requirements	
	loading		concentration in mg/l		
Effluent Characteristic	Monthly Average	Daily Maximum	Monthly Average	Measurement Frequency	Sample Type
Flow (MGD)	(d)	(d)	-	Continuous	Continuous
Temperature (°F)	(d)	90	-	Continuous	Continuous
pH (Standard Units) (e)	Not less than 6.5 and not greater than 8.6			Continuous	Continuous
Total Suspended Solids (lbs/day)	3,300	8,300	(d)	Twice weekly	Composite
Total Suspended Solids (lbs/1000 lbs seafood)	3.3	8.3	-	Twice weekly	Calculated
Oil and Grease (a)(b) (lbs/day)	840	2,100	(d)	Twice weekly	Composite
Oil and Grease (a)(b) (lbs/1000 lbs seafood)	0.84	2.1	-	Twice weekly	Calculated
Total Nitrogen (b) (lbs/day)	2,200	4,300	(d)	Twice weekly	Composite
Total Phosphorus (b) (lbs/day)	440	750	(d)	Twice weekly	Composite

(a) The test procedure for the analysis of oil and grease shall comply with the method described in the manual of "Methods for Chemical Analysis of Water and Wastes," 1974, EPA, Methods Development and Quality Assurance Research Laboratory, page 229 (with written EPA approval for non-substantive changes) or an alternate procedure approved in accordance with the procedures specified in regulations published pursuant to Section 304(h) of the Act.

(b) Samples shall be taken concurrently.

(d) Reporting required only.

(e) The total time during which the pH values are outside the required range of pH values shall not exceed 7 hours and 26 minutes in any calendar month; and no individual excursions from the range of pH values shall exceed 60 minutes.

PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (based on a maximum production rate of 500 tons/day of seafood processed and an approximate flow rate of 2.08 MGD)

3. During the period beginning with (March 8, 1991) and lasting through (March 7, 1992), the permittee is authorized to discharge from Outfall Serial No. 001 (tuna processing wastewater).

a. Such discharges shall be limited and monitored by the permittee as specified below:

	Discharge Limitations			Monitoring Requirements	
	loading		concentration in mg/l		
Effluent Characteristic	Monthly Average	Daily Maximum	Monthly Average	Measurement Frequency	Sample Type
Flow (MGD)	(d)	(d)	-	Continuous	Continuous
Temperature (°F)	(d)	85	-	Continuous	Continuous
pH (Standard Units) (e)	Not less than 6.5 and not greater than 8.6			Continuous	Continuous
Total Suspended Solids (lbs/day)	3,300	8,300	(d)	Twice weekly	Composite
Total Suspended Solids (lbs/1000 lbs seafood)	3.3	8.3	-	Twice weekly	Calculated
Oil and Grease (a)(b) (lbs/day)	840	2,100	(d)	Twice weekly	Composite
Oil and Grease (a)(b) (lbs/1000 lbs seafood)	0.84	2.1	-	Twice weekly	Calculated
Total Nitrogen (b)(c)	-	-	0.20	Twice weekly	Composite
Total Phosphorus (b)(c)	-	-	0.03	Twice weekly	Composite

(a) The test procedure for the analysis of oil and grease shall comply with the method described in the manual of "Methods for Chemical Analysis of Water and Wastes," 1974, EPA, Methods Development and Quality Assurance Research Laboratory, page 229 (with written EPA approval for non-substantive changes) or an alternate procedure approved in accordance with the procedures specified in regulations published pursuant to Section 304(h) of the Act.

(b) Samples shall be taken concurrently.

(c) Median monthly value may not exceed the given limitation. In addition, 10% of the sample results obtained during the month may not exceed 0.35 mg/l for total nitrogen, or 0.06 mg/l for total phosphorus.

(d) Reporting required only.

(e) The total time during which the pH values are outside the required range of pH values shall not exceed 7 hours and 26 minutes in any calendar month; and no individual excursions from the range of pH values shall exceed 60 minutes.

PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

4. During the period beginning with (March 8, 1987) and lasting through (March 7, 1992), the permittee is authorized to discharge from Outfall Serial No. 002 (storm water).

a. Such discharges shall be monitored by the permittee as specified below:

	Discharge Limitations			Monitoring Requirements	
	loading		concentration in mg/l		
Effluent Characteristic	Monthly Average	Daily Maximum	Monthly Average	Measurement Frequency	Sample Type
Temperature (°F)	-	-	-	Twice Monthly	Composite
Turbidity (NTU)	-	-	-	Twice Monthly	Composite
Oil and Grease (a)(b)	-	-	-	Twice Monthly	Composite

b. The permittee shall ensure that the stormwater runoff from the permittee's facilities is not contaminated by fish wastes activities, including but not limited to, plant and dock washdown or thaw water on the dock.

(a) The test procedure for the analysis of oil and grease shall comply with the method described in the manual of "Methods for Chemical Analysis of Water and Wastes," 1974, EPA, Methods Development and Quality Assurance Research Laboratory, page 229 (with written EPA approval for non-substantive changes) or an alternate procedure approved in accordance with the procedures specified in regulations published pursuant to Section 304(h) of the Act.

(b) Samples shall be taken concurrently.

5. During the period beginning (March 8, 1987) and lasting through (March 7, 1992), the discharges from Outfall Serial No. 001 and Outfall Serial No. 002 shall also be limited as follows:

   a. There shall be no discharge of floating solids or visible foam in other than trace amounts.

   b. Samples taken in compliance with the monitoring requirements specified above shall be taken at the discharge of Outfall Serial No. 001 and Outfall Serial No. 002. Effluent samples shall be taken downstream from the treatment works prior to mixing with the receiving waters.

   c. There shall be no discharge of toxic substances that violate the water quality standards for the Territory of American Samoa.

   d. The discharge shall not cause objectionable odors at the surface of the receiving waters.

6. Toxic Substance Monitoring Program

   During the period beginning (March 8, 1987) and lasting through (March 7, 1992), the discharges from Outfall Serial No. 001 shall also be monitored as follows:

   Cannery supply water and cannery effluent at Outfall Serial No. 001 shall be sampled and reported twice yearly for cadmium, chromium, lead, mercury, and zinc. The supply water shall be sampled at a location not influenced by the effluent.

7. Current Monitoring Program

   The permittee, jointly with Samoa Packing Company (NPDES permit No. AS0000027), shall establish with the American Samoa Government a current monitoring program to obtain data necessary to evaluate alternate discharge locations.

8. Receiving Water Monitoring Program

The permittee, jointly with Samoa Packing Company (NPDES permit No. AS0000027), shall perform or cause to be performed, the following receiving water monitoring program established in Pago Pago Harbor.

Parameter	Units	Stations*	Frequency	Sample Type
Temperature	°C	5-13	Monthly	Discrete
pH	Standard Units	5-13	Monthly	Discrete
Dissolved Oxygen	mg/L	5-13	Monthly	Discrete
Suspended Solids	mg/L	5-13	Monthly	Discrete
Light Penetration	ft	5-13	Monthly	Discrete
Turbidity	NTU	5-13	Monthly	Discrete
Salinity	ppt	5-13	Monthly	Discrete
Total Nitrogen	ug/L	5-13	Monthly	Discrete
Total Phosphorus	ug/L	5-13	Monthly	Discrete

* The station locations shall be the historical stations designated by the American Samoa Environmental Protection Agency. These measurements shall be taken at 3- foot and 60-foot depths with the exception of Station 13 where measurements shall be taken at the 3-foot and 30-foot depths.

9. Quality Assurance/Quality Control

All waste material sampling procedures, analytical protocols, and quality assurance/quality control procedures shall be performed in accordance with guidelines specified by EPA Region 9. The following references shall be used by the permittee where appropriate:

a. EPA, 40 CFR 136, Guidelines Establishing Test Procedures for the Analysis of Pollutants Under the Clean Water Act;

b. Tetra Tech, Inc. 1985. Summary of U.S. EPA-approved methods, standard methods and other guidance for 301(h) monitoring variables. Final program document prepared for the Marine Operations Division, Office of Marine and Estuarine Protection, U.S. Environmental Protection Agency. EPA Contract No. 68-01-693. Tetra Tech, Inc., Bellevue, Wa.; and

c. Tetra Tech, Inc. 1986. Quality assurance and quality control guidance for 301(h) monitoring programs. Final program document prepared for document prepared for the Marine Operations Division, Office of Marine and Estuarine Protection, U.S. Environmental Protection Agency. EPA Contract No. 68-01-3968. Tetra Tech, Inc., Bellevue, Wa.

B. SCHEDULE OF COMPLIANCE

1. The permittee shall submit a report to EPA and the American Samoa Government (ASG) which describes and evaluates the alternatives for achieving compliance with the water quality standards of American Samoa. The alternatives shall be those chosen by the permittee in consultation with the ASG and capable of achieving compliance with the water quality standards within four years of the effective date of this permit. The selection of alternatives shall reflect any decision made by the ASG on the permittee's pending application for a mixing zone under paragraph V.B of the water quality standards and may also assume, with the concurrence of the ASG, technical modifications to paragraph V.B.g. of the water quality standards regarding methodology for calculating mixing zones as they may relate to consideration of far field dilution. The report shall be submitted no later than 18 months after the effective date of this permit.

2. The permittee shall select one of the alternatives described in the report to be completed pursuant to I.B.1 and submit a schedule of implementation to EPA and ASG. The schedule shall specify, at a minimum:

   a. The chosen alternative.

   b. The date by which the permittee will apply to the ASG for a mixing zone, if a mixing zone would be needed to achieve compliance with the water quality standards.

   c. The date by which any necessary facility modifications and/or new facility construction will be commenced.

   d. The date by which the chosen alternative will be fully operational.

3. The schedule must be approved by both the EPA and ASG. Upon such approval, and notice and opportunity for public comment, the permit shall be reopened and modified to include schedule and the dates contained therein to bring the discharges into compliance with applicable water quality standards. The schedule shall be submitted no later than 24 months after the effective date of this permit.

4. The permittee shall comply with effluent limitations and conditions established in Parts I.A. and I.B.1.-I.B.3. in accordance with the following schedule of compliance.

   The permittee shall:

   a. Achieve compliance with the effluent limits established in Parts I.A.1., I.A.4., and I.A.5. by (March 8, 1987).

   b. Achieve compliance with the effluent limits established in Part I.A.2. by.....(March 7, 1988)

   c. Submit a report to EPA and Government of American Samoa confirming compliance with the Part I.A.2. effluent limits by....(March 21, 1988)

   d. Submit a report to EPA and Government of Samoa describing and evaluating alternatives for achieving within four years compliance with the water quality standards of American Samoa.....(October 5, 1988)

   e. Submit a schedule of implementation of the alternative selected in Part I.B.2 to EPA and Government of American Samoa.....(March 21, 1989)

   f. Submit a report to EPA and Government of American Samoa which evaluates progress towards achieving compliance with effluent limits necessary for achieving water quality standards set forth in Part I.A.3. by.....(March 21, 1990)

   g. Achieve compliance with the effluent limits necessary for achieving water quality standards set forth in Part I.A.3. by.....(March 7, 1991)

   h. Submit a report to EPA and Government of American Samoa confirming compliance with the effluent limits necessary for achieving water quality standards set forth in Part I.A.3. by.....(March 21, 1991)

C. MONITORING AND RECORDS

1. Representative Sampling

Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored discharge.

2. Monitoring Procedures

Monitoring must be conducted according to test procedures approved under 40 CFR Part 136, unless other test procedures have been specified in this permit.

3. Penalties for Tampering

The Act provides that any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under this permit shall, upon conviction, be punished by a fine of not more than $10,000 per violation, or by imprisonment for not more than 6 months per violation, or by both.

4. Reporting of Monitoring Results

Monitoring results obtained during the previous 3 months shall be summarized for each month and submitted quarterly on forms to be supplied by the Regional Administrator, to the extent that the information reported may be entered on the forms. The results of all monitoring required by this permit shall be submitted in such a format as to allow direct comparison with the limitations and requirements of this permit. Unless otherwise specified, discharge flows shall be reported in terms of the average flow over each 30-day period and the maximum daily flow over that 30-day period. Monitoring reports shall be postmarked no later than the 28th day of the month following the completed reporting period. The first report is due on July 28, 1987.

Signed copies of these, and all other reports required herein, shall be submitted to the Regional Administrator and the Government of American Samoa at the following address:

Regional Administrator
Environmental Protection Agency
Region 9, Attn: W-1-1
215 Fremont Street
San Francisco, CA 94105

Executive Secretary
Environmental Quality Commission
Government of American Samoa
Tutuila, Pago Pago
American Samoa 96920

5. Definitions

a. The "monthly average" discharge means the total discharge by weight during a calendar month divided by the number of days in the month that the production or commercial facility was operating. Where less than daily sampling is required by this permit, the monthly average discharge shall be determined by the summation of all the measured daily discharges by weight divided by the number of days during the calendar month when the measurements were made.

b. The "daily maximum" discharge means the total discharge by weight during any calendar day.

c. A "discrete" sample means any individual sample collected in less than 15 minutes.

d. A "composite sample" means a combination of no fewer than eight individual samples obtained at equal time intervals over the production period of the day of sampling. The volume of each individual sample shall be proportional to the discharge flow rate at the time of sampling.

e. "Seafood" means the raw material, including freshwater and saltwater fish and shellfish, to be processed, in the form in which it is received at the processing plant.

6. Additional Monitoring by the Permittee

If the permittee monitors any pollutant more frequently than required by this permit, using test procedures approved under 40 CFR Part 136 or as specified in the permit, the results of such monitoring shall be included in the calculation and reporting of the data submitted in the DMR.

7. Averaging of Measurements

Calculations for all limitations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified by the Regional Administrator in the permit.

8. Intermittent Discharge Monitoring

If the discharge is intermittent rather than continuous, then on the first day of each such intermittent discharge, the permittee shall monitor and record data for all the characteristics listed in the monitoring requirements, after which the frequencies of analysis listed in the monitoring requirements shall apply for the duration of each such intermittent discharge. In no event shall the permittee be required to monitor and record data more often than twice the frequencies listed in the monitoring requirements.

9. Monitoring Modification

Monitoring, analytical, and reporting requirements may be modified by the Regional Administrator upon due notice.

10. Retention of Records

The permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit for a period of at least three (3) years from the date of the sample, measurement, or report. This period may be extended by request of the Regional Administrator at any time.

11. Records Content

Records of monitoring information shall include:

a. The date, place, and time of sampling or measurements;

b. The individual(s) who performed the sampling or measurements;

c. The date(s) analyses were performed;

d. The individual(s) who performed the analyses;

e. The analytical techniques or methods used; and

f. The results of such analyses.

12. Inspection and Entry

The permittee shall allow the Regional Administrator, or the Executive Secretary, or an authorized representative, upon the presentation of credentials and other documents as may be required by law, to:

a. Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;

b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;

c. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and

d. Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the Act, any substances or parameters at any location. If samples are taken, the permittee shall be given split samples upon request.

D. REPORTING REQUIREMENTS

1. Anticipated Noncompliance

The permittee shall give advance notice to the Regional Administrator of any planned changes in the permitted facility or activity which may result in noncompliancw with permit requirements.

2. Compliance Reports

Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than 14 days following each schedule date.

3. Monitoring Reports

Monitoring results shall be reported at the intervals specified in Part I.C.4. of this permit.

4. Twenty-Four Hour Reporting of Noncompliance

The permittee shall report any noncompliance which may endanger health or the environment. Any information shall be provided orally within 24 hours from the time the permittee becomes aware of the circumstances. A written submission shall also be provided within 5 days of the time the permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including dates and times, and, if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.

The following shall be included as information which must be reported within 24 hours:

a. Any unanticipated bypass which exceeds any effluent limitation in the permit;

b. Any upset which exceeds any effluent limitation in the permit; and

c. Violation of a maximum daily discharge limitation for any toxic pollutant or hazardous substance, or any pollutant specifically identified as the method to control a toxic pollutant or hazardous substance, listed as such by the Regional Administrator in the permit to be reported within 24 hours.

5. Other Noncompliance

The permittee shall report all instances of noncompliance not reported under Part I.D.4. at the time monitoring reports are submitted. The reports shall contain the information listed in Part I.D.4.

6. Signatory Requirements

a. Applications. All permit applications shall be signed as follows:

(1) For a corporation: by a responsible corporate officer. For the purposes of this section, a responsible corporate officer means (a) a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy- or decision-making functions for the corporation, or (b) the manager of one or more manufacturing, production, or operating facilities employing more than 250 persons or having gross annual sales or expenditures exceeding $25 million (in second-quarter 1980 dollars), if authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.

(2) For a partnership or sole proprietorship: by a general partner or proprietor, respectively; or

(3) For a municipality, State, Federal, or other public agency: by either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a Federal agency includes (a) the chief executive officer of the agency, or (b) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., Regional Administrators of EPA).

b. Reports. All reports required by permits and other information requested by the Regional Administrator shall be signed by a person described in paragraph a. of this section, or by a duly authorized representative of that person. A person is a duly authorized representative only if:

(1) The authorization is made in writing by a person described in paragraph a. of this section;

(2) The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity, such as the position of plant manager, operator of a well or a well field, superintendent, or position of equivalent responsibility. (A duly authorized representative may thus be either a named individual or any individual occupying a named position.) and

(3) The written authorization is submitted to the Regional Administrator.

c. Changes to authorization. If an authorization under paragraph b. of this section is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of paragraph b. of this section must be submitted to the Regional Administrator prior to or together with any reports, information, or applications to be signed by an authorized representative.

d. Certification. Any person signing a document under paragraphs a. or b. of this section shall make the following certification:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

7. Duty to Provide Information

The permittee shall furnish to the Regional Administrator, within a reasonable time, any information which the Regional Administrator may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. The permittee shall also furnish to the Regional Administrator upon request, copies of records required to be kept by this permit.

8. Availability of Reports

Except for data determined to be confidential under 40 CFR Part 2, all reports prepared in accordance with the terms of this permit shall be available for public inspection at the offices of the Regional Administrator. As required by the Act, permit applications, permits, and effluent data shall not be considered confidential.

9. Penalties for Falsification of Reports

The Act provides that any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or noncompliance shall, upon conviction, be punished by a fine of not more than $10,000 per violation, or by imprisonment for not more than 6 months per violation, or by both.

10. Planned Changes

The permittee shall give notice to the Director as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required only when:

a. The alteration or addition to the permitted facility may meet one of the criteria for determining whether a facility is a new source in 40 CFR § 122.29 (b); or

b. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations in the permit, nor to notification requirements under 40 CFR § 122.42 (a)(1).

PART II

A. OPERATION AND MAINTENANCE OF POLLUTION CONTROLS

1. Proper Operation and Maintenance

The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures. This provision requires the operation of backup or auxilliary facilities or similar systems which are installed by the permittee only when the operation is necessary to achieve compliance with the conditions of the permit.

2. Need to Halt or Reduce Not a Defense

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

3. Bypass of Treatment Facilities

a. Definitions

(1) "Bypass" means the intentional diversion of waste streams from any portion of a treatment facility.

(2) "Severe property damage" means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which are reasonably expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.

b. Bypass not exceeding limitations

The permittees may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of paragraphs c. and d. of this section.

c. Notice

(1) Anticipated bypass. If the permittee knows in advance of the need for a bypass, he shall submit prior notice, if possible, at least 10 days before the date of the bypass.

(2) Unanticipated bypass. The permittee shall submit notice of an unanticipated bypass as required in Part I.D.4. (24-hour notice).

d. Prohibition of bypass

(1) Bypass is prohibited, and the Regional Administrator may take enforcement action against the permittee for bypass, unless:

(a) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;

(b) There were no feasible alternatives to the bypass, such as the use of auxilliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate backup equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and

(c) The permittee submitted notices as required under paragraph c. of this section.

(2) The Regional Administrator may approve an anticipated bypass, after considering its adverse effects, if he determines that it will meet the three conditions listed above in paragraph d.(1) of this section.

4. Upset Conditions

a. Definition

"Upset" means an exceptional incident in which there is unintentional and temporary noncompliance with technology-based permit effluent limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.

b. Effect of an upset

An upset constitutes an affirmative defense to an action brought for noncompliance with such technology-based permit effluent Limitations if the requirements of paragraph c of this section are met. No determination made during administrative review of claims that noncompliance was caused by an upset, and before an action for noncompliance, is final administrative action subject to judicial review.

c. Conditions necessary for a demonstration of upset

A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:

(1) An upset occurred and that the permittee can identify the the specific cause(s) of the upset;

(2) The permitted facility was at the time being properly operated;

(3) The permittee submitted notice of the upset as required in Part I.D.4. (24-hour notice); and

(4) The permittee complied with any remedial measures required under Part II.B.4. (duty to mitigate).

d. Burden of proof

In any enforcement proceeding the permittee seeking to establish the occurrence of an upset has the burden of proof.

5. Removed Substances

Solids, sludges, filter backwash, or other pollutants removed in the course of treatment or control of wastewaters shall be disposed of in a manner such as to prevent any pollutant from such materials from entering navigable waters.

B. GENERAL CONDITIONS

1. Duty to Comply

The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or denial of a permit renewal application.

2. Duty to Comply with Toxic Effluent Standards

The permittee shall comply with effluent standards or prohibitions established under section 307(a) of the Act for toxic pollutants within the time provided in the regulations that establish these standards or prohibitions, even if the permit has not yet been modified to incorporate the requirement.

3. Penalties for Violation of Permit Conditions

The Act provides that any person who violates a permit condition implementing sections 301, 302, 306, 307, 308, 318, or 405 of the Act is subject to a civil penalty not to exceed $10,000 per day of such violation. Any person who willfully or negligently violates permit conditions implementing sections 301, 302, 306, 307, or 308 of the Act is subject to a fine of not less than $2,500 nor more than $25,000 per day of violation, or by imprisonment for not more than one year, or both.

4. Duty to Mitigate

The permittee shall take all reasonable steps to minimize or prevent any discharge in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.

5. Permit Actions

This permit may be modified, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or notification of planned changes and anticipated noncompliance, does not stay any permit condition.

6. Toxic Pollutants

Notwithstanding Part II.B.5. above, if a toxic effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is established under Section 307(a) of the Act for a toxic pollutant which is present in the discharge and such standard or prohibition is more stringent than any limitation for such pollutant in this permit, this permit shall be revoked and reissued or modified in accordance with the toxic effluent standard or prohibition and the permittee so notified.

7. Transfers

This permit is not transferable to any person except after notice to the Regional Administrator. The Regional Administrator may require modification or revocation and reissuance of the permit to change the name of the permittee and incorporate such other requirements as may be necessary under the Act.

8. Transfer of Ownership or Control

In the event of any change in control or ownership of facilities from which the authorized discharges emanate, the permittee shall notify the succeeding owner or controller of the existence of this permit by letter, a copy of which shall be forwarded to the Regional Adminstrator.

9. Civil and Criminal Liability

Except as provided in permit conditions on "Bypasses" (Part II.A.3.) and "Upsets" (Part II.A.4.), nothing in this permit shall be construed to relieve the permittee from civil or criminal penalties for noncompliance.

10. Oil and Hazardous Substance Liability

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under section 311 of the Act.

11. State Laws

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the operator from any responsiblities, liabilities, or penalties established pursuant to any applicable State law or regulation under authority preserved by Section 510 of the Act.

12. Property Rights

The issuance of this permit does not convey any property rights of any sort, or any exclusive privileges, nor does it authorize any injury to private property, or any invasion of personal rights, nor any infringement of Federal, State, or local laws or regulations.

13. Severability

The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

PART III

A. REAPPLICATION

If the permittee desires to continue an activity regulated by this permit after the expiration of the permit, the permittee must apply for and obtain a new permit.

B. NOTIFICATION REQUIREMENTS

The permittee must notify the Regional Administrator as soon as they know or have reason to believe:

(1) That any activity has occurred or will occur which would result in the discharge of any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":

(a) One hundred micrograms per liter (100 ug/l);

(b) Two hundred micrograms per liter (200 ug/l) for acrolein and acrylonitrile; five hundred micrograms per liter (500 ug/l) for 2,4-dinitrophenol and for 2-methyl-4,6-dinitrophenol; and one milligram per liter (1 mg/l) for antimony;

(c) Five (5) times the maximum concentration value reported for that pollutant in the permit application in accordance with §122.21 (g)(9).

C. REOPENER

After notice and opportunity for public comment, this permit may be modified, suspended, or revoked in whole or in part during its term for cause including, but not limited to, the following:

1. Violation of any terms or conditions of this permit;

2. The Government of American Samoa granting a zone of mixing;

3. The results of the study, alternative, and schedule required in Part I; or

4. Revisions to the American Samoa Water Quality Standards, including, but not limited to, revisions to the methodology used to determine compliance with water quality standards.

CERTIFIED MAIL 145998

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
215 Fremont Street
San Francisco, Ca. 94105

In reply E-4-1
Refer to: 861.C

Dave Ballands
General Manager
Engineering Services
Star-Kist Foods, Inc.
Terminal Island, CA 90731

Dear Mr. Ballands:

Enclosed is a signed and dated copy of the National Pollutant Discharge Elimination System (NPDES) permit for:

Star-Kist Samoa, Inc., NPDES Permit No. AS0000019

The Regional Administrator has reviewed the NPDES application in accordance with the Clean Water Act of 1977 and has also published a public notice of tentative determinations regarding the application. After considering the expressed views of all interested persons and agencies, pertinent Federal statutes and regulations, and State comments and/or certification of the discharge, the Regional Administrator, pursuant to 40 CFR 124, Subpart G, has made final determinations (the enclosed permit) which differ significantly from those proposed in the public notice.

The permit is hereby issued upon the date of signature and shall become effective thirty days from the date of signature, unless there is a written request for an evidentiary hearing pursuant to 40 CFR 124, Subpart H. Any request for an evidentiary hearing must be submitted within thirty days following receipt of this letter.

Sincerely yours,

Clyde B. Eller

Clyde B. Eller
Director
Enforcement Division

Enclosures

cc: Environmental Quality Commission, American Samoa
US Fish and Wildlife Service, Honolulu
US Army Corps of Engineers, Honolulu
US Coast Guard, 14th District

Permit No. AS0000019

AUTHORIZATION TO DISCHARGE UNDER THE
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provisions of the Federal Water Pollution Control Act, as amended, (33 USC 1251 et seq; the "Act"), Star-Kist Samoa, Inc., is authorized to discharge from Star-Kist Samoa tuna cannery located at Pago Pago, Tutuila Island, American Samoa 96799, Outfall Discharge Serial No. 001 (tuna processing wastewater) Latitude 14°16'20"S Longitude 170°41'10"W to receiving waters of Pago Pago Harbor in accordance with effluent limitations, monitoring requirements, and other conditions set forth in Parts I, II and III hereof.

This permit shall become effective on May 8, 1980.

This permit and the authorization to discharge shall expire at midnight, March 31, 1985.

Signed this 8th day of April, 1980.

For the Regional Administrator

Clyde B. Eller

Clyde B. Eller
Director
Enforcement Division

Cer. .ed Mail No. 145984

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
215 Fremont Street
San Francisco, Ca. 94105

In reply refer to: E-4-1
861.C

Dave Ballands
General Manager
Engineering Services
Star-Kist Foods, Inc.
Terminal Island, CA 90751

Dear Mr. Ballands:

Enclosed is a signed and dated copy of a modification of a National Pollutant Discharge Elimination System (NPDES) permit for:

Star-Kist Samoa, Inc., NPDES Permit No. AS0000019

The Regional Administrator has reviewed the NPDES modification in accordance with the Clean Water Act and has also published a public notice of tentative determination regarding the modification. After considering the expressed views of all interested persons and agencies, and State comments and/or certification of the discharge, the Regional Administrator, pursuant to 40 CFR 124, Subpart G, has made final determinations (the enclosed modification) which differ significantly from those in the public notice.

The modification is hereby issued and shall become effective thirty days from the date of signature unless there is a written request for an evidentiary hearing pursuant to 40 CFR 124 Subpart H. Any request for an evidentiary hearing must be submitted within thirty days following the receipt of this letter.

Sincerely yours,

Clyde B. Eller

Clyde B. Eller
Director
Enforcement Division

Enclosures

cc: Environmental Quality Commission, American Samoa
U.S. Fish & Wildlife Service, Honolulu
U.S. Army Corps of Engineers, Honolulu
U.S. Coast Guard, 14th District

This is the current limits

Part I.

A. Effluent Limitations and Monitoring Requirements (based on a maximum production rate of 210 tons/day of seafood processed and an approximate flow rate of 1.2 MGD (0.53 cubic meters per second)).

1. During the period beginning with the effective date of this permit and lasting through March 31, 1985, the permittee is authorized to discharge from Outfall Serial No. 001 (tuna processing wastewater).

a. Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations				Monitoring Requirements	
	kg/day (lbs/day)		kg/kkg of seafood (lbs/1000 lbs of seafood)		Measure-ment Frequency	Sample Type
	30-Day Average	Daily Maximum	30-Day Average	Daily Maximum		
Flow m^3/Day MGD	-	-	-	-	Contin-uous	Contin-uous
Temperature	-	-	-	90°F	Contin-uous	Contin-uous
BOD_5	-	-	-	-	Once Monthly	Composite
Total Suspended Solids	630 (1386)	1540 (3500)	3.3 (3.3)	-	Twice Weekly	Composite
*Oil and **Grease	154 (350)	406 (882)	0.84 (0.84)	-	Twice Weekly	Discrete
**Total Nitrogen (Kjeldahl+Nitrate +Nitrite)	-	-	-	-	Once Monthly	Composite
**Total Phosphorus	-	-	-	-	Once Monthly	Composite

*The test procedure for the analysis of oil and grease shall comply with the method described in the manual of "Methods for Chemical Analysis of Water and Wastes," 1974, EPA, Methods Development and Quality Assurance Research Laboratory, page 229 (with written EPA approval for non-substantive changes) or an alternate procedure approved in accordance with the procedures specified in regulations published pursuant to Section 304(h) of the Act.

**Samples hall be taken concurrently.

SENT

JUL 22 2 40 PM '80

Part I.

A. Effluent Limitations and Monitoring Requirements (based on a maximum production rate of 225 tons/day of seafood processed and an approximate flow rate of 0.32 MGD (0.014 cubic meters per second)).

1. During the period beginning with the effective date of this permit and lasting through March 31, 1985, the permittee is authorized to discharge from Outfall Serial No. 001 (tuna processing wastewater).

a. Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations				Monitoring Requirements	
	kg/day (lbs/day)		kg/kkg of seafood (lbs/1000 lbs of seafood)			
	30-Day Average	Daily Maximum	30-Day Average	Daily Maximum	Measurement Frequency	Sample Type
Flow m^3/Day MGD	-	-	-	-	Continuous	Continuous
Temperature	-	-	-	90°F	Continuous	Continuous
BOD_5	-	-	-	-	Once Monthly	Composit
Total Suspended Solids	680 (1500)	1700 (3750)	3.3 (3.3)	-	Twice Weekly	Composit
*Oil and **Grease	170 (380)	430 (950)	0.84 (0.84)	-	Twice Weekly	Discrete
**Total Nitrogen (Kjeldahl+Nitrate +Nitrite)	-	-	measurement see attached	-	Once Monthly	Composit
**Total Phosphorus	-	-	-	-	Once Monthly	Composit

*The test procedure for the analysis of oil and grease shall comply with the method described in the manual of "Methods for Chemical Analysis of Water and Wastes," 1974, EPA, Methods Development and Quality Assurance Research Laboratory, page 229 (with written EPA approval for non-substantive changes) or an alternate procedure approved in accordance with the procedures specified in regulations published pursuant to Section 304(h) of the Act.

**Samples shall be taken concurrently.

Part I.

CORRECT

A. Effluent Limitations and Monitoring Requirements (based on a maximum production rate of 210 tons/day of seafood processed and an approximate flow rate of 1.2 MGD (0.53 cubic meters per second)).

1. During the period beginning with the effective date of this permit and lasting through March 31, 1985, the permittee is authorized to discharge from Outfall Serial No. 001 (tuna processing wastewater).

a. Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations				Monitoring Requirements	
	kg/day (lbs/day)		kg/kkg of seafood (lbs/1000 lbs of seafood)			
	30-Day Average	Daily Maximum	30-Day Average	Daily Maximum	Measurement Frequency	Sample Type
Flow m^3/Day MGD	-	-	-	-	Continuous	Continuous
Temperature	-	-	-	90°F	Continuous	Continuous
BOD_5	-	-	-	-	Once Monthly	Composite
Total Suspended Solids	630 (1386)	1540 (3500)	3.3 (3.3)	-	Twice Weekly	Composite
*Oil and **Grease	154 (350)	406 (882)	0.84 (0.84)	-	Twice Weekly	Discrete
**Total Nitrogen (Kjeldahl+Nitrate +Nitrite)	-	-	-	-	Once Monthly	Composite
**Total Phosphorus	-	-	-	-	Once Monthly	Composite

*The test procedure for the analysis of oil and grease shall comply with the method described in the manual of "Methods for Chemical Analysis of Water and Wastes," 1974, EPA, Methods Development and Quality Assurance Research Laboratory, page 229 (with written EPA approval for non-substantive changes) or an alternate procedure approved in accordance with the procedures specified in regulations published pursuant to Section 304(h) of the Act.

**Samples hall be taken concurrently.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
215 Fremont Street
San Francisco, Ca. 94105

MODIFICATION OF AN ISSUED NPDES PERMIT FOR
Star-Kist Samoa, Inc.
NPDES Permit No. AS0000019

In compliance with the provisions of the Federal Water Pollution Control Act, as amended (33 U.S.C. 1251 et. seq; the "Act"), 40 CFR 122 and 40 CFR 124.53, the Regional Administrator hereby makes the following modification:

Page 2, Part I.A.1(a) is replaced in its entirety with the new Page 2, Part I.A.1(a) attached.

The permit modification shall become effective on August 16, 1980 and shall expire March 31, 1985.

Signed this 21st day of July, 1980.

For the Regional Administrator

Carl C. Kohnert

(for) Director, Enforcement Division

b. The pH shall not be less than 6.0 standard units or greater than 8.5 standard units and shall be monitored continuously.

c. There shall be no discharge of floating solids or visible foam in other than trace amounts.

d. Samples taken in compliance with the monitoring requirements specified above shall be taken at the discharge of Outfall Serial No. 001. Effluent samples shall be taken downstream from the treatment works prior to mixing with the receiving waters.

e. There shall be no discharge of toxic substances that violate the water quality standards for the Territory of American Samoa.

f. The discharge shall not cause objectionable odors at the surface of the receiving waters.

B. Schedule of Compliance

1. The permittee shall comply with effluent limitations established in Part I.A.1. by the effective date of this permit.

2. This permit may be modified, or, alternatively, revoked and reissued, in order to incorporate a schedule of compliance leading to achievement of best conventional pollutant control technology limitations as established by the EPA pursuant to Section 301(b)(2)(E) of the Clean Water Act.

C. Monitoring and Reporting

1. Representative Sampling

Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored discharge.

2. Reporting

Monitoring results obtained during the previous 3 months shall be summarized for each month and submitted on forms to be supplied by the Regional

Administrator, to the extent that the information reported may be entered on the forms. The results of all monitoring required by this permit shall be submitted in such a format as to allow direct comparison of the limitations and requirements of this permit. Unless otherwise specified, discharge flows shall be reported in terms of the average flow over each 30-day period and the maximum daily flow over that 30-day period. Monitoring reports shall be postmarked no later than the 28th day of the month following the completed reporting period. The first report is due on March 28, 1980. Duplicate signed copies of these, and all other reports required herein, shall be submitted to the Regional Administrator and the Government of American Samoa at the following addresses:

Regional Administrator
Environmental Protection Agency
Region IX, ATTN: E-5
215 Fremont Street
San Francisco CA 94105

Executive Secretary
Environmental Quality Commission
Government of American Samoa
Tutuila, Pago Pago
American Samoa 96920

3. Definitions

a. The "daily average" discharge means the total discharge by weight during a calendar month divided by the number of days in the month that the production or commercial facility was operating. Where less than daily sampling is required by this permit, the daily average discharge shall be determined by the summation of all the measured daily discharged by weight divided by the number of days during the calendar month when the measurements were made.

b. The "daily maximum" discharge means the total discharge by weight during any calendar day.

c. Discrete Sample

An individual sample collected in less than 15 minutes.

d. Composite Sample

A combination of no fewer than eight individual samples obtained at equal time intervals over the specified sampling period. The volume of each individual sample shall be proportional to the discharge flow rate at the time of sampling. The sampling period shall be the period between 8:00 AM and 4:00 PM for each day of sampling.

e. Seafood

The term "seafood" shall mean the raw material, including freshwater and saltwater fish and shellfish, to be processed, in the form in which it is received at the processing plant.

4. Test Procedures

Test procedures for the analysis of pollutants shall conform to regulations published pursuant to Section 304(h) of the Act, under which such procedures may be required.

5. Recording of Results

For each measurement or sample taken pursuant to the requirements of this permit, the permittee shall record the following information:

a. The exact place, date, and time of sampling;

b. The dates the analyses were performed;

c. The person(s) who performed the analyses;

d. The analytical techniques or methods used; and

e. The results of all required analyses.

6. Additional Monitoring by Permittee

If the permittee monitors any pollutant at the location(s) designated herein more frequently than required by this permit, using approved analytical methods as specified above, the results of such monitoring

shall be included in the calculation and reporting of the values required in the Discharge Monitoring Report Form (EPA No. 3320-1). Such increased frequency shall also be indicated.

7. Records Retention

All records and information resulting from the monitoring activities required by this permit including all records of analyses performed and calibration and maintenance of instrumentation and recordings from continuous monitoring instrumentation shall be retained for a minimum of three (3) years, or longer if requested by the Regional Administrator or the State water pollution control agency.

8. Monitoring Modification

Monitoring, analytical, and reporting requirements may be modified by the Regional Administrator upon due notice.

9. Monitoring and Reporting.

a. If fewer than four (4) samples are collected and analyzed during any calendar month, the thirty day average pollutant discharge rate shall not be determined.

b. If the permittee is unable, for any reason, to comply with any of the effluent limits of this permit, the permittee shall promptly initiate a monitoring program to analyze the discharge at least once every day for those constituents for which the effluent limits have been violated. Such daily analyses shall continue until such time as the Regional Administrator determines to be appropriate. The results of such monitoring programs shall be included in the Discharge Monitoring Reports required in Part I.C.2.

c. The permittee shall supply a tabulation of daily numbers of tons seafood processed in accordance with the reporting schedule outlined in Part I.C.2.

Part II

A. MANAGEMENT REQUIREMENTS

1. Change in Discharge

All discharges authorized herein shall be consistent with the terms and conditions of this permit. The discharge of any pollutant identified in this permit more frequently than or at a level in excess of that authorized shall constitute a violation of the permit. Any anticipated facility expansions, production increases or process modifications which will result in new, different, or increased discharges of pollutants must be reported by submission of a new NPDES application or, if such changes will not violate the effluent limitations specified in this permit, by notice to the permit issuing authority of such changes. Following such notice, the permit may be modified to specify and limit any pollutants not previously limited.

2. Noncompliance Notification

If, for any reason, the permittee does not comply with or will be unable to comply with any daily maximum effluent limitation specified in this permit, the permittee shall provide the Regional Administrator and the State with the following information, in writing, within five (5) days of becoming aware of such condition:

a. A description of the discharge and cause of noncompliance; and

b. The period of noncompliance, including exact dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate and prevent recurrence of the noncomplying discharge.

3. Facilities Operation

The permittee shall at all times maintain in good working order and operate as efficiently as possible all treatment or control facilities or systems installed or used by the permittee to achieve compliance with the terms and conditions of this permit.

4. Adverse Impact

The permittee shall take all reasonable steps to minimize any adverse impact to receiving waters resulting from noncompliance with any effluent limitations specified in this permit, including such accelerated or additional monitoring as necessary to determine the nature and impact of the noncomplying discharge.

5. Bypassing

Any diversion from or bypass of facilities necessary to maintain compliance with the terms and conditions of this permit is prohibited, except (i) where unavoidable to prevent loss of life or severe property damage, or (ii) where excessive storm drainage or runoff would damage any facilities necessary for compliance with the effluent limitations and prohibitions of this permit. The permittee shall promptly notify the Regional Administrator and the State in writing of each such diversion or bypass in accordance with the procedure specified in Part II.A.2 above.

6. Removed Substances

Solids, sludges, filter backwash, or other pollutants removed in the course of treatment or control of wastewaters shall be disposed of in a manner such as to prevent any pollutant from such materials from entering navigable waters. This provision does not apply to the dissolved air flotation cell sludge authorized for transportation and dumping into ocean waters in accordance with a permit issued pursuant to the Marine Protection, Research and Sanctuaries Act of 1972 33 U.S.C. 1401-1444. Upon issuance, any such permit is incorporated into this permit by reference.

7. Safeguards Against Electrical Power Failures

In order to maintain compliance with the effluent limitations and prohibitions of this permit, the permittee shall either:

a. Maintain in good working order an alternative power source sufficient to operate the wastewater control facilities;

or, if such alternative power source is not in existence,

b. Halt, reduce, or otherwise control all discharges upon the reduction, loss, or failure of the primary source of power to the wastewater facilities.

B. RESPONSIBILITIES

1. Right of Entry

The permittee shall allow the head of the State water pollution control agency, the Regional Administrator, and/or their authorized representatives, upon the presentation of credentials:

a. To enter upon the permittee's premises where an effluent source is located or in which any records are required to be kept under the terms and conditions of this permit; and

b. At reasonable times to have access to and copy any records required to be kept under the terms and conditions of this permit; to inspect any monitoring equipment or monitoring method required in this permit; and to sample any discharge of pollutants.

2. Transfer of Ownership or Control

In the event of any change in control or ownership of facilities from which the authorized discharges emanate, the permittee shall notify the succeeding owner or controller of the existence of this permit by letter, a copy of which shall be forwarded to the Regional Administrator and the State water pollution control agency.

3. Availability of Reports

Except for data determined to be confidential under Section 308 of the Act, all reports prepared in accordance with the terms of this permit shall be available for public inspection

at the offices of the State water pollution control agency and the Regional Administrator. As required by the Act, effluent data shall not be considered confidential. Knowingly making any false statement on any such report may result in the imposition of criminal penalties as provided for in Section 309 of the Act.

4. Permit Modification

After notice and opportunity for a hearing, this permit may be modified, suspended, or revoked in whole or in part during its term for cause including, but not limited to, the following:

a. Violation of any terms or conditions of this permit;

b. Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts; or

c. A change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge.

5. Toxic Pollutants

Notwithstanding Part II.B.4 above, if a toxic effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is established under Section 307(a) of the Act for a toxic pollutant which is present in the discharge and such standard or prohibition is more stringent than any limitation for such pollutant in this permit, this permit shall be revised or modified in accordance with the toxic effluent standard or prohibition and the permittee so notified.

6. Civil and Criminal Liability

Except as provided in permit conditions on "Bypassing" (Part II.A.5) and "Power Failures" (Part II.A.7), nothing in this permit shall be construed to relieve the permittee from civil or criminal penalties for noncompliance.

7. Oil and Hazardous Substance Liability

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under Section 311 of the Act.

8. State Laws

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsiblities, liabilities, or penalties established pursuant to any applicable State law or regulation under authority preserved by Section 510 of the Act.

9. Property Rights

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

10. Severability

The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

Part III

A. OTHER REQUIREMENTS

1. Reapplication

If the permittee desires to continue to discharge, he shall reapply not later than 180 days before this permit expires, on the application forms then in use.

2. Water Quality Standard Revision

Should the Water Quality Standards for American Samoa be revised in the future, this new information will constitute grounds for review and possible modification of this permit.

Rec'd. EPA 12/3/98 MF

StarKist Samoa, Inc.

November 23, 1998

Mr . Norman Lovelace
OPINAP (E - 4)
U . S . EPA Region 9
75 Hawthorne Street
San Francisco , CA 94105

Mr . Togipa Tausaga
ASEPA
Office of the Governor
American Samoa Government
Pago Pago , American Samoa 96799

Gentlemen :

Re : **Discharge Monitoring Report for the Months of August, September and October of 1998 under NPDES No . 0000019 as issued to Star Kist Samoa ,INC .**

Attached is Star Kist Samoa's Discharge Monitoring Reports covering the months of August, September and October of 1998 .

Star Kist Samoa met all Effluent limits except the Temperature.

Temperature exceeded 95°F on August 8, 1998 and September 5, 1998. These were none Production Days. The Temperature were corrected immediately upon detection. Disciplinary action was given to operator's.

Sincerely

Virgil Shouse
Manager , Cannery Manufacturing

VS \ ls : \ npdes \samoa

Attachments :
cc : Ms. Sheila Wiegman
Ms. Pat Young
Mr. Norman Wei
Mr. Phil Thirkell

Wastewater Summary Report for the month of August 1998

Date	Production Tons	Flow mgd	Alum #/day	Poly #/day	Max Temp F	pH Limits Lo	pH Limits Hi	Oil &Grease Eff mg/l	Oil &Grease Total #/day	TSS Eff mg/l	TSS Total #/day	TP Eff mg/l	TP Total #/day	TN Eff mg/l	TN Total #/day	Total Ammonia Eff mg/l	BOD Eff mg/l
1		0.3395	83.2	4.0	81	7.0	7.2										
2		0.5093	271.6	8.0	82	6.9	7.3										
3	564.215	0.7716	254.0	10.2	77	6.7	8.0										
4	556.588	1.0507	306.6	13.6	81	6.9	7.4										
5	569.085	0.9498	424.9	15.1	81	6.8	7.5	16.0	126.4	104.0	821.4	13.4	105.8	100.0	789.9	53.5	
6	574.724	0.9679	429.9	14.1	80	6.6	7.2	20.7	166.6	194.7	1567.2	12.3	99.0	80.0	643.9		232.8
7	538.297	0.7757	306.6	11.7	82	6.7	7.3										
8		0.3094	118.3	4.5	98	6.8	8.0										
9		0.5079	192.7	6.2	86	6.9	7.3										
10	543.524	0.7938	122.6	11.7	84	6.8	7.8										
11	546.962	0.9063	328.5	14.4	80	6.8	8.1	16.7	125.9	71.3	537.4	13.1	98.7	80.0	602.9	29.4	315.4
12	553.652	0.8441	394.2	15.3	81	6.8	7.6	12.5	87.7	113.3	795.3	12.4	87.0	100.0	702.0		
13	563.069	0.8959	258.4	11.0	82	6.6	7.4										
14	531.304	0.7331	302.2	8.3	86	6.7	7.4										
15		0.2793	100.7	3.3	93	6.9	7.6										
16		0.4621	157.7	4.9	80	7.0	7.4										
17	557.091	0.9944	319.7	12.2	79	6.7	7.6										
18	536.514	0.9035	271.6	12.5	80	6.7	7.2										
19	555.534	1.0540	328.5	14.4	79	6.6	7.2	8.3	72.8	74.7	654.8	10.8	94.7	90.0	788.9	37.0	
20	558.012	0.8916	376.7	13.1	79	6.7	7.4	18.3	135.7	70.7	524.2	16.1	119.4	102.5	760.0		
21	533.585	0.9174	311.0	12.9	89	6.8	7.4										
22		0.4134	122.6	4.9	92	6.9	7.4										
23		0.6682	236.5	8.2	87	6.9	7.2										
24	558.852	0.9327	319.7	13.8	84	6.6	8.0										
25	549.226	0.9324	293.5	14.7	80	6.7	7.6										
26	557.324	0.8485	433.6	11.9	77	6.8	7.3	14.8	104.4	110.7	781.1	15.4	108.7	122.5	864.4	40.6	
27	556.993	0.9237	407.3	13.9	80	6.9	7.3	20.3	155.9	128.7	988.6	16.0	122.9	102.5	787.4		
28	555.545	0.8405	359.2	14.7	85	6.8	7.5										
29		0.2869	109.5	3.6	90	6.8	7.2										
30		0.5773	184.0	7.4	82	7.0	7.3										
31	563.120	0.9715	236.5	11.4	85	6.6	7.6										
TOT	11623.216	23.2524	8362.0	325.9					975.4		6670.0		836.2		5939.4		
AVG	553.486	0.7501	269.7	10.5	83			16.0	121.9	108.5	833.8	13.7	104.5	97.2	742.4	40.1	274.1

PERMITTEE NAME / ADDRESS (Include Facility Name/Location if different)

NAME STAR KIST SAMOA, Inc

ADDRESS P. O. BOX 368

PAGO PAGO AMERICAN SAMOA 96799

FACILITY LOCATION

NATIONAL POLLUTANT DISCHARGE SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004
Expires 3-31-88

(2-16)	(17-19)
AS0000019	001
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

YEAR (20-21)	MO (22-23)	DAY		YEAR (26-27)	MO (28-29)	DAY (30-31)
1998	8	1	TO	1998	8	31

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
FLOW	SAMPLE MEASUREMENT		1.0540						0	Continuous	
	PERMIT REQUIREMENT		2.9	mgd						Continuous	
BOD5	SAMPLE MEASUREMENT				232.8	274.1	315.4		0	2 / Mon	Composite
	PERMIT REQUIREMENT				N/A	N/A	N/A	mg/l		"	"
TSS	SAMPLE MEASUREMENT	833.8	1567.2		70.7	108.5	194.7		0	2 / Week	Composite
	PERMIT REQUIREMENT	2653	5673	lbs/day	N/A	N/A	N/A	mg/l		"	"
OIL & GREASE	SAMPLE MEASUREMENT	121.9	166.6		8.3	16.0	20.3		0	2 / Week	Grab (4)
	PERMIT REQUIREMENT	675	1688	lbs/ day	N/A	N/A	N/A	mg/l		2 / Week	Grab (2)
TP	SAMPLE MEASUREMENT	104.5	122.9		10.8	13.7	16.0		0	2 / Week	Composite
	PERMIT REQUIREMENT	192	389	lbs/day	N/A	N/A	N/A	mg/l		3	Composite
TN	SAMPLE MEASUREMENT	742.4	864.4		80.0	97.2	122.5		0	2 / Week	Composite
	PERMIT REQUIREMENT	1200	2100	lbs/day	N/A	N/A	N/A	mg/l		3	Composite
TOTAL AMMONIA	SAMPLE MEASUREMENT				29.4	40.1	53.5		0	1 / Week	Composite
	PERMIT REQUIREMENT				N/A	N/A	133	mg/l		"	"

NAME / TITLE PRINCIPAL EXECUTIVE OFFICER

VIRGIL SHOUSE
Manager, Cannery Manufacturing
TYPE OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AN FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION. I BELIEVE THE SUBMITTED INFORMATION IS TRUE. ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIG. NIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 U.S.C. 1001 AND 33 U.S.C. 1319 (Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 month and 5 years)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE AREA CODE	NUMBER	DATE YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS(Reference all attachments here)

PERMITTEE NAME / ADDRESS (Include Facility Name/Location if different)

NAME: STAR KIST SAMOA, Inc

ADDRESS: P. O. BOX 368

PAGO PAGO AMERICAN SAMOA 96799

FACILITY LOCATION

NATIONAL POLLUTANT DISCHARGE SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004
Expires 3-31-88

(2-16)	(17-19)
AS0000019	001
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

YEAR	MO	DAY		YEAR	MO	DAY
1998	8	1	TO	1998	8	31
(20-21)	(22-23)			(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
TEMPERATURE	SAMPLE MEASUREMENT					83	98		1	Continuous	
	PERMIT REQUIREMENT					90	95			"	
pH	SAMPLE MEASUREMENT				6.6		8.1		0	Continuous	
	PERMIT REQUIREMENT				6.5		8.6			"	
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

VIRGIL SHOUSE
Manager, Cannery Manufacturing
TYPE OR PRINTED

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SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE AREA CODE	NUMBER	DATE YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS(Reference all attachments here)

Wastewater Summary Report for the month of September 1998

Date	Production Tons	Flow mgd	Alum #/day	Poly #/day	Max Temp F	pH Limits Lo	pH Limits Hi	Oil &Grease Eff mg/l	Oil &Grease Total #/day	TSS Eff mg/l	TSS Total #/day	TP Eff mg/l	TP Total #/day	TN Eff mg/l	TN Total #/day	Total Ammonia Eff mg/l	BOD Eff mg/l
1	565.038	0.9232	365.5	8.8	84	6.6	7.6	9.3	71.4	130.7	1003.4	13.9	106.7	95.0	729.3	18.5	
2	537.123	0.9249	374.1	8.9	88	6.7	7.2	9.7	74.6	68.0	523.0	11.6	89.2	92.5	711.5		426.2
3	544.267	1.0896	408.5	9.9	85	6.1	7.4										
4	541.478	0.9341	387.0	7.0	89	6.8	7.2										
5		0.2418	77.4	2.0	100	6.7	7.2										
6		0.1081	86.0	0.6	84	7.0	7.0										
7		0.7334	279.5	6.1	90	6.5	7.9										
8	613.278	0.8701	236.5	7.0	82	6.7	8.2										
9	550.885	1.0425	438.6	10.1	86	6.2	7.8	99.9	866.1	218.7	1896.0	10.2	88.4	50.0	433.5	12.9	
10	551.397	0.9048	408.5	9.0	82	6.7	7.4	34.9	262.6	119.3	897.7	14.5	109.1	95.0	714.8		690.5
11	572.892	0.9162	404.2	8.8	85	6.8	7.5										
12		0.2589	98.9	1.3	90	6.7	7.4										
13		0.7043	223.6	5.6	80	6.8	7.3										
14	590.574	0.8659	258.0	8.1	76	6.8	7.5										
15	600.054	0.9761	412.8	9.8	76	6.8	7.4										
16	562.887	0.8924	356.9	8.7	79	6.8	7.3	8.6	63.8	75.3	558.8	16.3	121.0	115.0	853.4	19.0	
17	594.238	1.0386	434.3	10.7	80	6.8	7.4	11.1	95.9	75.3	650.4	16.7	144.2	105.0	906.9		
18	525.098	0.9129	395.6	7.4	84	6.9	8.0										
19		0.2865	111.8	2.1	89	7.0	7.2										
20		0.7576	339.7	7.0	82	6.7	7.5										
21	599.148	0.7931	245.1	6.9	84	5.4	7.7										
22	582.356	1.0312	352.6	10.5	81	7.0	7.4	9.7	83.2	66.7	572.0	14.9	127.8	100.0	857.5	18.6	
23	613.117	1.0105	408.5	10.5	82	6.6	7.4	16.5	138.7	89.3	750.4	17.3	145.4	117.5	987.4		
24	605.081	1.0514	434.3	9.9	84	6.9	7.4										
25	560.049	0.7478	313.9	7.8	80	6.8	7.4										
26		0.4268	129.0	3.4	80	6.9	7.7										
27		0.7424	270.9	5.7	84	6.9	7.2										
28	584.773	0.8584	365.5	8.0	81	6.7	7.3										
29	594.027	0.9816	391.5	8.8	82	6.8	7.1	18.6	151.8	143.3	1169.8	13.6	111.0	100.0	816.3	29.3	
30	558.126	1.0139	421.4	9.1	83	6.8	7.4	57.6	485.7	153.3	1292.6	12.0	101.2	90.0	758.8		
TOT	12045.886	24.0390	9429.9	219.5					2293.8		9314.1		1144.0		7769.4		
AVG	573.614	0.8013	314.3	7.3	84			27.6	229.4	114.0	931.4	14.1	114.4	96.0	776.9	19.7	558.4

PERMITTEE NAME / ADDRESS (Include Facility Name/Location if different)

NAME STAR KIST SAMOA, Inc

ADDRESS P. O. BOX 368

PAGO PAGO AMERICAN SAMOA 96799

FACILITY

LOCATION

NATIONAL POLLUTANT DISCHARGE SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004
Expires 3-31-88

(2-16)	(17-19)
AS0000019	001
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

YEAR	MO	DAY		YEAR	MO	DAY
1998	9	1	TO	1998	9	30
(20-21)	(22-23)			(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
FLOW	SAMPLE MEASUREMENT		1.0896						0	Continuous	
	PERMIT REQUIREMENT		2.9	mgd						Continuous	
BOD5	SAMPLE MEASUREMENT				426.2	558.4	690.5		0	2 / Mon	Composite
	PERMIT REQUIREMENT				N/A	N/A	N/A	mg/l		"	"
TSS	SAMPLE MEASUREMENT	931.4	1896.0		66.7	114.0	218.7		0	2 / Week	Composite
	PERMIT REQUIREMENT	2653	6673	lbs/day	N/A	N/A	N/A	mg/l		"	"
OIL & GREASE	SAMPLE MEASUREMENT	229.4	866.1		8.6	27.6	99.9		0	2 / Week	Grab (4)
	PERMIT REQUIREMENT	675	1685	lbs/ day	N/A	N/A	N/A	mg/l		2 / Week	Grab (2)
TP	SAMPLE MEASUREMENT	114.4	145.4		10.2	14.1	17.3		0	2 / Week	Composite
	PERMIT REQUIREMENT	192	309	lbs/day	N/A	N/A	N/A	mg/l		3	Composite
TN	SAMPLE MEASUREMENT	776.9	987.4		50.0	96.0	117.5		0	2 / Week	Composite
	PERMIT REQUIREMENT	1200	2100	lbs/day	N/A	N/A	N/A	mg/l		3	Composite
TOTAL AMMONIA	SAMPLE MEASUREMENT				12.9	19.7	29.3		0	1 / Week	Composite
	PERMIT REQUIREMENT				N/A	N/A	133	mg/l		"	"

NAME / TITLE PRINCIPAL EXECUTIVE OFFICER

VIRGIL SHOUSE
Manager, Cannery Manufacturing

TYPE OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AN FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION. I BELIEVE THE SUBMITTED INFORMATION IS TRUE. ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIG. NIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 U.S.C. 1001 AND 33 U.S.C. 1319 (Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 month and 5 years)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE AREA CODE	NUMBER	DATE YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS(Reference all attachments here)

PERMITTEE NAME / ADDRESS (Include NATIONAL POLLUTANT DISCHARGE SYSTEM (NPDES Form Approved

Facility Name/Location if different)

NAME STAR KIST SAMOA, Inc

ADDRESS P. O. BOX 368

PAGO PAGO AMERICAN SAMOA 96799

FACILITY
LOCATION

DISCHARGE MONITORING REPORT (DMR)

OMB No. 2040-0004
Expires 3-31-88

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PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

YEAR	MO	DAY		YEAR	MO	DAY
1998	9	1	TO	1998	9	30
(20-21)	(22-23)			(26-27)	(28-29)	(30-31)

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PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING AVERAGE (46-53)	MAXIMUM (54-61)	UNITS	(4 Card Only) QUALITY OR CONCENTRATION MINIMUM (38-45)	AVERAGE (46-53)	MAXIMUM (54-61)	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
TEMPERATURE	SAMPLE MEASUREMENT					84	100		1	Continuous	
	PERMIT REQUIREMENT					90	95			"	
pH	SAMPLE MEASUREMENT				5.4		8.2		0	Continuous	
	PERMIT REQUIREMENT				6.5		8.6			"	
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

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Manager, Cannery Manufacturing
TYPE OR PRINTED

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SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE AREA CODE	NUMBER	DATE YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS(Reference all attachments here)

We had three (3) pH readings which were below 6.5 through out the month. We did not exceed the one hour individual excurtion limit or the seven hours and twenty six minutes for the calendar month. This is not considered a violation.

Wastewater Summary Report for the month of October 1998

Date	Production Tons	Flow mgd	Alum #/day	Poly #/day	Max Temp F	pH Limits Lo	pH Limits Hi	Oil &Grease Eff mg/l	Oil &Grease Total #/day	TSS Eff mg/l	TSS Total #/day	TP Eff mg/l	TP Total #/day	TN Eff mg/l	TN Total #/day	Total Ammonia Eff mg/l	BOD Eff mg/l
1	596.033	0.8966	266.6	7.6	84	6.8	7.4										
2	572.633	0.8516	258.0	7.9	84	6.8	7.5										
3		0.2751	73.1	1.6	92	6.7	7.0										
4		0.4674	202.1	3.5	89	6.8	7.1										
5	588.656	0.9208	270.9	7.9	85	6.8	7.2										
6	587.263	1.0196	408.5	8.5	84	6.6	7.2										
7	600.084	0.9835	356.9	7.1	84	6.6	7.1										
8	577.934	1.0891	430.0	10.2	84	6.6	7.4	13.2	119.6	84.0	760.8	15.4	139.5	115.0	1041.5	46.0	
9	528.114	0.8617	382.7	7.7	86	6.9	7.4	10.0	71.7	68.7	492.3	13.9	99.6	97.5	698.7		444.3
10		0.3529	159.1	2.9	92	6.7	7.1										
11		0.1339	34.4	0.5	88	6.9	6.9										
12	SHUT DOWN	0.1411	21.5	0.3	83	7.0	7.5										
13	SHUT DOWN	0.1397	38.7	1.2	84	7.0	7.2										
14	SHUT DOWN	0.1345	38.7	0.7	84	7.0	8.0										
15	SHUT DOWN	0.0992	12.9	1.0	83	7.4	7.4										
16	SHUT DOWN	0.1341	30.1	0.5	83	7.4	7.8										
17	SHUT DOWN	0.1684	60.2	1.3	84	7.4	7.8										
18		0.7748	223.6	5.8	84	6.8	8.0										
19	552.494	0.9969	378.4	8.8	84	6.6	8.2										
20	558.568	0.9351	296.7	6.6	87	6.8	7.3										
21	524.688	0.9968	365.5	8.9	82	6.6	7.9										
22	522.775	1.0258	374.1	10.1	84	6.4	7.3	10.2	87.0	74.0	631.3	14.9	127.1	82.5	703.8	52.1	
23	488.568	1.0315	365.5	8.9	88	6.6	7.2	13.9	119.2	87.3	748.9	10.5	90.1	80.0	686.2		
24		0.3952	133.3	3.7	87	6.6	6.9										
25		0.7553	197.8	5.5	85	6.8	7.8										
26	539.942	1.0676	361.2	8.0	83	6.8	7.5										
27	484.206	0.9844	352.6	9.3	82	6.7	7.2										
28	560.822	1.0238	421.4	8.7	83	6.6	7.6	20.1	171.1	96.7	823.3	15.4	131.1	77.5	659.8	53.0	
29	576.604	1.0157	460.1	9.1	84	6.6	7.6	25.2	212.9	128.0	1081.2	12.8	108.1	90.0	760.2		261.3
30	524.796	0.7488	219.3	5.9	84	6.6	7.4										
31		0.2635	55.9	2.6	92	6.6	6.8										
TOT	9384.180	20.6844	7249.8	172.4					781.5		4537.8		695.5		4550.2		
AVG	552.011	0.6672	233.9	5.6	85			15.4	130.3	89.8	756.3	13.8	115.9	90.4	758.4	50.4	352.8

PERMITTEE NAME / ADDRESS (Include Facility Name/Location if different)

NAME STAR KIST SAMOA, Inc

ADDRESS P. O. BOX 368

PAGO PAGO AMERICAN SAMOA 96799

FACILITY LOCATION

NATIONAL POLLUTANT DISCHARGE SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004
Expires 3-31-88

(2-16)	(17-19)
AS0000019	001
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

YEAR	MO	DAY		YEAR	MO	DAY
1998	10	1	TO	1998	10	31
(20-21)	(22-23)			(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
FLOW	SAMPLE MEASUREMENT		1.0676						0	Continuous	
	PERMIT REQUIREMENT		2.9	mgd						Continuous	
BOD5	SAMPLE MEASUREMENT				261.3	352.8	444.3		0	2 / Mon	Composite
	PERMIT REQUIREMENT				N/A	N/A	N/A	mg/l		"	"
TSS	SAMPLE MEASUREMENT	756.3	1081.2		68.7	89.8	128.0		0	2 / Week	Composite
	PERMIT REQUIREMENT	2653	6673	lbs/day	N/A	N/A	N/A	mg/l		"	"
OIL & GREASE	SAMPLE MEASUREMENT	130.3	212.9		10.0	15.4	25.2		0	2 / Week	Grab (4)
	PERMIT REQUIREMENT	675	1688	lbs/ day	N/A	N/A	N/A	mg/l		2 / Week	Grab (2)
TP	SAMPLE MEASUREMENT	115.9	139.5		10.5	13.8	15.4		0	2 / Week	Composite
	PERMIT REQUIREMENT	192	309	lbs/day	N/A	N/A	N/A	mg/l		3	Composite
TN	SAMPLE MEASUREMENT	758.4	1041.5		77.5	90.4	115.0		0	2 / Week	Composite
	PERMIT REQUIREMENT	1200	2100	lbs/day	N/A	N/A	N/A	mg/l		3	Composite
TOTAL AMMONIA	SAMPLE MEASUREMENT				46.0	50.4	53.0		0	1 / Week	Composite
	PERMIT REQUIREMENT				N/A	N/A	133	mg/l		"	"

NAME / TITLE PRINCIPAL EXECUTIVE OFFICER

VIRGIL SHOUSE
Manager, Cannery Manufacturing
TYPE OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AN FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION. I BELIEVE THE SUBMITTED INFORMATION IS TRUE. ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIG. NIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 U.S.C. 1001 AND 33 U.S.C. 1319 (Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 month and 5 years)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE AREA CODE	NUMBER	DATE YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS(Reference all attachments here)

PERMITTEE NAME / ADDRESS (Include Facility Name/Location if different)

NAME STAR KIST SAMOA, Inc

ADDRESS P. O. BOX 368

PAGO PAGO AMERICAN SAMOA 96799

FACILITY LOCATION

NATIONAL POLLUTANT DISCHARGE SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
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1998	10	1	TO	1998	10	31
(20-21)	(22-23)			(26-27)	(28-29)	(30-31)

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PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
TEMPERATURE	SAMPLE MEASUREMENT					85	92		0	Continuous	
	PERMIT REQUIREMENT					90	95			"	
pH	SAMPLE MEASUREMENT				6.4		8.2		0	Continuous	
	PERMIT REQUIREMENT				6.5		8.5			"	
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

VIRGIL SHOUSE
Manager, Cannery Manufacturing
TYPE OR PRINTED

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SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE AREA CODE	NUMBER	DATE YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

We had one (1) pH reading which was below 6.5 through out the month. We did not exceed the one hour individual excurtion limit or the seven hours and twenty six minutes for the calendar month. This is not considered a violation.

PERMITTEE NAME / ADDRESS (Include Facility Name/Location if different)

NAME: STAR KIST SAMOA Inc

ADDRESS: P. O. BOX 368

PAGO PAGO AMERICAN SAMOA 96799

FACILITY LOCATION

NATIONAL POLLUTANT DISCHARGE SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004
Expires 3-31-88

(2-16) PERMIT NUMBER: AS0000019

(17-19) DISCHARGE NUMBER: 001

MONITOR PERIOD

YEAR (20-21)	MO (22-23)	DAY		YEAR (26-27)	MO (28-29)	DAY (30-31)
1998	8	11	TO			

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING AVERAGE (46-53)	MAXIMUM (54-61)	UNITS	(4 Card Only) QUALITY OR LOADING MINIMUM (38-45)	AVERAGE (46-53)	MAXIMUM (54-61)	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
TOTAL LEAD	SAMPLE MEASUREMENT	0.002								1 / 6 Mon	Composite
	PERMIT REQUIREMENT			mg/l						"	"
TOTAL CADMIUM	SAMPLE MEASUREMENT	0.008								1 / 6 Mon	Composite
	PERMIT REQUIREMENT			mg/l						"	"
TOTAL CHROMIUM	SAMPLE MEASUREMENT	0.067								1 / 6 Mon	Composite
	PERMIT REQUIREMENT			mg/l						"	"
TOTAL MERCURY	SAMPLE MEASUREMENT	<0.0004								1 / 6 Mon	Composite
	PERMIT REQUIREMENT			mg/l						"	"
TOTAL ZINC	SAMPLE MEASUREMENT	0.567								1 / 6 Mon	Composite
	PERMIT REQUIREMENT			mg/l						"	"
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME / TITLE PRINCIPAL EXECUTIVE OFFICER

TYPE OR PRINTED

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TELEPHONE AREA CODE	NUMBER	DATE YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS(Reference all attachments here)

StarKist Samoa, Inc.

CARL of MIKE

August 25, 1998

Mr . Norman Lovelace
OPINAP (E - 4)
U . S . EPA Region 9
75 Hawthorne Street
San Francisco , CA 94105

Mr . Togipa Tausaga
ASEPA
Office of the Governor
American Samoa Government
Pago Pago , American Samoa 96799

Gentlemen :

Re : **Discharge Monitoring Report for the Months of May, June and July 1998 under NPDES No . 0000019 as issued to Star Kist Samoa ,INC .**

Attached is Star Kist Samoa's Discharge Monitoring Reports covering the months of May , June and July 1998 .

Star Kist Samoa met all Effluent limits except the Temperature.

Temperature exceeded 95°F on June 6, 1998 and June 13, 1998. These were none Production Days. The Temperature were corrected immediately upon detection. Advanced training and disciplinary action was given to operator's.

Sincerely,

Virgil Shouse
Manager , Cannery Manufacturing

VS \ ls : \ npdes \samoa
Attachments :
cc : Ms. Sheila Wiegman
Mr. Carl Goldstein
Mr. Norman Wei
Mr. Phil Thirkell

Wastewater Summary Report for the month of May 1998

Date	Production Tons	Flow mgd	Alum #/day	Poly #/day	Max Temp F	pH Limits Lo	pH Limits Hi	Oil &Grease Eff mg/l	Oil &Grease Total #/day	TSS Eff mg/l	TSS Total #/day	TP Eff mg/l	TP Total #/day	TN Eff mg/l	TN Total #/day	Total Ammonia Eff mg/l	BOD Eff mg/l
1	529.294	0.8341	562.4	19.8	84	6.7	7.2										
2		0.2991	130.8	3.8	89	7.0	7.3										
3		0.6261	431.6	11.7	83	6.9	7.4										
4	534.764	0.9140	398.9	17.6	79	6.7	7.4										
5	544.125	1.0582	699.8	26.7	80	6.9	7.4	8.9	78.3	120.7	1062.2	12.6	110.9	77.5	682.0	42.9	
6	552.799	1.0539	680.2	21.4	82	6.8	7.4	10.5	92.0	197.3	1729.2	10.6	92.9	65.0	569.7		
7	523.721	1.1663	412.0	24.9	84	6.7	7.6										
8	509.713	0.8196	379.2	18.6	84	6.7	7.6										
9		0.3194	189.7	6.9	88	6.9	7.3										
10		0.6680	412.0	12.9	94	7.0	7.4										
11	537.175	0.9452	379.3	16.2	85	6.6	7.6										
12	528.094	1.0276	640.9	23.6	84	6.3	7.4										
13	521.122	1.0969	758.6	23.8	84	6.7	7.4										
14	494.757	1.0938	758.6	24.4	84	6.6	8.0	19.3	175.6	101.3	921.4	9.9	90.1	70.0	636.7	43.1	
15	487.831	0.7748	555.9	18.2	83	6.6	7.4	12.2	78.6	104.0	670.1	15.0	96.6	75.0	483.2		
16		0.3389	222.4	8.5	88	6.8	7.1										
17		0.5916	340.1	12.9	82	6.8	7.4										
18	529.513	0.9047	398.9	16.2	82	6.6	7.6										
19	530.347	1.1199	699.8	28.9	82	6.7	7.4										
20	526.999	1.1091	784.8	25.3	82	6.5	7.4	44.5	410.4	30.7	283.2	8.8	81.2	57.5	530.3	18.9	387.1
21	463.774	1.0702	588.6	22.0	88	6.8	7.4	56.6	503.7	64.0	569.6	12.0	106.8	77.5	689.7		
22	501.822	0.6644	333.5	12.5	89	6.6	7.3										
23		0.3165	228.9	8.3	91	6.7	6.9										
24		0.1211	111.2	2.3	84	6.9	6.9										
25		0.5790	366.2	13.9	76	6.8	7.3										
26	525.552	0.7402	418.6	20.2	77	6.7	7.2										
27	527.665	0.9402	686.7	24.6	80	6.9	7.4										
28	534.327	0.9300	643.4	24.6	84	6.6	8.0	26.8	207.3	32.0	247.5	12.7	98.2	90.0	696.0	45.6	
29	517.551	0.8867	667.1	23.4	86	6.4	7.6	37.4	275.8	57.3	422.5	10.9	80.4	80.0	589.9		368.3
30	417.209	0.6872	425.1	14.3	90	6.6	7.2										
31		0.7447	444.7	16.2	87	6.8	7.2										
TOT	10838.154	24.4414	14749.9	544.6					1821.7		5905.7		757.1		4877.5		
AVG	516.103	0.7884	475.8	17.6	84			27.0	227.7	88.4	738.2	11.6	94.6	74.1	609.7	37.6	377.7

PERMITTEE NAME / ADDRESS (Include Facility Name/Location if different)

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PAGO PAGO AMERICAN SAMOA 96799

FACILITY LOCATION

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DISCHARGE MONITORING REPORT (DMR)

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PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
FLOW	SAMPLE MEASUREMENT		1.1663						0	Continuous	
	PERMIT REQUIREMENT		2.9	mgd						Continuous	
BOD5	SAMPLE MEASUREMENT				368.3	377.7	387.1		0	2 / Mon	Composite
	PERMIT REQUIREMENT				N/A	N/A	N/A	mg/l		"	"
TSS	SAMPLE MEASUREMENT	738.2	1729.2		30.7	88.4	197.3		0	2 / Week	Composite
	PERMIT REQUIREMENT	2653	6673	lbs/day	N/A	N/A	N/A	mg/l		"	"
OIL & GREASE	SAMPLE MEASUREMENT	227.7	503.7		8.9	27.0	56.6		0	2 / Week	Grab (4)
	PERMIT REQUIREMENT	675	1688	lbs/ day	N/A	N/A	N/A	mg/l		2 / Week	Grab (2)
TP	SAMPLE MEASUREMENT	94.6	110.9		8.8	11.6	15.0		0	2 / Week	Composite
	PERMIT REQUIREMENT	192	309	lbs/day	N/A	N/A	N/A	mg/l		3	Composite
TN	SAMPLE MEASUREMENT	609.7	696.0		57.5	74.1	90.0		0	2 / Week	Composite
	PERMIT REQUIREMENT	1200	2100	lbs/day	N/A	N/A	N/A	mg/l		3	Composite
TOTAL AMMONIA	SAMPLE MEASUREMENT				18.9	37.6	45.6		0	1 / Week	Composite
	PERMIT REQUIREMENT				N/A	N/A	133	mg/l		"	"

NAME / TITLE PRINCIPAL EXECUTIVE OFFICER

VIRGIL SHOUSE
Manager, Cannery Manufacturing
TYPE OR PRINTED

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TEMPERATURE	SAMPLE MEASUREMENT					84	94		0	Continuous	
	PERMIT REQUIREMENT					90	95			"	
pH	SAMPLE MEASUREMENT				6.3		8.0		0	Continuous	
	PERMIT REQUIREMENT				6.5		8.6			"	
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
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TELEPHONE AREA CODE	NUMBER	DATE YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

We had five (5) pH readings which were below 6.5 through out the month. We did not exceed the one hour individual excurtion limit or the total of seven hours and twenty six minutes for the calendar month. This is not considered a violation

Wastewater Summary Report for the month of June 1998

Date	Production Tons	Flow mgd	Alum #/day	Poly #/day	Max Temp F	pH Limits Lo	pH Limits Hi	Oil &Grease Eff mg/l	Oil &Grease Total #/day	TSS Eff mg/l	TSS Total #/day	TP Eff mg/l	TP Total #/day	TN Eff mg/l	TN Total #/day	Total Ammonia Eff mg/l	BOD Eff mg/l
1	548.848	0.9092	280.3	15.7	83	6.7	7.5										
2	555.606	1.2314	354.8	18.7	86	6.8	7.3										
3	526.996	0.9329	293.5	15.4	85	6.7	7.8	98.4	763.4	42.7	331.3	14.0	108.6	90.0	698.2	36.5	
4	488.858	0.9296	407.3	15.9	86	6.7	7.8	64.9	501.7	54.7	422.9	11.7	90.4	82.5	637.8		
5	515.717	0.7359	153.3	11.6	92	6.8	7.2										
6		0.3277	52.6	3.6	97	7.0	7.4										
7		0.4299	170.8	8.3	82	6.9	7.4										
8	524.668	0.7140	341.6	13.8	81	6.8	7.6										
9	525.400	0.8209	622.0	17.5	82	6.5	8.3										
10	523.814	0.9431	486.2	18.5	85	6.6	7.9	27.8	218.0	40.0	313.7	15.6	122.3	90.0	705.9	53.4	
11	523.761	0.9428	648.2	18.8	82	6.8	7.3	23.6	185.0	57.3	449.3	15.9	124.7	92.5	725.2		
12	511.402	0.9158	494.9	12.9	85	6.5	7.4										
13		0.2858	157.7	4.3	99	6.8	7.3										
14		0.4107	157.7	7.0	83	6.9	7.3										
15	534.432	0.7570	446.8	15.4	79	6.7	7.8										
16	554.754	0.7078	459.9	15.7	81	6.4	7.4	16.9	99.5	108.0	635.7	10.2	60.0	95.0	559.2	22.9	441.3
17	533.050	0.7815	442.4	16.3	85	6.6	7.6	11.5	74.7	90.0	584.9	11.1	72.1	92.5	601.2		
18	544.881	0.8210	407.3	15.6	86	6.5	8.0										
19	523.874	0.6872	280.3	11.9	87	6.8	7.4										
20		0.7577	328.5	9.6	93	6.8	7.2										
21		0.5977	262.8	9.9	86	6.7	7.4										
22	543.552	0.8876	398.6	14.1	83	6.7	7.4										
23	540.420	0.8989	481.8	14.0	87	6.9	7.4										
24	553.222	0.8823	459.9	15.0	84	6.6	7.6	60.9	446.8	164.0	1203.3	10.1	74.1	95.0	697.0	29.5	382.0
25	550.328	0.9051	573.8	15.4	82	6.7	7.7	52.3	393.7	133.3	1003.3	13.7	103.1	92.5	696.2		
26	564.056	0.7344	363.5	10.4	87	6.8	7.2										
27		0.2157	127.0	4.0	89	6.9	7.0										
28		0.5211	240.9	8.6	91	7.0	7.4										
29	565.982	0.6559	350.4	12.2	78	6.7	8.0										
30	587.929	0.8901	499.3	23.2	82	6.8	7.3										
TOT	11841.550	22.2307	10744.1	393.3					2682.8		4944.4		755.3		5320.7		
AVG	538.252	0.7410	358.1	13.1	86			44.5	335.4	86.3	618.1	12.8	94.4	91.3	665.1	35.6	411.7

PERMITTEE NAME / ADDRESS (Include Facility Name/Location if different)

NAME STAR KIST SAMOA, Inc

ADDRESS P. O. BOX 368

PAGO PAGO AMERICAN SAMOA 96799

FACILITY LOCATION

NATIONAL POLLUTANT DISCHARGE SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004
Expires 3-31-88

(2-16)	(17-19)
AS0000019	001
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

YEAR (20-21)	MO (22-23)	DAY	TO	YEAR (26-27)	MO (28-29)	DAY (30-31)
1998	06	01		1998	06	30

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
FLOW	SAMPLE MEASUREMENT		1.2314						0	Continuous	
	PERMIT REQUIREMENT		2.9	mgd						Continuous	
BOD5	SAMPLE MEASUREMENT				382.0	411.7	441.3		0	2 / Mon	Composite
	PERMIT REQUIREMENT				N/A	N/A	N/A	mg/l		"	"
TSS	SAMPLE MEASUREMENT	618.1	1203.3		40.0	86.3	164.0		0	2 / Week	Composite
	PERMIT REQUIREMENT	2653	6673	lbs/day	N/A	N/A	N/A	mg/l		"	"
OIL & GREASE	SAMPLE MEASUREMENT	335.4	763.4		11.5	44.5	98.4		0	2 / Week	Grab (4)
	PERMIT REQUIREMENT	675	1688	lbs/ day	N/A	N/A	N/A	mg/l		2 / Week	Grab (2)
TP	SAMPLE MEASUREMENT	94.4	124.7		10.1	12.8	15.9		0	2 / Week	Composite
	PERMIT REQUIREMENT	192	309	lbs/day	N/A	N/A	N/A	mg/l		3	Composite
TN	SAMPLE MEASUREMENT	665.1	725.2		82.5	91.3	95.0		0	2 / Week	Composite
	PERMIT REQUIREMENT	1200	2100	lbs/day	N/A	N/A	N/A	mg/l		3	Composite
TOTAL AMMONIA	SAMPLE MEASUREMENT				22.9	35.6	53.4		0	1 / Week	Composite
	PERMIT REQUIREMENT				N/A	N/A	133	mg/l		"	"

NAME / TITLE PRINCIPAL EXECUTIVE OFFICER

VIRGIL SHOUSE
Manager, Cannery Manufacturing
TYPE OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AN FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION. I BELIEVE THE SUBMITTED INFORMATION IS TRUE. ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIG. NIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 U.S.C. 1001 AND 33 U.S.C. 1319 (Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 month and 5 years)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE AREA CODE	NUMBER	DATE YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS(Reference all attachments here)

PERMITTEE NAME / ADDRESS (Include Facility Name/Location if different)

NAME STAR KIST SAMOA, Inc

ADDRESS P. O. BOX 368

PAGO PAGO AMERICAN SAMOA 96799

FACILITY LOCATION

NATIONAL POLLUTANT DISCHARGE SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004
Expires 3-31-88

(2-16) AS0000019 PERMIT NUMBER

(17-19) 001 DISCHARGE NUMBER

MONITORING PERIOD

YEAR	MO	DAY		YEAR	MO	DAY
1998	06	01	TO	1998	06	30

(20-21) (22-23) (26-27) (28-29) (30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
TEMPERATURE	SAMPLE MEASUREMENT					86	99	°F	2	Continuous	
	PERMIT REQUIREMENT					90	95			"	
pH	SAMPLE MEASUREMENT				6.4		8.3		0	Continuous	
	PERMIT REQUIREMENT				6.5		8.6			"	
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

VIRGIL SHOUSE
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TYPE OR PRINTED

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SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE AREA CODE	NUMBER	DATE YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS(Reference all attachments here)

We had one (1) pH reading which was below 6.5 through out the month. We did not exceed the one hour individual excurtion limit or the seven hours and twenty six minutes for the calenda month. This is not considered a violation.

Wastewater Summary Report for the month of July 1998

Date	Production Tons	Flow mgd	Alum #/day	Poly #/day	Max Temp F	pH Limits Lo	pH Limits Hi	Oil &Grease Eff mg/l	Oil &Grease Total #/day	TSS Eff mg/l	TSS Total #/day	TP Eff mg/l	TP Total #/day	TN Eff mg/l	TN Total #/day	Total Ammonia Eff mg/l	BOD Eff mg/l
1	613.508	0.8138	490.6	16.5	81	6.8	7.7	51.2	346.5	78.7	532.6	12.0	81.2	95.0	642.9	28.5	
2	573.506	1.0030	446.8	16.6	82	6.8	7.4	57.2	477.1	65.3	544.7	9.6	80.1	95.0	792.4		
3	549.613	0.7971	346.0	12.6	86	6.6	7.2										
4		0.1810	56.9	2.7	80	6.8	6.9										
5		0.6810	311.0	14.7	86	6.7	7.5										
6	539.206	0.9998	385.4	13.8	81	6.2	8.2										
7	521.685	0.9348	490.6	15.4	82	6.5	8.7										
8	537.089	0.9438	350.4	14.9	80	6.8	7.2	11.1	87.1	65.3	512.5	7.9	62.0	70.0	549.4	34.5	400.2
9	500.770	0.9377	394.2	16.5	80	6.6	7.2	7.5	58.5	74.7	582.5	10.4	81.1	70.0	545.9		
10	509.563	0.7342	319.7	12.2	84	6.8	7.4										
11		0.2776	100.7	4.0	93	6.7	7.2										
12		0.6235	280.3	9.5	81	7.0	7.4										
13	512.004	0.8089	433.6	13.8	76	6.6	7.8										
14	523.879	0.9315	486.2	15.4	78	6.8	7.2										
15	532.151	0.9107	468.7	13.7	79	6.6	7.3	18.4	139.4	89.3	676.3	11.6	87.9	85.0	643.7	29.5	
16	530.924	0.9939	442.4	16.0	83	6.8	7.6	23.0	190.1	125.3	1035.6	10.5	86.8	92.5	764.5		
17	513.117	0.8748	376.7	13.2	84	6.8	7.3										
18		0.3463	87.6	3.1	85	6.9	7.0										
19		0.5490	184.0	8.0	85	6.8	7.1										
20	522.877	0.8066	315.4	12.5	80	6.6	7.5										
21	526.989	0.9587	508.1	15.1	81	6.6	7.2	38.8	309.3	125.3	999.0	14.9	118.8	95.0	757.4	31.5	
22	510.686	1.1001	508.1	15.4	79	6.5	7.8	8.2	75.0	98.0	896.5	14.4	131.7	80.0	731.9		
23	527.373	0.9624	403.0	16.2	81	6.7	7.2										
24	522.777	0.7189	219.0	9.1	85	6.6	8.0										
25		0.0941	8.8	0.74	84	7.0	7.2										
26		0.5493	267.2	8.8	84	7.0	7.8										
27	506.717	0.7340	381.1	12.6	80	6.8	7.4										
28	540.028	0.8518	407.3	13.4	82	6.4	7.4										
29	548.595	0.9220	459.9	16.9	80	6.6	7.5	8.6	65.9	69.3	531.3	8.4	64.4	80.0	613.4	25.5	306.7
30	532.721	0.8640	394.2	16.3	80	6.8	8.1	21.6	155.2	97.3	699.1	13.4	96.3	95.0	682.6		
31	529.349	0.6633	275.9	9.1	80	6.8	7.2										
TOT	12225.127	23.5676	10599.8	378.7					1904.1		7010.1		890.3		6724.1		
AVG	531.527	0.7602	341.9	12.2	82			24.6	190.4	88.9	701.0	11.3	89.0	85.8	672.4	29.9	353.5

PERMITTEE NAME / ADDRESS (Include Facility Name/Location if different)

NAME STAR KIST SAMOA, Inc

ADDRESS P. O. BOX 368

PAGO PAGO AMERICAN SAMOA 96799

FACILITY

LOCATION

NATIONAL POLLUTANT DISCHARGE SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004
Expires 3-31-88

(2-16)	(17-19)
AS0000019	001
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

YEAR	MO	DAY		YEAR	MO	DAY
1998	07	01	TO	1998	07	31
	(20-21)	(22-23)			(26-27)	(28-29) (30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
FLOW	SAMPLE MEASUREMENT		1.1001						0	Continuous	
	PERMIT REQUIREMENT		2.9	mgd						Continuous	
BOD5	SAMPLE MEASUREMENT				306.7	353.6	400.2		0	2 / Mon	Composite
	PERMIT REQUIREMENT				N/A	N/A	N/A	mg/l		"	"
TSS	SAMPLE MEASUREMENT	701.0	1035.6		65.3	88.9	125.3		0	2 / Week	Composite
	PERMIT REQUIREMENT	2653	6673	lbs/day	N/A	N/A	N/A	mg/l		"	"
OIL & GREASE	SAMPLE MEASUREMENT	190.4	477.1		8.2	24.6	57.2		0	2 / Week	Grab (4)
	PERMIT REQUIREMENT	675	1688	lbs/ day	N/A	N/A	N/A	mg/l		2 / Week	Grab (2)
TP	SAMPLE MEASUREMENT	89.0	131.7		7.9	11.3	14.9		0	2 / Week	Composite
	PERMIT REQUIREMENT	192	309	lbs/day	N/A	N/A	N/A	mg/l		3	Composite
TN	SAMPLE MEASUREMENT	672.4	792.4		70.0	85.8	95.0		0	2 / Week	Composite
	PERMIT REQUIREMENT	1200	2100	lbs/day	N/A	N/A	N/A	mg/l		3	Composite
TOTAL AMMONIA	SAMPLE MEASUREMENT				25.5	29.9	34.5		0	1 / Week	Composite
	PERMIT REQUIREMENT				N/A	N/A	133	mg/l		"	"

NAME / TITLE PRINCIPAL EXECUTIVE OFFICER

VIRGIL SHOUSE
Manager, Cannery Manufacturing
TYPE OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AN FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION. I BELIEVE THE SUBMITTED INFORMATION IS TRUE. ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIG. NIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 U.S.C. 1001 AND 33 U.S.C. 1319 (Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 month and 5 years)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE AREA CODE	NUMBER	DATE YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS(Reference all attachments here)

PERMITTEE NAME / ADDRESS (Include Facility Name/Location if different)

NAME: STAR KIST SAMOA, Inc

ADDRESS: P. O. BOX 368

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1998	07	01	TO	1998	07	31
(20-21)	(22-23)			(26-27)	(28-29)	(30-31)

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TEMPERATURE	SAMPLE MEASUREMENT					82	93	°F	0	Continuous	
	PERMIT REQUIREMENT					90	95			*	
pH	SAMPLE MEASUREMENT				6.2		8.7		0	Continuous	
	PERMIT REQUIREMENT				6.5		8.6			*	
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

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SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE AREA CODE	NUMBER	DATE YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS(Reference all attachments here)

We had two (2) pH readings which were below 6.5 and one (1) pH reading above 8.5 through out the month. We did not exceed the one hour individual excurtion limit or the seven hours and twenty six minutes for the calendar month. This is not considered a violation.

PERMITTEE NAME / ADDRESS (Include Facility Name/Location if different)

NAME STAR KIST SAMOA, Inc

ADDRESS P. O. BOX 368

PAGO PAGO AMERICAN SAMOA 96799

FACILITY LOCATION

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(2-16) PERMIT NUMBER	(17-19) DISCHARGE NUMBER
AS0000019	001

MONITOR PERIOD

YEAR	MO	DAY		YEAR	MO	DAY
1998	01	29	TO			
(20-21)	(22-23)			(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR LOADING (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
TOTAL LEAD	SAMPLE MEASUREMENT	0.003								1 / 6 Mon	Composite
	PERMIT REQUIREMENT			mg/l						"	"
TOTAL CADMIUM	SAMPLE MEASUREMENT	0.007								1 / 6 Mon	Composite
	PERMIT REQUIREMENT			mg/l						"	"
TOTAL CHROMIUM	SAMPLE MEASUREMENT	0.093								1 / 6 Mon	Composite
	PERMIT REQUIREMENT			mg/l						"	"
TOTAL MERCURY	SAMPLE MEASUREMENT	<0.0004								1 / 6 Mon	Composite
	PERMIT REQUIREMENT			mg/l						"	"
TOTAL ZINC	SAMPLE MEASUREMENT	0.155								1 / 6 Mon	Composite
	PERMIT REQUIREMENT			mg/l						"	"
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME / TITLE PRINCIPAL EXECUTIVE OFFICER

VIRGIL SHOUSE
Manager, Cannery Manufacturing
TYPE OR PRINTED

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TELEPHONE AREA CODE	NUMBER	DATE YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS(Reference all attachments here)

StarKist Samoa, Inc.

May 27, 1998

Mr. . Norman Lovelace
OPINAP (E - 4)
U . S . EPA Region 9
75 Hawthorne Street
San Francisco , CA 94105

Mr. . Togipa Tausaga
ASEPA
Office of the Governor
American Samoa Government
Pago Pago , American Samoa 96799

Gentlemen :

Re : **Discharge Monitoring Report for the Months of February, March and April 1998 under NPDES No . 0000019 as issued to Star Kist Samoa ,INC .**

Attached is Star Kist Samoa's Discharge Monitoring Reports covering the months of February, March and April 1998 .

Star Kist Samoa met all Effluent limits.

Sincerely,
5/28/98
Virgil Shouse
Manager , Cannery Manufacturing

VS \ ls : \ npdes \samoa

Attachments :
cc : Ms. Sheila Weigman
Ms. Carl Goldstein

Wastewater Summary Report for the month of February 1998

Date	Production Tons	Flow mgd	Alum #/day	Poly #/day	Max Temp F	pH Limits Lo	pH Limits Hi	Oil &Grease Eff mg/l	Oil &Grease Total #/day	TSS Eff mg/l	TSS Total #/day	TP Eff mg/l	TP Total #/day	TN Eff mg/l	TN Total #/day	Total Ammonia Eff mg/l	BOD Eff mg/l
1		0.9367	359.7	11.7	82	6.8	7.2										
2	493.511	1.2041	510.1	17.6	82	6.8	7.4										
3	476.906	1.4994	529.7	19.0	85	6.5	7.2										
4	522.816	1.5705	673.6	20.6	86	6.7	7.4	11.0	143.7	62.0	809.7	9.0	117.5	60.0	783.6	19.1	
5	513.811	1.5233	621.3	22.2	84	6.6	7.3	30.4	385.1	125.3	1587.3	9.8	124.1	72.5	918.4		388.8
6	438.287	1.3702	477.4	16.4	87	6.6	8.0										
7		0.2864	157.0	3.6	89	6.6	7.2										
8		0.8144	451.3	11.9	82	6.8	7.5										
9	504.831	1.2825	555.9	20.8	82	6.8	7.4										
10	495.669	1.5259	686.7	24.9	84	6.3	7.2										
11	477.391	1.5130	719.4	20.8	82	6.9	7.4	11.9	149.7	88.0	1107.2	12.6	158.5	70.0	880.7		
12	524.475	1.6677	654.0	23.0	81	7.0	7.6	17.7	245.5	162.0	2246.7	12.8	177.5	87.5	1213.5	17.9	354.9
13	486.359	1.3942	582.1	17.2	83	6.8	7.2										
14		0.2964	117.7	3.8	83	6.9	7.2										
15		0.1392	52.3	1.8	84	6.7	6.8										
16		0.6616	346.6	10.9	84	6.7	7.4										
17	490.876	0.9260	588.6	15.0	81	6.7	8.1										
18	468.250	1.2229	791.3	23.6	86	6.1	8.0	17.9	182.0	56.0	569.5	11.6	118.0	62.5	635.6	37.1	
19	533.140	1.1518	725.9	22.8	84	6.7	7.6	48.7	466.5	108.0	1034.5	13.5	129.3	70.0	670.5		
20	529.404	1.0115	523.2	16.4	85	6.3	7.4										
21	515.847	0.9351	516.7	15.6	84	6.7	7.8										
22		0.7594	431.6	12.3	94	6.2	7.3										
23	524.613	0.9791	621.3	21.8	82	6.2	7.8										
24	511.602	1.1582	608.2	18.4	82	6.7	7.6	25.9	249.5	90.7	873.6	12.1	116.5	87.5	842.8	30.3	
25	538.965	1.2071	686.7	18.6	83	6.5	8.0	22.4	224.9	111.3	1117.3	13.5	135.5	82.5	828.2		
26	535.367	1.0579	542.8	15.8	82	6.6	8.0										
27	528.438	1.0445	549.4	12.1	90	6.5	7.3										
28		0.3097	183.1	5.7	93	6.6	7.2										
TOT	10110.558	29.4487	14263.6	444.3					2046.9		9345.8		1076.9		6773.3		
AVG	505.528	1.0517	509.4	15.9	85			23.2	255.9	100.4	1168.2	11.9	134.6	74.1	846.7	26.1	371.9

Wastewater Summary Report for the month of March 1998

Date	Production Tons	Flow mgd	Alum #/day	Poly #/day	Max Temp F	pH Limits Lo	pH Limits Hi	Oil &Grease Eff mg/l	Oil &Grease Total #/day	TSS Eff mg/l	TSS Total #/day	TP Eff mg/l	TP Total #/day	TN Eff mg/l	TN Total #/day	Total Ammonia Eff mg/l	BOD Eff mg/l
1		0.7434	340.1	11.7	83	6.9	8.0										
2	534.362	1.0556	451.3	16.2	84	6.6	7.7										
3	543.611	1.2962	771.7	23.4	86	6.2	7.6	34.8	375.1	67.3	725.4	6.0	64.7	77.5	835.4	18.5	
4	541.289	1.1744	562.4	17.8	81	6.4	8.0										
5	538.539	1.1110	647.5	24.2	82	6.7	7.8	68.7	634.7	98.0	905.4	9.6	88.7	72.5	669.8		
6	524.860	0.8931	425.1	13.5	82	6.7	7.4										
7		0.4026	98.1	3.2	83	6.8	7.2										
8		0.9692	340.1	15.2	81	6.6	7.6										
9	503.608	1.1330	608.2	16.2	81	6.7	7.6										
10	501.156	1.1779	758.6	22.4	81	6.7	7.6	25.8	252.7	125.3	1227.4	15.7	153.8	92.5	906.1	18.5	
11	419.348	0.8507	497.0	13.5	82	6.3	7.4										
12	499.080	1.1065	686.7	20.4	82	6.5	7.1	23.8	219.0	105.3	968.9	15.6	143.5	107.5	989.2		258.8
13	521.011	0.9043	457.8	14.3	83	6.8	7.3										
14		0.4492	261.6	7.5	93	6.6	8.0										
15		0.6887	327.0	8.9	87	6.7	8.9										
16	525.107	1.0721	634.4	17.0	80	6.8	7.6										
17	516.437	1.1774	627.8	22.4	83	6.8	7.5										
18	520.167	1.2461	667.1	22.8	82	6.7	7.2	26.4	273.6	126.0	1305.7	12.3	127.5	90.0	932.6	21.8	
19	524.252	1.2120	510.1	18.6	81	6.7	7.3	27.0	272.1	119.3	1202.4	8.7	87.7	85.0	856.7		
20	506.087	1.1126	444.7	18.0	84	6.8	7.2										
21		0.3365	143.9	7.1	88	6.6	7.6										
22		0.6650	333.5	13.5	86	6.9	7.2										
23	528.439	1.0333	464.3	16.6	86	6.7	7.6										
24	545.975	1.1340	536.3	23.6	83	6.6	7.5										
25	545.864	1.2494	719.4	17.4	85	6.7	7.6	77.3	803.1	130.0	1350.7	11.8	122.6	77.5	805.2	19.1	
26	541.051	1.2447	673.6	19.0	81	6.4	7.2	79.8	826.0	92.7	959.5	13.1	135.6	85.0	879.8		421.7
27	514.688	0.9737	510.1	15.6	86	6.5	8.2										
28		0.3114	163.5	5.5	89	6.7	7.2										
29		0.8483	470.9	14.9	85	6.6	7.2										
30	505.480	1.0706	640.9	19.0	82	6.6	7.4										
31	502.801	1.1858	739.0	24.4	86	6.3	7.3										
TOT	11403.212	29.8287	15512.7	503.8					3656.3		8645.4		924.1		6874.8		
AVG	518.328	0.9622	500.4	16.3	84			45.5	457.0	108.0	1080.7	11.6	115.5	85.9	859.4	19.5	340.3

Wastewater Summary Report for the month of April 1998

Date	Production Tons	Flow mgd	Alum #/day	Poly #/day	Max Temp F	pH Limits Lo	pH Limits Hi	Oil &Grease Eff mg/l	Oil &Grease Total #/day	TSS Eff mg/l	TSS Total #/day	TP Eff mg/l	TP Total #/day	TN Eff mg/l	TN Total #/day	Total Ammonia Eff mg/l	BOD Eff mg/l
1	494.968	1.1533	555.9	18.4	87	6.8	7.2	9.8	94.0	49.3	472.8	10.8	103.6	80.0	767.3	28.5	420.2
2	526.019	1.3028	850.2	25.5	85	6.7	9.5	23.3	252.4	42.7	462.6	10.6	114.8	75.0	812.6		
3	499.973	0.9702	497.0	17.2	84	6.7	7.4										
4		0.4060	117.7	7.5	85	7.0	7.6										
5		0.6748	438.2	12.9	86	6.8	7.4										
6	467.044	0.8925	477.4	18.2	82	6.6	8.0										
7	517.083	0.8846	412.0	15.0	82	6.8	7.1										
8	484.692	1.0460	660.5	20.4	84	6.6	7.3	22.0	191.4	233.3	2029.4	11.5	100.0	65.0	565.4	25.9	226.8
9	440.395	0.7300	497.0	14.9	84	6.6	7.1	8.8	53.4	202.7	1230.5	14.2	86.2	62.5	379.4		
10		0.3499	222.4	5.5	87	6.7	6.9										
11		0.1970	202.7	4.8	84	6.8	7.2										
12		0.5766	510.1	14.1	92	6.8	8.0										
13	497.381	0.8715	614.8	18.4	82	6.4	7.8										
14	515.790	0.8164	667.1	16.4	80	6.3	7.2	42.8	290.6	232.7	1579.8	13.4	91.0	82.5	560.1	24.6	
15	591.096	0.9631	778.3	18.6	81	6.3	7.1	42.3	338.8	188.7	1511.3	10.2	81.7	85.0	680.8		
16	493.799	0.9385	680.2	19.4	83	6.4	7.4										
17	Shut Down	0.2399	117.7	4.0	80	6.4	7.4										
18	Shut Down	0.2098	78.5	3.8	82	6.7	7.2										
19	Shut Down	0.1401	85.0	3.4	82	6.8	7.2										
20	Shut Down	0.1212	58.9	1.2	80	7.0	7.0										
21	Shut Down	0.0934	26.2	1.2	78	7.1	7.2										
22	Shut Down	0.1767			76	7.0	7.0										
23	Shut Down	0.1386	39.2	1.4	82	7.0	7.6										
24	Shut Down	0.1491	71.9	2.0	84	6.8	7.2										
25	Shut Down	0.1175	13.1	1.0	85	7.0	7.1										
26	Shut Down	0.5380	242.0	8.7	91	7.0	7.2										
27	399.860	0.9475	575.5	20.2	81	6.7	8.0										
28	525.879	1.0941	752.1	27.1	81	6.7	7.2	9.8	89.2	96.0	873.5	7.0	63.7	55.0	500.4	25.3	
29	535.476	1.0264	693.2	25.7	80	6.8	7.2	12.3	105.0	198.0	1690.0	15.4	131.4	70.0	597.5		
30	529.775	1.0161	627.8	26.3	83	6.8	7.2										
TOT	7519.230	18.7816	11562.6	373.2					1414.8		9849.9		772.4		4863.5		
AVG	501.282	0.6261	398.7	12.9	83			21.4	176.9	155.4	1231.2	11.6	96.6	71.9	607.9	26.1	323.5

PERMITTEE NAME /ADDRESS (*Include Facility Name/Location if different*)

NAME: STAR KIST SAMOA INC.

ADDRESS P.O. BOX 368
PAGO PAGO, AMERICAN SAMOA 96799

FACILITY

LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SHSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004
Expires 3-31-88

(2-16) AS 0000019 PERMIT NUMBER

(17-19) 001 DISCHARGE NUMBER

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
1998	02	01	TO	1998	02	28

(20-21) (22-23) (24-25) (26-27) (28-29) (30-31) **NOTE: Read instruction before completing this form.**

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUANTITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
FLOW	SAMPLE MEASUREMENT		1.6677							continuous	
	PERMIT REQUIREMENT		2.9	mgd						"	"
BOD 5	SAMPLE MEASUREMENT				354.9	371.9	388.8			2/mon composite	
	PERMIT REQUIREMENT				N/A	N/A	N/A	mg/1		"	"
TSS	SAMPLE MEASUREMENT	1168.2	2246.7		56.0	100.4	162.0			2/wk composite	
	PERMIT REQUIREMENT	2653	6673	lbs/da	N/A	N/A	N/A	mg/1		"	"
OIL & GREASE	SAMPLE MEASUREMENT	255.9	466.5		11.0	23.2	48.7			2/wk Grab (4)	
	PERMIT REQUIREMENT	675	1688	lbs/da	N/A	N/A	N/A	mg/1		"	" (2)
TP	SAMPLE MEASUREMENT	134.6	177.5		9.0	11.9	13.5			2/wk composite	
	PERMIT REQUIREMENT	192	309	lbs/da	N/A	N/A	N/A	mg/1		3 composite	
TN	SAMPLE MEASUREMENT	846.7	1213.5		60.0	74.1	87.5			2/wk composite	
	PERMIT REQUIREMENT	1200	2100	lbs/da	N/A	N/A	N/A	mg/1		3 composites	
TOTAL AMMONIA	SAMPLE MEASUREMENT				17.9	26.1	37.1			1/wk composi	
	PERMIT REQUIREMENT				N/A	N/A	133	mg/1		"	"

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

VIRGIL SHOUSE
Manager, Cannery Manufacturing
TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC 100 AND 33 U.S.C. 319 (*Penaltie under therese statues may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years.*)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE 684 NUMBER 644-2860

DATE: YEAR 98 MO 5 DAY 28

COMMENT AND EXPLANATION OF ANY VIOLATIONS (*Reference all attachments here*)

PERMITTEE NAME /ADDRESS (*Include Facility Name/Location if different*)

NAME: STAR KIST SAMOA INC.

ADDRESS P.O. BOX 368
PAGO PAGO, AMERICAN SAMOA 96799

FACILITY

LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SHSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004
Expires 3-31-88

(2-16) AS 0000019 PERMIT NUMBER

(17-19) 001 DISCHARGE NUMBER

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
1998	02	01	TO	1998	02	28

(20-21) (22-23) (24-25) (26-27) (28-29) (30-31) **NOTE: Read instruction before completing this form.**

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUANTITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
TEMPERATURE	SAMPLE MEASUREMENT					85	94	°F		continuous	
	PERMIT REQUIREMENT					90	95			"	"
pH	SAMPLE MEASUREMENT				6.1		8.1			continuous	
	PERMIT REQUIREMENT				6.5		8.6			"	"
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
VIRGIL SHOUSE Manager, Cannery Manufacturing TYPED OR PRINTED	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC 100 AND 33 U.S.C. 319 *(Penalties under therese statues may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years.)*	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE 684	NUMBER 644-2860	YEAR 98	MO 5	DAY 28

COMMENT AND EXPLANATION OF ANY VIOLATIONS *(Reference all attachments here)*

We had five (5) pH readings which were below 6.5 through out the month. We did not exceed the one hour individiual excurtion limit or the total of seven hours and twenty six minutes for the calendar month. This is not considered a violation.

PERMITTEE NAME /ADDRESS (*Include Facility Name/Location if different*)

NAME: STAR KIST SAMOA INC.

ADDRESS P.O. BOX 368
PAGO PAGO, AMERICAN SAMOA 96799

FACILITY

LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SHSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
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(2-16) AS 0000019 PERMIT NUMBER

(17-19) 001 DISCHARGE NUMBER

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
1998	03	01	TO	1998	03	31

(20-21) (22-23) (24-25) (26-27) (28-29) (30-31) **NOTE: Read instruction before completing this form.**

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUANTITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
FLOW	SAMPLE MEASUREMENT		1.2962	mgd						continuous	
	PERMIT REQUIREMENT		2.9							"	"
BOD 5	SAMPLE MEASUREMENT				258.8	340.3	421.7	mg/1		2/mon composite	
	PERMIT REQUIREMENT				N/A	N/A	N/A			"	"
TSS	SAMPLE MEASUREMENT	1080.7	1350.7	lbs/da	67.3	108.0	130.0	mg/1		2/wk composite	
	PERMIT REQUIREMENT	2653	6673		N/A	N/A	N/A			"	"
OIL & GREASE	SAMPLE MEASUREMENT	457.0	826.0	lbs/da	23.8	45.5	79.8	mg/1		2/wk Grab (4)	
	PERMIT REQUIREMENT	675	1688		N/A	N/A	N/A			"	" (2)
TP	SAMPLE MEASUREMENT	115.5	153.8	lbs/da	6.0	11.6	15.7	mg/1		2/wk composite	
	PERMIT REQUIREMENT	192	309		N/A	N/A	N/A			3 composite	
TN	SAMPLE MEASUREMENT	859.4	989.2	lbs/da	72.5	85.9	107.5	mg/1		2/wk composite	
	PERMIT REQUIREMENT	1200	2100		N/A	N/A	N/A			3 composites	
TOTAL AMMONIA	SAMPLE MEASUREMENT				18.5	19.5	21.8	mg/1		1/wk composi	
	PERMIT REQUIREMENT				N/A	N/A	133			"	"

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
VIRGIL SHOUSE Manager, Cannery Manufacturing TYPED OR PRINTED	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC 100 AND 33 U.S.C. 319 *(Penaltie under therese statues may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years.)*	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	684 (AREA CODE)	644-2860 (NUMBER)	98 (YEAR)	5 (MO)	25 (DAY)

COMMENT AND EXPLANATION OF ANY VIOLATIONS *(Reference all attachments here)*

PERMITTEE NAME /ADDRESS (*Include Facility Name/Location if different*)

NAME: STAR KIST SAMOA INC.

ADDRESS P.O. BOX 368
PAGO PAGO, AMERICAN SAMOA 96799

FACILITY

LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SHSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004
Expires 3-31-88

(2-16) AS 0000019 PERMIT NUMBER

(17-19) 001 DISCHARGE NUMBER

MONITORING PERIOD

YEAR	MO	DAY		YEAR	MO	DAY
1998	03	01	TO	1998	03	31

(20-21) (22-23) (24-25) (26-27) (28-29) (30-31) **NOTE: Read instruction before completing this form.**

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUANTITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
TEMPERATURE	SAMPLE MEASUREMENT					84	93	F		continuous	
	PERMIT REQUIREMENT					90	95			"	"
pH	SAMPLE MEASUREMENT				6.2		8.9			continuous	
	PERMIT REQUIREMENT				6.5		8.6			"	"
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

VIRGIL SHOUSE
Manager, Cannery Manufacturing
TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC 100 AND 33 U.S.C. 319 *(Penaltie under therese statues may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years.)*

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE 684 NUMBER 644-2860

DATE: YEAR 98 MO 5 DAY 28

COMMENT AND EXPLANATION OF ANY VIOLATIONS *(Reference all attachments here)*

We had five (5) pH readings which were below 6.5 and one (1) above 8.6 through out the month. We did not exceed the one hour individual excurtion limit or the total of seven hours and twenty six minutes for the calendar month. This is not considered a violation.

PERMITTEE NAME /ADDRESS (*Include Facility Name/Location if different*)

NAME: STAR KIST SAMOA INC.

ADDRESS P.O. BOX 368
PAGO PAGO, AMERICAN SAMOA 96799

FACILITY

LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SHSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004
Expires 3-31-88

(2-16) AS 0000019 PERMIT NUMBER

(17-19) 001 DISCHARGE NUMBER

MONITORING PERIOD

YEAR	MO	DAY		YEAR	MO	DAY
1998	04	01	TO	1998	04	30

(20-21) (22-23) (24-25) (26-27) (28-29) (30-31)

NOTE: Read instruction before completing this form.

PARAMETER (32-37)		QUANTITY OR LOADING (3 Card Only) (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	QUANTITY OR CONCENTRATION (4 Card Only) (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
FLOW	SAMPLE MEASUREMENT		1.3028							continuous	
	PERMIT REQUIREMENT		2.9	mgd						"	"
BOD 5	SAMPLE MEASUREMENT				226.8	323.5	420.2			2/mon composite	
	PERMIT REQUIREMENT				N/A	N/A	N/A	mg/1		"	"
TSS	SAMPLE MEASUREMENT	1231.2	2029.4		42.7	155.4	233.3			2/wk composite	
	PERMIT REQUIREMENT	2653	6673	lbs/da	N/A	N/A	N/A	mg/1		"	"
OIL & GREASE	SAMPLE MEASUREMENT	176.9	338.8		8.8	21.4	42.8			2/wk Grab (4)	
	PERMIT REQUIREMENT	675	1688	lbs/da	N/A	N/A	N/A	mg/1		"	" (2)
TP	SAMPLE MEASUREMENT	96.6	131.4		7.0	11.6	15.4			2/wk composite	
	PERMIT REQUIREMENT	192	309	lbs/da	N/A	N/A	N/A	mg/1		3 composite	
TN	SAMPLE MEASUREMENT	607.9	812.6		55.0	71.9	85			2/wk composite	
	PERMIT REQUIREMENT	1200	2100	lbs/da	N/A	N/A	N/A	mg/1		3 composites	
TOTAL AMMONIA	SAMPLE MEASUREMENT				24.6	26.1	28.5			1/wk compos	
	PERMIT REQUIREMENT				N/A	N/A	133	mg/1		"	"

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

VIRGIL SHOUSE
Manager, Cannery Manufacturing
TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC 100 AND 33 U.S.C. 319 *(Penalties under therese statues may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years.)*

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE 684 NUMBER 644-2860

DATE: YEAR 98 MO 5 DAY 28

COMMENT AND EXPLANATION OF ANY VIOLATIONS *(Reference all attachments here)*

PERMITTEE NAME /ADDRESS (*Include Facility Name/Location if different*)

NAME: STAR KIST SAMOA INC.

ADDRESS P.O. BOX 368
PAGO PAGO, AMERICAN SAMOA 96799

FACILITY

LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SHSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004
Expires 3-31-88

(2-16) AS 0000019 PERMIT NUMBER

(17-19) 001 DISCHARGE NUMBER

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
1998	04	01	TO	1998	04	30

(20-21) (22-23) (24-25) (26-27) (28-29) (30-31)

NOTE: Read instruction before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUANTITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
TEMPERATURE	SAMPLE MEASUREMENT					83	92	°F		continuous	
	PERMIT REQUIREMENT					90	95			"	"
pH	SAMPLE MEASUREMENT				6.3		9.5			continuous	
	PERMIT REQUIREMENT				6.5		8.6			"	"
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

VIRGIL SHOUSE
Manager, Cannery Manufacturing
TYPED OR PRINTED

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SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE 684 NUMBER 644-2860

DATE: YEAR 98 MO 5 DAY 25

COMMENT AND EXPLANATION OF ANY VIOLATIONS *(Reference all attachments here)*

We had five (5) pH readings which were below 6.5 and one (1) above 8.6 through out the month. We did not exceed the one hour individual excurtion limit or the total of seven hours and twenty six minutes for the calendar month. This is not considered a violation.

StarKist Samoa, Inc.

February 18, 1998

Mr . Norman Lovelace
OPINAP (E - 4)
U . S . EPA Region 9
75 Hawthorne Street
San Francisco , CA 94105

Mr . Togipa Tausaga
ASEPA
Office of the Governor
American Samoa Government
Pago Pago , American Samoa 96799

Gentlemen :

Re : **Discharge Monitoring Report for the Months of November, December of 1997 and January of 1998 under NPDES No . 0000019 as issued to Star Kist Samoa ,INC .**

Attached is Star Kist Samoa's Discharge Monitoring Reports covering the months of November and December of 1997 and January of 1998.

Star Kist Samoa met all Effluent limits.

Sincerely
2/18/98
Virgil Shouse
Manager , Cannery Manufacturing

VS \ ls : \ npdes \samoa

Attachments :
cc : Ms. Sheila Wiegman
Ms. Pat Young
Mr. Norman Wei
Mr. Barry Mills

Wastewater Summary Report for the month of November 1997

Date	Production Tons	Flow mgd	Alum #/day	Poly #/day	Max Temp F	pH Limits Lo	pH Limits Hi	Oil &Grease Eff mg/l	Oil &Grease Total #/day	TSS Eff mg/l	TSS Total #/day	TP Eff mg/l	TP Total #/day	TN Eff mg/l	TN Total #/day	Total Ammonia Eff mg/l	BOD Eff mg/l
1		0.5723	242.0	10.5	95	6.8	7.2										
2		0.9638	307.4	11.9	86	6.6	7.6										
3	509.457	1.6894	673.6	24.6	80	6.8	8.1										
4	522.356	1.5911	640.9	22.6	86	6.6	7.2										
5	514.844	1.8464	712.9	21.0	82	6.2	7.5	102.3	1570.8	150.7	2313.9	7.0	107.5	52.5	806.1	34.6	
6	526.875	1.8307	712.9	23.8	84	6.5	7.2										
7	490.676	1.4627	601.7	20.2	90	6.6	7.5	89.0	1082.6	80.0	973.1	8.8	107.0	70.0	851.5		
8		0.4540	255.1	6.1	92	6.6	7.3										
9		0.1299	58.9	1.8	OFF	6.9	6.9										
10	SHUT DOWN				OFF												
11	SHUT DOWN	0.1250	52.3	2.0	76	6.8	7.5										
12	SHUT DOWN	0.6252			80	5.8	7.0										
13	SHUT DOWN	0.2153	130.8	4.0	82	6.5	8.0										
14	SHUT DOWN	0.3483	176.6	4.8	84	6.6	8.2										
15	SHUT DOWN	0.2754	209.3	8.1	80	6.9	9.4										
16		0.6699	242.0	8.1	76	6.9	7.4										
17	499.980	1.9845	771.7	22.8	78	6.6	7.1										
18	493.553	1.4399	693.2	18.8	80	6.6	7.2	53.2	637.0	115.3	1380.6	10.1	120.9	60.0	718.5	19.9	
19	417.882	1.4036	758.6	22.6	81	6.7	7.8	28.8	336.2	114.7	1338.8	14.8	172.8	72.5	846.2		331.3
20	167.614	1.3407	562.4	20.8	85	6.8	7.2										
21	198.681	0.8463	359.7	13.5	85	6.8	7.2										
22		0.4964	170.0	7.1	93	6.8	7.0										
23		0.7496	248.5	10.5	90	6.9	7.4										
24	207.061	1.2108	425.1	17.8	83	6.7	7.5										
25	209.480	1.1454	516.7	16.8	80	6.8	8.0	24.1	229.6	99.3	945.8	9.2	87.2	75.0	714.4	16.6	
26	198.656	0.9160	510.1	13.9	82	6.7	7.0	18.2	138.6	78.7	599.5	9.2	70.1	80.0	609.4		273.3
27		0.3620	85.0	4.0	94	6.8	7.5										
28		0.1541	78.5	1.4	82	6.9	7.1										
29		0.1541	45.8	1.2	83	7.0	7.5										
30		0.8370	379.3	7.7	81	7.0	7.3										
TOT	4957.115	25.8398	10621.0	348.4					3994.8		7551.7		665.5		4546.1		
AVG	381.317	0.8910	379.3	12.4	84			52.6	665.8	106.5	1258.6	9.9	110.9	68.3	757.7	23.7	302.3

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME: STAR KIST SMAOA, INC

ADDRESS: P. BOX 368

PAGO PAGO AMERICAN SAMOA 96799

FACILITY

LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

(2-16) AS 0000019 PERMIT NUMBER

(17-19) 001 DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	1997	11	01	TO	1997	11	30
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

Form Approved
OMB No. 2040-0004
Expires 3-31-88

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
FLOW	SAMPLE MEASUREMENT	0.8910	1.9845	mgd					0	Continuous	
	PERMIT REQUIREMENT		2.9							"	"
BOD_5	SAMPLE MEASUREMENT				273.3	302.3	331.1	mg/l	0	2/mon	Composite
	PERMIT REQUIREMENT				N/A	N/A	N/A			"	"
TSS	SAMPLE MEASUREMENT	1258.6	2313.9	lbs/day	78.7	106.5	150.7	mg/l	0	2/wk	Composite
	PERMIT REQUIREMENT	2653	6673		N/A	N/A	N/A			"	"
OIL & GREASE	SAMPLE MEASUREMENT	665.8	1570.8	lbs/day	18.2	52.6	102.3	mg/l	0	2/wk	Grab (4)
	PERMIT REQUIREMENT	675	1688		N/A	N/A	N/A			2/wk	Grab (2)
TP	SAMPLE MEASUREMENT	110.9	172.8	lbs/day	7.0	9.9	14.8	mg/l	0	2/wk	Composite
	PERMIT REQUIREMENT	192	309		N/A	N/A	N/A			3	Composite
TN	SAMPLE MEASUREMENT	757.7	851.5	lbs/day	52.5	68.3	80.0	mg/l	0	2/wk	Composite
	PERMIT REQUIREMENT	1200	2100		N/A	N/A	N/A			3	Composite
TOTAL AMMONIA	SAMPLE MEASUREMENT				16.6	23.7	34.6	mg/l	0	1/wk	Composite
	PERMIT REQUIREMENT				N/A	N/A	133			"	"

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

VIRGIL SHOUSE
Manager, Cannery Manufacturing
TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 *(Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years.)*

V.W. Shouse 2/15/98
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE | NUMBER

DATE: YEAR | MO | DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS *(Reference all attachments here)*

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if different)*

NAME: STAR KIST SAMOA, INC

ADDRESS: P. BOX 368
PAGO PAGO AMERICAN SAMOA, 96799

FACILITY

LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM *(NPDES)*

DISCHARGE MONITORING REPORT *(DMR)*

Form Approved
OMB No. 2040-0004
Expires 3-31-88

(2-16) PERMIT NUMBER	*(17-19)* DISCHARGE NUMBER
AS 0000019	001

MONITORING PERIOD

FROM YEAR *(20-21)*	MO *(22-23)*	DAY *(24-25)*	TO YEAR *(26-27)*	MO *(28-29)*	DAY *(30-31)*
1997	11	01	1997	11	31

NOTE: Read instructions before completing this form.

PARAMETER *(32-37)*		*(3 Card Only)* QUANTITY OR LOADING *(46-53)* AVERAGE	*(54-61)* MAXIMUM	UNITS	*(4 Card Only)* QUALITY OR CONCENTRATION *(38-45)* MINIMUM	*(46-53)* AVERAGE	*(54-61)* MAXIMUM	UNITS	NO. EX *(62-63)*	FREQUENCY OF ANALYSIS *(64-68)*	SAMPLE TYPE *(69-70)*
TEMPERATUR	SAMPLE MEASUREMENT					84	95		0	Continuous	
	PERMIT REQUIREMENT					90	95				
pH	SAMPLE MEASUREMENT				6.2		9.4		0	Continuous	
	PERMIT REQUIREMENT				6.5		8.6				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
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	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

VIRGIL SHOUSE
Manager, Cannery Manufacturing
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2/18/98
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE | NUMBER

DATE: YEAR | MO | DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS *(Reference all attachments here)*

We had one pH reading whicw was below 6.5 and one above 8.6 through out the month. We did not exceed the one hour individual excurtion limit or the total of seven hours and twentysix minutes for the calendar month. This is not considered a violation.

Wastewater Summary Report for the month of December 1997

Date	Production Tons	Flow mgd	Alum #/day	Poly #/day	Max Temp F	pH Limits Lo	pH Limits Hi	Oil &Grease Eff mg/l	Oil &Grease Total #/day	TSS Eff mg/l	TSS Total #/day	TP Eff mg/l	TP Total #/day	TN Eff mg/l	TN Total #/day	Total Ammonia Eff mg/l	BOD Eff mg/l
1	480.236	1.7040	647.5	21.0	79	6.6	8.4										
2	503.413	1.8626	739.0	22.6	79	6.4	8.6										
3	484.710	1.7480	817.5	21.4	81	6.7	7.3	29.8	433.2	110.0	1599.0	9.5	138.1	57.5	835.8	10.2	
4	506.011	1.6613	837.1	23.2	81	6.4	8.0	60.6	837.2	183.3	2532.4	9.9	136.8	60.0	828.9		
5	480.837	1.5780	680.2	21.2	86	6.4	7.4										
6		0.4219	209.3	7.5	92	6.8	7.0										
7		0.7320	215.8	11.3	85	6.9	7.4										
8	315.741	1.3375	542.8	20.2	84	6.6	7.5										
9	311.483	1.4562	497.0	21.4	81	6.2	7.8										
10	323.180	1.6868	725.9	24.8	83	6.8	7.4	9.7	136.1	64.0	897.8	14.5	203.4	62.5	876.7	9.0	
11	292.690	1.4916	621.3	23.0	84	6.5	7.4	20.2	250.6	95.3	1182.1	15.7	194.7	62.5	775.3		338.9
12	323.529	1.6521	811.0	24.9	82	6.7	7.4										
13	319.717	1.0959	569.0	16.4	86	6.5	7.3										
14		0.8945	307.4	11.7	86	7.0	7.4										
15	526.700	1.3369	693.2	24.8	83	6.8	7.4										
16	510.133	1.6553	647.5	24.0	84	6.7	7.6										
17	552.144	1.7561	725.9	22.8	86	6.7	8.4	36.6	534.5	162.0	2365.8	14.5	211.8	77.5	1131.8	21.0	
18	381.964	1.6303	667.1	23.6	87	6.4	8.2	55.1	747.0	136.7	1853.3	12.5	169.5	75.0	1016.8		268.0
19	488.042	1.5759	712.9	22.6	87	6.7	7.2										
20	SHUT DOWN	0.4651	281.2	4.3	90	6.8	7.0										
21	SHUT DOWN	0.2696	111.2	3.2	84	7.0	7.2										
22	SHUT DOWN	0.6170	196.2	7.5	78	6.8	7.5										
23	SHUT DOWN	0.4577	150.4	5.5	79	7.0	7.8										
24	SHUT DOWN	0.5265	202.7	4.2	78	6.9	7.6										
25	SHUT DOWN	0.2197	111.2	2.8	76	7.0	7.0										
26	SHUT DOWN	0.5877	163.5	4.8	78	6.9	7.2										
27	SHUT DOWN	0.3331	98.1	3.4	80	6.8	7.4										
28	SHUT DOWN	0.3662	52.3	1.6	77	6.8	7.4										
29	SHUT DOWN	0.5033	170.0	3.4	79	6.8	8.0										
30	SHUT DOWN	0.2761	78.5	3.8	77	7.1	7.5										
31	SHUT DOWN	0.3102	65.4	2.0	82	6.9	7.3										
TOT	6800.530	32.2091	13348.1	435.4					2938.6		10430.4		1054.3		5465.3		
AVG	425.033	1.0390	430.6	14.0	82			35.3	489.8	125.2	1738.4	12.8	175.7	65.8	910.9	13.4	303.5

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if different)*

NAME: STAR KIST SAMOA, INC

ADDRESS: P. BOX 368
PAGO PAGO AMERICAN SAMOA 96799

FACILITY

LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM *(NPDES)*

DISCHARGE MONITORING REPORT *(DMR)*

(2-16) PERMIT NUMBER	*(17-19)* DISCHARGE NUMBER
AS 0000019	001

MONITORING PERIOD	YEAR	MO	DAY		YEAR	MO	DAY
FROM	1997	12	01	TO	1997	12	31
	(20-21)	*(22-23)*	*(24-25)*		*(26-27)*	*(28-29)*	*(30-31)*

Form Approved
OMB No. 2040-0004
Expires 3-31-88

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PARAMETER *(32-37)*		*(3 Card Only)* QUANTITY OR LOADING *(46-53)* AVERAGE	*(54-61)* MAXIMUM	UNITS	*(4 Card Only)* QUALITY OR CONCENTRATION *(38-45)* MINIMUM	*(46-53)* AVERAGE	*(54-61)* MAXIMUM	UNITS	NO. EX *(62-63)*	FREQUENCY OF ANALYSIS *(64-68)*	SAMPLE TYPE *(69-70)*
FLOW	SAMPLE MEASUREMENT	1.0390	1.8626	mgd					0	Continuous	
	PERMIT REQUIREMENT		2.9							"	"
BOD_5	SAMPLE MEASUREMENT				268.0	303.5	338.9	mg/l	0	2/mon	Composite
	PERMIT REQUIREMENT				N/A	N/A	N/A			"	"
TSS	SAMPLE MEASUREMENT	1738.4	2532.4	lbs/day	64.0	125.2	183.3	mg/l	0	2/wk	Composite
	PERMIT REQUIREMENT	2653	6673		N/A	N/A	N/A			"	"
OIL & GREASE	SAMPLE MEASUREMENT	489.8	837.2	lbs/day	9.7	35.3	60.6	mg/l	0	2/wk	Grab (4)
	PERMIT REQUIREMENT	675	1688		N/A	N/A	N/A			2/wk	Grab (2)
TP	SAMPLE MEASUREMENT	175.7	211.8	lbs/day	9.5	12.8	15.7	mg/l	0	2/wk	Composite
	PERMIT REQUIREMENT	192	309		N/A	N/A	N/A			3	Composite
TN	SAMPLE MEASUREMENT	910.9	1131.8	lbs/day	57.5	65.8	77.5	mg/l	0	2/wk	Composite
	PERMIT REQUIREMENT	1200	2100		N/A	N/A	N/A			3	Composite
TOTAL AMMONIA	SAMPLE MEASUREMENT				9.0	13.4	21.0	mg/l	0	1/wk	Composite
	PERMIT REQUIREMENT				N/A	N/A	133			"	"

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

VIRGIL SHOUSE
Manager, Cannery Manufaction
TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 *(Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years.)*

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

2/18/97

TELEPHONE: AREA CODE | NUMBER

DATE: YEAR | MO | DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS *(Reference all attachments here)*

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if different)*

NAME: STAR KIST SAMOA, INC

ADDRESS: P. BOX 368
PAGO PAGO AMERICAN SAMOA 96799

FACILITY

LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM *(NPDES)*

DISCHARGE MONITORING REPORT *(DMR)*

Form Approved
OMB No. 2040-0004
Expires 3-31-88

(2-16) PERMIT NUMBER	*(17-19)* DISCHARGE NUMBER
AS 0000019	001

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	1997	12	01	TO	1997	12	31
	(20-21)	*(22-23)*	*(24-25)*		*(26-27)*	*(28-29)*	*(30-31)*

NOTE: Read instructions before completing this form.

PARAMETER *(32-37)*		*(3 Card Only)* QUANTITY OR LOADING *(46-53)* AVERAGE	*(54-61)* MAXIMUM	UNITS	*(4 Card Only)* QUALITY OR CONCENTRATION *(38-45)* MINIMUM	*(46-53)* AVERAGE	*(54-61)* MAXIMUM	UNITS	NO. EX *(62-63)*	FREQUENCY OF ANALYSIS *(64-68)*	SAMPLE TYPE *(69-70)*
TEMPERATURE	SAMPLE MEASUREMENT					82	92		0	Continuous	
	PERMIT REQUIREMENT					90	95			"	"
pH	SAMPLE MEASUREMENT				6.2		8.6		0	Continuous	
	PERMIT REQUIREMENT				6.5		8.6			"	"
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

VIRGIL SHOUSE
Manager, Cannery Manufacturing
TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 USC § 1001 AND 33 USC § 1319. *(Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years.)*

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

2/18/98

TELEPHONE: AREA CODE / NUMBER

DATE: YEAR / MO / DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS *(Reference all attachments here)*

We had five pH readings which were below 6.5through out the month. We did not exceed the one hour individual excurtion limit or the total of seven hours and twenty six minutes for the calendar month. This is not considered a violation.

Wastewater Summary Report for the month of January 1998

Date	Production Tons	Flow mgd	Alum #/day	Poly #/day	Max Temp F	pH Limits Lo	pH Limits Hi	Oil & Grease Eff mg/l	Oil & Grease Total #/day	TSS Eff mg/l	TSS Total #/day	TP Eff mg/l	TP Total #/day	TN Eff mg/l	TN Total #/day	Total Ammonia Eff mg/l	BOD Eff mg/l
1		0.2274	45.8	2.2	81	6.9	7.0										
2		0.3101	117.7	4.4	80	7.0	7.4										
3		0.4077	117.7	4.2	78	6.9	7.4										
4		1.0848	457.8	16.0	83	6.7	8.7										
5	472.881	1.7470	758.6	22.2	84	6.4	7.8										
6	444.112	1.7489	863.3	25.1	84	6.4	7.4										
7	466.757	1.9005	830.6	24.2	86	6.7	7.4	52.6	831.3	128.0	2023.0	6.7	105.9	62.5	987.8	7.8	
8	444.024	2.1280	837.1	26.5	89	6.6	7.4	10.4	184.0	89.3	1580.3	8.8	155.7	72.5	1283.0		289.5
9	499.671	2.1433	791.3	25.1	88	6.7	7.2										
10	482.947	1.6592	582.1	20.8	86	6.8	7.3										
11		1.0243	451.3	17.6	86	7.0	7.3										
12	514.484	1.8410	627.8	20.2	84	6.8	7.6										
13	503.726	1.7669	693.2	23.4	84	6.7	7.0										
14	509.934	1.8126	732.5	20.4	84	6.7	7.0	6.9	104.0	49.3	743.1	7.1	107.0	67.5	1017.5	14.0	
15	483.448	1.5024	797.9	22.6	81	6.6	7.2	7.8	97.5	70.7	883.3	10.8	134.9	80.0	999.5		163.7
16	506.959	1.2524	523.2	18.0	82	6.6	8.4										
17		0.3553	130.8	5.3	86	6.5	7.0										
18		0.4439	98.1	4.2	88	6.6	7.0										
19		1.4062	549.4	14.7	86	6.6	7.5										
20	528.184	1.6358	647.5	24.0	86	6.5	7.4										
21	534.395	1.8258	660.5	23.8	86	6.7	7.4	90.3	1371.1	199.3	3026.0	9.3	141.2	77.5	1176.7	12.6	
22	516.245	1.6175	686.7	20.8	87	6.5	7.1	27.1	364.5	110.0	1479.6	10.0	134.5	67.5	908.0		
23	493.270	1.6700	601.7	18.6	88	6.7	8.0										
24		0.3886	215.8	6.1	91	6.7	7.2										
25		0.7200	228.9	6.7	83	6.7	7.2										
26		0.7829	281.2	9.5	82	6.9	7.2										
27	521.329	1.7921	647.5	20.8	85	6.7	7.4										
28	479.347	1.7738	693.2	20.6	86	6.5	7.6	7.9	116.5	43.3	638.7	7.6	112.1	82.5	1217.0	15.8	
29	502.744	1.7630	693.2	18.6	84	6.3	7.4	21.4	313.7	36.0	527.8	11.2	164.2	82.5	1209.5		
30	509.056	1.7003	621.3	18.2	82	6.5	7.3										
31		1.0492	340.1	10.3	86	6.7	7.6										
TOT	9413.513	41.4809	16323.8	515.1					3382.6		10901.8		1055.5		8799.0		
AVG	495.448	1.3381	526.6	16.6	85			28.1	422.8	90.7	1362.7	8.9	131.9	74.1	1099.9	12.6	226.6

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME STAR KIST SAMOA, INC

ADDRESS P. Box 368

PAGO PAGO, AMERICAN SAMOA 96799

FACILITY

LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004
Expires 3-31-88

(2-16)	(17-19)
AS 0000019	001
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	1998	01	01	TO	1998	01	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
FLOW	SAMPLE MEASUREMENT	1.3381	2.1433	mgd					0	Continuous	
	PERMIT REQUIREMENT		2.9							"	"
BOD5	SAMPLE MEASUREMENT				163.7	226.6	289.5	mg/l	0	2/monComposite	
	PERMIT REQUIREMENT				N/A	N/A	N/A			"	"
TSS	SAMPLE MEASUREMENT	1362.7	3026.0	lbs/day	36.0	90.7	199.3	mg/l	0	2/wk Composite	
	PERMIT REQUIREMENT	2653	6673		N/A	N/A	N/A			"	"
OIL & GREASE	SAMPLE MEASUREMENT	422.8	1371.1	lbs/day	6.9	28.1	90.3	mg/l	0	2/wk Grab (4)	
	PERMIT REQUIREMENT	675	1688		N/A	N/A	N/A			2/wk Grab (2)	
TP	SAMPLE MEASUREMENT	131.9	164.2	lbs/day	6.7	8.9	11.2	mg/l	0	2/wk Composite	
	PERMIT REQUIREMENT	192	309		N/A	N/A	N/A			3 Composite	
TN	SAMPLE MEASUREMENT	1099.9	1283.0	lbs/day	62.5	74.1	82.5	mg/l	0	2/wk Composite	
	PERMIT REQUIREMENT	1200	2100		N/A	N/A	N/A			3 Composite	
TOTAL AMMONIA	SAMPLE MEASUREMENT				7.8	12.6	15.8	mg/l	0	1/wk Composite	
	PERMIT REQUIREMENT				N/A	N/A	133			"	"

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

VIRGIL SHOUSE
Manager, Cannery Manufacturing
TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 (Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years.)

[signature] 2/15/98
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE		DATE		
AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if different)*

NAME: STAR KIST SAMOA, INC

ADDRESS: P. BOX 368

PAGO PAGO AMERICAN SAMOA, 96799

FACILITY

LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM *(NPDES)*

DISCHARGE MONITORING REPORT *(DMR)*

(2-16) PERMIT NUMBER	*(17-19)* DISCHARGE NUMBER
AS 0000019	001

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	1998	01	01	TO	198	01	31
	(20-21)	*(22-23)*	*(24-25)*		*(26-27)*	*(28-29)*	*(30-31)*

Form Approved
OMB No. 2040-0004
Expires 3-31-88

NOTE: Read instructions before completing this form.

PARAMETER *(32-37)*		*(3 Card Only)* QUANTITY OR LOADING *(46-53)* AVERAGE	*(54-61)* MAXIMUM	UNITS	*(4 Card Only)* QUALITY OR CONCENTRATION *(38-45)* MINIMUM	*(46-53)* AVERAGE	*(54-61)* MAXIMUM	UNITS	NO. EX *(62-63)*	FREQUENCY OF ANALYSIS *(64-68)*	SAMPLE TYPE *(69-70)*
TEMPERATURE	SAMPLE MEASUREMENT					85	91		0	Continuous	
	PERMIT REQUIREMENT					90	95			"	"
pH	SAMPLE MEASUREMENT				6.3		8.7		0	Continuous	
	PERMIT REQUIREMENT				6.5		8.6			"	"
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

VIRGIL SHOUSE
Manager, Cannery Manufacturing
TYPED OR PRINTED

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SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

2/18/98

TELEPHONE: AREA CODE | NUMBER

DATE: YEAR | MO | DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS *(Reference all attachments here)*

We had three pH readings which were below 6.5 and one above 8.6 through out the month. We did not exceed the one hour individual excurtion limit or the total of seven hours and twenty six minutes for the calendar month. This is not considered a violation.

StarKist Samoa, Inc.

November 21, 1997

Mr . Norman Lovelace
OPINAP (E - 4)
U . S . EPA Region 9
75 Hawthorne Street
San Francisco , CA 94105

Mr . Togipa Tausaga
ASEPA
Office of the Governor
American Samoa Government
Pago Pago , American Samoa 96799

Gentlemen :

Re : **Discharge Monitoring Report for the Months of August, September and October 1997 under NPDES No . 0000019 as issued to Star Kist Samoa ,INC .**

Attached is Star Kist Samoa's Discharge Monitoring Reports covering the months of August, September and October 1997 .

Star Kist Samoa met all Effluent limits.

Sincerely

Virgil Shouse
Manager , Cannery Manufacturing

VS \ ls : \ npdes \samoa

Attachments :
c : : Ms. Sheila Wiegman
Ms. Pat Young
Mr. Norman Wei
Mr. Barry Mills

Wastewater Summary Report for the month of August 1997

Date	Production Tons	Flow mgd	Alum #/day	Poly #/day	Max Temp F	pH Limits Lo	pH Limits Hi	Oil &Grease Eff mg/l	Oil &Grease Total #/day	TSS Eff mg/l	TSS Total #/day	TP Eff mg/l	TP Total #/day	TN Eff mg/l	TN Total #/day	Total Ammonia Eff mg/l	BOD Eff mg/l
1	446.744	1.0254	497.0	17.8	85	6.8	7.3										
2		0.6149	242.0	9.1	88	6.9	7.4										
3		0.5459	255.1	8.1	82	7.0	7.3										
4	502.528	1.4395	830.6	21.4	83	6.5	8.0										
5	508.046	1.3144	588.6	18.2	81	6.4	7.2	13.6	148.7	88.0	961.9	10.1	110.4	57.5	628.5	9.9	
6	503.777	1.4580	680.2	21.0	82	6.9	7.4	12.3	149.1	121.0	1467.1	9.8	118.8	70.0	848.7	12.9	267.1
7	511.420	1.4531	660.5	21.6	84	6.6	7.3										
8	502.458	1.1668	582.1	15.8	84	6.8	7.0										
9		0.5510	261.6	9.3	88	6.8	7.6										
10		0.8824	484.0	13.3	81	6.9	7.3										
11	507.924	0.9918	555.9	13.9	82	6.7	8.3										
12	505.394	0.9963	660.5	17.6	78	6.8	7.4										
13	518.508	1.5509	745.6	17.2	76	6.8	7.1	5.0	64.5	110.0	1418.7	9.4	121.2	77.5	999.5	14.1	
14	503.875	1.3122	686.7	19.8	82	6.8	7.4	17.9	195.3	114.0	1244.0	9.6	104.8	72.5	791.1	10.3	
15	480.425	1.1191	484.0	16.0	79	6.8	7.2										
16		0.4672	196.2	6.5	78	6.7	7.5										
17		0.7192	281.2	9.7	81	6.9	7.5										
18	517.494	1.4808	706.3	20.6	81	6.7	7.2										
19	507.680	1.4109	667.1	20.0	75	6.6	7.3	25.0	293.3	39.3	461.1	7.9	92.7	70.0	821.3	11.1	
20	518.010	1.4146	569.0	19.4	76	6.7	7.3										
21	513.805	1.2342	575.5	13.5	74	6.7	7.2	18.2	186.8	55.3	567.6	9.8	100.6	67.5	692.8	13.7	335.9
22	495.296	1.0536	529.7	12.7	76	6.8	7.8										
23		0.3707	124.3	4.0	85	7.0	8.4										
24		0.8093	360.0	11.5	72	7.0	7.4										
25	515.299	1.2833	680.2	16.0	74	6.8	8.4										
26	540.906	1.4848	712.9	16.6	79	6.7	7.7										
27	560.924	1.6429	850.2	22.0	78	6.9	7.1	23.4	319.7	52.0	710.4	7.5	102.5	70.0	956.4	13.2	
28	529.924	1.4560	778.3	20.6	81	6.8	7.9	40.6	491.6	110.7	1340.4	13.6	164.7	110.0	1331.9	25.5	
29	512.749	1.3428	680.2	15.6	82	6.8	7.2										
30		0.4455	255.1	7.1	90	6.7	7.4										
31		0.2601	176.6	2.0	71	7.0	7.2										
TOT	10703.186	33.2974	16357.2	457.9					1849.0		8171.2		915.6		7070.2		
AVG	509.676	1.0741	527.7	14.8	80			19.5	231.1	86.3	1021.4	9.7	114.5	74.4	883.8	13.8	301.5

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME: STAR KIST SAMOA, INC

ADDRESS: P.O.BOX 368
PAGO PAGO, AMERICAN SAMOA 96799

FACILITY

LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004
Expires 3-31-88

(2-16) PERMIT NUMBER: AS 0000019

(17-19) DISCHARGE NUMBER: 001

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	1997	08	01	TO	1997	08	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) (46-53) QUANTITY OR LOADING (54-61) AVERAGE	MAXIMUM	UNITS	(4 Card Only) (38-45) QUALITY OR CONCENTRATION (46-53) MINIMUM	AVERAGE	MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
FLOW	SAMPLE MEASUREMENT	1.0741	1.6429	mgd					0	continuous	
	PERMIT REQUIREMENT		2.9							"	"
BOD_5	SAMPLE MEASUREMENT				267.1	301.5	335.9	mg/l	0	2/mon composite	
	PERMIT REQUIREMENT				N/A	N/A	N/A			"	"
TSS	SAMPLE MEASUREMENT	1021.4	1467.1	lbs/day	39.3	86.3	121.0	mg/l	0	2/wk composite	
	PERMIT REQUIREMENT	2653	6673		N/A	N/A	N/A			"	"
OIL & GREASE	SAMPLE MEASUREMENT	231.1	491.6	lbs/day	5.0	19.5	40.6	mg/l	0	2/wk Grab (4)	
	PERMIT REQUIREMENT	675	1688		N/A	N/A	N/A			2/wk Grab(2)	
TP	SAMPLE MEASUREMENT	114.5	164.7	lbs/day	7.5	9.7	13.6	mg/l	0	2/wk composite	
	PERMIT REQUIREMENT	192	309		N/A	N/A	N/A			3 composite	
TN	SAMPLE MEASUREMENT	883.8	1331.9	lbs/day	57.5	74.4	110.0	mg/l	0	2/wk composite	
	PERMIT REQUIREMENT	1200	2100		N/A	N/A	N/A			3 composite	
TOTAL AMMONIA	SAMPLE MEASUREMENT				9.9	13.8	25.5	mg/l	0	1/wk composite	
	PERMIT REQUIREMENT				N/A	N/A	133			"	"

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

VIRGIL SHOUSE
Manager, Cannery Manufacturing
TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 USC § 1001 AND 33 USC § 1319. (Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years.)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE | NUMBER

DATE: YEAR | MO | DA

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME STAR KIST SAMOA, INC

ADDRESS P.O. BOX 368
PAGO PAGO, AMERICAN SAMOA 96799

FACILITY

LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

(1-16)

AS 0000019
PERMIT NUMBER

(17-19)

001
DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	1997	08	01	TO	1997	08	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

Form Approved
OMB No. 2040 0004
Expires 3-31-88

NOTE: Read instructions before completing this form.

PARAMETER (32-47)		(5 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
TEMPERATURE	SAMPLE MEASUREMENT					80	90	°F	0	continuous	
	PERMIT REQUIREMENT					90	95			"	"
pH	SAMPLE MEASUREMENT				6.4		8.4		0	continuous	
	PERMIT REQUIREMENT				6.5		8.6			"	"
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

VIRGIL SHOUSE
Manager Cannery, Manufacturing
TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 USC § 1001 AND 33 USC § 1319. *(Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years.)*

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE — AREA CODE | NUMBER

DATE — YEAR | MO | DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS *(Reference all attachments here)*

We had one pH reading which was below 6.5 through out the month. We did not exceed the one hour individual excursion limit or the total of seven hours and twenty six minutes for the calendar month. This is not considered a violation.

Wastewater Summary Report for the month of September 1997

Date	Production Tons	Flow mgd	Alum #/day	Poly #/day	Max Temp F	pH Limits Lo	pH Limits Hi	Oil &Grease Eff mg/l	Oil &Grease Total #/day	TSS Eff mg/l	TSS Total #/day	TP Eff mg/l	TP Total #/day	TN Eff mg/l	TN Total #/day	Total Ammonia Eff mg/l	BOD Eff mg/l
1		0.8380	385.9	10.3	78	6.5	7.3										
2	533.176	1.5205	706.3	20.8	78	6.8	8.4										
3	543.701	1.7071	909.1	26.3	81	6.7	7.2	21.2	301.0	86.0	1220.9	5.7	80.9	65.0	922.8	13.1	
4	527.107	1.4687	608.2	22.8	79	6.6	7.3	15.2	185.6	65.3	797.6	6.3	76.9	55.0	671.8	16.2	
5	558.716	1.1651	431.6	18.0	84	6.8	7.2										
6		0.1972	98.1	3.0	76	6.8	7.2										
7		0.9339	392.4	13.3	78	7.0	7.4										
8	541.710	1.2227	549.4	18.6	78	6.8	7.3										
9	536.096	1.4127	549.4	19.8	83	6.7	7.4										
10	515.125	1.4454	680.2	22.4	81	6.8	7.2	20.9	251.2	90.0	1081.8	7.1	85.3	65.0	781.3	17.9	484.7
11	519.208	1.6109	693.2	23.8	86	6.3	7.4	11.8	158.1	85.3	1142.7	7.6	101.8	55.0	736.8	19.3	
12	518.273	1.3974	582.1	17.6	86	6.9	7.2										
13		0.4193	176.6	6.5	92	6.9	7.4										
14		1.1180	484.0	14.5	86	6.5	7.4										
15	515.817	1.4882	745.6	22.4	82	6.8	7.4										
16	511.144	1.2062	588.6	17.6	82	6.3	7.2										
17	510.893	1.4876	660.5	20.4	85	6.8	7.1	29.9	369.9	85.3	1055.2	10.2	126.2	57.5	711.3	16.4	
18	524.388	1.3119	739.0	22.4	84	6.9	7.2	16.3	177.8	62.0	676.4	8.5	92.7	72.5	791.0	17.5	225.4
19	510.193	1.1638	536.3	16.4	86	6.8	7.4										
20		0.4099	242.0	9.1	89	6.4	7.4										
21		1.2100	542.8	16.4	78	6.6	8.0										
22	532.037	1.6775	863.3	21.2	78	6.7	7.9										
23	538.415	1.8320	837.1	18.0	82	6.7	7.6										
24	522.950	1.5929	850.0	20.8	90	6.7	7.2										
25	516.520	1.6544	778.3	26.5	82	6.6	7.2	22.0	302.7	92.7	1275.4	8.9	122.4	67.5	928.7	15.5	
26	491.443	1.3007	660.5	18.6	86	6.7	7.2	18.9	204.4	89.3	965.9	10.8	116.8	70.0	757.2	15.4	
27		0.4836	235.4	6.1	90	6.8	7.2										
28		0.7386	274.7	8.1	86	7.0	7.4										
29	543.143	1.5962	693.2	21.4	82	6.8	7.4										
30	513.013	1.4861	771.7	23.6	84	6.8	7.4	16.8	207.6	45.3	559.8	7.8	96.4	75.0	926.9	11.8	
TOT	11023.068	37.0965	17265.5	526.7					2158.3		8775.7		899.4		7227.8		
AVG	524.908	1.2366	575.5	17.6	83			19.2	239.8	77.9	975.1	8.1	99.9	64.7	803.1	15.9	355.1

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME: STAR KIST SAMOA, INC

ADDRESS: P.O.BOX 368
PAGO PAGO, AMERICAN SAMOA 96799

FACILITY

LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

(2-16) PERMIT NUMBER	(17-19) DISCHARGE NUMBER
AS 0000019	001

MONITORING PERIOD

FROM YEAR (20-21)	MO (22-23)	DAY (24-25)	TO YEAR (26-27)	MO (28-29)	DAY (30-31)
1997	09	01	1997	09	30

Form Approved
OMB No. 2040-0004
Expires 3-31-88

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
FLOW	SAMPLE MEASUREMENT	1.2366	1.8320	mgd					0	continuous	
	PERMIT REQUIREMENT		2.9							"	"
BOD_5	SAMPLE MEASUREMENT				225.4	355.1	484.7	mg/l	0	2/mon	composite
	PERMIT REQUIREMENT				N/A	N/A	N/A			"	"
TSS	SAMPLE MEASUREMENT	975.1	1275.4	lbs/day	45.3	77.9	92.7	mg/l	0	2/wk	composite
	PERMIT REQUIREMENT	2653	6673		N/A	N/A	N/A			"	"
OIL & GREASE	SAMPLE MEASUREMENT	239.8	369.9	lbs/day	11.8	19.2	29.9	mg/l	0	2/wk	Grab (4)
	PERMIT REQUIREMENT	675	1688		N/A	N/A	N/A			2/wk	Grab (2)
TP	SAMPLE MEASUREMENT	99.9	126.2	lbs/day	5.7	8.1	10.8	mg/l	0	2/wk	composite
	PERMIT REQUIREMENT	192	309		N/A	N/A	N/A			3	composite
TN	SAMPLE MEASUREMENT	803.1	928.7	lbs/day	55.0	64.7	75.0	mg/l	0	2/wk	composite
	PERMIT REQUIREMENT	1200	2100		N/A	N/A	N/A			3	composite
TOTAL AMMONIA	SAMPLE MEASUREMENT				11.8	15.9	19.3	mg/l	0	1/wk	composite
	PERMIT REQUIREMENT				N/A	N/A	133			"	"

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

VIRGIL SHOUSE
Manager, Cannery Manufacturing
TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 *(Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years)*

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE | NUMBER

DATE: YEAR | MO | DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS *(Reference all attachments here)*

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME: STAR KIST SAMOA

ADDRESS: P.O. BOX 368
PAGO PAGO AMERICAN SAMOA
96799

FACILITY

LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004
Expires 3-31-88

PERMIT NUMBER (2-16)	DISCHARGE NUMBER (17-19)
AS 0000019	001

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	1997	09	01	TO	1997	09	30
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
TEMPERATURE	SAMPLE MEASUREMENT					83	92		0	Continuous	
	PERMIT REQUIREMENT					90	95			"	"
pH	SAMPLE MEASUREMENT				6.3		8.4		0	Continuous	
	PERMIT REQUIREMENT				6.5		8.6			"	"
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years.)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE | NUMBER

DATE: YEAR | MO | DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

We had three pH readings which were below 6.5 through out the month. We did not exceed the one hour individual excursion limit or the total of seven hours and twenty six minutes for the calendar month. These are not considered a violation.

Wastewater Summary Report for the month of October 1997

Date	Production Tons	Flow mgd	Alum #/day	Poly #/day	Max Temp F	pH Limits Lo	pH Limits Hi	Oil & Grease Eff mg/l	Oil & Grease Total #/day	TSS Eff mg/l	TSS Total #/day	TP Eff mg/l	TP Total #/day	TN Eff mg/l	TN Total #/day	Total Ammonia Eff mg/l	BOD Eff mg/l
1	473.952	1.4158	595.1	18.0	81	6.9	7.3	19.5	229.6	84.7	997.2	9.2	108.3	82.5	971.3	13.3	
2	499.527	1.5021	778.3	20.4	82	6.7	7.5										
3	465.550	1.2926	660.5	18.6	84	6.9	7.5										
4		0.5944	248.5	8.3	91	6.9	7.2										
5		0.7243	359.7	9.7	78	6.8	7.5										
6	498.896	1.6107	686.7	25.1	78	6.6	8.5										
7	487.204	1.7764	902.5	22.4	84	6.8	7.2										
8	497.703	1.6765	778.3	24.8	79	6.8	7.1										
9	475.034	1.6778	778.3	24.2	82	6.5	7.2	34.1	475.8	86.7	1209.7	8.2	114.4	80.0	1116.2	13.6	
10	451.254	1.4315	706.3	22.6	88	6.9	7.2	41.5	494.0	47.3	563.1	8.6	102.4	82.5	982.1	15.1	
11		0.6893	327.0	8.5	91	6.9	7.4										
12		0.3098	85.0	2.4	87	6.9	7.5										
13	Shut Down	0.2795	65.4	3.2	78	7.0	7.4										
14	Shut Down	Plant Off	Plant Off	Plant Off	Plant Off	Plant Off	Plant Off										
15	Shut Down	0.1549	78.5	1.4	74	7.2	7.6										
16	Shut Down	0.7746	32.7	1.0	75	7.2	7.2										
17	Shut Down	0.6738	32.7	1.0	75	7.1	7.1										
18	Shut Down	0.7746	19.6	1.0	77	7.2	7.3										
19		1.0952	431.6	11.3	86	6.9	7.6										
20	483.179	1.5842	660.5	20.0	78	6.9	8.0										
21	489.635	1.8778	843.7	22.0	82	6.8	7.2										
22	447.197	1.8763	797.9	21.2	85	6.8	7.4	11.5	179.4	47.3	738.0	7.3	113.9	52.5	819.2	20.0	165.6
23	504.460	1.8048	784.8	23.6	82	6.8	7.3	32.6	489.3	85.3	1280.2	10.2	153.1	65.0	975.6	16.5	
24	506.357	1.6429	640.9	21.2	85	7.0	7.2										
25		0.3947	215.8	7.5	80	6.8	7.2										
26		1.1920	359.7	14.5	83	6.8	7.4										
27	500.177	1.8040	673.6	25.7	82	6.8	7.4										
28	506.035	1.7577	680.2	23.8	80	6.8	7.3										
29	513.117	1.8727	752.1	23.0	78	6.6	7.3	34.2	532.6	53.3	830.1	9.6	149.5	57.5	895.5	24.5	
30	523.313	1.7486	850.2	23.2	88	6.8	7.1	61.7	897.2	104.7	1522.5	7.3	106.2	50.0	727.1	20.0	346.4
31	473.397	1.3919	569.0	18.4	92	6.8	7.2										
TOT	8795.987	37.4014	15395.1	468.0					3297.5		7140.8		847.8		6487.0		
AVG	488.666	1.2467	513.2	15.6	82			33.6	471.1	72.8	1020.1	8.6	121.1	67.1	926.7	17.6	256.0

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)
NAME STAR KIST SAMOA, INC
ADDRESS P.O.BOX 368
PAGO PAGO, AMERICAN SAMOA 96799

FACILITY
LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004
Expires 3-31-98

(2-16) AS 0000019 PERMIT NUMBER

(17-19) 001 DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	1997 (20-21)	10 (22-23)	01 (24-25)	TO	1997 (26-27)	10 (28-29)	31 (30-31)

NOTE: Read instructions before completing this form.

PARAMETER (42-57)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
FLOW	SAMPLE MEASUREMENT	1.2467	1.8778	mgd					0	continuous	
	PERMIT REQUIREMENT		2.9							"	"
BOD_5	SAMPLE MEASUREMENT				165.6	256.0	346.4	mg/l	0	2/mon	composite
	PERMIT REQUIREMENT				N/A	N/A	N/A			"	"
TSS	SAMPLE MEASUREMENT	1020.1	1522.5	lbs/day	47.3	72.8	104.7	mg/l	0	2/wk	composite
	PERMIT REQUIREMENT	2653	6673		N/A	N/A	N/A			"	"
OIL & GREASE	SAMPLE MEASUREMENT	471.1	897.2	lbs/day	11.5	33.6	61.7	mg/l	0	2/wk	Grab ( )
	PERMIT REQUIREMENT	675	1688		N/A	N/A	N/A				
TP	SAMPLE MEASUREMENT	121.1	153.1	lbs/day	7.3	8.6	10.2	mg/l	0	2/wk	composite
	PERMIT REQUIREMENT	192	309		N/A	N/A	N/A			3	composite
TN	SAMPLE MEASUREMENT	926.7	1116.2	lbs/day	50.0	67.1	82.5	mg/l	0	2/wk	composite
	PERMIT REQUIREMENT	1200	2100		N/A	N/A	N/A			3	composite
TOTAL AMMONIA	SAMPLE MEASUREMENT				13.3	17.6	24.5	mg/l	0	1/wk	composite
	PERMIT REQUIREMENT				N/A	N/A	133			"	"

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

VIRGIL SHOUSE
Manager Cannery Manufacturing
TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years.)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE | NUMBER

DATE: YEAR | MO | DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME: STAR KIST SAMOA INC

ADDRESS: P.O.BOX 368
PAGO PAGO AMERICAN SAMOA
96799

FACILITY

LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

(2-16)	(17-19)
AS 0000019	001
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	1997	10	01	TO	1997	10	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

Form Approved
OMB No. 2040-0004
Expires 3-31-88

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
TEMPERATURE	SAMPLE MEASUREMENT					82	92		0	Continuous	
	PERMIT REQUIREMENT					90	95			"	"
pH	SAMPLE MEASUREMENT				6.5		8.5			Continuous	
	PERMIT REQUIREMENT				6.5		8.6			"	"
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 USC § 1319. (Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years.)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE | NUMBER

DATE: YEAR | MO | DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

StarKist Samoa, Inc.

Mike -
note - 2
covers.

Rcd 9/3/97

August 22, 1997

Mr . Norman Lovelace
OPINAP (E - 4)
U . S . EPA Region 9
75 Hawthorne Street
San Francisco , CA 94105

Mr . Togipa Tausaga
ASEPA
Office of the Governor
American Samoa Government
Pago Pago , American Samoa 96799

Gentlemen :

Re : **Discharge Monitoring Report for the Months of May, June and July 1997 under NPDES No . 0000019 as issued to Star Kist Samoa ,INC .**

Attached is Star Kist Samoa's Discharge Monitoring Reports covering the months of May , June and July 1997 .

Star Kist Samoa met all Effluent limits.

Sincerely,

Virgil Shouse
Manager , Cannery Manufacturing

VS \ ls : \ npdes \samoa

Attachments :
cc : Ms. Sheila Wiegman
Ms. Pat Young
Mr. Norman Wei
Mr. Barry Mills

SUBMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME: STAR KIST SAMOA INC

ADDRESS: P.O.BOX 368
PAGO PAGO,AMERICAN SAMOA

FACILITY

LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004
Expires 3-31-88

(2-16) PERMIT NUMBER	(17-19) DISCHARGE NUMBER
AS 0000019	001

MONITORING PERIOD

	YEAR (20-21)	MO (22-23)	DAY (24-25)		YEAR (26-27)	MO (28-29)	DAY (30-31)
FROM	1997	05	01	TO	1997	05	31

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
FLOW	SAMPLE MEASUREMENT	1.0806	1.5401	mgd					0	Continuous	
	PERMIT REQUIREMENT		2.9							"	"
BOD 5	SAMPLE MEASUREMENT				371.5	395.5	419.5	mg/1	0	2/mon	Composite
	PERMIT REQUIREMENT				N/A	N/A	N/A			"	"
TSS	SAMPLE MEASUREMENT	1352.1	2451.1	lbs/day	51.3	122.5	212.0	mg/1	0	2/wk	Composite
	PERMIT REQUIREMENT	2653	6673		N/A	N/A	N/A			"	"
OIL & GREASE	SAMPLE MEASUREMENT	367.5	1000.1	lbs/day	10.7	33.2	86.5	mg/1	0	2/wk	Grab (4)
	PERMIT REQUIREMENT	675	1688		N/A	N/A	N/A			2/wk	Grab(2)
TP	SAMPLE MEASUREMENT	78.5	101.0	lbs/day	5.4	7.2	9.5	mg/1	0	2/wk	Composite
	PERMIT REQUIREMENT	192	309		N/A	N/A	N/A			3	Composite
TN	SAMPLE MEASUREMENT	658.6	735.1	lbs/day	51.0	60.3	68.9	mg/1	0	2/wk	Composite
	PERMIT REQUIREMENT	1200	2100		N/A	N/A	N/A			3	Composite
TOTAL AMMONIA	SAMPLE MEASUREMENT				13.0	24.5	36.5	mg/1	0	2/wk	Composite
	PERMIT REQUIREMENT				N/A	N/A	133			1	Composite

TITLE PRINCIPAL EXECUTIVE OFFICER

VIRGIL SHOUSE
Manager,Cannery Manufacturing
TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 (Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE | NUMBER

DATE: YEAR | MO | DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME: STAR KIST SAMOA, INC

ADDRESS: P. O. BOX 368
PAGO PAGO AMERICAN SAMOA 96799

FACILITY

LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004
Expires 3-31-88

(2-16) AS 0000019 PERMIT NUMBER

(17-19) 001 DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	1997	05	01	TO	1997	05	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
TEMPERATURE	SAMPLE MEASUREMENT					84	92	°F	0	Continuous	
	PERMIT REQUIREMENT					90	95			"	"
pH	SAMPLE MEASUREMENT				6.4		8.2		0	Continuous	
	PERMIT REQUIREMENT				6.5		8.6			"	"
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

VIRGIL SHOUSE
Manager, Cannery Manufacturing
TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 (Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years.)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE — AREA CODE | NUMBER

DATE — YEAR | MO | DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

We had few pH reading which were below 6.5 through the month. We did not exceed the one hour individual excursion limit or the total of seven hours and twenty minutes for the calendar month. These are not considered a violation.

Wastewater Summary Report for the month of May 1997

Date	Production Tons	Flow mgd	Alum #/day	Poly #/day	Max Temp F	pH Limits Lo	pH Limits Hi	Oil &Grease Eff mg/l	Oil &Grease Total #/day	TSS Eff mg/l	TSS Total #/day	TP Eff mg/l	TP Total #/day	TN Eff mg/l	TN Total #/day	Total Ammonia Eff mg/l	BOD Eff mg/l
1	463.199	1.3726	621.3	20.8	81	6.6	7.1	10.7	122.1	157.0	1792.1	7.3	83.0	62.2	710.0	19.8	
2	440.606	1.2785	529.7	17.4	87	6.6	7.2	11.6	123.3	136.0	1446.0	5.8	61.2	56.5	600.7		
3		0.6983	477.4	13.7	92	6.5	7.4										
4		0.8375	300.8	9.1	80	6.7	7.2										
5	462.770	1.1024	555.9	17.6	82	6.6	8.1										
6	459.116	1.2842	640.9	18.8	88	6.6	7.0										
7	466.475	1.2829	562.4	16.8	84	6.6	7.2	20.5	218.7	125.0	1333.6	9.5	101.0	68.9	735.1	36.5	
8	437.821	1.2197	608.2	19.6	84	6.5	7.3	20.0	202.9	93.0	943.3	8.9	90.6	61.7	625.8		
9	434.474	1.1782	470.9	15.6	91	6.7	7.4										
10		0.4959	202.7	5.5	83	6.7	7.2										
11		0.7338	255.1	8.1	87	6.9	7.5										
12	425.692	1.2269	588.6	19.2	84	6.6	7.6										
13	439.375	1.4721	667.1	24.4	85	6.5	7.4										
14	497.566	1.4777	758.6	24.9	84	6.7	7.3	18.9	232.3	61.3	753.3	6.9	84.2	55.7	684.5	32.2	371.5
15	471.925	1.5401	791.3	24.9	82	6.6	7.2	13.8	176.7	51.3	657.0						
16	440.719	1.1163	582.1	17.6	89	6.6	7.3										
17		0.5594	340.1	12.1	92	6.6	7.4										
18		0.7870	379.3	12.3	80	6.7	7.5										
19	453.724	1.3663	817.5	26.5	83	6.4	8.2										
20	439.167	1.2503	706.3	25.3	79	6.6	7.2	37.7	392.0	90.7	943.1	7.6	79.2	66.6	692.5	20.9	
21	467.790	1.2727	758.6	23.4	88	6.5	7.3	47.8	505.9	142.0	1502.9	7.6	80.0	65.4	692.2		
22	446.684	1.2829	640.9	23.8	84	6.7	8.0										
23	423.395	0.9666	444.7	13.5	89	6.7	7.4										
24		0.6728	412.0	11.3	89	6.4	7.2										
25		0.1133	45.8	2.4	81	6.8	6.8										
26		0.6297	392.4	9.7	78	6.4	8.0										
27	464.532	1.3454	797.9	19.6	77	6.7	7.8										
28	446.803	1.3035	843.7	21.0	82	6.7	7.1	64.7	701.3	156.7	1698.6	6.0	64.5	55.1	597.3	13.0	
29	463.588	1.3903	856.7	19.0	81	6.6	7.2	86.5	1000.1	212.0	2451.1	5.4	62.8	51.0	589.6		419.5
30	437.746	1.1106	516.7	19.2	84	6.7	7.3										
31	450.939	1.1321	601.7	16.8	81	6.5	7.1										
TOT	9934.106	33.5000	17167.3	529.9					3675.3		13521.0		706.5		5927.7		
AVG	451.550	1.0806	553.8	17.1	84			33.2	367.5	122.5	1352.1	7.2	78.5	60.3	658.6	24.5	395.5

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME: STAR KIST SAMOA, INC

ADDRESS: P.O.BOX 368
PAGO PAGO AMERICAN SAMOA 96799

FACILITY

LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004
Expires 3-31-88

(2-16) PERMIT NUMBER	(17-19) DISCHARGE NUMBER
AS 0000019	001

MONITORING PERIOD

FROM YEAR (20-21)	MO (22-23)	DAY (24-25)	TO YEAR (26-27)	MO (28-29)	DAY (30-31)
1997	06	01	1997	06	30

NOTE: Read instructions before completing this form.

PARAMETER (32-47)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
FLOW	SAMPLE MEASUREMENT	0.9720	1.4554	mgd					0	Continuous	
	PERMIT REQUIREMENT		2.9							"	"
BOD_5	SAMPLE MEASUREMENT				244.3	260.5	276.0	mg/l	0	2/mon	Composite
	PERMIT REQUIREMENT				N/A	N/A	N/A			"	"
TSS	SAMPLE MEASUREMENT	1175.1	1681.7	lbs/day	72.0	107.7	144.0	mg/l	0	2/wk	Composite
	PERMIT REQUIREMENT	2653	6673		N/A	N/A	N/A			"	"
OIL & GREASE	SAMPLE MEASUREMENT	319.7	797.6	lbs/day	13.8	29.1	68.3	mg/l	0	2/wk	Grab(4)
	PERMIT REQUIREMENT	675	1688		N/A	N/A	N/A			2/wk	Grab(2)
TP	SAMPLE MEASUREMENT	86.4	132.8	lbs/day	4.1	8.1	13.7	mg/l	0	2/wk	Composite
	PERMIT REQUIREMENT	192	309		N/A	N/A	N/A			3	Composite
TN	SAMPLE MEASUREMENT	560.9	654.3	lbs/day	36.1	52.0	68.7	mg/l	0	2/wk	Composite
	PERMIT REQUIREMENT	1200	2100		N/A	N/A	N/A			3	Composite
TOTAL AMMONIA	SAMPLE MEASUREMENT				12.2	15.9	18.8	mg/l	0	2/wk	Composite
	PERMIT REQUIREMENT				N/A	N/A	133			1/wk	Composite

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

VIRGIL SHOUSE
Manager Cannery Manufacturing
TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 (Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE — AREA CODE — NUMBER

DATE — YEAR — MO — DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if different)*

NAME: STAR KIST SAMOA, INC

ADDRESS: P.O.BOX 368
PAGO PAGO AMERICAN SAMOA 96799

FACILITY

LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM *(NPDES)*

DISCHARGE MONITORING REPORT *(DMR)*

(2-16) PERMIT NUMBER	*(17-19)* DISCHARGE NUMBER
AS 0000019	001

MONITORING PERIOD	YEAR	MO	DAY		YEAR	MO	DAY
FROM	1997	06	01	TO	1997	06	30
	(20-21)	*(22-23)*	*(24-25)*		*(26-27)*	*(28-29)*	*(30-31)*

Form Approved
OMB No. 2040-0004
Expires 3-31-88

NOTE: Read instructions before completing this form.

PARAMETER *(32-37)*		*(3 Card Only)* QUANTITY OR LOADING *(46-53)* AVERAGE	*(54-61)* MAXIMUM	UNITS	*(4 Card Only)* QUALITY OR CONCENTRATION *(38-45)* MINIMUM	*(46-53)* AVERAGE	*(54-61)* MAXIMUM	UNITS	NO. EX *(62-63)*	FREQUENCY OF ANALYSIS *(64-68)*	SAMPLE TYPE *(69-70)*
TEMPERATURE	SAMPLE MEASUREMENT					83	92		0	Continuous	
	PERMIT REQUIREMENT					90	95			"	"
pH	SAMPLE MEASUREMENT				6.3		8.3		0	Continuous	
	PERMIT REQUIREMENT				6.5		8.6			"	"
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

VIRGIL SHOUSE
Manager, Cannery Manufacturing
TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 *(Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years)*

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE / NUMBER

DATE: YEAR / MO / DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS *(Reference all attachments here)*

We had one pH reading which was below the 6.5 through out the month. We did not exceed the one hour individual excurtion limit or the total of seven hours and twenty six minutes for the calendar month. These are not considered a violation.

Wastewater Summary Report for the month of June 1997

Date	Production Tons	Flow mgd	Alum #/day	Poly #/day	Max Temp F	pH Limits Lo	pH Limits Hi	Oil &Grease Eff mg/l	Oil &Grease Total #/day	TSS Eff mg/l	TSS Total #/day	TP Eff mg/l	TP Total #/day	TN Eff mg/l	TN Total #/day	Total Ammonia Eff mg/l	BOD Eff mg/l
1		0.8457	562.4	13.3	86	6.7	7.1										
2	454.328	1.2047	654.0	20.2	74	6.7	7.5										
3	447.976	1.1660	725.9	22.4	78	6.5	7.5	26.8	259.9	105.3	1021.0	13.7	132.8	62.7	608.0	18.8	
4	474.059	1.1483	595.1	17.0	76	6.6	7.1	25.5	243.5	85.3	814.6	7.8	74.5	56.8	542.4		276.6
5	406.431	1.1712	660.5	20.4	79	6.7	7.1										
6	435.639	1.0246	562.4	17.6	80	6.6	7.1										
7		0.4576	255.1	7.7	81	6.7	7.2										
8		0.2458	98.1	2.6	78	7.0	7.2										
9		0.2002	85.0	3.2	81	6.3	7.7										
10		0.7835	405.0	15.4	78	6.7	7.7										
11	441.624	1.2033	627.8	17.8	75	6.7	7.4										
12	430.454	1.4043	680.2	22.8	82	6.6	7.2	68.3	797.6	144.0	1681.7	6.8	79.4	48.5	566.4	14.8	
13	419.049	1.3358	784.8	21.4	82	6.7	7.2	25.7	285.5	106.7	1185.3	11.6	128.9	50.9	565.4		
14	462.730	1.0552	634.4	19.0	83	6.8	7.9										
15		0.7696	340.1	14.3	83	7.0	7.2										
16	127.248	1.1320	582.1	17.8	92	6.7	7.2										
17	131.458	0.8910	477.4	17.6	90	6.7	7.1										
18	118.898	1.0681	686.7	18.0	90	6.7	7.6	16.2	143.9	72.0	639.5	5.1	45.3	37.5	333.1	17.6	244.3
19	123.307	1.3213	830.6	20.4	89	6.7	7.4	13.8	151.6	104.0	1142.7	4.1	45.1	36.1	396.7		
20	115.958	0.7312	372.8	12.9	92	6.8	8.3										
21		0.3850	176.6	5.1	75	6.9	7.2										
22		0.4700	176.6	4.6	72	6.9	7.3										
23	453.605	1.4554	791.3	20.8	80	6.7	7.2										
24	463.573	1.4306	843.7	22.0	84	6.6	7.0	38.5	458.0	139.3	1657.2	9.1	108.3	55.0	654.3	12.2	
25	456.850	1.4373	817.5	22.6	83	6.7	7.0	18.2	217.5	105.3	1258.6	6.4	76.5	68.7	821.1		
26	465.472	1.2393	608.2	25.9	85	6.7	7.2										
27	465.104	1.1196	601.7	18.2	88	6.6	7.2										
28		0.4803	248.5	8.3	91	6.8	7.1										
29		0.7794	549.4	14.9	88	6.7	7.2										
30	458.215	1.2037	588.6	20.0	84	6.8	7.4										
TOT	7351.978	29.1600	16022.5	484.2					2557.5		9400.6		690.8		4487.4		
AVG	367.599	0.9720	534.1	16.1	83			29.1	319.7	107.7	1175.1	8.1	86.4	52.0	560.9	15.9	260.5

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)
NAME STAR KIST SAMOA, INC
ADDRESS P.O. BOX 368
PAGO PAGO AMERICAN SAMOA 96799
FACILITY
LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004
Expires 3-31-88

(2-16) AS 0000019 PERMIT NUMBER

(17-19) 001 DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	1997	07	01	TO	1997	07	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
FLOW	SAMPLE MEASUREMENT	1.0376	1.4848	mgd					0	Continuous	
	PERMIT REQUIREMENT		2.9							"	"
BOD_5	SAMPLE MEASUREMENT				171.0	193.1	215.1	mg/l	0	2/mon	composite
	PERMIT REQUIREMENT				N/A	N/A	N/A			"	"
TSS	SAMPLE MEASUREMENT	856.5	1336.1	lbs/day	43.3	82.4	125.3	mg/l	0	2/wk	composite
	PERMIT REQUIREMENT	2653	6673		N/A	N/A	N/A			"	"
OIL & GREASE	SAMPLE MEASUREMENT	176.5	379.6	lbs/day	5.0	17.1	37.0	mg/l	0	2/wk	Grab(4)
	PERMIT REQUIREMENT	675	1688		N/A	N/A	N/A			2/wk	Grab(2)
TP	SAMPLE MEASUREMENT	90.2	113.8	lbs/day	6.7	8.7	10.6	mg/l	0	2/wk	Composite
	PERMIT REQUIREMENT	192	309		N/A	N/A	N/A			3	Composite
TN	SAMPLE MEASUREMENT	700.8	859.0	lbs/day	55.0	67.5	85.0	mg/l	0	2/wk	Composite
	PERMIT REQUIREMENT	1200	2100		N/A	N/A	N/A			3	Composite
TOTAL AMMONIA	SAMPLE MEASUREMENT				9.3	13.5	17.5	mg/l	0	2/wk	Composite
	PERMIT REQUIREMENT				N/A	N/A	133			1/wk	Composite

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

VIRGIL SHOUSE
Manager, Cannery Manufacturing
TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 *(Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years.)*

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE — AREA CODE — NUMBER

DATE — YEAR — MO — DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS *(Reference all attachments here)*

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)
NAME STAR KIST SAMOA, INC
ADDRESS P.O.BOX 368
PAGO PAGO AMERICAN SAMOA 96799
FACILITY
LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

(2-16) PERMIT NUMBER	(17-19) DISCHARGE NUMBER
AS 0000019	001

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	1997	07	01	TO	1997	07	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

Form Approved
OMB No. 2040-0004
Expires 3-31-88

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
TEMPERATURE	SAMPLE MEASUREMENT					81	92	°F	0	Continuous	
	PERMIT REQUIREMENT					90	95			"	"
pH	SAMPLE MEASUREMENT				6.0		8.8		0	Continuous	
	PERMIT REQUIREMENT				6.5		8.6			"	"
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

VIRGIL SHOUSE
Manager, Cannery Manufacturing
TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 (Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years.)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE | NUMBER

DATE: YEAR | MO | DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

We had one pH reading which was below 6.5 and one above 8.6 through out the month. We did not exceed the one hour individual excurtion limit or the total of seven hour and twenty six minutes for the calendar month. These are not considered a violation.

Wastewater Summary Report for the month of July 1997

Date	Production Tons	Flow mgd	Alum #/day	Poly #/day	Max Temp F	pH Limits Lo	pH Limits Hi	Oil &Grease Eff mg/l	Oil &Grease Total #/day	TSS Eff mg/l	TSS Total #/day	TP Eff mg/l	TP Total #/day	TN Eff mg/l	TN Total #/day	Total Ammonia Eff mg/l	BOD Eff mg/l
1	454.214	1.2337	712.9	20.8	84	5.8	7.2	37.0	379.6	120.7	1238.3	8.4	86.2	65.0	666.9	14.3	
2	451.680	1.3472	882.9	21.4	84	6.0	7.2	8.3	93.0	43.3	485.1	7.4	82.9	62.5	700.2	14.4	
3	456.413	0.9437	477.4	15.2	86	6.5	7.1										
4		0.3509	183.1	5.7	84	6.8	7.5										
5		0.6984	78.5	1.0	82	6.8	6.8										
6		0.6528	327.0	9.5	83	6.8	7.1										
7	459.771	1.1241	712.9	22.0	88	6.5	7.4										
8	466.315	1.4848	706.3	20.0	74	6.7	7.2										
9	461.554	1.1538	634.4	20.2	79	6.5	7.3	13.4	128.6	96.0	921.1	9.8	94.0	77.5	743.6	9.3	171.0
10	465.482	1.2445	654.0	20.4	84	6.8	7.3	25.1	259.8	59.0	610.6	6.7	69.3	70.0	724.4	11.2	
11	468.453	0.9842	523.2	16.8	80	6.8	8.0										
12		0.4321	222.4	5.5	86	6.8	7.3										
13		0.7199	438.2	12.1	72	7.0	7.4										
14	473.108	1.1759	634.4	17.8	75	6.6	7.1										
15	513.453	1.2823	699.8	20.2	80	6.8	7.4	10.2	108.8	125.3	1336.1	9.5	101.3	60.0	639.8	14.0	
16	509.283	1.2595	771.7	17.8	76	6.6	7.2	14.7	154.0	91.3	956.3	7.3	76.5	55.0	576.1	13.9	
17	512.682	1.2023	634.4	17.4	74	6.6	7.3										
18	495.478	1.0256	451.3	14.7	78	6.7	7.3										
19		0.6752	294.3	7.9	86	7.0	7.6										
20		0.8676	470.9	13.5	84	6.9	7.6										
21	503.606	1.3629	647.5	19.6	78	6.7	7.2										
22	519.750	1.2997	673.6	21.2	77	6.8	7.6	5.0	54.0	118.0	1275.4	8.6	93.0	60.0	648.5	11.6	
23	572.537	1.1922	614.8	21.6	80	6.7	7.5	11.1	110.0	48.0	475.9	9.2	91.2	60.0	594.9	13.0	
24	556.532	1.3772	621.3	20.8	79	6.7	7.3										
25	434.667	0.9675	470.9	16.2	92	6.7	7.4										
26		0.3830	157.0	7.5	90	6.9	8.1										
27		0.7931	242.0	10.1	77	6.8	7.3										
28	520.279	1.2006	477.4	18.8	79	6.6	8.8										
29	534.268	1.2912	739.0	23.4	80	6.7	7.1	19.2	206.2	56.7	608.8	10.6	113.8	80.0	859.0	16.1	215.1
30	520.725	1.2096	608.2	19.8	79	6.9	7.4	26.9	270.6	65.3	656.9	9.3	93.5	85.0	855.0	17.5	
31	503.096	1.2310	725.9	17.4	82	6.7	7.3										
TOT	10853.346	32.1665	16487.6	496.3					1764.6		8564.5		901.8		7008.4		
AVG	493.334	1.0376	531.9	16.0	81			17.1	176.5	82.4	856.5	8.7	90.2	67.5	700.8	13.5	193.1

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME STAR KIST SAMOA, INC

ADDRESS P. O. BOX 368
PAGO PAGO AMERICAN SAMOA 96799

FACILITY

LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004
Expires 3-31-88

(2-16) AS 0000019 PERMIT NUMBER

(17-19) 001 DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	1997	07	01	TO			
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
TOTAL LEAD	SAMPLE MEASUREMENT	< 0.005		Mg/1						1/6mon	Comp
	PERMIT REQUIREMENT									"	"
TOTAL CADMIUM	SAMPLE MEASUREMENT	< 0.005		Mg/1						1/6 mon	Comp
	PERMIT REQUIREMENT									"	"
TOTAL CHROMIUM	SAMPLE MEASUREMENT	< 0.007		Mg/1						1/6mon	Comp
	PERMIT REQUIREMENT									"	"
TOTAL MERCURY	SAMPLE MEASUREMENT	0.00024		Mg/1						1/6mon	Comp
	PERMIT REQUIREMENT										
TOTAL ZINC	SAMPLE MEASUREMENT	0.199		Mg/1						1/6mon	Comp
	PERMIT REQUIREMENT									"	"
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

VIRGIL SHOUSE
Manager, Cannery Manufacturing
TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (*Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years.*)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE — AREA CODE — NUMBER

DATE — YEAR — MO — DA

COMMENT AND EXPLANATION OF ANY VIOLATIONS (*Reference all attachments here*)

StarKist Samoa, Inc.

A Subsidiary of Star Kist Foods, Inc.

P.O. Box 368
Pago Pago, Tutuila Island
American Samoa 96799

Telephone: 684 644-4231
Facsimile: 684 644-2440

February 22, 1997

Mr. Norman Lovelace
OPINAP (E - 4)
U. S. EPA Region 9
75 Hawthorne Street
San Francisco, CA 94105

Mr. Togipa Tausaga
ASEPA, Office of the Governor
American Samoa Government
Pago Pago, American Samoa 96799

Gentlemen:

Re : **Discharge Monitoring Report for the Months of November, December 96 and January 1997 under NPDES No . 0000019 as issued to Star Kist Samoa, INC.**

Attached are Star Kist Samoa's Discharge Monitoring Reports covering the months of November, December 96 and January 1997.

Star Kist Samoa met all Effluent limits with the exception of the following:

The maximum daily temperature limit of 95 deg F was exceeded on November 3, 1996 for a period of 1 hour and 5 minutes. This took place on a non-production day.

Disciplinary action and re-training was carried out within the appropriate personnel group to help ensure this condition will not repeat in future.

Sincerely,

Virgil Shouse
Manager, Cannery Manufacturing

VS\ls:\npdes\samoa
Attachments:

cc: Ms. Sheila Wiegman
Ms. Pat Young
Mr. Norman Wei
Mr. Barry Mills

Wastewater Summary Report for the month of November 1996

Date	Production Tons	Flow mgd	Alum #/day	Poly #/day	Max Temp F	pH Limits Lo	pH Limits Hi	Oil &Grease Eff mg/l	Oil &Grease Total #/day	TSS Eff mg/l	TSS Total #/day	TP Eff mg/l	TP Total #/day	TN Eff mg/l	TN Total #/day	Total Ammonia Eff mg/l	BOD Eff mg/l
1	421.117	1.4922	444.7	23.0	82	6.7	7.4										
2	425.739	1.2810	451.3	15.8	94	6.4	7.6										
3		0.8196	313.9	12.7	102	6.9	7.6										
4	458.145	1.5826	431.6	18.2	80	6.4	7.4										
5	444.551	1.5494	510.1	19.0	86	6.5	7.4	44.7	576.0	202.5	2609.2	11.3	145.6	72.2	930.3	43.9	
6	440.766	1.5497	569.0	21.2	84	6.8	8.5	45.4	585.1	175.0	2255.3	11.1	143.0	65.5	844.1		
7	483.925	1.6741	464.3	21.2	82	6.6	7.6										
8	437.839	1.9274	392.4	19.0	82	6.8	7.5										
9		0.6139	189.7	6.5	81	6.4	7.2										
10		0.7871	228.9	8.5	81	6.8	7.3										
11	457.939	1.1992	497.0	20.2	80	6.8	7.5										
12	459.784	1.3272	640.9	24.2	82	6.8	7.4	17.3	190.9	163.5	1804.5	10.9	120.3	78.2	863.1	50.0	157.1
13	476.600	1.4786	575.5	21.0	86	6.4	7.1	41.2	506.6	152.0	1869.0	9.3	114.4	68.5	842.3		74.0
14	452.938	1.4617	510.1	20.4	79	6.8	7.3										
15	447.659	1.5727	503.6	24.0	85	6.8	7.2										
16	411.388	1.1802	385.9	18.4	88	6.4	7.2										
17		1.0397	340.1	16.6	87	6.1	7.3										
18	473.197	1.2733	372.7	19.4	82	6.8	7.3										
19	469.960	1.4981	464.3	22.0	81	6.7	7.3	59.2	737.5	94.5	1177.3	12.5	155.7	60.7	756.2	30.8	
20	469.872	1.6132	536.3	22.4	82	6.8	7.6	18.5	248.2	119.5	1603.1	16.5	221.4	61.1	819.7		
21	434.559	1.6546	627.8	25.1	80	6.0	7.6										
22	437.906	1.5259	647.5	20.4	86	6.7	7.3										
23		0.6302	228.9	9.7	93	6.6	7.2										
24		0.1348	39.2	2.0	85	7.0	7.2										
25	Shut Down	0.4172	45.8	2.4	82	7.1	7.3										
26	Shut Down	0.2731	170.0	5.1	82	6.9	9.2										
27	Shut Down	0.2647	104.6	4.6	82	6.8	7.5										
28	Shut Down	0.1398	52.3	3.4	80	6.9	7.2										
29	Shut Down	0.2146	58.9	3.6	80	6.8	7.0										
30	Shut Down	0.4958	117.7	5.1	79	6.6	7.4										
TOT	8103.884	32.6716	10915.0	455.1					2844.3		11318.4		900.4		5055.7		
AVG	450.216	1.0890	363.8	15.2	84			37.7	474.1	151.2	1886.4	11.9	150.1	67.7	842.6	41.6	115.6

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)
NAME: STAR KIST SAMOA, INC
ADDRESS: P.O.BOX 368
PAGO PAGO AMERICAN SAMOA 96799
FACILITY
LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

(2-16) AS 0000019 — PERMIT NUMBER
(17-19) 001 — DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	1996	11	01	TO	1996	11	30
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

Form Approved
OMB No. 2040-0004
Expires 3-31-88

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
FLOW	SAMPLE MEASUREMENT		1.9274	mgd					0	Continuous	
	PERMIT REQUIREMENT		2.9							"	
BOD_5	SAMPLE MEASUREMENT				74.0	115.6	157.1	mg/1	0	2/mon	Composite
	PERMIT REQUIREMENT				N/A	N/A	N/A			"	"
TSS	SAMPLE MEASUREMENT	1886.4	2609.2	lbs/day	94.5	151.2	202.5	mg/1	0	2/wk	Composite
	PERMIT REQUIREMENT	2653	6673		N/A	N/A	N/A			"	"
OIL & GREASE	SAMPLE MEASUREMENT	474.1	737.5	lbs/day	17.3	37.7	59.2	mg/1	0	2/wk	Grab (2)
	PERMIT REQUIREMENT	675	1688		N/A	N/A	N/A			"	"
TP	SAMPLE MEASUREMENT	150.1	221.4	lbs/day	9.3	11.9	16.5	mg/1	0	2/wk	Composite
	PERMIT REQUIREMENT	192	309		N/A	N/A	N/A			3	Composite
TN	SAMPLE MEASUREMENT	842.6	930.3	lbs/day	60.7	67.7	78.2	mg/1	0	2/wk	Composite
	PERMIT REQUIREMENT	1200	2100		N/A	N/A	N/A			3	Composite
TOTAL AMMONIA	SAMPLE MEASUREMENT				30.8	41.6	43.9	mg/1	0	1/wk	Composite
	PERMIT REQUIREMENT				N/A	N/A	133			"	"

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

VIRGIL SHOUSE
Manager, Cannery Manufacturing
TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 *(Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years.)*

2/21/97
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE | NUMBER

DATE: YEAR | MO | DAY

ATTACHMENT AND EXPLANATION OF ANY VIOLATIONS *(Reference all attachments here)*

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME: STAR KIST SAMOA, INC

ADDRESS: P.O.BOX 368
PAGO PAGO, AMERICAN SAMOA 96799

FACILITY

LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004
Expires 3-31-88

(2-16) PERMIT NUMBER	(17-19) DISCHARGE NUMBER
AS 0000019	001

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	1996	11	01	TO	1996	11	30
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

PARAMETER (42-47)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
TEMPERATURE	SAMPLE MEASUREMENT					84	102	°F	1	Continuous	
	PERMIT REQUIREMENT					**90**	**95**			"	"
pH	SAMPLE MEASUREMENT				6.0		9.2		0	Continuous	
	PERMIT REQUIREMENT				**6.5**		**8.6**			"	
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

VIRIGL SHOUSE
Manager ,Cannery Manufacturing

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 *(Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years.)*

2/24/97

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE — AREA CODE — NUMBER

DATE — YEAR — MO — DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS *(Reference all attachments here)*

We had several PH readings which were below 6.5 and one exceeded 8.5 throughout the month.
These did not exceed the one hour individual excursion limit or the total of seven hours and 26 minutes for the calendar month. They are not considered a violation.

Wastewater Summary Report for the month of December 1996

Date	Production Tons	Flow mgd	Alum #/day	Poly #/day	Max Temp F	pH Limits Lo	pH Limits Hi	Oil &Grease Eff mg/l	Oil &Grease Total #/day	TSS Eff mg/l	TSS Total #/day	TP Eff mg/l	TP Total #/day	TN Eff mg/l	TN Total #/day	Total Ammonia Eff mg/l	BOD Eff mg/l
1		1.0143	359.7	16.2	80	7.0	7.7										
2	406.115	1.5246	647.5	23.2	76	6.5	7.8										
3	405.493	1.4386	549.4	22.8	78	6.7	7.3	74.5	891.3	76.0	909.2	7.6	90.9	46.6	557.5	15.4	
4	459.486	1.4360	582.1	23.4	83	6.1	7.6	50.1	598.3	72.5	865.8	7.0	83.6	47.4	566.0		108.5
5	484.608	1.3980	457.8	22.6	82	6.8	7.3										
6	457.043	1.3292	464.3	20.4	83	6.8	7.5										
7	405.448	1.3760	431.6	19.8	87	6.2	8.8										
8		1.0920	346.6	11.9	96	6.7	8.0										
9	452.400	1.5192	418.6	21.8	79	6.4	7.6										
10	470.267	1.2805	549.4	22.6	84	6.3	7.3	135.6	1444.0	133.0	1416.3	14.0	149.1	103.0	1096.8	48.1	
11	464.796	1.4082	627.8	25.7	82	6.4	7.1	29.7	347.8	148.5	1739.0	12.6	147.6	106.0	1241.3		100.5
12	533.879	1.3512	438.2	23.0	84	6.6	7.0										
13	427.055	1.3201	595.1	20.4	85	6.7	7.2										
14	400.947	1.1891	542.8	21.2	90	6.7	7.3										
15		0.8813	274.7	10.9	89	6.8	7.2										
16	421.480	1.1203	405.5	17.0	80	6.5	7.2										
17	328.030	0.9744	431.6	22.0	81	6.4	6.9	43.0	348.4	250.5	2029.8	10.2	82.7	60.0	486.2	28.9	
18	414.459	0.9607	595.1	19.6	79	6.5	7.2	42.6	340.3	195.5	1561.9	8.6	68.7	61.8	493.7		
19	371.340	1.5307	706.3	26.5	80	5.8	7.2										
20	392.077	1.1765	562.4	21.0	90	6.4	7.1										
21	SHUT DOWN	0.5078	202.7	8.7	90	6.7	7.1										
22	SHUT DOWN	0.3502	117.7	6.9	83	6.8	6.9										
23	SHUT DOWN	0.1349	52.3	2.0	81	6.7	6.7										
24	SHUT DOWN	0.3307	137.3	3.0	82	6.7	7.0										
25	SHUT DOWN	0.2311	104.6	4.0	81	7.0	7.0										
26	SHUT DOWN	0.4502	85.0	2.2	82	6.8	7.3										
27	SHUT DOWN	0.2695	71.9	5.0	81	6.7	6.9										
28	SHUT DOWN	0.2995	91.6	2.6	80	6.8	7.0										
29	SHUT DOWN	0.4599	98.1	4.0	79	6.8	7.0										
30	SHUT DOWN	0.5314	163.5	6.5	80	6.7	7.2										
31	SHUT DOWN	0.4188	130.8	4.2	80	6.8	7.6										
TOT	7294.923	29.3049	11242.0	461.1					3970.1		8522.0		622.6		4441.5		
AVG	429.113	0.9453	362.6	14.9	83			62.6	661.7	146.0	1420.3	10.0	103.8	70.8	740.3	30.8	104.5

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)
NAME STAR KIST SAMOA, INC
ADDRESS P.O.BOX 368
APGO PAGO AMERICAN SAMOA 96799
FACILITY
LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004
Expires 3-31-88

(2-16) AS 0000019 PERMIT NUMBER

(17-19) 001 DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	1996	12	01	TO	1996	12	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
FLOW	SAMPLE MEASUREMENT		1.5307	mgd					0	Continuous	
	PERMIT REQUIREMENT		2.9							"	"
BOD_5	SAMPLE MEASUREMENT				100.5	104.5	108.5	mg/1	0	2/mon	Composite
	PERMIT REQUIREMENT				N/A	N/A	N/A			"	"
TSS	SAMPLE MEASUREMENT	1420.3	2029.8	lbs/day	72.5	146.0	250.5	mg/1	0	2/wk	Composite
	PERMIT REQUIREMENT	2653	6673		N/A	N/A	N/A			"	"
OIL & GREASE	SAMPLE MEASUREMENT	661.7	1444.0	lbs/day	29.7	62.6	135.6	mg/1	0	2/wk	Grab (2)
	PERMIT REQUIREMENT	675	1688		N/A	N/A	N/A			"	"
TP	SAMPLE MEASUREMENT	103.8	149.1	lbs/day	7.0	10.0	14.0	mg/1	0	2/wk	Composite
	PERMIT REQUIREMENT	192	309		N/A	N/A	N/A			3	Composite
TN	SAMPLE MEASUREMENT	740.3	1241.3	lbs/day	46.6	70.8	106.0	mg/1	0	2/wk	Composite
	PERMIT REQUIREMENT	1200	2100		N/A	N/A	N/A			3	Composite
TOTAL AMMONIA	SAMPLE MEASUREMENT				15.4	30.8	48.1	mg/1	0	1/wk	Composite
	PERMIT REQUIREMENT				N/A	N/A	133			"	"

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

VIRGIL SHOUSE
Manager, Cannery Manufacturing
TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 (Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years.)

2/21/97
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE | NUMBER

DATE: YEAR | MO | DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME: STAR KIST SAMOA, INC

ADDRESS: P.O BOX 368
PAGO PAGO, AMERICAN SAMOA 96799

FACILITY

LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004
Expires 3-31-88

(2-16) PERMIT NUMBER	(17-19) DISCHARGE NUMBER
AS 0000019	001

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	1996 (20-21)	12 (22-23)	01 (24-25)	TO	1996 (26-27)	12 (28-29)	31 (30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
TEMPERATURE	SAMPLE MEASUREMENT					83	96	°F	0	Continuous	
	PERMIT REQUIREMENT					90	95			"	
pH	SAMPLE MEASUREMENT				5.8		8.8		0	Continuous	
	PERMIT REQUIREMENT				6.5		8.6			"	
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

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2/2/97
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE | NUMBER

DATE: YEAR | MO | DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

We had several pH readings which were below 6.5 and one exceeded 8.5 throughout the month. These did not exceed the 1 hour individual excursion limit or the total of 7 hours and 26 minutes for the calendar month. They are not considered a violation.

Wastewater Summary Report for the month of January 1997

Date	Production Tons	Flow mgd	Alum #/day	Poly #/day	Max Temp F	pH Limits Lo	pH Limits Hi	Oil &Grease Eff mg/l	Oil &Grease Total #/day	TSS Eff mg/l	TSS Total #/day	TP Eff mg/l	TP Total #/day	TN Eff mg/l	TN Total #/day	Total Ammonia Eff mg/l	BOD Eff mg/l
1	SHUT DOWN	0.4110	117.7	3.6	80	6.6	7.2										
2	SHUT DOWN	0.6886	196.2	7.3	80	6.6	7.2										
3	SHUT DOWN	0.3330	124.3	3.8	82	6.7	7.0										
4	SHUT DOWN	0.3611	124.3	5.3	80	6.8	7.3										
5	SHUT DOWN	0.3802	124.3	5.1	87	6.7	7.2										
6	SHUT DOWN	1.2309	333.5	13.7	88	6.7	7.0										
7	234.666	1.5524	353.2	15.4	80	6.7	7.2										
8	295.417	1.3617	300.8	12.3	80	6.5	7.4										
9	292.548	1.1701	379.3	17.6	84	6.7	7.3	102.8	1000.3	115.0	1119.0	9.5	92.1	52.2	507.9	12.0	465.0
10	209.603	0.9421	281.2	12.3	83	6.4	7.3										
11	262.693	1.2188	451.3	16.0	91	6.4	7.2	44.9	455.1	96.5	978.1	4.7	47.6	33.7	341.6		
12		1.0328	425.1	14.9	89	6.7	7.0										
13	386.330	1.0062	451.3	17.2	80	6.5	7.4										
14	348.929	1.3908	693.2	26.1	85	6.5	7.1	54.4	629.2	58.7	678.9	9.9	114.6	60.8	703.2	27.6	439.5
15	344.910	1.0998	536.3	19.4	89	6.6	7.5	80.4	735.3	67.5	617.4	10.2	93.3	61.9	566.1		
16	353.299	1.0129	490.5	18.4	88	6.6	7.4										
17	332.319	1.1716	398.9	16.4	90	6.4	7.0										
18	307.744	0.8645	307.4	12.7	82	6.7	7.0										
19		1.0808	503.6	17.4	87	6.4	7.1										
20	368.760	1.1953	510.1	23.2	74	6.1	7.2										
21	363.555	1.2254	588.6	23.0	79	6.7	7.1	36.9	376.0	90.5	922.2	12.8	130.4	77.8	792.8	35.7	
22	357.179	1.2874	569.0	22.8	84	6.7	7.3	31.1	333.0	98.5	1054.5	19.6	209.8	126.0	1349.0		
23	378.771	1.2341	549.4	20.8	77	6.5	7.1										
24	332.382	1.0984	438.2	17.4	76	6.4	7.2										
25	307.134	0.9835	470.9	16.2	88	6.1	7.5										
26		0.8713	333.5	13.5	90	6.0	7.4										
27	362.797	1.3828	608.2	20.6	76	6.7	7.3										
28	327.188	1.3372	529.7	14.5	78	6.6	7.3	33.8	375.9	110.0	1223.2	13.1	145.7	63.2	702.8	17.3	
29	373.774	1.1810	497.0	15.8	80	6.4	7.2	44.2	434.1	87.5	859.4	20.2	198.4	76.9	755.2		
30	374.057	1.4417	686.7	24.2	78	6.4	7.2										
31	332.401	1.0101	621.3	20.6	77	6.5	7.1										
TOT	7246.456	32.5575	12995.0	487.5					4338.9		7452.7		1032.1		5718.6		
AVG	329.384	1.0502	419.2	15.7	83			53.6	542.4	90.5	931.6	12.5	129.0	69.1	714.8	23.2	452.3

COMMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME: STAR KIST SAMOA, INC

ADDRESS: P.O.BOX 368
PAGO PAGO, AMERICAN SAMOA 96799

FACILITY

LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004
Expires 3-31-88

(2-16) PERMIT NUMBER	(17-19) DISCHARGE NUMBER
AS 0000019	001

MONITORING PERIOD

	YEAR (20-21)	MO (22-23)	DAY (24-25)		YEAR (26-27)	MO (28-29)	DAY (30-31)
FROM	1997	01	01	TO	1997	01	31

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
FLOW	SAMPLE MEASUREMENT		1.5524	mgd					0	continuous	
	PERMIT REQUIREMENT		2.9							"	
BOD_5	SAMPLE MEASUREMENT				439.5	452.3	465.0	mg/l	0	2/mon	Composite
	PERMIT REQUIREMENT				N/A	N/A	N/A			"	"
TSS	SAMPLE MEASUREMENT	931.6	1223.2	lbs/day	58.7	90.5	115.0	mg/l	0	2/wk	Composite
	PERMIT REQUIREMENT	2653	6673		N/A	N/A	N/A			"	"
OIL & GREASE	SAMPLE MEASUREMENT	542.4	1000.3	lbs/day	31.1	53.6	102.8	mg/l	0	2/wk	Grab (2)
	PERMIT REQUIREMENT	675	1688		N/A	N/A	N/A			"	"
TP	SAMPLE MEASUREMENT	129.0	209.8	lbs/day	4.7	12.5	20.2	mg/l	0	2/wk	Composite
	PERMIT REQUIREMENT	192	309		N/A	N/A	N/A			3	Composite
TN	SAMPLE MEASUREMENT	714.8	1349.0	lbs/day	33.7	69.1	126.0	mg/l	0	2/wk	Composite
	PERMIT REQUIREMENT	1200	2100		N/A	N/A	N/A			3	Composite
TOTAL AMMONIA	SAMPLE MEASUREMENT				12.0	23.2	35.7	mg/l	0	1/wk	Composite
	PERMIT REQUIREMENT				N/A	N/A	133			"	"

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

VIRGIL SHOUSE
Manager, Cannery Manufacturing
TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 USC § 1001 AND 33 USC § 1319. *(Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years.)*

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

2/2/97

TELEPHONE — AREA CODE — NUMBER

DATE — YEAR — MO — DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS *(Reference all attachments here)*

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if different)*

NAME STAR KIST SAMOA, INC

ADDRESS P.O.BOX 368
PAGO PAGO AMERICAN SAMOA 96799

FACILITY

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DISCHARGE MONITORING REPORT *(DMR)*

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	YEAR	MO	DAY		YEAR	MO	DAY
FROM	1997	01	01	TO	1997	01	31
	(20-21)	*(22-23)*	*(24-25)*		*(26-27)*	*(28-29)*	*(30-31)*

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PARAMETER *(32-37)*		*(3 Card Only)* QUANTITY OR LOADING *(46-53)* AVERAGE	*(54-61)* MAXIMUM	UNITS	*(4 Card Only)* QUALITY OR CONCENTRATION *(38-45)* MINIMUM	*(46-53)* AVERAGE	*(54-61)* MAXIMUM	UNITS	NO. EX *(62-63)*	FREQUENCY OF ANALYSIS *(64-68)*	SAMPLE TYPE *(69-70)*
TEMPERATURE	SAMPLE MEASUREMENT					83	91	°F	0	Continuous	
	PERMIT REQUIREMENT					90	95			"	"
pH	SAMPLE MEASUREMENT				6.0		7.5		0	Continuous	
	PERMIT REQUIREMENT				6.5		8.6			"	"
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
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	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

VIRGIL SHOUSE
Manager Cannery Manufacturing

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 *(Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years)*

V.W.Sh 2/21/92

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE			DATE		
AREA CODE	NUMBER		YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS *(Reference all attachments here)*

We had several pH readings which were below 6.5. These did not exceed the 1 hour individual excursion limit or the total of 7 hours and 26 minutes for the calendar month. They are not considered a violation.

Rcd 12/2/96

StarKist Samoa, Inc.

November 22, 1996

Mr. Norman Lovelace
OPINAP (E - 4)
U. S. EPA Region 9
75 Hawthorne Street
San Francisco, CA 94105

Mr. Togipa Tausaga
ASEPA, Office of the Governor
American Samoa Government
Pago Pago, American Samoa 96799

Gentlemen:

Re : **Discharge Monitoring Report for the Months of August, September and October 1996 under NPDES No. 0000019 as issued to Star Kist Samoa, INC.**

Attached are Star Kist Samoa's Discharge Monitoring Reports covering the months of August, September and October 1996.

Star Kist Samoa met all Effluent limits.

Sincerely,

Virgil Shouse
Manager, Cannery Manufacturing

VS\ls:\npdes\samoa
Attachments:

cc: Ms. Sheila Wiegman
Ms. Pat Young
Mr. Norman Wei
Mr. Barry Mills

Wastewater Summary Report for the month of August 1996

Date	Production Tons	Flow mgd	Alum #/day	Poly #/day	Max Temp F	pH Limits Lo	pH Limits Hi	Oil &Grease Eff mg/l	Oil &Grease Total #/day	TSS Eff mg/l	TSS Total #/day	TP Eff mg/l	TP Total #/day	TN Eff mg/l	TN Total #/day	Total Ammonia Eff mg/l	BOD Eff mg/l
1	477.910	1.3820	477.4	24.8	76	6.6	7.2	18.0	206.9	88.5	1017.1	10.90	125.30	98.50	1132.00		
2	472.954	1.2510	405.5	21.6	81	6.7	7.5										
3		0.6120	202.7	10.3	85	6.7	7.2										
4		0.8047	222.4	10.7	83	6.9	7.1										
5	459.391	1.2564	372.8	21.6	78	6.8	7.1										
6	461.170	1.4748	516.7	23.6	77	6.8	7.3	18.3	224.4	108.5	1330.7	7.89	96.77	79.20	971.34	27.0	
7	483.871	1.4666	457.8	21.2	74	6.8	7.6	15.0	182.9	74.0	902.5	7.52	91.72	65.70	801.29		
8	457.375	1.6441	542.8	24.8	75	6.8	7.4										
9	424.056	1.2187	398.9	16.0	78	6.7	7.4										
10		0.5409	150.4	5.9	84	6.7	6.9										
11		0.9613	255.1	15.0	78	6.9	7.4										
12	445.252	1.2497	497.0	19.8	74	6.5	7.6										
13	476.148	1.5575	667.0	26.9	73	6.9	7.5	20.2	261.6	82.0	1062.1	9.54	123.56	66.90	866.50	29.6	
14	453.197	1.4930	529.7	25.9	76	6.8	7.2	22.4	278.1	74.0	918.8	10.50	130.37	65.60	814.48		463.5
15	460.894	1.4224	438.2	23.6	78	6.8	7.2										
16	451.962	1.2240	412.0	20.0	82	6.7	7.6										
17		0.6584	163.5	8.7	88	6.7	7.7										
18		0.7911	268.1	11.5	78	6.8	7.2										
19	507.492	1.1856	490.5	23.2	76	6.7	7.7										
20	481.515	1.7065	490.5	25.3	76	6.7	7.0	5.4	76.6	59.0	837.3	8.26	117.22	65.90	935.20	19.5	
21	494.793	1.7060	503.6	26.7	77	6.8	7.5	11.5	163.2	70.5	1000.2	9.23	130.95	61.50	872.51		399.8
22	480.205	1.7378	405.5	25.1	78	6.6	7.8										
23	462.044	1.4790	320.5	21.0	82	6.6	7.2										
24		0.7211	150.4	8.7	88	6.9	7.3										
25		1.0862	320.5	16.0	80	7.2	7.5										
26	467.145	1.5225	438.2	21.2	80	6.5	7.5										
27	424.573	1.4353	490.5	13.3	84	6.7	7.2	42.1	502.5	54.0	644.5	9.90	118.17	62.40	744.80	29.9	
28	455.344	1.5786	516.7	26.7	81	6.8	7.2	21.3	279.6	159.5	2093.9	11.50	150.97	77.50	1017.39		
29	447.016	1.4551	451.3	25.7	80	6.5	7.3										
30	376.846	1.1257	366.2	17.6	92	6.4	7.1										
31		0.5902	163.5	6.7	90	6.8	6.8										
TOT	10121.153	38.3382	12085.9	589.1					2175.80		9807.10		1085.20		8155.51		
AVG	460.052	1.2367	389.9	19.0	80			19.4	241.8	85.6	1089.7	9.5	120.6	71.5	906.2	26.5	431.7

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME: Star Kist Samoa Inc

ADDRESS: P.O.Box 368
Pago Pago American Samoa 96799

FACILITY

LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

(2-16) AS 0000019 PERMIT NUMBER

(17-19) 001 DISCHARGE NUMBER

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	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

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FLOW	SAMPLE MEASUREMENT	1.2367	1.7378						0	continuos	
	PERMIT REQUIREMENT		2.9	mgd							
BOD	SAMPLE MEASUREMENT				399.8	431.7	463.5	mg/l	0	2/mon	composite
	PERMIT REQUIREMENT				N/A	N/A	N/A				
TSS	SAMPLE MEASUREMENT	1089.7	2093.9	lbs/day	54.0	85.6	159.5	mg/l	0	2/wk	composite
	PERMIT REQUIREMENT	2653	6673		N/A	N/A	N/A				
OIL & GREASE	SAMPLE MEASUREMENT	241.8	279.6	lbs/day	5.4	19.4	42.1	mg/l	0	2/wk	grab
	PERMIT REQUIREMENT	675	1688		N/A	N/A	N/A				
TP	SAMPLE MEASUREMENT	120.6	151.0	lbs/day	7.5	9.5	11.5	mg/l	0	2/wk	composite
	PERMIT REQUIREMENT	192	309		N/A	N/A	N/A				
TN	SAMPLE MEASUREMENT	906.2	1132.0	lbs/day	61.5	71.5	98.5	mg/l	0	2/wk	composite
	PERMIT REQUIREMENT	1200	2100		N/A	N/A	N/A				
TOTAL AMMONIA	SAMPLE MEASUREMENT				19.5	26.5	29.9	mg/l	0	1/wk	composite
	PERMIT REQUIREMENT				N/A	N/A	133				

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

VIRGIL SHOUSE
Manager, Cannery Manufacturing
TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. *(Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years.)*

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE | NUMBER

DATE: YEAR | MO | DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS *(Reference all attachments here)*

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME: Star Kist Samoa Inc

ADDRESS: P.O. Box 368
Pago Pago American Samoa
96799

FACILITY

LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004
Expires 3-31-88

(2-16) PERMIT NUMBER	(17-19) DISCHARGE NUMBER
AS 0000019	001

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	1996 (20-21)	08 (22-23)	01 (24-25)	TO	1996 (26-27)	08 (28-29)	31 (30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
TEMPERATURE	SAMPLE MEASUREMENT					80	92	°F	0	continuous	
	PERMIT REQUIREMENT					90	95				
pH	SAMPLE MEASUREMENT				6.4		7.8		0	Continuous	
	PERMIT REQUIREMENT				6.5		8.6				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

VIRGIL SHOUSE
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SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE | NUMBER

DATE: YEAR | MO | DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS *(Reference all attachments here)*

August 30, 1996 the minimum pH was 6.4 in 45 minutes.
This is not considered a violation.

Wastewater Summary Report for the month of September 1996

Date	Production Tons	Flow mgd	Alum #/day	Poly #/day	Max Temp F	pH Limits Lo	pH Limits Hi	Oil &Grease Eff mg/l	Oil &Grease Total #/day	TSS Eff mg/l	TSS Total #/day	TP Eff mg/l	TP Total #/day	TN Eff mg/l	TN Total #/day	Total Ammonia Eff mg/l	BOD Eff mg/l
1		0.3085	52.3	1.4	84	6.8	6.8										
2		0.8870	215.8	12.3	81	6.6	7.4										
3	432.143	1.2690	412.0	23.4	82	6.7	7.4										
4	407.419	1.3948	484.0	25.3	83	6.5	7.1	18.2	211.1	80.5	933.7	11.5	133.4	71.9	834.0	27.1	463.5
5	386.770	1.4582	470.9	26.7	83	6.7	7.4	18.7	226.8	125.5	1521.9	11.3	137.0	71.5	867.0		
6	407.036	1.0114	327.0	16.8	90	6.6	7.7										
7		0.6290	209.2	11.9	94	6.7	7.4										
8		0.7337	268.1	9.3	84	6.9	7.5										
9	412.621	1.3954	451.3	20.8	81	6.8	7.2										
10	436.033	1.5475	529.7	26.1	84	6.5	7.3	7.9	101.7	116.0	1492.8	10.2	131.3	62.4	803.0	24.7	
11	427.377	1.3873	562.4	24.2	80	6.9	7.4	7.5	86.5	129.5	1494.0	8.5	98.2	81.1	935.6		
12	447.590	1.8720	464.3	18.8	80	6.7	7.1										
13	390.023	1.0377	340.1	16.6	90	6.7	7.4										
14		0.5546	189.7	8.5	87	7.0	7.6										
15		0.7472	228.9	12.1	80	6.9	7.3										
16	428.120	1.2943	431.6	18.0	76	6.7	7.4										
17	433.298	1.4108	477.4	22.8	76	6.7	7.4	15.5	181.8	36.5	428.2	6.4	75.1	52.7	618.3	28.3	424.0
18	430.838	1.4329	516.7	23.4	74	6.7	7.3	9.7	115.6	50.5	601.8	10.4	123.9	63.9	761.4		
19	392.328	1.3175	438.2	19.4	76	6.4	7.2										
20	382.890	1.1812	392.4	17.8	81	6.6	7.3										
21		0.4782	139.3	6.5	91	6.6	7.0										
22		0.6850	150.4	8.3	87	6.6	7.2										
23	442.588	1.2016	451.3	17.4	79	6.7	7.2										
24	402.030	1.4598	536.3	22.2	79	6.8	7.3	24.5	297.4	84.0	1019.7	10.4	126.3	69.9	848.6	38.7	
25	437.088	1.4059	477.4	19.0	80	6.7	7.5	40.0	467.7	61.5	719.0	10.5	122.8	72.7	850.0		
26	415.147	1.5008	464.3	22.6	78	6.7	7.3										
27	411.456	0.9102	327.0	15.0	92	6.5	7.3										
28		0.5930	137.3	6.5	95	6.6	7.0										
29		0.7362	189.7	9.3	78	6.9	7.4										
30	466.827	1.4140	444.7	19.4	78	6.7	7.1										
TOT	8389.622	33.2547	10779.7	501.8					1688.6		8211.1		948.0		6517.9		
AVG	419.481	1.1085	359.3	16.7	83			17.8	211.1	85.5	1026.4	9.9	118.5	68.3	814.7	29.7	443.8

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME: Star Kist Samoa Inc

ADDRESS: P.O.Box 368
Pago Pago American Samoa
96799

FACILITY

LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004
Expires 3-31-88

(2-16) PERMIT NUMBER	(17-19) DISCHARGE NUMBER
AS 0000019	001

MONITORING PERIOD

	YEAR (20-21)	MO (22-23)	DAY (24-25)		YEAR (26-27)	MO (28-29)	DAY (30-31)
FROM	1996	09	01	TO	1996	09	30

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
FLOW	SAMPLE MEASUREMENT	1.1085	1.8720	mgd					0	continuous	
	PERMIT REQUIREMENT		2.9								
BOD	SAMPLE MEASUREMENT				424.0	443.8	463.5	mg/l	0	2/mon	composite
	PERMIT REQUIREMENT				N/A	N/A	N/A				
TSS	SAMPLE MEASUREMENT	1026.4	1521.9		36.5	85.5	129.5		0	2/wk	composite
	PERMIT REQUIREMENT	2653	6673	lbs/day	N/A	N/A	N/A	mg/l			
OIL & GREASE	SAMPLE MEASUREMENT	211.1	467.7		7.5	17.8	40.0		0	2/wk	grab
	PERMIT REQUIREMENT	675	1688	lbs/day	N/A	N/A	N/A	mg/l			
TP	SAMPLE MEASUREMENT	118.5	137.0		6.4	9.9	11.5		0	2/wk	composite
	PERMIT REQUIREMENT	192	309	lbs/day	N/A	N/A	N/A	mg/l			
TN	SAMPLE MEASUREMENT	814.7	935.6		52.7	68.3	72.7		0	2/wk	composite
	PERMIT REQUIREMENT	1200	2100	lbs/day	N/A	N/A	N/A	mg/l			
TOTAL AMMONIA	SAMPLE MEASUREMENT				24.7	29.7	38.7		0	1/wk	composite
	PERMIT REQUIREMENT				N/A	N/A	133	mg/l			

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

VIRGIL SHOUSE
Manager, Cannery Manufacturing

TYPED OR PRINTED

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SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE | NUMBER

DATE: YEAR | MO | DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS *(Reference all attachments here)*

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)
NAME: Star Kist Samoa Inc
ADDRESS: P.O. Box 368
Pago Pago American Samoa 96799
FACILITY
LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004
Expires 3-31-88

(2-16) AS 0000019 — PERMIT NUMBER
(17-19) 001 — DISCHARGE NUMBER

MONITORING PERIOD

FROM YEAR	MO	DAY	TO YEAR	MO	DAY
1996 (20-21)	09 (22-23)	01 (24-25)	1996 (26-27)	09 (28-29)	30 (30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
TEMPERATURE	SAMPLE MEASUREMENT					83	95	°F	0	continuous	
	PERMIT REQUIREMENT					90	95				
pH	SAMPLE MEASUREMENT				6.4		7.7		0	continuous	
	PERMIT REQUIREMENT				6.5		8.6				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
VIRGIL SHOUSE
Manager, Cannery Manufacturing
TYPED OR PRINTED

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SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE — AREA CODE — NUMBER

DATE — YEAR — MO — DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS *(Reference all attachments here)*

September 19, 1996 the minimum pH was 6.4 in 5 minutes.
This is not considered violation

Wastewater Summary Report for the month of October 1996

Date	Production Tons	Flow mgd	Alum #/day	Poly #/day	Max Temp F	pH Limits Lo	pH Limits Hi	Oil &Grease Eff mg/l	Oil &Grease Total #/day	TSS Eff mg/l	TSS Total #/day	TP Eff mg/l	TP Total #/day	TN Eff mg/l	TN Total #/day	Total Ammonia Eff mg/l	BOD Eff mg/l
1	389.001	1.4153	516.7	22.2	80	6.6	7.1	36.6	430.8	101.0	1188.7	10.60	124.80	69.50	818.00	26.3	
2	379.018	1.1881	444.7	23.2	77	6.5	7.1	31.2	308.3	82.0	810.2	13.40	132.40	77.10	761.80		
3	402.833	1.3098	425.1	19.0	76	6.9	7.2										
4	434.687	1.0121	359.7	16.8	82	6.9	7.2										
5		0.5898	228.9	9.7	88	6.8	7.1										
6		0.7126	170.0	7.5	75	6.9	7.2										
7	455.914	1.2570	457.8	20.0	78	6.6	7.3										
8	482.917	1.5703	555.9	23.8	77	6.7	7.3	17.3	225.9	156.5	2043.7	6.75	88.15	49.30	643.79	11.1	382.3
9	448.445	1.1440	425.1	18.0	78	6.8	7.3	19.8	188.4	148.7	1414.7	13.10	124.63	83.80	797.23		
10	453.946	1.3821	438.2	19.8	79	6.8	7.4										
11	432.341	1.0566	340.1	17.2	83	6.6	7.4										
12		0.7211	183.1	10.5	88	7.0	7.4										
13		0.3196	130.8	5.3	84	6.8	7.7										
14		0.2748	52.3	3.0	82	7.0	7.1										
15		0.2510	39.2	2.4	82	7.0	7.2										
16		0.2054	85.0	5.3	79	7.1	7.4										
17		0.0874	32.7	1.4	78	7.0	7.2										
18		0.5549	228.9	9.1	79	6.8	7.9										
19		0.6627	130.8	5.1	77	6.5	7.2										
20		1.0119	484.0	17.2	80	6.6	8.0										
21	452.992	1.3935	457.8	23.2	78	6.7	7.3										
22	424.582	1.3815	549.4	26.5	80	6.5	7.2	18.1	207.9	97.5	1120.1	6.87	78.93	55.90	642.21	21.4	
23	435.915	1.3581	490.5	24.2	85	6.8	7.6	14.3	161.5	68.5	773.6	6.05	68.33	56.60	639.24		419.0
24	400.573	1.1682	438.2	19.4	84	6.7	8.1										
25	436.824	1.1790	484.0	22.8	86	6.9	7.3										
26		0.5406	163.5	7.1	93	6.9	7.0										
27		0.7919	183.1	11.7	82	6.9	7.4										
28	430.430	1.3566	497.0	23.0	85	6.5	7.5										
29	427.388	1.3935	497.0	24.9	86	6.5	7.2	21.7	251.5	79.5	921.3	8.90	103.14	70.40	815.82	26.3	
30	431.696	1.5098	523.2	28.5	83	6.9	7.3										
31	445.936	1.5222	549.4	22.2	78	6.8	7.2	10.8	136.7	102.0	1291.2	11.00	139.24	82.50	1044.34		
TOT	7765.438	30.3214	10562.1	490.0					1911.0		9563.5		859.61		6162.4		
AVG	431.413	0.9781	340.7	15.8	81			21.2	238.9	104.5	1195.4	9.6	107.5	68.1	770.3	21.3	400.7

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME: Star Kist Samoa Inc
ADDRESS: P. Box.368
Pago Pago, Am Samoa 96799
FACILITY
LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004
Expires 3-31-88

(2-16) PERMIT NUMBER	(17-19) DISCHARGE NUMBER
AS 0000019	001

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	1996 (20-21)	10 (22-23)	01 (24-25)	TO	1996 (26-27)	10 (28-29)	31 (30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
FLOW	SAMPLE MEASUREMENT	0.9781	1.5703	mgd					0	continuous	
	PERMIT REQUIREMENT		2.9								
BOD	SAMPLE MEASUREMENT				382.3	400.7	419.0	mg/l	0	2/mon	composite
	PERMIT REQUIREMENT				N/A	N/A	N/A				
TSS	SAMPLE MEASUREMENT	1195.4	2043.7	lbs/day	68.5	104.5	156.5	mg/l	0	2/wk	composite
	PERMIT REQUIREMENT	2653	6673		N/A	N/A	N/A				
OIL & GREASE	SAMPLE MEASUREMENT	238.9	430.8	lbs/day	10.8	21.2	36.6	mg/l	0	2/wk	grab
	PERMIT REQUIREMENT	675	1688		N/A	N/A	N/A				
TP	SAMPLE MEASUREMENT	107.5	139.2	lbs/day	6.05	9.6	13.4	mg/l	0	2/wk	composite
	PERMIT REQUIREMENT	192	309		N/A	N/A	N/A				
TN	SAMPLE MEASUREMENT	770.3	1044.3	lbs/day	49.3	68.1	83.8	mg/l	0	2/wk	composite
	PERMIT REQUIREMENT	1200	2100		N/A	N/A	N/A				
TOTAL AMMONIA	SAMPLE MEASUREMENT				11.1	21.3	26.3	mg/l	0	1/wk	composite
	PERMIT REQUIREMENT				N/A	N/A	133				

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

VIRGIL SHOUSE
Manager, Cannery Manufacturing
TYPED OR PRINTED

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SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE | NUMBER

DATE: YEAR | MO | DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS *(Reference all attachments here)*

Facility Name/Location if different)

NAME Star Kist Samoa Inc

ADDRESS P.O.Box 368
Pago Pago American Samoa 96799

FACILITY

LOCATION

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004
Expires 3-31-88

(2-16) PERMIT NUMBER	(17-19) DISCHARGE NUMBER
AS 0000019	001

MONITORING PERIOD

	YEAR (20-21)	MO (22-23)	DAY (24-25)		YEAR (26-27)	MO (28-29)	DAY (30-31)
FROM	1996	10	01	TO	1996	10	31

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PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
TEMPERATURE	SAMPLE MEASUREMENT					81	93	°F	0	continuous	
	PERMIT REQUIREMENT					**90**	**95**				
pH	SAMPLE MEASUREMENT				6.5		8.1		0	continuous	
	PERMIT REQUIREMENT				**6.5**		**8.6**				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
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	PERMIT REQUIREMENT										
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NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

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Manager, Cannery Manufacturing
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NAME: Star Kist Samoa Inc
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AS 0000019	001

MONITORING PERIOD

	YEAR (20-21)	MO (22-23)	DAY (24-25)		YEAR (26-27)	MO (28-29)	DAY (30-31)
FROM	1996	10	09	TO			

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69 70)
TOTAL CADMIUM	SAMPLE MEASUREMENT	<0.01		mg/1						1/6 mon	composite
	PERMIT REQUIREMENT										
TOTAL CHROMIUM	SAMPLE MEASUREMENT	<0.01		mg/1						1/6 mon	composite
	PERMIT REQUIREMENT										
TOTAL LEAD	SAMPLE MEASUREMENT	<0.01		mg/1						"	"
	PERMIT REQUIREMENT										
TOTAL MERCURY	SAMPLE MEASUREMENT	<0.01		mg/1						"	"
	PERMIT REQUIREMENT										
TOTAL ZINC	SAMPLE MEASUREMENT	0.26		mg/1						"	"
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
VIRGIL SHOUSE
Manager, Cannery Manufacturing
TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 *(Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years.)*

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE | NUMBER

DATE: YEAR | MO | DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS *(Reference all attachments here)*

StarKist Samoa, Inc.

August 22, 1996

Rcd 8/30/96 MB

Mr. Norman Lovelace
OPINAP (E - 4)
U. S. EPA Region 9
75 Hawthorne Street
San Francisco, CA 94105

Mr. Togipa Tausaga
ASEPA, Office of the Governor
American Samoa Government
Pago Pago, American Samoa 96799

Gentlemen:

Re : **Discharge Monitoring Report for the Months of May, June and July 1996 under NPDES No . 0000019 as issued to Star Kist Samoa, INC.**

Attached are Star Kist Samoa's Discharge Monitoring Reports covering the months of May, June and July 1996.

Star Kist Samoa met all Effluent limits except for the Total Nitrogen monthly average of pounds per day in June.

The following paragraph summarizes the plant's permit violation:

Total Nitrogen

The Plant had mechanical problems on the High Strength Waste air pump which caused the high strength liquid to overflow to the Treatment plant and resulted in higher than normal Total Nitrogen results. The problems were corrected.

Sincerely,

Virgil Shouse
Manager, Cannery Manufacturing

VS\ls:\npdes\samoa
Attachments:

cc: Ms. Sheila Wiegman
Ms. Pat Young
Mr. Norman Wei
Mr. Barry Mills

Wastewater Summary Report for the month of May 1996

Date	Production Tons	Flow mgd	Alum #/day	Poly #/day	Max Temp F	pH Limits Lo	pH Limits Hi	Oil &Grease Eff mg/l	Oil &Grease Total #/day	TSS Eff mg/l	TSS Total #/day	TP Eff mg/l	TP Total #/day	TN Eff mg/l	TN Total #/day	Total Ammonia Eff mg/l	BOD Eff mg/l
1	442.673	0.7757	503.6	15.6	77	6.7	7.0	5.8	37.4	93.5	603.1	11.50	74.20	82.90	534.80	35.30	
2	450.973	1.1341	261.6	11.9	76	6.5	7.0	52.9	498.9	96.5	910.1	8.06	76.00	72.40	682.80		206.00
3	436.816	0.9910	405.5	10.5	78	6.5	7.0										
4		0.5391	137.3	4.2	88	6.6	6.8										
5		0.7394	137.3	7.1	82	6.6	7.0										
6	437.940	1.2858	287.8	11.7	75	6.7	7.2										
7	451.681	1.2796	291.0	12.6	75	6.7	7.8										
8	459.378	1.5195	490.5	16.0	79	6.6	7.2	24.7	312.1	84.0	1061.4	10.10	127.63	67.10	847.89	20.80	
9	430.507	1.4430	294.3	10.0	78	6.5	6.8										
10	421.074	1.3688	294.3	12.7	83	6.5	6.9	29.7	338.1	128.0	1457.0	10.80	122.94	59.30	675.01		
11		0.3673	104.6	5.5	89	6.5	6.7										
12		0.8336	222.4	9.5	80	6.5	7.1										
13	441.743	1.1776	281.2	12.9	84	6.5	8.0										
14	422.514	1.5424	268.1	14.9	81	6.5	6.8										
15	443.184	1.4505	353.2	16.4	78	6.6	7.3	12.4	149.6	73.5	886.6	11.20	135.10	64.70	780.43	18.40	
16	460.634	1.4770	470.9	17.8	82	6.5	7.3	31.4	385.7	51.5	632.6	10.20	125.28	60.80	746.79		
17	439.586	1.0047	222.4	8.9	80	6.7	7.3										
18		0.6159	71.9	4.8	85	6.6	7.4										
19		0.8921	202.7	7.5	82	6.1	7.5										
20	439.324	1.1395	477.4	13.1	77	6.6	6.9										
21	446.903	0.9905	307.4	12.1	78	6.5	6.9	6.0	49.4	77.0	634.2	9.27	76.36	65.30	537.88	30.20	
22	424.021	1.4068	542.8	16.0	81	6.5	6.9	18.2	212.9	156.5	1830.9	12.40	145.07	75.20	879.76		
23	465.547	1.3811	444.7	14.7	75	6.6	6.9										
24	359.180	1.0205	268.1	11.1	88	6.6	6.8										
25		0.6826	137.3	6.1	90	6.6	6.9										
26		0.5549	98.1	4.0	80	6.8	7.2										
27		1.0707	287.8	12.7	84	6.6	7.2										
28	425.709	1.2519	222.4	12.9	77	6.6	7.1										
29	368.145	1.1799	281.2	14.5	77	6.5	7.0	67.0	657.4	78.0	765.3	17.60	172.69	141.00	1383.50	72.80	432.00
30	433.296	1.4508	359.7	14.1	77	6.6	7.4	30.1	363.2	67.3	812.0	16.50	199.07	116.00	1399.52		
31	435.862	1.3170	274.7	13.9	82	6.5	7.5										
TOT	9536.690	33.8833	9002.2	355.7					3004.7		9593.2		1254.3		8468.4		
AVG	433.486	1.0930	290.4	11.5	81			27.8	300.5	90.6	959.3	11.8	125.4	80.5	846.8	35.5	319.0

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)
NAME STAR KIST SAMOA, INC
ADDRESS P.O.BOX 368
PAGO PAGO, AM SAMOA 96799
FACILITY
LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

(2-16) AS 0000019 PERMIT NUMBER

(17-19) 001 DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	1996 (20-21)	05 (22-23)	01 (24-25)	TO	1996 (26-27)	05 (28-29)	31 (30-31)

Form Approved
OMB No. 2040-0004
Expires 3-31-88

NOTE: Read instructions before completing this form.

PARAMETER (1-5, C)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
FLOW	SAMPLE MEASUREMENT	1.0930	1.5424	mgd						continuous	
	PERMIT REQUIREMENT		2.9								
BOD	SAMPLE MEASUREMENT				206.0	319.0	432.0	mg/l		2/mo	composite
	PERMIT REQUIREMENT				N/A	N/A	N/A				
TSS	SAMPLE MEASUREMENT	959.3	1830.9		51.5	90.6	156.5	mg/l		2/wk	composite
	PERMIT REQUIREMENT	2653	6673	lbs/day	N/A	N/A	N/A				
OIL & GREASE	SAMPLE MEASUREMENT	300.5	657.4		5.8	27.8	67.0	mg/l		2/wk	composite
	PERMIT REQUIREMENT	675	1688	lbs/day	N/A	N/A	N/A				
TP	SAMPLE MEASUREMENT	125.4	199.1		8.1	11.8	17.6	mg/l		2/wk	composite
	PERMIT REQUIREMENT	192	309	lbs/day	N/A	N/A	N/A				
TN	SAMPLE MEASUREMENT	846.8	1399.5		59.3	80.5	141.0	mg/l		2/wk	composite
	PERMIT REQUIREMENT	1200	2100	lbs/day	N/A	N/A	N/A				
TOTAL AMMONIA	SAMPLE MEASUREMENT				18.4	35.5	72.8	mg/l		1/wk	composite
	PERMIT REQUIREMENT				N/A	N/A	133				

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

VIRGIL SHOUSE
Manager , Cannery Manufacturing
TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (*Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years.*)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE — AREA CODE — NUMBER

DATE — YEAR — MO — DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (*Reference all attachments here*)

PERMITTEE NAME / ADDRESS (Include Facility Name/Location if different)

NAME STAR KIST SAMOA , INC

ADDRESS P.O. BOX 368

PAGO PAGO AMERICAN SAMOA 96799

FACILITY

LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004
Expires 3-31-88

(2-16) PERMIT NUMBER: AS 0000019

(17-19) DISCHARGE NUMBER: 001

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	1996	05	01	TO	1996	05	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
TEMPERATURE	SAMPLE MEASUREMENT				75	81	90	°F		continuous	
	PERMIT REQUIREMENT					90	95				
pH	SAMPLE MEASUREMENT				6.1		7.5		1	continuous	
	PERMIT REQUIREMENT				6.5		8.6				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
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	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

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TELEPHONE — AREA CODE — NUMBER

DATE — YEAR — MO — DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (*Reference all attachments here*)

May 19,1996 the minimum pH was 6.1 in 45 minutes.
This is not considered a violation.

Wastewater Summary Report for the month of June 1996

Date	Production Tons	Flow mgd	Alum #/day	Poly #/day	Max Temp F	pH Limits Lo	pH Limits Hi	Oil &Grease Eff mg/l	Oil &Grease Total #/day	TSS Eff mg/l	TSS Total #/day	TP Eff mg/l	TP Total #/day	TN Eff mg/l	TN Total #/day	Total Ammonia Eff mg/l	BOD Eff mg/l
1	432.418	1.4112	248.5	13.5	88	6.6	7.1										
2		1.2244	255.1	11.9	90	6.6	6.9										
3	444.821	1.3766	320.5	13.7	81	6.5	7.0										
4	393.078	1.3284	255.1	12.3	78	6.5	6.8	21.8	240.8	102.0	1126.8	12.0	132.6	75.1	829.6	32.7	
5	431.769	1.3967	294.3	14.1	82	6.5	7.0	13.2	153.3	68.5	795.6	18.6	216.0	150.0	1742.2		
6	420.550	1.3377	242.0	12.7	77	6.6	7.6										
7	348.293	1.0669	202.7	11.3	90	6.5	6.8										
8		0.6033	98.1	7.1	88	6.5	6.8										
9		0.9970	170.0	10.5	84	6.7	7.2										
10	454.067	1.1755	248.5	11.9	72	6.6	7.3										
11	447.060	1.4238	392.4	16.8	78	6.5	6.9	58.1	687.9	35.0	414.4	22.2	262.9	156.0	1847.1	61.1	
12	439.678	1.6278	353.2	15.2	79	6.6	7.3	33.6	454.8	60.5	819.0	13.4	181.4	73.6	996.3		
13	461.158	1.3843	356.4	16.2	80	6.6	6.8										
14	432.915	1.1471	333.5	10.3	86	6.5	6.9										
15		0.4781	71.9	4.4	88	6.7	6.8										
16		0.8534	209.3	7.9	85	6.7	7.3										
17	457.496	1.4630	346.6	15.8	76	6.5	7.5										
18	487.822	1.4820	431.6	15.6	80	6.6	6.9	15.8	194.7	121.5	1497.4	20.1	247.7	127.0	1565.2	47.7	432.5
19	505.056	1.4635	418.6	17.8	78	6.5	7.4	5.6	68.2	68.5	833.7	22.9	278.7	170.0	2069.0		
20	439.030	1.4344	274.7	18.2	76	6.6	7.8										
21	418.591	1.0756	215.8	12.5	80	6.7	7.5										
22		0.5687	71.9	8.3	86	6.5	7.5										
23		0.8811	228.9	5.0	84	6.6	7.2										
24	451.460	1.3793	287.8	14.1	74	6.6	7.3										
25	463.093	1.2981	327.0	17.2	76	6.7	7.2	15.2	164.1	110.0	1187.5	15.8	170.6	90.3	974.8	51.1	
26	489.533	1.2721	307.4	17.4	76	6.7	7.8	12.1	128.0	95.0	1005.0	12.0	126.9	71.1	752.2		378.8
27	506.142	1.3716	300.8	20.2	77	6.6	7.6										
28	412.072	1.1635	242.0	12.5	84	6.6	7.5										
29		0.4787	52.3	4.2	88	6.6	7.4										
30		1.0243	248.5	12.5	88	6.6	7.2										
TOT	9336.102	35.1881	7805.4	381.1					2091.8		7679.4		1616.8		10776.4		
AVG	444.576	1.1729	260.2	12.7	82			21.9	261.5	82.6	959.9	17.1	202.1	114.1	1347.1	48.2	405.7

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME: STAR KIST SAMOA , INC

ADDRESS: P.O.BOX 368
PAGO PAGO, AMERICAN SAMOA 96799

FACILITY

LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004
Expires 3-31-88

(2-16) AS 0000019 — PERMIT NUMBER

(17-19) 001 — DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	1996	06	01	TO	1996	06	30
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

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PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
FLOW	SAMPLE MEASUREMENT	1.1729	1.6278	mgd						continuous	
	PERMIT REQUIREMENT		2.9								
BOD	SAMPLE MEASUREMENT				378.8	405.7	432.5	mg/1		2/mo	composite
	PERMIT REQUIREMENT				N/A	N/A	N/A				
TSS	SAMPLE MEASUREMENT	959.9	1497.4	lbs/day	35.0	82.6	121.5	mg/1		2/wk	composite
	PERMIT REQUIREMENT	2653	6673		N/A	N/A	N/A				
OIL & GREASE	SAMPLE MEASUREMENT	261.5	687.9	lbs/day	5.6	21.9	58.1	mg/1		2/wk	composite
	PERMIT REQUIREMENT	675	1688		N/A	N/A	N/A				
TP	SAMPLE MEASUREMENT	202.1	278.7	lbs/day	12.0	17.1	22.9	mg/1		2/wk	composite
	PERMIT REQUIREMENT	192	309		N/A	N/A	N/A				
TN	SAMPLE MEASUREMENT	1347.1	2069.0	lbs/day	71.1	114.1	170.0	mg/1		2/wk	composite
	PERMIT REQUIREMENT	1200	2100		N/A	N/A	N/A				
TOTAL AMMONIA	SAMPLE MEASUREMENT				32.7	48.2	61.1	mg/1		1/wk	composite
	PERMIT REQUIREMENT				N/A	N/A	133				

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

VIRGIL SHOUSE
Manager, Cannery Manufacturing

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319 (Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE — AREA CODE — NUMBER

DATE — YEAR — MO — DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)
NAME STAR KIST SAMOA , INC
ADDRESS P. O. BOX 368
PAGO PAGO, AMERICAN SAMOA
96799
FACILITY
LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004
Expires 3-31-88

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(17-19) 001 DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	1996	06	01	TO	1996	06	30
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

PARAMETER (1-5)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
TEMPERATURE	SAMPLE MEASUREMENT				70	82	90	°F		continuous	
	PERMIT REQUIREMENT					90	95				
pH	SAMPLE MEASUREMENT				6.5		7.8			continuous	
	PERMIT REQUIREMENT				6.5		8.6				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
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	PERMIT REQUIREMENT										
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SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE | NUMBER

DATE: YEAR | MO | DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS *(Reference all attachments here)*

Wastewater Summary Report for the month of July 1996

Date	Production Tons	Flow mgd	Alum #/day	Poly #/day	Max Temp F	pH Limits Lo	pH Limits Hi	Oil &Grease Eff mg/l	Oil &Grease Total #/day	TSS Eff mg/l	TSS Total #/day	TP Eff mg/l	TP Total #/day	TN Eff mg/l	TN Total #/day	Total Ammonia Eff mg/l	BOD Eff mg/l
1	483.347	1.5993	261.6	19.4	78	6.5	7.4										
2	513.305	1.5278	366.2	17.8	76	6.6	6.9	39.5	501.9	49.0	622.6	13.1	166.4	97.3	1236.2	29.9	
3	524.030	1.2325	248.5	17.8	77	6.5	7.2	32.2	330.0	70.0	717.5	17.0	174.2	114.0	1168.4	47.9	
4		0.4772	65.4	3.4	89	6.8	7.0										
5		*	*	*	*	*	*										
6		0.3129	26.2	0.8	81	6.9	6.9										
7		0.9175	143.9	8.9	80	6.8	7.7										
8	453.836	1.3759	268.1	19.0	75	6.7	7.7										
9	473.171	1.5688	372.8	21.8	76	6.6	7.2	39.8	519.2	121.5	1585.1	11.6	151.3	59.9	781.5	31.4	485.0
10	460.321	1.4835	379.3	18.6	76	6.5	7.2	55.8	688.4	160.5	1980.1	16.7	206.0	96.7	1193.0	50.6	
11	423.427	1.3808	274.7	20.2	78	6.6	7.4										
12	401.822	1.2506	268.1	17.0	80	6.6	7.4										
13		0.5544	58.9	6.3	88	6.6	7.2										
14		0.7118	98.1	8.9	88	6.5	7.4										
15	433.996	1.3263	281.2	14.3	78	6.7	7.7										
16	322.661	1.4631	529.7	23.2	76	6.5	7.6	42.5	517.1	108.5	1320.1	9.2	111.9	56.2	683.8	27.0	
17	380.822	1.3163	451.3	17.0	80	6.5	7.2	30.8	337.1	156.5	1713.1	10.8	118.2	78.2	856.0		
18	430.866	1.3228	431.6	17.2	76	6.6	7.8										
19	431.799	1.0636	300.8	13.1	80	6.5	7.4										
20		0.4871	176.6	8.9	92	6.6	7.2										
21		1.2235	281.2	13.7	89	6.6	7.0										
22	458.401	1.3908	379.3	19.8	75	6.6	7.8										
23	426.706	1.4167	490.5	21.6	77	6.5	7.3	10.1	119.0	76.5	901.3	7.0	82.5	58.5	689.2	37.3	226.5
24	408.100	1.4974	438.2	23.4	76	6.6	7.4	6.4	79.7	38.0	473.2	3.5	43.6	50.0	622.6		
25	432.418	1.4209	477.4	25.8	75	6.7	7.3										
26	444.366	1.0038	313.9	16.6	80	6.5	7.5										
27		0.6733	222.4	11.1	90	6.7	7.0										
28		0.9248	215.8	10.9	78	6.8	7.2										
29	440.218	1.3990	457.8	19.8	74	6.6	7.6										
30	464.126	1.5450	549.4	26.9	78	6.8	7.2	9.0	115.6	62.5	803.0	6.6	84.8	61.5	790.2	30.6	
31	482.904	1.6265	464.3	28.1	75	6.6	7.1										
TOT	9290.642	35.4939	9293.2	491.3					3208.0		10116.0		1138.9		8020.9		
AVG	442.412	1.1450	299.8	15.8	80			29.6	356.4	93.7	1124.0	10.6	126.5	74.7	891.2	36.4	355.8

* The Plant was OFF for the whole day.

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)
NAME: STAR KIST SAMOA ,INC
ADDRESS: P.O.BOX 368
PAGO PAGO , AMERICAN SAMOA 96799
FACILITY
LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004
Expires 3-31-88

(1-16) PERMIT NUMBER	(17-19) DISCHARGE NUMBER
AS 0000019	001

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	1996 (20-21)	07 (22-23)	01 (24-25)	TO	1996 (26-27)	07 (28-29)	31 (30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
FLOW	SAMPLE MEASUREMENT	1.1831	1.6265	mgd					0	continuous	
	PERMIT REQUIREMENT		2.9								
BOD	SAMPLE MEASUREMENT				226.5	355.8	485.0	mg/l	0	2/mo	composite
	PERMIT REQUIREMENT				N/A	N/A	N/A				
TSS	SAMPLE MEASUREMENT	1124.0	1980.1	lbs/day	38.0	93.7	160.5	mg/l	0	2/wk	composite
	PERMIT REQUIREMENT	2653	6673		N/A	N/A	N/A				
OIL & GREASE	SAMPLE MEASUREMENT	356.4	688.4	lbs/day	6.4	29.6	55.8	mg/l	0	2/wk	composite
	PERMIT REQUIREMENT	675	1688		N/A	N/A	N/A				
TP	SAMPLE MEASUREMENT	126.5	206.0	lbs/day	3.5	10.6	17.0	mg/l	0	2/wk	composite
	PERMIT REQUIREMENT	192	309		N/A	N/A	N/A				
TN	SAMPLE MEASUREMENT	891.2	1236.2	lbs/day	50.0	74.7	114.0	mg/l	0	2/wk	composite
	PERMIT REQUIREMENT	1200	2100		N/A	N/A	N/A				
TOTAL AMMONIA	SAMPLE MEASUREMENT				27.0	36.4	50.6	mg/l	0	1/wk	composite
	PERMIT REQUIREMENT				N/A	N/A	133				

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
VIRGIL SHOUSE
Manager, Cannery Manufacturing
TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. *(Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years.)*

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE / NUMBER

DATE: YEAR / MO / DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS *(Reference all attachments here)*

PERMITTEE NAME / ADDRESS (Include Facility Name/Location if different)

NAME: STAR KIST SAMOA , INC

ADDRESS: P.O.BOX 368
PAGO PAGO , AMERICAN SAMOA 96799

FACILITY

LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

(2-16) PERMIT NUMBER	(17-19) DISCHARGE NUMBER
AS 0000019	001

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	1996	07	01	TO	1996	07	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

Form Approved
OMB No. 2040-0004
Expires 3-31-88

NOTE: Read instructions before completing this form.

PARAMETER (32-47)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
TEMPERATURE	SAMPLE MEASUREMENT					80	92	°F	0	Continuous	
	PERMIT REQUIREMENT					90	95				
pH	SAMPLE MEASUREMENT				6.5		7.8		2	Continuous	
	PERMIT REQUIREMENT				6.5		8.6				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

VIRGIL SHOUSE
Manager , Cannery Manufacturing

TYPED OR PRINTED

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SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE | NUMBER

DATE: YEAR | MO | DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

StarKist Samoa, Inc.

May 20, 1996

Mr . Norman Lovelace
OPINAP (E - 4)
U . S . EPA Region 9
75 Hawthorne Street
San Francisco , CA 94105

Mr . Togipa Tausaga
ASEPA
Office of the Governor
American Samoa Government
Pago Pago , American Samoa 96799

Gentlemen :

Re : **Discharge Monitoring Report for the Months of August , September and October 1995 under NPDES No . 0000019 as issued to Star Kist Samoa ,INC .**

Attached is Star Kist Samoa's Discharge Monitoring Reports covering the months of February , March and April 1996 .

Star Kist Samoa met all Effluent limits .

Sincerely

Virgil Shouse
Manager , Cannery Manufacturing

VS \ ls : \ npdes \samoa

Attachments :
cc : Ms. Sheila Wiegman
Ms. Pat Young
Mr. Norman Wei
Mr. Barry Mills

Wastewater Summary Report for the month of February 1996

Date	Production Tons	Flow mgd	Alum #/day	Poly #/day	Max Temp F	pH Limits Lo	pH Limits Hi	Oil & Grease Eff mg/l	Oil & Grease Total #/day	TSS Eff mg/l	TSS Total #/day	TP Eff mg/l	TP Total #/day	TN Eff mg/l	TN Total #/day	Total Ammonia Eff mg/l	BOD Eff mg/l
1	417.540	1.3070	1078.8	24.2	76	6.7	7.2										
2	463.724	1.1406	774.3	18.6	78	6.8	7.0										
3		0.4481	156.6	4.0	91	6.8	7.0										
4		0.6617	382.8	11.3	88	7.1	7.5										
5	437.775	1.0161	696.0	18.2	78	7.1	7.4										
6	437.237	1.2536	817.8	21.4	76	6.7	7.3	39.0	406.6	80.5	839.2	9.79	102.06	85.7	893.4	41.3	
7	459.839	1.2160	878.7	19.2	78	6.8	7.1	31.3	316.5	55.0	556.2	9.58	96.88	89.5	905.0		
8	456.718	1.2586	765.6	19.4	76	6.7	7.0										
9	405.338	1.1839	426.3	12.5	79	6.7	7.0										
10		0.3850	139.2	3.4	86	6.7	6.9										
11		0.7422	374.1	8.3	80	6.8	7.6										
12	442.319	1.3579	774.3	16.4	76	6.8	7.7										
13	423.524	1.4139	809.1	19.8	74	6.7	7.1	12.7	149.3	95.3	1120.5	6.44	75.70	56.3	662.0	13.0	
14	458.415	1.3285	965.7	19.8	76	6.7	7.0	18.6	205.5	63.5	701.5	7.92	87.50	65.9	728.1		436.0
15	448.808	1.4978	826.5	18.4	77	6.8	7.1										
16	373.876	1.0901	626.4	15.4	82	6.7	7.1										
17		0.3797	182.7	4.6	89	6.6	6.8										
18		0.3357	278.4	5.5	89	6.5	7.0										
19		0.8943	530.7	14.1	76	6.9	7.7										
20	430.660	1.1294	652.5	17.2	81	6.9	7.7										
21	422.026	1.2470	861.3	22.6	76	7.0	7.4	11.3	117.2	75.5	782.9	4.01	41.58	55.1	571.4	12.1	424.0
22	474.406	1.3493	913.5	22.0	77	7.1	7.3	14.7	164.9	142.0	1593.4	12.30	138.02	87.0	976.2		
23	472.791	1.2414	661.2	19.2	78	6.8	7.4										
24	392.653	1.0865	556.8	18.8	84	6.9	7.1										
25		0.8578	404.6	11.3	84	6.8	7.0										
26	454.012	1.1585	574.2	14.3	75	7.0	7.1										
27	464.124	1.2436	756.9	17.0	77	6.7	7.1	16.6	171.7	71.5	739.4	12.00	124.10	89.0	920.4	35.3	
28	417.803	1.3504	783.0	19.4	78	6.6	7.1	31.8	357.1	67.5	758.0	11.20	125.78	94.1	1056.7		
29	438.156	1.5641	722.1	18.6	78	6.7	7.1										
TOT	9191.744	31.1387	18370.1	454.9					1888.8		7091.1		791.6		6713.2		
AVG	437.702	1.0737	633.5	15.7	80			22.0	236.1	81.4	886.4	9.2	99.0	77.8	839.2	25.4	430.0

acility Name/Location if different)

NAME STAR KIST SAMOA, INC.

ADDRESS P.O. BOX 368

PAGO PAGO, AMERICAN SAMOA 96799

FACILITY

LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

(2-16) (17-19)

AS 0000019	001
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	1996	02	01	TO	1996	02	29
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

Form Approved
OMB No. 2040-
Expires 3-31-

NOTE: Read instructions before completing this form

PARAMETER (32-47)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-65)	SAMPLE TYPE (66-71)
FLOW	SAMPLE MEASUREMENT	1.0737	1.4978	mgd					0	continous	
	PERMIT REQUIREMENT		2.9								
BOD	SAMPLE MEASUREMENT				424.0	430.0	436.0		0	2/mo	composite
	PERMIT REQUIREMENT				N/A	N/A	N/A				
TSS	SAMPLE MEASUREMENT	886.4	1593.4	lbs/day	55.0	81.4	142.0	mg/l	0	2/wk	composite
	PERMIT REQUIREMENT	2653	6673		N/A	N/A	N/A				
OIL & GREASE	SAMPLE MEASUREMENT	236.1	406.6	lbs/day	11.3	22.0	39.0	mg/l	0	2/wk	composite
	PERMIT REQUIREMENT	675	1688		N/A	N/A	N/A				
TP	SAMPLE MEASUREMENT	99.0	138.0	lbs/day	4.0	9.2	12.3	mg/l	0	2/wk	composite
	PERMIT REQUIREMENT	192	309		N/A	N/A	N/A				
TN	SAMPLE MEASUREMENT	839.2	1056.7	lbs/day	55.1	77.8	94.1	mg/l	0	2/wk	composite
	PERMIT REQUIREMENT	1200	2100		N/A	N/A	N/A				
TOTAL AMMONIA	SAMPLE MEASUREMENT				12.1	25.4	41.3	mg/l	0	1/wk	composite
	PERMIT REQUIREMENT				N/A	N/A	133				

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

VIRGIL SHOUSE
Manager, Cannery Manufacturing
TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 (Penalties under these statutes may include fines up to $10000 and or maximum imprisonment of between 6 months and 5 years)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE

AREA CODE NUMBER

DATE

YEAR MO DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

EPA Form 3320-1 (Rev. 10-79) PREVIOUS EDITIONS MAY NOT BE USED.

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME STAR-KIST SAMOA, INC
ADDRESS P.O. Box 368
PAGO PAGO, AMERICAN SAMOA
96799
FACILITY
LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 204
Expires 3-31-84

(2-16) AS 0000019 PERMIT NUMBER

(17-19) 001 DISCHARGE NUMBER

MONITORING PERIOD

FROM YEAR	MO	DAY	TO YEAR	MO	DAY
1996	02	01	1996	02	29
(20-21)	(22-23)	(24-25)	(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE
TEMPERATURE	SAMPLE MEASUREMENT				74	80	91	°F	0	continous	
	PERMIT REQUIREMENT					90	95				
pH	SAMPLE MEASUREMENT				6.5		7.7		0	continous	
	PERMIT REQUIREMENT				6.5		8.6				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

VIRGIL SHOUSE
Manager, Cannery Manufacturing
TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 (Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE
AREA CODE NUMBER

DATE
YEAR MO

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

EPA Form 3320-1 (Rev. 10-79) PREVIOUS EDITION TO BE USED UNTIL SUPPLY IS EXHAUSTED (REPLACES EPA FORM T-40 WHICH MAY NOT BE USED)

PAGE OF

Wastewater Summary Report for the month of **March 1996**

Date	Production Tons	Flow mgd	Alum #/day	Poly #/day	Max Temp F	pH Limits Lo	pH Limits Hi	Oil &Grease Eff mg/l	Oil &Grease Total #/day	TSS Eff mg/l	TSS Total #/day	TP Eff mg/l	TP Total #/day	TN Eff mg/l	TN Total #/day	Total Ammonia Eff mg/l	BOD Eff mg/l
1	432.624	1.0870	635.1	16.2	83	6.7	6.9										
2		0.7184	374.1	9.5	86	6.7	6.8										
3		0.9231	609.0	13.0	84	6.5	7.6										
4	442.263	1.3584	817.8	22.2	80	6.7	7.7										
5	420.806	1.4149	1148.4	24.3	77	6.7	7.3										
6	432.131	1.4333	1035.3	22.4	80	6.9	7.3	9.1	108.5	91.0	1084.7	6.11	72.83	62.6	746.1	27.9	
7	423.486	1.5627	1104.9	25.5	80	6.9	7.2	6.5	84.5	74.0	961.7	7.79	101.23	71.9	934.4		
8	401.256	1.1044	713.4	16.8	90	6.9	7.2										
9		0.5926	452.4	8.1	92	6.6	6.9										
10		1.0026	426.3	10.7	80	6.9	7.5										
11	440.920	1.0776	791.7	16.0	86	6.8	7.3										
12	465.542	1.2984	939.6	20.0	78	6.6	7.1	11.4	123.1	36.5	394.1	8.79	94.91	64.5	696.4	17.9	
13	477.493	1.3018	1052.7	25.3	79	6.8	7.7	16.0	173.2	60.5	655.0	9.75	105.55	73.8	798.9		397.0
14	446.849	1.5350	635.1	19.6	79	6.8	7.3										
15	449.389	1.4153	530.7	12.9	83	7.0	7.2										
16		0.5229	208.8	5.3	86	6.8	6.9										
17		0.9428	278.4	11.3	83	6.7	7.7										
18	461.934	1.4630	426.3	12.9	78	6.7	8.0										
19	455.446	1.3943	600.3	16.2	80	6.7	7.0	8.6	99.7	61.5	713.1	13.2	153.05	69.2	802.4	28.2	
20	465.349	1.4556	591.6	19.6	80	6.7	7.0	45.8	554.4	124.0	1501.0	15.2	183.99	72.7	880.0		
21	477.582	1.4795	530.7	18.1	78	6.9	7.2										
22	426.281	1.2247	509.0	13.1	82	6.7	7.7										
23		0.6801	269.7	7.3	86	6.5	6.9										
24		0.7800	339.3	7.9	80	6.7	7.1										
25	479.078	1.2287	339.3	12.8	79	6.6	7.7										
26	473.595	1.3774	582.9	17.8	78	6.6	7.0	41.4	474.2	123.5	1414.6	13.9	159.22	80.4	920.9	24.6	506.0
27	473.373	1.3921	495.9	19.4	79	6.7	7.0	28.5	329.9	65.5	758.3	13.4	155.13	83.2	963.2		
28	462.923	1.2213	443.7	12.5	83	6.7	7.0										
29	466.691	1.2210	443.7	13.1	81	6.7	7.9										
30	417.670	1.2316	382.8	12.9	80	7.0	7.1										
31		0.8341	313.2	8.3	82	6.9	7.1										
TOT	9892.681	36.2746	18022.1	458.1					1947.5		7482.5		1025.9		6742.3		
AVG	449.667	1.1701	581.4	14.8	82			20.9	243.4	79.6	935.3	11.0	128.2	72.3	842.8	24.7	451.5

Facility Name/Location if different)

NAME STAR KIST SAMOA, INC.

ADDRESS P.O. BOX 368

PAGO PAGO, AMERICAN SAMOA 96799

FACILITY

LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-[illegible]
Expires 3-31-[illegible]

(2-16) PERMIT NUMBER: AS 0000019 (17-19) DISCHARGE NUMBER: 001

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	1996	03	01	TO	1996	03	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-65)	SAMPLE TYPE (66-71)
FLOW	SAMPLE MEASUREMENT	1.1701	1.5627	mgd					0	continous	
	PERMIT REQUIREMENT		2.9								
BOD	SAMPLE MEASUREMENT				397.0	451.5	506.0		0	2/mo	composit
	PERMIT REQUIREMENT				N/A	N/A	N/A				
TSS	SAMPLE MEASUREMENT	935.3	1501.0	lbs/day	36.5	79.6	124.0	mg/l	0	2/wk	composit
	PERMIT REQUIREMENT	2653	6673		N/A	N/A	N/A				
OIL & GREASE	SAMPLE MEASUREMENT	243.4	554.4	lbs/day	6.5	20.9	45.8	mg/l	0	2/wk	composit
	PERMIT REQUIREMENT	675	1688		N/A	N/A	N/A				
TP	SAMPLE MEASUREMENT	128.2	184.0	lbs/day	6.1	11.0	15.2	mg/l	0	2/wk	composit
	PERMIT REQUIREMENT	192	309		N/A	N/A	N/A				
TN	SAMPLE MEASUREMENT	842.8	963.2	lbs/day	62.6	72.3	83.2	mg/l	0	2/wk	composit
	PERMIT REQUIREMENT	1200	2100		N/A	N/A	N/A				
TOTAL AMMONIA	SAMPLE MEASUREMENT				17.9	24.7	28.2	mg/l	0	1/wk	composit
	PERMIT REQUIREMENT				N/A	N/A	133				

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

VIRGIL SHOUSE
Manager, Cannery Manufacturing

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 (Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE | NUMBER

DATE: YEAR | MO | DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

EPA Form 3320-1 (Rev. 10-79) PREVIOUS EDITION TO BE USED [illegible] MAY NOT BE USED.)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME STAR-KIST SAMOA, INC

ADDRESS P.O. Box 368

PAGO PAGO, AMERICAN SAMOA

96799

FACILITY

LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 204-
Expires 3-31-84

(2-16) AS 0000019 PERMIT NUMBER

(17-19) 001 DISCHARGE NUMBER

MONITORING PERIOD

FROM YEAR	MO	DAY	TO YEAR	MO	DAY
1996	03	01	1996	03	31
(20-21)	(22-23)	(24-25)	(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) (54-61) AVERAGE	MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) (46-53) (54-61) MINIMUM	AVERAGE	MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE
TEMPERATURE	SAMPLE MEASUREMENT				77	82	92	°F	0	continous	
	PERMIT REQUIREMENT					90	95				
pH	SAMPLE MEASUREMENT				6.5		8.0		0	continous	
	PERMIT REQUIREMENT				6.5		8.6				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

VIRGIL SHOUSE
Manager, Cannery Manufacturing

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SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE | NUMBER | YEAR | MO | DATE

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

PA Form 3320-1 (Rev. 10-79) PREVIOUS EDITION TO BE USED UNTIL SUPPLY IS EXHAUSTED (REPLACES EPA FORM T-40 WHICH MAY NOT BE USED) PAGE OF

Wastewater Summary Report for the month of **April 1996**

Date	Production Tons	Flow mgd	Alum #/day	Poly #/day	Max Temp F	pH Limits Lo	pH Limits Hi	Oil &Grease Eff mg/l	Oil &Grease Total #/day	TSS Eff mg/l	TSS Total #/day	TP Eff mg/l	TP Total #/day	TN Eff mg/l	TN Total #/day	Total Ammonia Eff mg/l	BOD Eff mg/l
1	470.515	1.2648	478.5	12.9	76	6.6	7.2										
2	428.763	1.2928	435.0	16.6	80	6.7	7.2	25.0	268.8	49.0	526.8	11.00	118.30	75.9	445.2	39.8	
3	441.183	1.1501	321.9	13.3	87	6.7	6.9										
4	407.791	1.1357	413.3	13.7	82	6.7	6.9	27.9	263.5	95.0	897.2	17.60	166.20	103.9	981.3		
5	Plant shut down	0.6110	126.2	7.0	90	6.8	6.9										
6	Plant shut down	0.3925	217.5	5.7	91	6.5	6.8										
7	Plant shut down	0.3033	95.7	2.9	82	6.8	6.9										
8	Plant shut down	0.3137	95.7	2.6	82	6.8	7.0										
9	Plant shut down	0.7053	174.0	4.6	79	6.9	7.1										
10	Plant shut down	0.2975	182.7	2.4	78	6.9	7.0										
11	Plant shut down	0.3196															
12	Plant shut down	0.2445	113.1	3.0	77	7.8	7.9										
13	Plant shut down	0.4118	104.4	3.0	79	7.7	7.8										
14	Plant shut down	0.2730	104.4	3.0	80	7.8	7.8										
15	Plant shut down	0.2088	69.6	1.8	78	7.8	7.8										
16	Plant shut down																
17	Plant shut down	0.2782	156.6	3.0	80	7.8	7.8										
18	Plant shut down	0.3925	106.4	3.2	81	7.3	7.7										
19	Plant shut down	0.3857	252.3	5.7	83	6.8	7.4										
20	Plant shut down	0.3998	156.6	2.8	82	7.3	7.4										
21	Plant shut down	0.7070	169.7	6.6	82	6.7	7.4										
22	424.745	1.0159	282.8	10.2	74	6.8	7.1										
23	399.986	1.0883	504.6	14.9	77	6.8	7.2	42.0	380.1	102.0	923.1	14.10	127.61	66.8	604.6	31.8	446.0
24	406.175	1.1125	487.2	14.3	75	6.6	7.3	20.6	190.6	135.5	1253.6	12.40	114.72	74.1	685.5		353.7
25	454.142	1.0707	339.3	12.1	74	6.6	6.9										
26	433.584	1.2009	452.4	12.7	84	6.8	6.9										
27		0.4921	174.0	5.9	86	6.8	7.0										
28		0.6036	208.8	6.1	83	6.8	7.0										
29	447.973	1.3101	478.5	15.6	77	7.0	7.1										
30	456.005	2.0051	730.8	16.2	76	6.9	7.0										
TOT	4770.862	20.9868	7430.0	221.8					1103.0		3600.7		526.80		3087.4		
AVG	433.715	0.7237	265.4	7.9	81			28.9	275.8	95.4	900.2	13.80	131.70	80.2	771.9	35.8	399.9

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME STAR KIST SAMOA, INC.

ADDRESS P.O. BOX 368

PAGO PAGO, AMERICAN SAMOA 96799

FACILITY

LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

(2-16) (17-19)

AS 0000019 — PERMIT NUMBER

001 — DISCHARGE NUMBER

Form Approved
OMB No. 2040
Expires 3-31-88

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	1996	04	01	TO	1996	04	30
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE
	SAMPLE MEASUREMENT	0.7237	2.0051	mgd					0	continous	
	PERMIT REQUIREMENT		2.9								
BOD	SAMPLE MEASUREMENT				353.7	399.9	446.0		0	2/mo	composit
	PERMIT REQUIREMENT				N/A	N/A	N/A				
TSS	SAMPLE MEASUREMENT	900.2	1253.6	lbs/day	49.0	95.4	135.5	mg/l	0	2/wk	composit
	PERMIT REQUIREMENT	2653	6673		N/A	N/A	N/A				
OIL & GREASE	SAMPLE MEASUREMENT	275.8	380.1	lbs/day	20.6	28.9	42.0	mg/l	0	2/wk	composit
	PERMIT REQUIREMENT	675	1688		N/A	N/A	N/A				
TP	SAMPLE MEASUREMENT	131.7	166.2	lbs/day	11.0	13.8	17.6	mg/l	0	2/wk	composit
	PERMIT REQUIREMENT	192	309		N/A	N/A	N/A				
N	SAMPLE MEASUREMENT	771.9	981.3	lbs/day	66.8	80.2	103.9	mg/l	0	2/wk	composit
	PERMIT REQUIREMENT	1200	2100		N/A	N/A	N/A				
TOTAL AMMONIA	SAMPLE MEASUREMENT				31.8	35.8	39.8	mg/l	0	1/wk	composit
	PERMIT REQUIREMENT				N/A	N/A	133				

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

VIRGIL SHOUSE

Manager, Cannery Manufacturing

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 (Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE — AREA CODE — NUMBER

DATE — YEAR — MO

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME: STAR-KIST SAMOA, INC

ADDRESS: P.O. Box 368
PAGO PAGO, AMERICAN SAMOA
96799

FACILITY

LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

(2-16)

AS 0000019
PERMIT NUMBER

001
DISCHARGE NUMBER

(17-19)

Form Approved.
OMB No. 2040-
Expires 3-31-9

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	1996	04	01	TO	1996	04	30
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

PARAMETER (42-53)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (18-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-69)	SAMPLE TYPE
TEMPERATURE	SAMPLE MEASUREMENT				74	81	91	°F	0	continous	
	PERMIT REQUIREMENT					90	95				
pH	SAMPLE MEASUREMENT				6.5		7.9		0	continous	
	PERMIT REQUIREMENT				6.5		8.6				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

VIRGIL SHOUSE
Manager, Cannery Manufacturing

TYPED OR PRINTED

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SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE

AREA CODE | NUMBER

DATE

YEAR | MO

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

StarKist Samoa, Inc.

... of Star-Kist Foods, Inc.

... Tutuila Island
... Samoa 96799

... 84 644-4231
... 644-2440

February 20, 1996

Mr. Norman Lovelace
OPINAP (E-4)
U.S. EPA Region 9
75 Hawthorne Street
San Francisco, CA 94105

Mr. Togipa Tausaga
ASEPA
Office of the Governor
American Samoa Government
Pago Pago, American Samoa 96799

Gentlemen:

Re: **Discharge Monitoring Report for the Months of November, December 1995 and January 1996 under NPDES No. 0000019 as issued to Star Kist Samoa, INC.**

Attached is Star Kist Samoa's Discharge Monitoring Reports covering the months of November, December 1995 and January 1996.

Star Kist Samoa met all Effluent limits.

Sincerely

Virgil Shouse
Manager, Cannery Manufacturing

VS \ ls : \ npdes \samoa

Attachments:
cc: Ms. Sheila Wiegman
Ms. Pat Young
Mr. Norman Wei
Mr. Barry Mills

FEB 29 1996
RECEIVED

Wastewater Summary Report for the month of November 1995

Date	Production Tons	Flow mgd	Alum #/day	Poly #/day	Max Temp F	ph Limit Lo	ph Limit Hi	Oil & Grease Eff mg/l	Oil & Grease Total #/day	TSS Eff mg/l	TSS Total #/day	TP Eff mg/l	TP Total #/day	TN Eff mg/l	TN Total #/day	Total Ammonia Eff mg/l	BOD Eff mg/l
1	454.982	1.4388	843.9	18.8	76	7.3	7.6	10.5	125.6	73.0	873.4	6.18	73.94	65.4	782.5	32.8	
2	385.487	1.5636	965.7	21.0	76	7.6	7.8	10.7	139.1	92.0	1196.3	6.91	89.85	59.9	778.9		
3	444.640	1.2364	748.2	11.3	76	7.7	7.9										
4		0.5080	130.5	7.5	84	7.2	7.9										
5		0.9847	461.1	9.9	78	7.5	7.9										
6	436.799	1.3509	687.3	19.2	78	7.8	7.9										
7	432.026	1.6147	1044.0	23.4	80	7.8	7.9	28.2	378.7	85.0	1141.4	3.59	48.21	63.2	848.6	26.0	
8	461.974	1.6259	870.0	23.0	78	7.7	8.0	12.4	167.7	45.0	608.4	6.77	91.54	72.4	978.9		
9	438.727	1.5637	887.4	21.4	78	7.8	8.2										
10	399.180	1.0892	735.2	16.6	81	7.8	7.9										
11		0.5432	130.5	3.2	89	7.4	7.8										
12		1.0944	530.7	13.5	81	7.3	7.9										
13	464.789	1.8242	870.0	21.4	79	7.8	8.0										
14	462.102	2.0631	887.4	23.2	80	7.8	8.0										
15	460.711	2.1123	991.8	24.8	79	7.8	8.0	4.8	84.3	51.0	895.9	5.22	91.69	58.2	1022.3	16.9	408.8
16	461.175	2.0041	1061.4	24.6	79	7.8	7.9	20.6	343.3	75.5	1258.3	7.00	116.66	57.7	961.6		
17	445.991	1.2314	678.6	16.8	83	7.8	8.0										
18		0.4329	178.4	4.0	86	7.7	7.8										
19		0.8470	400.2	13.1	82	7.7	7.8										
20	464.384	1.5186	1017.9	19.2	78	7.8	8.0										
21	477.889	1.4128	939.6	25.3	78	7.7	8.0	3.4	39.9	47.0	552.2	9.80	115.14	77.3	908.2	36.2	
22	475.126	1.3174	835.2	17.6	84	7.6	7.8	5.1	55.9	42.0	460.1	10.90	119.42	81.4	891.8		
23		0.6198	208.8	5.5	88	7.5	8.0										
24		0.4188	156.6	3.2	82	7.2	7.9										
25		0.3165	78.3	2.2	79	7.2	7.3										
26		1.2573	495.9	11.1	87	6.7	7.6										
27	449.787	1.3486	774.3	18.8	77	7.6	7.8										
28	460.634	1.5072	870.0	21.2	78	7.6	7.7	21.9	274.5	62.5	783.4	11.70	146.65	74.2	930.0	39.1	
29	484.418	1.4256	852.6	18.0	80	7.7	7.8	7.4	87.7	42.0	497.9	7.90	93.66	75.5	895.1		376.0
30	466.539	1.4001	748.2	21.4	78	7.6	7.8										
TOT	9027.360	37.6712	20079.7	480.2					1696.7		8267.3		986.8		8997.9		
AVG	451.368	1.2557	669.3	16.0	80			12.5	169.7	61.5	826.7	7.6	98.7	68.5	899.8	30.2	392.4

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME ~~STAR KIST SAMOA, INC.~~

ADDRESS ~~P.O. BOX 368~~

~~PAGO PAGO, AMERICAN SAMOA 96799~~

FACILITY

LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

(2-16) AS 0000019 PERMIT NUMBER

(17-19) 001 DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	1995	11	01	TO	1995	11	30
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

Form Approved
OMB No. 2040-0[illegible]
Expires 3-31-88

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
FLOW	SAMPLE MEASUREMENT	1.2557	2.1123	mgd						continous	
	PERMIT REQUIREMENT		2.9								
BOD	SAMPLE MEASUREMENT				376.0	392.4	408.8			2/mo	composite
	PERMIT REQUIREMENT				N/A	N/A	N/A				
TSS	SAMPLE MEASUREMENT	826.7	1258.3	lbs/day	42.0	61.5	92.0	mg/l		2/wk	composite
	PERMIT REQUIREMENT	2653	6673		N/A	N/A	N/A				
OIL & GREASE	SAMPLE MEASUREMENT	169.7	378.7	lbs/day	3.4	12.5	28.2	mg/l		~~2/wk~~	composite
	PERMIT REQUIREMENT	675	1688		N/A	N/A	N/A				
TP	SAMPLE MEASUREMENT	98.7	146.7	lbs/day	3.6	7.6	11.7	mg/l		~~2/wk~~	composite
	PERMIT REQUIREMENT	192	309		N/A	N/A	N/A				
TN	SAMPLE MEASUREMENT	899.8	1022.3	lbs/day	57.7	68.5	81.4	mg/l		~~2/wk~~	composite
	PERMIT REQUIREMENT	1200	2100		N/A	N/A	N/A				
TOTAL AMMONIA	SAMPLE MEASUREMENT				16.9	30.2	39.1	mg/l		~~1/wk~~	composite
	PERMIT REQUIREMENT				N/A	N/A	133				

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

VIRGIL SHOUSE
Manager, Cannery Manufacturing

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 (Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE — AREA CODE — NUMBER

DATE — YEAR — MO — DA

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME: STAR KIST SAMOA, INC

ADDRESS: P.O. Box 368
PAGO PAGO, AMERICAN SAMOA
96799

FACILITY

LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0
Expires 3-31-88

(2-16) PERMIT NUMBER: AS 0000019

(17-19) DISCHARGE NUMBER: 001

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	1995	11	01	TO	1995	11	30
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69)
FLOW	SAMPLE MEASUREMENT				76	80	89	°F		continous	
	PERMIT REQUIREMENT					90	95				
pH	SAMPLE MEASUREMENT				6.7		8.0			continous	
	PERMIT REQUIREMENT				6.5		8.6				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

VIRGIL SHOUSE
Manager, Cannery Manufacturing

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SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE | NUMBER

DATE: YEAR | MO | DA

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Wastewater Summary Report for the month of **December 1995**

Date	Production Tons	Flow mgd	Alum #/day	Poly #/day	Max Temp F	pH Limits Lo	pH Limits Hi	Oil &Grease Eff mg/l	Oil &Grease Total #/day	TSS Eff mg/l	TSS Total #/day	TP Eff mg/l	TP Total #/day	TN Eff mg/l	TN Total #/day	Total Ammonia Eff mg/l	BOD Eff mg/l
1	449.602	1.1874	591.6	17.6	86	7.6	7.8										
2		0.3681	226.2	6.1	87	7.3	7.7										
3		0.1713	139.2	2.4	81	7.2	7.5										
4		1.3195	495.9	13.7	80	6.8	7.3										
5	437.618	1.4921	1035.3	22.2	78	6.9	7.6										
6	428.456	1.2910	883.1	23.4	79	6.8	7.6	7.0	75.2	56.0	601.2	8.21	88.14	62.8	674.2	36.1	
7	430.871	1.4350	848.3	15.9	77	6.9	7.5	4.5	53.7	46.0	548.9	4.77	56.92	71.8	856.8		
8	430.645	1.4246	800.4	16.4	77	7.1	7.4										
9	454.233	1.1658	826.5	18.4	84	7.2	7.5										
10		1.1697	530.7	11.9	88	7.1	7.4										
11	438.758	1.6616	626.4	19.0	78	7.1	7.4										
12	432.511	1.3990	974.4	21.8	79	6.7	7.4	4.2	48.9	36.0	418.8	4.70	54.68	54.5	634.1	22.2	372.0
13	446.090	1.3493	965.7	20.2	78	6.9	7.2	2.3	25.8	35.5	398.3	8.23	92.35	72.8	816.9		
14	442.170	1.5023	774.3	23.0	78	7.0	7.4										
15	445.866	1.1855	661.2	16.8	82	7.1	7.3										
16		0.5445	182.7	4.6	87	7.0	7.2										
17		0.8215	417.6	10.9	82	6.9	7.2										
18	446.531	1.5857	408.9	18.3	79	7.0	7.5										
19	416.093	1.3444	913.5	22.0	78	7.1	7.5	6.4	71.6	54.5	609.3	8.86	99.06	79.2	885.5	32.9	393.0
20	427.608	1.3938	1017.9	24.0	78	7.2	7.7	7.3	84.6	42.0	486.8	8.05	93.31	71.9	833.4		
21	422.741	1.2771	852.6	20.2	78	7.0	7.8										
22	372.111	1.0219	609.0	13.7	85	7.0	7.1										
23		0.5743	230.6	5.9	88	6.6	7.0										
24		0.0386			84	6.5	6.9										
25		0.4338			82	6.8	6.8										
26		0.7423	139.2	3.0	81	6.8	7.2										
27		0.2292	139.2	4.0	80	6.8	6.8										
28		0.2645	139.2	3.6	76	7.0	7.1										
29		0.1690	69.6	2.0	79	7.2	7.2										
30		0.3291			79												
31		0.1214			74												
TOT	6921.904	29.0133	15499.2	381.0					359.8		3063.3		484.5		4700.9		
AVG	432.619	0.9359	574.0	14.1	81			5.3	60.0	45.0	510.6	7.1	80.7	68.8	783.5	30.4	382.5

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME STAR KIST SAMOA, INC.

ADDRESS P.O. BOX 368

PAGO PAGO, AMERICAN SAMOA 96799

FACILITY

LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

(2-16) (17-19)

AS 0000019 — PERMIT NUMBER

001 — DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	1995	12	01	TO	1995	12	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

Form Approved
OMB No. 2040-0
Expires 3-31-88

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
FLOW	SAMPLE MEASUREMENT	0.9359	1.6616	mgd						continous	
	PERMIT REQUIREMENT		2.9								
BOD	SAMPLE MEASUREMENT				372.0	382.5	393.0			2/mo	composite
	PERMIT REQUIREMENT				N/A	N/A	N/A				
TSS	SAMPLE MEASUREMENT	510.6	609.3	lbs/day	35.5	45.0	56.0	mg/l		2/wk	composite
	PERMIT REQUIREMENT	2653	6673		N/A	N/A	N/A				
OIL & GREASE	SAMPLE MEASUREMENT	60.0	84.6	lbs/day	2.3	5.3	7.3	mg/l		2/wk	composite
	PERMIT REQUIREMENT	675	1688		N/A	N/A	N/A				
TP	SAMPLE MEASUREMENT	80.7	99.1	lbs/day	4.7	7.1	8.9	mg/l		2/wk	composite
	PERMIT REQUIREMENT	192	309		N/A	N/A	N/A				
TN	SAMPLE MEASUREMENT	783.5	885.5	lbs/day	54.5	68.8	79.2	mg/l		2/wk	composite
	PERMIT REQUIREMENT	1200	2100		N/A	N/A	N/A				
TOTAL AMMONIA	SAMPLE MEASUREMENT				22.2	30.4	36.1	mg/l		1/wk	composite
	PERMIT REQUIREMENT				N/A	N/A	133				

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

VIRGIL SHOUSE
Manager, Cannery Manufacturing

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 (Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE — AREA CODE — NUMBER

DATE — YEAR — MO — DA

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME: STAR-KIST SAMOA, INC

ADDRESS: P.O. Box 368
PAGO PAGO, AMERICAN SAMOA
96799

FACILITY

LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-
Expires 3-31-8

(2-16) PERMIT NUMBER	(17-19) DISCHARGE NUMBER
AS 0000019	001

MONITORING PERIOD

	YEAR (20-21)	MO (22-23)	DAY (24-25)		YEAR (26-27)	MO (28-29)	DAY (30-31)
FROM	1995	12	01	TO	1995	12	31

NOTE: Read instructions before completing this form

PARAMETER (42-52)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (18-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69)
FLOW	SAMPLE MEASUREMENT					81	88	°F		continous	
	PERMIT REQUIREMENT					90	95				
pH	SAMPLE MEASUREMENT				6.5		7.8			continous	
	PERMIT REQUIREMENT				6.5		8.6				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
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	SAMPLE MEASUREMENT										
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	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

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Manager, Cannery Manufacturing

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SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE | NUMBER

DATE: YEAR | MO

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Wastewater Summary Report for the month of January 1996

Date	Production Tons	Flow mgd	Alum #/day	Poly #/day	Max Temp F	pH Limits Lo	pH Limits Hi	Oil &Grease Eff mg/l	Oil &Grease Total #/day	TSS Eff mg/l	TSS Total #/day	TP Eff mg/l	TP Total #/day	TN Eff mg/l	TN Total #/day	Total Ammonia Eff mg/l	BOD Eff mg/l
1	Plant shut down	P/OFF	P/OFF	P/OFF	P/OFF	P/OFF	P/OFF										
2	Plant shut down	P/OFF	P/OFF	P/OFF	P/OFF	P/OFF	P/OFF										
3	Plant shut down	P/OFF	P/OFF	P/OFF	P/OFF	P/OFF	P/OFF										
4	Plant shut down	P/OFF	P/OFF	P/OFF	P/OFF	P/OFF	P/OFF										
5	Plant shut down	0.6840	226.2	6.3	80	7.6	7.8										
6	Plant shut down	0.7230	165.3	3.4	82	7.5	7.8										
7	Plant shut down	0.6857	243.6	6.5	81	7.5	7.9										
8	387.120	0.9096	413.3	9.5	81	7.3	7.6										
9	400.662	1.0098	495.9	15.8	80	7.2	7.4										
10	382.116	0.9426	1087.5	19.9	78	7.2	7.4	18.8	147.4	113.5	889.7	6.59	63.44	66.9	644.1	40.0	258.7
11	440.128	1.1577	852.6	18.2	76	7.2	7.5	5.4	52.0	51.5	495.8	7.73	74.29	71.5	687.1		
12	451.512	1.1556	600.3	16.4	79	7.3	7.5										
13		0.6041	226.2	7.5	92	7.3	7.4										
14		0.9333	478.5	13.5	81	7.2	7.4										
15	433.025	0.9484	669.9	13.9	82	7.4	7.5										
16	469.533	1.1740	817.8	19.5	81	6.7	7.7	65.4	638.5	88.0	859.1	9.12	89.04	66.9	653.1	40.4	
17	446.465	1.0345	704.7	18.4	79	6.7	7.5	10.1	86.9	48.0	412.9	9.73	83.71	82.7	711.5		
18	459.130	1.3079	835.2	22.8	78	6.9	7.1										
19	427.820	1.0921	617.7	15.2	79	7.0	7.1										
20		0.3484	278.4	7.9	86	7.0	7.1										
21		0.6760	304.5	9.1	81	6.9	7.2										
22	432.549	1.1307	609.0	22.6	80	7.1	7.3										
23	455.202	1.0794	852.6	20.8	78	6.6	7.3	7.6	68.2	67.0	601.4	5.20	46.68	68.5	614.9	42.1	
24	440.748	1.1308	713.4	18.4	78	6.5	7.1	22.2	208.8	101.0	949.8	7.04	66.20	56.7	533.2		
25	446.714	1.1700	730.8	20.2	80	6.7	7.3										
26	379.870	0.9083	704.7	18.8	83	6.6	7.4										
27		0.3519	261.0	4.6	88	6.6	7.0										
28		0.6560	395.9	8.9	82	6.6	7.5										
29	438.667	1.0959	696.0	18.4	86	6.9	7.7										
30	384.910	1.0986	817.8	20.6	81	6.7	7.0	78.1	713.5	146.5	1338.4	13.40	122.42	132.1	1206.9	78.5	430.0
31	432.603	1.1832	930.9	19.4	80	6.7	7.0	15.8	155.5	44.0	432.9	7.00	68.88	70.7	695.7		
TOT	7708.774	25.1915	15729.7	396.5					2070.8		5980.0		614.7		5746.5		
AVG	428.265	0.9330	582.6	14.7	81			27.9	258.9	82.4	747.5	8.2	76.8	77.0	718.3	50.3	344.4

ERMITTEE NAME/ADDRESS (Include cility Name/Location if different)
AME STAR KIST SAMOA, INC.
DDRESS P.O. BOX 368
PAGO PAGO, AMERICAN SAMOA 96799
ACILITY
OCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0
Expires 3-31-88

(2-16) PERMIT NUMBER: AS 0000019
(17-19) DISCHARGE NUMBER: 001

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	1996 (20-21)	01 (22-23)	01 (24-25)	TO	1996 (26-27)	01 (28-29)	31 (30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69)
FLOW	SAMPLE MEASUREMENT	0.9330	1.3079	mgd						continous	
	PERMIT REQUIREMENT		2.9								
BOD	SAMPLE MEASUREMENT									2/mo	composite
	PERMIT REQUIREMENT				N/A	N/A	N/A				
TSS	SAMPLE MEASUREMENT	747.5	1338.4	lbs/day	44.0	82.4	146.5	mg/l		2/wk	composite
	PERMIT REQUIREMENT	2653	6673		N/A	N/A	N/A				
OIL & GREASE	SAMPLE MEASUREMENT	258.9	713.5	lbs/day	5.4	27.9	78.1	mg/l		2/wk	composite
	PERMIT REQUIREMENT	675	1688		N/A	N/A	N/A				
TP	SAMPLE MEASUREMENT	76.8	122.4	lbs/day	5.2	8.2	13.4	mg/l		2/wk	composite
	PERMIT REQUIREMENT	192	309		N/A	N/A	N/A				
TN	SAMPLE MEASUREMENT	718.3	1206.9	lbs/day	56.7	77.0	132.1	mg/l		2/wk	composite
	PERMIT REQUIREMENT	1200	2100		N/A	N/A	N/A				
TOTAL AMMONIA	SAMPLE MEASUREMENT				40.0	50.3	78.5	mg/l		1/wk	composite
	PERMIT REQUIREMENT				N/A	N/A	133				

IAME/TITLE PRINCIPAL EXECUTIVE OFFICER

VIRGIL SHOUSE
lanager, Cannery Manufacturing

TYPED OR PRINTED

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SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE | NUMBER

DATE: YEAR | MO | DA

OMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME STAR KIST SAMOA, INC

ADDRESS P.O. Box 368

PAGO PAGO, AMERICAN SAMOA

96799

FACILITY

LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040
Expires 3-31-83

(2-16) PERMIT NUMBER: AS 0000019

(17-19) DISCHARGE NUMBER: 001

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	1996	01	01	TO	1996	01	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form

PARAMETER (32-42)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (18-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69)
FLOW	SAMPLE MEASUREMENT				76	81	92	°F		continous	
	PERMIT REQUIREMENT					90	95				
pH	SAMPLE MEASUREMENT				6.5		7.9			continous	
	PERMIT REQUIREMENT				6.5		8.6				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
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	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

VIRGIL SHOUSE

Manager, Cannery Manufacturing

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 (*Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years*)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE | NUMBER

DATE: YEAR | MO | DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (*Reference all attachments here*)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)
NAME Star Kist Samoa
ADDRESS P.O. Box 368
Pago Pago, American Samoa 96799
FACILITY
LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004
Expires 3-31-88

(2-16) PERMIT NUMBER	(17-19) DISCHARGE NUMBER
AS 0000019	001

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	1995	11	16	TO			
	(18-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
Total Cadmium	SAMPLE MEASUREMENT	<0.001								once/6monthcomp	
	PERMIT REQUIREMENT										
Total Chromium	SAMPLE MEASUREMENT	<0.001								"	"
	PERMIT REQUIREMENT										
Total Lead	SAMPLE MEASUREMENT	<0.001								"	"
	PERMIT REQUIREMENT										
Total Mercury	SAMPLE MEASUREMENT	<0.0005+								"	"
	PERMIT REQUIREMENT										
Total Zinc	SAMPLE MEASUREMENT	0.11								"	"
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319 (Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE | NUMBER

DATE: YEAR | MO | DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

rcd 11/20/95

StarKist Samoa, Inc.

November , 15 1995

Mr . Norman Lovelace
OPINAP (E - 4)
U . S . EPA Region 9
75 Hawthorne Street
San Francisco , CA 94105

Mr . Togipa Tausaga
ASEPA
Office of the Governor
American Samoa Government
Pago Pago , American Samoa 96799

Gentlemen :

Re : **Discharge Monitoring Report for the Months of August , September and October 1995 under NPDES No . 0000019 as issued to Star Kist Samoa ,INC .**

Attached is Star Kist Samoa's Discharge Monitoring Reports covering the months of August , September and October 1995 .

Star Kist Samoa met all Effluent limits except for Oil and Grease pounds / day on August 1, 1995 which exceeded the Maximum limits.

Sincerely

Virgil Shouse
Manager , Cannery Manufacturing

VS \ ls : \ npdes \samoa

Attachments :
cc : Ms. Sheila Wiegman
Ms. Pat Young
Mr. Norman Wei
Mr. Barry Mills

Wastewater Summary Report for the month of August 1995

Date	Production Tons	Flow mgd	Alum #/day	Poly #/day	Max Temp F	ph Limit Lo	ph Limit Hi	Oil & Grease Eff mg/l	Oil & Grease Total #/day	TSS Eff mg/l	TSS Total #/day	TP Eff mg/l	TP Total #/day	TN Eff mg/l	TN Total #/day	Total Ammonia Eff mg/l	BOD Eff mg/l
1	453.958	1.3479	709.1	23.8	87	6.8	7.2	163.9	1837.2	30.0	336.3	7.54	84.52	99.5	1115.3	54.7	
2	373.454	1.2663	683.0	23.8	76	6.6	7.0	2.8	29.5	16.5	173.8	3.58	37.70	76.5	805.6		514.5
3	451.927	1.1704	413.3	20.2	75	6.7	7.2										
4	435.078	1.2194	517.7	22.6	75	7.1	7.3										
5	425.661	1.2220	452.4	20.2	76	7.0	7.1										
6		0.8438	339.3	14.3	80	6.8	7.0										
7		1.1633	561.2	21.4	88	6.9	7.0										
8	438.264	1.3385	596.0	20.2	76	7.0	7.7										
9	432.221	1.3411	891.8	26.1	78	7.2	7.9	36.2	403.7	47.0	524.2	4.87	54.31	73.3	817.5	33.6	
10	443.850	1.3464	756.9	24.9	78	7.0	7.2	41.1	460.2	33.0	369.5	7.65	85.65	94.7	1060.3		399.0
11	445.059	1.4439	696.0	24.9	78	7.0	7.3										
12	412.312	1.1869	596.0	21.4	78	7.3	7.5										
13		0.9217	404.6	16.6	84	7.2	7.6										
14	406.667	1.3054	596.0	23.8	76	7.2	7.8										
15	454.266	1.2398	691.7	22.9	76	7.5	7.8	14.8	152.6	43.5	448.5	6.24	64.34	71.2	734.1	31.3	
16	433.900	1.3074	669.9	22.6	74	7.2	7.9	37.7	409.9	39.0	424.0	4.43	48.16	84.0	913.3		
17	448.504	1.1627	683.0	24.0	73	7.1	7.7										
18	438.857	1.2780	578.6	19.8	79	7.5	7.8										
19		1.0789	395.9	12.4	77	7.7	7.9										
20		0.8276	317.6	10.4	78	7.3	7.8										
21	413.347	1.2637	422.0	11.9	79	7.3	7.4										
22	367.874	1.2628	617.7	13.7	77	6.5	7.4	3.5	36.8	51.5	540.8	10.70	112.36	90.3	948.3	38.1	
23	294.288	1.2702	713.4	16.0	82	7.0	7.1	5.7	60.2	53.0	559.8	6.07	64.12	71.2	752.1		
24	400.873	1.6080	669.9	17.3	76	7.0	7.3										
25	420.211	1.1937	652.5	12.9	78	6.9	7.4										
26		0.5516	156.6	4.0	87	7.5	7.6										
27		1.1952	417.6	11.7	80	7.2	7.9										
28	432.143	1.4448	739.5	18.0	75	7.0	7.4										
29	423.388	1.6867	756.9	16.2	78	6.8	7.0	3.1	43.5	47.0	659.3	5.09	71.40	56.9	798.1	34.2	
30	461.571	1.6556	1218.0	7.1	77	6.8	7.0	2.4	33.0	40.5	557.6	8.36	115.10	71.6	985.8		
31	456.894	1.7924	974.4	6.8	76	6.6	7.0										
TOT	10164.567	38.9361	18888.5	551.9					3466.6		4593.8		737.7		8930.4		
AVG	423.524	1.2560	609.3	17.8	78			31.1	346.7	40.1	459.4	6.5	73.8	78.9	893.0	38.4	456.8

(Facility Name/Location if different)

NAME STAR KIST SAMOA, INC.

ADDRESS P.O. BOX 368

PAGO PAGO, AMERICAN SAMOA 96799

FACILITY

LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-
Expires 3-31-88

(2-16) PERMIT NUMBER	(17-19) DISCHARGE NUMBER
AS 0000019	001

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	1995	08	01	TO	1995	08	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

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PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
FLOW	SAMPLE MEASUREMENT	1.2560	1.7924	mgd						continous	
	PERMIT REQUIREMENT		2.9								
BOD	SAMPLE MEASUREMENT				399.0	456.8	514.5		0	2/mo	composite
	PERMIT REQUIREMENT				N/A	N/A	N/A				
TSS	SAMPLE MEASUREMENT	459.4	659.3	lbs/day	16.5	40.1	53.0	mg/l	0	2/wk	composite
	PERMIT REQUIREMENT	2653	6673		N/A	N/A	N/A				
OIL & GREASE	SAMPLE MEASUREMENT	346.7	1837.2	lbs/day	2.4	31.1	163.9	mg/l	0	2/wk	composite
	PERMIT REQUIREMENT	675	1688		N/A	N/A	N/A				
TP	SAMPLE MEASUREMENT	73.8	115.1	lbs/day	3.6	6.5	10.7	mg/l	0	2/wk	composite
	PERMIT REQUIREMENT	192	309		N/A	N/A	N/A				
TN	SAMPLE MEASUREMENT	893.0	1115.3	lbs/day	56.9	78.9	99.5	mg/l	0	2/wk	composite
	PERMIT REQUIREMENT	1200	2100		N/A	N/A	N/A				
TOTAL AMMONIA	SAMPLE MEASUREMENT				31.3	38.4	54.7	mg/l	0	1/wk	composite
	PERMIT REQUIREMENT				N/A	N/A	133				

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

VIRGIL SHOUSE
Manager, Cannery Manufacturing

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 (Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE

AREA CODE | NUMBER

DATE

YEAR | MO | DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME STAR KIST SAMOA, INC

ADDRESS P.O. Box 368
PAGO PAGO, AMERICAN SAMOA
96799

FACILITY

LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040
Expires 3-31-88

PERMIT NUMBER (2-16)	DISCHARGE NUMBER (17-19)
AS 0000019	001

MONITORING PERIOD

FROM YEAR	MO	DAY	TO YEAR	MO	DAY
1995	08	01	1995	08	31
(20-21)	(22-23)	(24-25)	(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form

PARAMETER (32-37)		(3 Card Only) (46-53) QUANTITY OR LOADING (54-61) AVERAGE	MAXIMUM	UNITS	(4 Card Only) (38-45) QUALITY OR CONCENTRATION (46-53) (54-61) MINIMUM	AVERAGE	MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE
TEMPERATURE	SAMPLE MEASUREMENT				73	78	88	°F	0	continous	
	PERMIT REQUIREMENT					90	95				
pH	SAMPLE MEASUREMENT				6.5		7.9			continous	
	PERMIT REQUIREMENT				6.5		8.6				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
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SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE | NUMBER

DATE: YEAR | MO | DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Wastewater Summary Report for the month of September 1995

Date	Production Tons	Flow mgd	Alum #/day	Poly #/day	Max Temp F	ph Limits Lo	ph Limits Hi	Oil & Grease Eff mg/l	Oil & Grease Total #/day	TSS Eff mg/l	TSS Total #/day	TP Eff mg/l	TP Total #/day	TN Eff mg/l	TN Total #/day	Total Ammonia Eff mg/l	BOD Eff mg/l
1	432.248	1.1917	626.4	4.2	80	6.6	7.1										
2		0.4480	156.6	2.1	74	6.7	6.9										
3		0.2115	69.6	1.9	76	6.7	6.9										
4		0.7735	574.2	14.9	74	6.8	7.1										
5	423.207	1.1930	596.0	17.1	76	6.8	7.6										
6	402.384	1.1765	643.8	17.8	77	6.7	7.2	4.0	39.1	26.0	254.4	8.25	80.72	51.7	505.8	33.2	
7	436.855	1.3463	652.5	19.6	78	7.0	7.2	6.7	75.0	32.0	358.3	11.90	133.23	61.9	693.0		
8	402.647	1.2755	661.2	16.2	77	7.0	7.2										
9	418.906	0.9694	400.2	8.7	84	7.0	7.2										
10		1.0731	417.6	11.9	87	7.0	7.2										
11	426.510	1.1508	643.8	15.0	78	7.2	7.3										
12	391.769	1.2640	887.4	16.6	78	7.3	7.6	52.2	548.7	61.0	641.2	11.60	121.93	66.0	693.8	47.1	545.0
13	415.482	1.4032	948.3	16.2	77	6.5	7.6	29.6	345.4	33.0	385.1	7.26	84.72	55.8	651.1		
14	386.812	1.2592	739.5	9.3	78	6.7	7.3										
15	342.700	0.9835	591.6	7.9	86	7.3	7.6										
16		0.4441	226.2	4.6	88	7.1	7.4										
17		0.9048	356.7	5.0	81	7.3	7.8										
18	409.583	1.5124	669.9	15.2	77	7.5	7.9										
19	400.260	1.4430	861.3	7.5	78	7.3	7.9	32.9	394.8	65.3	783.6	8.65	103.80	60.5	726.0	35.1	
20	399.762	1.4465	944.0	9.7	82	7.2	7.5										
21	404.067	1.5475	826.5	13.6	82	7.3	7.6	40.2	517.3	52.5	675.6	5.98	76.96	54.3	698.8		
22	416.431	1.1856	600.3	10.8	86	7.4	7.5										
23		0.4095	221.9	5.6	91	7.0	7.4										
24		0.7010	304.5	6.3	82	6.8	7.3										
25	431.958	1.1837	600.3	12.1	79	7.2	7.4										
26	445.285	1.2448	704.7	11.1	80	7.3	7.5	21.2	219.5	54.5	564.2	6.03	62.42	50.5	522.8	31.7	
27	432.370	1.2169	852.6	18.0	80	7.5	7.6	31.3	316.7	42.5	430.1	9.93	100.49	78.9	798.4		571.5
28	437.583	1.3317	852.6	19.8	80	7.4	7.5										
29	407.470	1.0207	587.3	12.7	80	7.4	7.5										
30		0.3880	104.4	2.4	81	7.3	7.5										
TOT	8664.289	31.6994	17321.9	333.8					2456.5		4092.5		764.3		5289.7		
AVG	412.585	1.0566	577.4	11.1	80			27.3	307.1	45.9	511.6	8.7	95.5	60.0	661.2	36.8	558.3

Facility Name/Location if different)

NAME STAR KIST SAMOA, INC.

ADDRESS P.O. BOX 368

PAGO PAGO, AMERICAN SAMOA 96799

FACILITY

LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040
Expires 3-31-88

(2-16) PERMIT NUMBER	(17-19) DISCHARGE NUMBER
AS 0000019	001

MONITORING PERIOD

	YEAR (20-21)	MO (22-23)	DAY (24-25)		YEAR (26-27)	MO (28-29)	DAY (30-31)
FROM	1995	09	01	TO	1995	09	31

NOTE: Read instructions before completing this form

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
FLOW	SAMPLE MEASUREMENT	1.0566	1.5475	mgd						continous	
	PERMIT REQUIREMENT		2.9								
BOD	SAMPLE MEASUREMENT				545.0	558.3	571.5		0	2/mo	composite
	PERMIT REQUIREMENT				N/A	N/A	N/A				
TSS	SAMPLE MEASUREMENT	511.6	783.6	lbs/day	26.0	45.9	65.3	mg/l	0	2/wk	composite
	PERMIT REQUIREMENT	2653	6673		N/A	N/A	N/A				
OIL & GREASE	SAMPLE MEASUREMENT	307.1	548.7	lbs/day	4.0	27.3	52.2	mg/l	0	2/wk	composite
	PERMIT REQUIREMENT	675	1688		N/A	N/A	N/A				
TP	SAMPLE MEASUREMENT	95.5	133.2	lbs/day	6.0	8.7	11.9	mg/l	0	2/wk	composite
	PERMIT REQUIREMENT	192	309		N/A	N/A	N/A				
TN	SAMPLE MEASUREMENT	661.2	798.4	lbs/day	51.7	60.0	78.9	mg/l	0	2/wk	composite
	PERMIT REQUIREMENT	1200	2100		N/A	N/A	N/A				
TOTAL AMMONIA	SAMPLE MEASUREMENT				31.7	36.8	47.1	mg/l	0	1/wk	composite
	PERMIT REQUIREMENT				N/A	N/A	133				

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

VIRGIL SHOUSE
Manager, Cannery Manufacturing

TYPED OR PRINTED

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TELEPHONE

AREA CODE | NUMBER

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COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME STAR KIST SAMOA, INC

ADDRESS P.O. Box 368

PAGO PAGO, AMERICAN SAMOA

96799

FACILITY

LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 204
Expires 3-31-84

(2-16)	(17-19)
AS 0000019	001
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	1995	09	01	TO	1995	09	30
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE
TEMPERATURE	SAMPLE MEASUREMENT				74	80	91	°F	0	continous	
	PERMIT REQUIREMENT					90	95				
pH	SAMPLE MEASUREMENT				6.5		7.9		0	continous	
	PERMIT REQUIREMENT				6.5		8.6				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
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	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

VIRGIL SHOUSE
Manager, Cannery Manufacturing

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 (Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE

AREA CODE | NUMBER

DATE

YEAR | MO

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

PA Form 3320-1 (Rev. 10-79) PREVIOUS EDITION TO BE USED UNTIL SUPPLY IS EXHAUSTED (REPLACES EPA FORM T-40 WHICH MAY NOT BE USED)

PAGE OF

Wastewater Summary Report for the month of October 1995

Date	Production Tons	Flow mgd	Alum #/day	Poly #/day	Max Temp F	pH Limits Lo	pH Limits Hi	Oil & Grease Eff mg/l	Oil & Grease Total #/day	TSS Eff mg/l	TSS Total #/day	TP Eff mg/l	TP Total #/day	TN Eff mg/l	TN Total #/day	Total Ammonia Eff mg/l	BOD Eff mg/l
1		0.8910	382.8	11.3	78	6.9	7.5										
2	432.708	1.1668	652.5	18.0	74	7.5	7.9										
3	438.199	1.2128	787.4	19.4	78	7.2	7.7	39.1	394.3	73.0	736.3	6.21	62.63	60.2	607.2	36.4	
4	441.566	1.6468	991.8	21.4	82	6.8	7.9	23.7	324.6	51.5	705.3	4.15	56.83	49.3	675.2		
5	482.044	1.4286	700.4	21.6	78	7.2	7.9										
6	422.928	0.8257	408.9	9.3	80	7.3	7.6										
7		0.4515	182.7	4.6	88	7.5	7.6										
8		0.4186	234.9	5.7	79	7.5	7.6										
9		0.2506	95.7	3.6	75	7.4	7.5										
10		0.0530	17.4	0.8	72	7.4	7.4										
11		0.0349			72												
12		0.0658	34.8	1.0	80	7.8	7.8										
13		0.0505			76												
14		0.0971	78.3	1.2	82	7.7	7.7										
15		0.8959	652.5	11.7	81	7.4	7.7										
16	407.414	1.4928	609.0	18.6	73	7.1	7.8										
17	466.294	1.4717	783.0	18.0	71	7.0	7.2										
18	485.167	1.3782	652.5	17.6	72	6.9	7.2	5.7	65.3	97.0	1111.7	14.00	160.46	105.0	1203.4	55.2	144.0
19	459.121	1.3318	713.4	18.4	70	7.0	7.2	8.1	89.7	84.7	938.1	10.10	111.86	66.8	739.8		
20	434.503	1.0040	548.1	11.3	73	6.9	7.2										
21		0.6483	374.1	5.1	85	6.8	6.9										
22		0.9164	696.0	9.5	72	7.0	7.2										
23	440.945	1.4530	809.1	15.1	74	6.9	7.3										
24	463.113	1.3197	756.9	15.4	76	6.8	7.1	12.6	138.3	85.5	938.3	10.60	116.33	126.0	1382.8	78.5	
25	435.775	1.4749	957.0	19.0	76	6.8	7.1	10.7	131.2	59.0	723.7	5.59	68.56	67.7	830.4		257.0
26	446.752	1.5029	800.4	18.8	75	6.9	7.1										
27	409.677	1.0817	348.0	8.3	75	7.0	7.4										
28		0.5712	130.5	4.6	78	7.2	7.3										
29		1.0554	435.0	13.1	77	7.1	7.5										
30	440.780	1.5162	843.9	19.0	76	7.2	7.5										
31	454.532	1.4838	661.2	15.8	76	7.3	7.5										
TOT	7561.518	29.1916	15338.2	357.2					1143.4		5153.4		576.7		5438.8		
AVG	444.795	0.9416	528.9	12.3	77			16.7	190.6	75.1	858.9	8.4	96.1	79.2	906.5	56.7	200.5

Facility Name/Location if different)

NAME STAR KIST SAMOA, INC.

ADDRESS P.O. BOX 368

PAGO PAGO, AMERICAN SAMOA 96799

FACILITY

LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-
Expires 3-31-88

(2-16) AS 0000019 PERMIT NUMBER

(17-19) 001 DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	1995	10	01	TO	1995	10	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
FLOW	SAMPLE MEASUREMENT	0.9416	1.6468	mgd						continous	
	PERMIT REQUIREMENT		2.9								
BOD	SAMPLE MEASUREMENT				144.0	200.5	257.0		0	2/mo	composite
	PERMIT REQUIREMENT				N/A	N/A	N/A				
TSS	SAMPLE MEASUREMENT	858.9	1111.7	lbs/day	51.5	75.1	97.0	mg/l	0	2/wk	composite
	PERMIT REQUIREMENT	2653	6673		N/A	N/A	N/A				
OIL & GREASE	SAMPLE MEASUREMENT	190.6	394.3	lbs/day	5.7	16.7	39.1	mg/l	0	2/wk	composite
	PERMIT REQUIREMENT	675	1688		N/A	N/A	N/A				
TP	SAMPLE MEASUREMENT	96.1	160.5	lbs/day	4.2	8.4	14.0	mg/l	0	2/wk	composite
	PERMIT REQUIREMENT	192	309		N/A	N/A	N/A				
TN	SAMPLE MEASUREMENT	906.5	1382.8	lbs/day	49.3	79.2	126.0	mg/l	0	2/wk	composite
	PERMIT REQUIREMENT	1200	2100		N/A	N/A	N/A				
TOTAL AMMONIA	SAMPLE MEASUREMENT				36.4	56.7	78.5	mg/l	0	1/wk	composite
	PERMIT REQUIREMENT				N/A	N/A	133				

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

VIRGIL SHOUSE
Manager, Cannery Manufacturing

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 (Penalties under these statutes may include fines up to $10000 and/or maximum imprisonment of between 6 months and 5 years)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE

AREA CODE | NUMBER

DATE

YEAR | MO | DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME STAR-KIST SAMOA, INC

ADDRESS P.O. Box 368
PAGO PAGO, AMERICAN SAMOA
96799

FACILITY

LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

(2-16)

AS 0000019
PERMIT NUMBER

001
DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	1995	10	01	TO	1995	10	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

Form Approved.
OMB No. 2040-
Expires 3-31-

NOTE: Read instructions before completing this form.

PARAMETER (42-47)		(4 Card Only) (46-53) QUANTITY OR LOADING (54-61) AVERAGE	MAXIMUM	UNITS	(4 Card Only) (18-45) QUALITY OR CONCENTRATION (46-53) MINIMUM	AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-65)	SAMPLE TYPE
TEMPERATURE	SAMPLE MEASUREMENT				70	77	88	°F	0	continous	
	PERMIT REQUIREMENT					90	95				
pH	SAMPLE MEASUREMENT				6.8		7.9		0	continous	
	PERMIT REQUIREMENT				6.5		8.6				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

VIRGIL SHOUSE
Manager, Cannery Manufacturing

TYPED OR PRINTED

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SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE

AREA CODE | NUMBER

DATE

YEAR | MO | DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME: Star Kist Samoa

ADDRESS: P. O.Box 368
Pago Pago, American Samoa
96799

FACILITY

LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No.
Expires

(2-16) PERMIT NUMBER	(17-19) DISCHARGE NUMBER
AS 0000019	001

MONITORING PERIOD

	YEAR (20-21)	MO (22-23)	DAY (24-25)		YEAR (26-27)	MO (28-29)	DAY (30-31)
FROM	1995	04	01	TO	1995	04	30

NOTE: Read instructions before completing this fo

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)
Total Cadmium	SAMPLE MEASUREMENT	<0.001		mg/1						once/6month cont
	PERMIT REQUIREMENT									
Total Chromium	SAMPLE MEASUREMENT	<0.001		mg/1						" "
	PERMIT REQUIREMENT									
Total Lead	SAMPLE MEASUREMENT	<0.001		mg/1						" "
	PERMIT REQUIREMENT									
Total Mercury	SAMPLE MEASUREMENT	<0.005		mg/1						" "
	PERMIT REQUIREMENT									
Total Zinc	SAMPLE MEASUREMENT	0.10		mg/1						" "
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

Virgil Shouse
Manager Cannery Manufacturing

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 *(Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years)*

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE / NUMBER

DATE: YEAR / MO

COMMENT AND EXPLANATION OF ANY VIOLATIONS *(Reference all attachments here)*

StarKist Samoa, Inc.

August 23, 1995

Mr . Norman Lovelace
OPINAP (E - 4)
U . S . EPA Region 9
75 Hawthorne Street
San Francisco , CA 94105

Mr . Togipa Tausaga
ASEPA
Office of the Governor
American Samoa Government
Pago Pago , American Samoa 96799

Gentlemen :

Re : **Discharge Monitoring Report for the Months of May , June and July 1995 under NPDES No . 0000019 as issued to Star Kist Samoa ,INC .**

Attached is Star Kist Samoa's Discharge Monitoring Reports covering the months of May , June and July 1995 .
Star Kist Samoa met all Effluent limits .

Sincerely

Virgil Shouse
Manager , Cannery Manufacturing

VS \ ls : \ npdes \samoa

Attachments :

cc : Ms. Sheila Wiegman
Ms. Pat Young
Mr. Norman Wei
Mr. Barry Mills

Facility Name/Location if different)

NAME STAR KIST SAMOA, INC.

ADDRESS P.O. BOX 368

PAGO PAGO, AMERICAN SAMOA 96799

FACILITY

LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0...
Expires 3-31-88

(2-16) PERMIT NUMBER: AS 0000019

(17-19) DISCHARGE NUMBER: 001

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	1995 (20-21)	05 (22-23)	01 (24-25)	TO	1995 (26-27)	05 (28-29)	31 (30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
FLOW	SAMPLE MEASUREMENT	1.0847	1.5664	mgd					0	continous	
	PERMIT REQUIREMENT		2.9								
BOD	SAMPLE MEASUREMENT				383.0	396.5	410.0		0	2/mo	composite
	PERMIT REQUIREMENT				N/A	N/A	N/A				
TSS	SAMPLE MEASUREMENT	522.4	907.6	lbs/day	19.0	51.5	95.3	mg/l	0	2/wk	composite
	PERMIT REQUIREMENT	2653	6673		N/A	N/A	N/A				
OIL & GREASE	SAMPLE MEASUREMENT	295.5	1188.4	lbs/day	2.6	28.6	118.3	mg/l	0	2/wk	composite
	PERMIT REQUIREMENT	675	1688		N/A	N/A	N/A				
TP	SAMPLE MEASUREMENT	56.8	97.7	lbs/day	2.0	5.7	10.4	mg/l	0	2/wk	composite
	PERMIT REQUIREMENT	192	309		N/A	N/A	N/A				
TN	SAMPLE MEASUREMENT	637.7	819.2	lbs/day	41.1	63.3	83.2	mg/l	0	2/wk	composite
	PERMIT REQUIREMENT	1200	2100		N/A	N/A	N/A				
TOTAL AMMONIA	SAMPLE MEASUREMENT				15.5	32.7	46.2	mg/l	0	1/wk	composite
	PERMIT REQUIREMENT				N/A	N/A	133				

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

VIRGIL SHOUSE
Manager, Cannery Manufacturing
TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 (Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE | NUMBER

DATE: YEAR | MO | DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME STAR KIST SAMOA, INC

ADDRESS P.O. Box 368

PAGO PAGO, AMERICAN SAMOA

96799

FACILITY

LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

(2-16) AS 0000019 PERMIT NUMBER

(17-19) 001 DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	1995	05	01	TO	1995	05	30
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form

PARAMETER (32-37)		(3 Card Only) (46-53) QUANTITY OR LOADING (54-61) AVERAGE	MAXIMUM	UNITS	(4 Card Only) (38-45) QUALITY OR CONCENTRATION (46-53) (54-61) MINIMUM	AVERAGE	MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE
TEMPERATURE	SAMPLE MEASUREMENT				74	81	88	°F	0	continous	
	PERMIT REQUIREMENT					90	95				
pH	SAMPLE MEASUREMENT				6.7		8.4		0	continous	
	PERMIT REQUIREMENT				6.5		8.6				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

VIRGIL J. SHOUSE

Manager, Cannery Manufacturing

TYPED OR PRINTED

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SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE

AREA CODE | NUMBER

DATE

YEAR | MO | DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Wastewater Summary Report for the month of May 1995

Date	Production Tons	Flow mgd	Alum #/day	Poly #/day	Max Temp F	ph Limits LO	ph Limits HI	Oil & Grease Eff mg/l	Oil & Grease Total #/day	TSS Eff mg/l	TSS Total #/day	TP Eff mg/l	TP Total #/day	TN Eff mgl	TN Total #/day	Total Ammonia Eff mg/l	BOD Eff mg/l
1	382.786	1.1006	635.1	21.4	81	7.0	7.6										
2	404.542	1.2288	735.2	22.5	81	7.0	7.3										
3	397.456	1.0228	674.3	20.2	81	7.1	7.5	12.80	108.87	50.00	425.28	6.47	55.03	83.20	707.67	46.20	410.00
4	329.230	1.1452	669.9	22.8	81	7.3	7.7	26.70	254.28	95.30	907.59	7.99	76.09	79.20	754.26		383.00
5	377.380	1.3870	696.0	23.1	83	7.4	7.5										
6	335.739	0.8546	395.9	12.9	86	7.5	7.6										
7		0.8817	400.2	11.3	86	7.6	7.8										
8	406.934	1.3309	569.9	17.8	82	7.0	7.1										
9	366.626	1.4067	722.1	19.2	83	6.9	7.1										
10	395.354	1.4160	761.3	20.9	84	6.7	7.0	51.50	606.44	44.70	526.36	2.41	28.38	56.70	667.67	41.00	
11	392.649	1.1255	543.8	16.4	80	6.8	7.1	23.80	222.76	74.00	692.61	10.40	97.34	81.30	760.94		
12	383.811	1.1757	578.6	18.8	88	6.7	6.9										
13		0.4487	213.2	6.2	84	7.0	7.1										
14		0.8670	426.5	12.5	81	7.0	7.4										
15	401.124	0.8740	465.5	14.9	78	7.4	7.5										
16	411.966	1.1830	830.9	21.8	78	7.0	7.6										
17	390.297	1.4992	835.2	20.6	78	7.3	8.0										
18	411.400	1.5202	826.5	22.6	80	8.0	8.2	20.70	261.69	55.00	695.31	7.73	97.72	64.80	819.20		
19	450.177	1.5664	922.2	22.7	79	7.5	8.4										
20	337.819	1.1222	430.7	12.1	84	7.1	8.1	17.80	166.11	22.00	205.31	2.10	19.60	42.90	400.35	30.10	
21		0.9748	517.7	15.6	86	6.8	7.5										
22	399.343	1.1407	582.9	17.6	78	7.1	7.7										
23	410.450	1.2454	809.1	21.0	80	6.7	7.1	3.70	38.32	36.50	378.02	6.95	71.98	60.40	625.55	30.90	
24	407.966	1.1090	669.9	19.1	78	7.1	7.4	2.60	23.98	19.00	175.23	5.80	53.49	56.00	516.46		
25	393.904	1.1195	487.2	16.9	78	7.0	7.6										
26	346.487	0.8678	482.9	12.5	80	7.2	7.5										
27		0.5323	243.6	7.8	80	7.2	7.7										
28		0.3632	156.6	5.3	76	7.3	7.6										
29		0.6057	261.0	8.9	78	7.6	7.7										
30	417.687	1.3038	857.0	20.7	74	7.2	7.7	7.80	84.57	35.00	379.48	1.97	21.36	41.10	445.62	15.50	
31	391.799	1.2080	770.0	20.8	78	6.8	7.2	118.3	1188.4	83.50	838.82	4.70	47.21	67.60	679.09		
TOT	9342.926	33.6264	18170.9	526.9					2955.4		5224.0		568.2		6376.8		
AVG	389.289	1.0847	586.2	17.0	81			28.6	295.5	51.5	522.4	5.7	56.8	63.3	637.7	32.7	396.5

Facility Name/Location if different)

NAME STAR KIST SAMOA, INC.

ADDRESS P.O. BOX 368

PAGO PAGO, AMERICAN SAMOA 96799

FACILITY

LOCATION

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040
Expires 3-31-88

(2-16) PERMIT NUMBER: AS 0000019

(17-19) DISCHARGE NUMBER: 001

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	1995	06	01	TO	1995	06	30
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69)
FLOW	SAMPLE MEASUREMENT	1.0829	1.5748	mgd						continous	
	PERMIT REQUIREMENT		2.9								
BOD	SAMPLE MEASUREMENT				323.0	356.5	390.0		0	2/mo	composite
	PERMIT REQUIREMENT				N/A	N/A	N/A				
TSS	SAMPLE MEASUREMENT	537.2	1440.8	lbs/day	15.0	47.8	129.0	mg/l	0	2/wk	composite
	PERMIT REQUIREMENT	2653	6673		N/A	N/A	N/A				
OIL & GREASE	SAMPLE MEASUREMENT	411.8	1161.4	lbs/day	7.3	35.5	96.2	mg/l	0	2/wk	composite
	PERMIT REQUIREMENT	675	1688		N/A	N/A	N/A				
TP	SAMPLE MEASUREMENT	55.1	99.8	lbs/day	2.2	5.0	8.9	mg/l	0	2/wk	composite
	PERMIT REQUIREMENT	192	309		N/A	N/A	N/A				
TN	SAMPLE MEASUREMENT	814.4	893.4	lbs/day	54.3	73.8	82.9	mg/l	0	2/wk	composite
	PERMIT REQUIREMENT	1200	2100		N/A	N/A	N/A				
TOTAL AMMONIA	SAMPLE MEASUREMENT				18.1	25.0	33.9	mg/l	0	1/wk	composite
	PERMIT REQUIREMENT				N/A	N/A	133				

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

VIRGIL SHOUSE

Manager, Cannery Manufacturing

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 (Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE | NUMBER

DATE: YEAR | MO | DA

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME STAR KIST SAMOA, INC

ADDRESS P.O. Box 368

PAGO PAGO, AMERICAN SAMOA

96799

FACILITY

LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-
Expires 3-31-8

(2-16) PERMIT NUMBER	(17-19) DISCHARGE NUMBER
AS 0000019	001

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	1995	06	01	TO	1995	06	30
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form

PARAMETER (42-47)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE
TEMPERATURE	SAMPLE MEASUREMENT				77.0	82.0	92.0	°F	0	continous	
	PERMIT REQUIREMENT					90	95				
pH	SAMPLE MEASUREMENT				6.7		8.2		0	continous	
	PERMIT REQUIREMENT				6.5		8.6				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

VIRGIL GHOUSE

Manager, Cannery Manufacturing

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE, AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 (Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE | NUMBER

DATE: YEAR | MO | DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Wastewater Summary Report for the month of June 1995

Date	Production Tons	Flow mgd	Alum #/day	Poly #/day	Max Temp F	ph Limits LO	ph Limits HI	Oil & Grease Eff mg/l	Oil & Grease Total #/day	TSS Eff mg/l	TSS Total #/day	TP Eff mg/l	TP Total #/day	TN Eff mgl	TN Total #/day	Total Ammonia Eff mg/l	BOD Eff mg/l
1	395.134	1.2296	478.5	17.4	81	7.0	7.5										
2	354.658	0.9333	339.3	14.2	83	7.7	8.0										
3		0.5636	243.6	7.1	92	7.7	7.9										
4		0.8620	435.0	14.3	81	7.6	7.9										
5	391.899	1.2293	600.3	18.7	81	7.4	7.6										
6	400.690	1.2473	730.8	18.7	79	7.4	8.1	25.3	262.4	26.7	276.9	4.27	44.29	74.50	772.75	23.7	
7	432.166	1.2755	722.1	17.8	78	7.3	8.2	28.4	301.2	33.0	350.0	4.34	46.03	77.60	823.11		
8	412.580	1.0943	556.8	14.3	79	6.7	7.2										
9	377.143	0.9855	482.9	13.4	86	6.7	7.1										
10		0.3901	139.2	3.6	84	7.3	7.4										
11		0.5533	304.5	8.6	86	7.1	7.5										
12	427.286	1.1039	578.6	19.1	79	7.2	7.6										
13	444.114	1.1970	752.6	20.3	81	7.3	7.5	8.5	84.6	15.0	149.3	7.15	71.17	78.90	785.39	33.9	
14	424.342	1.2899	696.0	19.8	80	7.2	7.4	7.3	78.3	22.0	236.0	5.54	59.43	82.90	889.25		
15	426.271	1.3004	661.2	18.8	81	7.3	7.6										
16	412.169	0.9603	522.0	14.9	84	7.2	7.6										
17		0.7256	243.6	6.9	89	7.0	7.7										
18		0.5935	256.7	8.3	81	7.3	7.4										
19	422.778	1.5748	683.0	22.8	80	7.1	7.5										
20	392.464	1.3475	826.5	21.8	77	7.2	7.4	27.9	312.6	86.5	969.3	8.91	99.84	77.80	871.81	24.1	
21	406.520	1.3431	765.6	20.8	80	7.0	7.2	38.4	428.9	129.0	1440.8	3.75	41.88	70.10	782.96		
22	384.961	1.4246	656.9	20.9	78	6.9	7.0										
23	380.884	1.0027	417.6	14.3	86	6.9	7.1										
24		0.5517	182.7	6.2	88	7.0	7.0										
25		0.6926	287.1	9.8	86	6.9	7.0										
26	443.563	1.4074	613.4	15.8	80	7.1	7.2										
27	140.580	1.5433	787.4	19.0	78	7.1	7.4	51.8	664.8	40.0	513.4	2.16	27.72	54.30	696.89	18.1	390.0
28	422.730	1.4517	743.9	18.1	78	6.9	7.1	96.2	1161.4	30.0	362.2	4.19	50.58	74.00	893.35		323.0
29	435.138	1.4357	756.9	18.2	79	6.9	7.0										
30	444.503	1.1775	569.9	14.8	85	6.9	7.0										
TOT	8772.573	32.4870	16034.6	458.7					3294.2		4297.9		440.9		6515.5		
AVG	292.419	1.0829	534.5	15.3	82			35.5	411.8	47.8	537.2	5.0	55.1	73.8	814.4	25.0	356.5

Facility Name/Location if different)

NAME STAR-KIST SAMOA, INC.

ADDRESS P.O. BOX 368

PAGO PAGO, AMERICAN SAMOA 96799

FACILITY

LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

(2-16) PERMIT NUMBER: AS 0000019

(17-19) DISCHARGE NUMBER: 001

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	1995	07	01	TO	1995	07	31
	(20 21)	(22 23)	(24 25)		(26 27)	(28 29)	(30 31)

Form Approved
OMB No. 2040 0
Expires 3-31-88

NOTE: Read instructions before completing this form

PARAMETER (32-37)		(3 Card Only) (46-53) QUANTITY OR LOADING (54-61) AVERAGE	MAXIMUM	UNITS	(4 Card Only) (38-45) QUALITY OR CONCENTRATION (46-53) MINIMUM	AVERAGE	MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69 70)
FLOW	SAMPLE MEASUREMENT	1.0278	1.7729	mgd					0	continous	
	PERMIT REQUIREMENT		2.9								
BOD	SAMPLE MEASUREMENT				452.0	517.5	583.0	mg/l	0	2/mo	composite
	PERMIT REQUIREMENT				N/A	N/A	N/A				
TSS	SAMPLE MEASUREMENT	953.5	2208.3	lbs/day	19.5	78.2	153.0	mg/l	0	2/wk	composite
	PERMIT REQUIREMENT	2653	6673		N/A	N/A	N/A				
OIL & GREASE	SAMPLE MEASUREMENT	462.4	937.9	lbs/day	2.3	39.6	73.6	mg/l	0	2/wk	composite
	PERMIT REQUIREMENT	675	1688		N/A	N/A	N/A				
TP	SAMPLE MEASUREMENT	85.2	129.8	lbs/day	4.9	7.6	13.0	mg/l	0	2/wk	composite
	PERMIT REQUIREMENT	192	309		N/A	N/A	N/A				
TN	SAMPLE MEASUREMENT	951.0	1547.5	lbs/day	50.1	85.4	155.0	mg/l	0	2/wk	composite
	PERMIT REQUIREMENT	1200	2100		N/A	N/A	N/A				
TOTAL AMMONIA	SAMPLE MEASUREMENT				8.2	23.3	45.2	mg/l	0	1/wk	composite
	PERMIT REQUIREMENT				N/A	N/A	133				

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

VIRGIL SHOUSE
Manager, Cannery Manufacturing
TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 (Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE | NUMBER

DATE: YEAR | MO | DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME STAR-KIST SAMOA, INC

ADDRESS P.O. Box 368

PAGO PAGO, AMERICAN SAMOA

96799

FACILITY

LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

(2-16) (17-19)

AS 0000019 — PERMIT NUMBER

001 — DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	1995	07	01	TO	1995	07	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

Form Approved
OMB No. 2040-
Expires 3-31-84

NOTE: Read instructions before completing this form

PARAMETER (42-47)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (18-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-69)	SAMPLE TYPE
TEMPERATURE	SAMPLE MEASUREMENT				72	80	91	°F	0	continous	
	PERMIT REQUIREMENT					90	95				
pH	SAMPLE MEASUREMENT				6.6		8.2		0	continous	
	PERMIT REQUIREMENT				6.5		8.6				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

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SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE — AREA CODE — NUMBER

DATE — YEAR — MO — DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Wastewater Summary Report for the month of July **1995**

Date	Production Tons	Flow mgd	Alum #/day	Poly #/day	Max Temp F	ph Limits LO	ph Limits HI	Oil & Grease Eff mg/l	Oil & Grease Total #/day	TSS Eff mg/l	TSS Total #/day	TP Eff mg/l	TP Total #/day	TN Eff mgl	TN Total #/day	Total Ammonia Eff mg/l	BOD Eff mg/l
1		0.4927	191.4	5.5	75	7.0	7.3										
2		0.3083	147.9	5.0	77	7.4	7.5										
3		0.1562	87.0	1.6	77	8.2	8.2										
4		1.0253	617.7	14.8	82	7.4	8.1										
5	444.636	1.7356	783.0	25.2	79	6.9	7.7	41.00	591.76	153.0	2208.3	6.88	99.30	62.00	894.86	14.30	583.0
6	451.409	1.5469	726.5	23.0	79	7.0	7.8	61.80	795.00	102.0	1312.1	6.03	77.57	75.30	968.66		452.0
7	421.898	1.7729	774.3	24.4	79	7.2	8.2										
8	379.847	1.4229	630.8	19.4	85	7.1	7.3										
9		1.1691	591.6	16.8	88	6.8	7.0										
10	419.121	1.5937	700.4	23.6	78	6.7	7.3										
11	427.294	1.5323	700.4	24.6	80	6.6	7.2	73.60	937.86	89.0	1134.1	6.16	78.49	75.90	967.16	25.30	
12	360.664	1.2892	639.5	21.7	78	7.1	8.1	33.20	355.94	104.5	1120.3	7.83	83.95	95.70	1026.0		
13	405.211	1.5878	670.0	24.9	76	7.1	7.7										
14	390.218	1.1047	417.6	18.2	80	7.7	7.9										
15		0.4375	208.8	10.3	91	7.7	7.9										
16		0.4287	156.6	6.2	80	7.7	7.7										
17		0.2426	139.2	5.1	86	7.4	7.5										
18		0.2983	130.5	5.0	75	7.4	7.5										
19		0.2323	78.3	3.0	72	6.7	6.7										
20		0.9329	439.4	17.4	77	6.7	6.9										
21	392.361	1.6319	735.2	30.9	78	6.9	7.2	5.30	71.93	44.0	597.1	5.14	69.75	50.10	679.90	8.22	
22	388.937	1.0940	513.3	19.3	79	7.1	7.2	2.30	20.92	19.5	177.4	4.93	44.85	66.80	607.73		
23		1.0832	517.7	21.9	86	7.3	7.4										
24	430.976	1.0609	469.8	16.6	80	7.3	7.5										
25	435.550	1.0805	683.0	22.6	79	7.4	7.5	69.50	624.49	54.5	489.7	10.90	97.94	102.00	916.51	45.20	
26	478.971	1.2006	722.1	24.9	80	7.5	7.7	30.20	301.52	59.0	589.1	13.00	129.79	155.00	1547.5		
27	470.426	1.3563	687.1	23.8	77	7.3	7.7										
28	388.978	1.1032	530.7	19.0	78	7.0	7.3										
29	376.648	0.7445	365.4	13.1	80	7.0	7.3										
30		0.9357	487.2	19.0	84	6.8	7.1										
31	441.175	1.2608	561.2	22.6	84	6.7	7.2										
TOT	7504.320	31.8615	15103.6	529.4					3699.4		7628.1		681.6		7608.3		
AVG	416.907	1.0278	487.2	17.1	80			39.6	462.4	78.2	953.5	7.6	85.2	85.4	951.0	23.3	517.5

StarKist Samoa, Inc.

M[illegible] 20, 1995

Mr . Norman Lovelace
OPINAP (E-4)
U .S . EPA Region 9
75 Hawthorne Street
San Francisco , CA 94105

Mr. Togipa Tausaga
ASEPA
Office of the Governor
American Samoa Government
Pago Pago , American Samoa 96799

Gentlemen :

Re: **Discharge Monitoring Report for the Months of February , March and April 1995 under NPDES No. 0000019 as issued to Star Kist Samoa , INC.**

Attached is Star Kist Samoa's Discharge Monitoring Reports covering the months of February , March and April 1995 .

Star Kist Samoa met all Effluent limits.

Sincerely

Barry Mills

Plant Manager
Starkist Samoa Inc
Pago Pago, American Samoa
96799

BM \ls : \ npdes \ samoa

Attachments

cc: Ms. Sheila Weigman
Ms. Pat Young
Mr. Norman Wei

Wastewater Summary Report for the month of February 1995

Date	Production Tons	Flow mgd	Alum #/day	Poly #/day	Max Temp F	ph Limit Lo	ph Limit Hi	Oil & Grease Eff mg/l	Oil & Grease Total #/day	TSS Eff mg/l	TSS Total #/day	TP Eff mg/l	TP Total #/day	TN Eff mg/l	TN Total #/day	Total Ammonia Eff mg/l	BOD Eff mg/l
1	401.036	1.1730	960.0	28.6	83	6.9	7.1	9.8	95.8	54.0	526.8	9.6	93.7	62.5	609.7	36.1	
2	375.320	1.1032	900.0	25.6	84	7.0	7.1	19.6	179.8	48.0	440.4	5.0	45.6	50.9	467.0		
3	366.861	0.8042	660.0	20.5	85	7.0	7.1										
4		0.4866	396.0	11.4	87	7.0	7.1										
5		1.0875	888.0	23.5	85	7.0	7.1										
6	411.767	0.9542	780.0	21.7	85	6.9	7.1										
7	411.205	1.1975	1020.0	28.6	82	6.8	7.1	14.6	145.1	30.0	298.8	1.7	17.3	56.0	557.7	25.8	
8	456.317	1.2410	1080.0	30.1	82	7.0	7.1	6.0	62.2	43.0	443.8	2.1	21.7	73.5	758.5		602.0
9	383.369	1.1939	984.0	27.1	84	6.8	7.0										
10	376.699	0.8837	744.0	21.1	84	6.8	7.0										
11		0.5293	432.0	12.6	84	7.0	7.2										
12		0.9035	744.0	21.1	82	7.2	7.4										
13	388.038	1.3059	1080.0	29.5	80	7.0	7.5										
14	344.286	1.3103	1068.0	30.1	81	7.4	7.5	21.2	230.7	53.0	577.5	2.3	25.0	32.5	354.1	18.6	
15	367.911	1.2872	1044.0	28.6	80	7.5	7.6	24.0	256.9	53.3	570.5	2.7	28.5	45.2	483.8		
16	394.390	1.0690	864.0	25.6	80	7.4	7.6										
17	373.411	0.9782	792.0	23.5	82	7.1	7.3										
18		0.4507	360.0	10.2	86	7.2	7.2										
19		0.3273	264.0	7.5	95	7.6	7.6										
20		0.8736	720.0	19.9	81	7.4	7.7										
21	401.882	0.9916	804.0	23.2	86	7.1	7.7										
22	402.077	1.5496	1296.0	34.6	83	7.5	7.9										
23	412.722	1.3077	1092.0	30.1	82	7.1	7.9	29.2	317.3	31.0	337.1	5.1	55.5	49.2	535.0	34.2	
24	407.745	1.1641	960.0	28.0	82	7.0	7.2	12.7	123.2	77.0	745.4	6.3	60.8	55.5	537.3		
25		0.4224	348.0	9.9	85	7.3	7.3										
26		0.7728	624.0	17.5	82	7.4	7.7										
27	401.741	0.8276	696.0	19.0	84	7.3	7.7										
28	410.855	1.7318	1428.0	39.1	84	6.9	7.5										
TOT	7487.632	27.9274	23028.0	648.2					1411		3940		348		4303		
AVG	394.086	0.9974	822.4	23.2	84			17.1	176.4	48.7	492.5	4.3	43.5	53.2	537.9	28.7	602.0

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME STAR KIST SAMOA, INC.

ADDRESS P.O. BOX 368

PAGO PAGO, AMERICAN SAMOA 96799

FACILITY

LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0
Expires 3-31-88

(2-16) AS 0000019 PERMIT NUMBER

(17-19) 001 DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	1995	02	01	TO	1995	02	28
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(4 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
FLOW	SAMPLE MEASUREMENT	0.9974	1.7318	mgd						continous	
	PERMIT REQUIREMENT		2.9								
BOD	SAMPLE MEASUREMENT				602.0	602.0	602.0		0	2/mo	composite
	PERMIT REQUIREMENT				N/A	N/A	N/A				
TSS	SAMPLE MEASUREMENT	492.5	745.4	lbs/day	30.0	48.7	77.0	mg/l	0	2/wk	composite
	PERMIT REQUIREMENT	2653	6673		N/A	N/A	N/A				
OIL & GREASE	SAMPLE MEASUREMENT	176.4	317.3	lbs/day	6.0	17.1	29.2	mg/l	0	2/wk	composite
	PERMIT REQUIREMENT	675	1688		N/A	N/A	N/A				
TP	SAMPLE MEASUREMENT	43.5	93.7	lbs/day	1.7	4.3	9.6	mg/l	0	2/wk	composite
	PERMIT REQUIREMENT	192	309		N/A	N/A	N/A				
N	SAMPLE MEASUREMENT	537.9	758.5	lbs/day	32.5	53.2	73.5	mg/l	0	2/wk	composite
	PERMIT REQUIREMENT	1200	2100		N/A	N/A	N/A				
TOTAL AMMONIA	SAMPLE MEASUREMENT				18.6	28.7	36.0	mg/l	0	1/wk	composite
	PERMIT REQUIREMENT				N/A	N/A	133				

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

VIRGIL SHOUSE
Manager, Cannery Manufacturing
TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 (Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years)

Burl Johnson 5/24/95
In absence of Virgil
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE 684 | NUMBER 644-2860

DATE: YEAR 95 | MO 05 | DA

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME STAR KIST SAMOA, INC

ADDRESS P.O. Box 368
PAGO PAGO, AMERICAN SAMOA
96799

FACILITY

LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-
Expires 3-31-88

(2-16)	(17-19)
AS 0000019	001
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	1995	02	01	TO	1995	02	28
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form

PARAMETER (32-37)		(3 Card Only) (46-53) QUANTITY OR LOADING (54-61) AVERAGE	MAXIMUM	UNITS	(4 Card Only) (38-45) QUALITY OR CONCENTRATION (46-53) (54-61) MINIMUM	AVERAGE	MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
Temperature	SAMPLE MEASUREMENT				80	84	95	°F		continous	
	PERMIT REQUIREMENT					90	95				
pH	SAMPLE MEASUREMENT				6.8		7.9			continous	
	PERMIT REQUIREMENT				6.5		8.6				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

VIRGIL SHOUSE
Manager, Cannery Manufacturing

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 (Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years)

[signature]
IN ABSENCE OF VIRGIL SHOUSE

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE		DATE	
684	644-2860	95	05
AREA CODE	NUMBER	YEAR	MO

DA

OMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

PA Form 3320-1 (Rev. 10-79) PREVIOUS EDITION TO BE USED UNTIL SUPPLY IS EXHAUSTED. (REPLACES EPA FORM T-40 WHICH MAY NOT BE USED)

PAGE OF

Wastewater Summary Report for the month of March 1995

Date	Production Tons	Flow mgd	Alum #/day	Poly #/day	Max Temp F	ph Limits Lo	ph Limits Hi	Oil &Grease Eff mg/l	Oil &Grease Total #/day	TSS Eff mg/l	TSS Total #/day	TP Eff mg/l	TP Total #/day	TN Eff mg/l	TN Total #/day	Total Ammonia Eff mg/l	BOD Eff mg/l
1	438.109	1.3750	1128.0	31.6	86	6.7	7.4	5.4	61.17	41.0	468.8	4.71	53.86	51.2	585.4	25.5	
2	420.167	1.3110	1080.0	30.7	82	7.2	7.4	14.1	153.7	45.3	493.9	3.91	42.63	73.2	798		
3	376.269	0.8891	720.0	20.2	87	7.0	7.4										
4		0.5399	444.0	12.6	90	6.9	7.5										
5		0.7348	600.0	16.9	87	7.1	7.7										
6	426.137	1.1225	936.0	27.1	84	7.4	7.7										
7	434.192	1.3198	1080.0	35.2	84	7.1	7.9	3.9	43.08	44.0	482.9	3.77	41.38	64.1	703.5	21.9	376.0
8	428.426	1.1405	960.0	27.1	83	7.1	7.7	7.2	68.05	43.0	407.8	2.6	24.66	70.8	671.5		
9	210.286	1.1372	924.0	26.5	84	7.5	7.7										
10	407.055	0.8227	720.0	19.6	87	7.2	7.7										
11		0.5585	480.0	12.6	78	7.0	7.4										
12		0.7891	636.0	18.7	74	6.7	6.9										
13	436.057	1.1434	936.0	26.5	89	6.9	7.2										
14	408.926	0.9477	792.0	22	92	6.8	7.2										
15	427.612	1.2003	984.0	26.5	85	7.0	7.6										
16	361.835	1.3898	1152.0	32.5	85	7.3	7.6	7.8	90.44	48.5	560.5	2.14	24.73	71.4	825.2	23.7	535.0
17	393.668	0.7370	636.0	18.1	89	6.7	7.4	4.0	24.52	27.5	168.5	4.65	28.5	52	318.7		
18		0.3789	324.0	9	95												
19		0.4367	360.0	10.5	89	7.1	8.2										
20	423.067	0.8533	696.0	19.3	94	6.6	8.3										
21	420.867	1.2844	1056.0	29.8	82	6.6	7.1	16.6	177.3	44.5	475.3	3.13	33.43	65.5	699.6	22.8	
22	418.026	1.1307	924.0	28.9	94	6.9	7.8										
23	381.822	1.2320	1020.0	28.9	86	7.4	8.00	21.3	218.2	38.0	389.3	1.97	20.18	38.8	397.5		
24	330.833	0.9593	792.0	25.3	94	6.8	7.9										
25		0.4337	360.0	10.5	89	6.9	7.3										
26		0.6352	528.0	14.5	81	7.7	8.2										
27	401.646	1.0443	1068.0	33.9	80	7.2	7.7										
28	352.485	1.2114	1116.0	36.1	82	6.9	8.1	18.9	190.4	33.0	332.4	2.11	21.26	57.1	575.2	17.5	
29	351.674	1.2773	1422.0	39.7	84	6.8	7.8	19.8	210.3	65.0	690.4	6.07	64.48	63.2	671.3		
30	364.720	1.2268	1068.0	34.3	82	6.9	7.7										
31	273.442	1.0236	780.0	24.8	82	6.9	7.8										
TOT	8887.321	27.8680	25722	749.9					1237		4470		355.1		6246		
AVG	286.687	0.8980	829.74	24.19	86			11.9	123.7	43.0	447.0	3.5	35.5	60.7	624.6	22.3	455.5

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME STAR KIST SAMOA, INC.

ADDRESS P.O. BOX 368

PAGO PAGO, AMERICAN SAMOA 96799

FACILITY

LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0
Expires 3-31-88

(2-16) AS 0000019 PERMIT NUMBER

(17-19) 001 DISCHARGE NUMBER

MONITORING PERIOD

FROM YEAR	MO	DAY	TO YEAR	MO	DAY
1995 (20-21)	03 (22-23)	01 (24-25)	1995 (26-27)	03 (28-29)	31 (30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) (46-53) QUANTITY OR LOADING (54-61) AVERAGE	MAXIMUM	UNITS	(4 Card Only) (38-45) QUALITY OR CONCENTRATION (46-53) MINIMUM	AVERAGE	MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
FLOW	SAMPLE MEASUREMENT	0.8980	1.3898	mgd					0	continous	
	PERMIT REQUIREMENT		2.9								
BOD	SAMPLE MEASUREMENT				376.0	455.5	535.0		0	2/mo	composite
	PERMIT REQUIREMENT				N/A	N/A	N/A				
TSS	SAMPLE MEASUREMENT	447.0	690.4	lbs/day	27.5	43.0	65.0	mg/l	0	2/wk	composite
	PERMIT REQUIREMENT	2653	6673		N/A	N/A	N/A				
OIL & GREASE	SAMPLE MEASUREMENT	123.7	218.2	lbs/day	3.9	11.9	21.3	mg/l	0	2/wk	composite
	PERMIT REQUIREMENT	675	1688		N/A	N/A	N/A				
TP	SAMPLE MEASUREMENT	35.5	64.5	lbs/day	2.0	3.5	6.1	mg/l	0	2/wk	composite
	PERMIT REQUIREMENT	192	309		N/A	N/A	N/A				
TN	SAMPLE MEASUREMENT	624.6	825.2	lbs/day	38.8	60.7	73.2	mg/l	0	2/wk	composite
	PERMIT REQUIREMENT	1200	2100		N/A	N/A	N/A				
TOTAL AMMONIA	SAMPLE MEASUREMENT				17.5	22.3	25.5	mg/l	0	1/wk	composite
	PERMIT REQUIREMENT				N/A	N/A	133				

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

VIRGIL SHOUSE
Manager, Cannery Manufacturing

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 USC § 1001 AND 33 USC § 1319 (Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years.)

Chas Johnson 5/24/95
In absence of Virgil Shouse

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE 684 | NUMBER 644-2860

DATE: YEAR 95 | MO 05 | DA

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME STAR-KIST SAMOA, INC

ADDRESS P.O. Box 368
PAGO PAGO, AMERICAN SAMOA
96799

FACILITY

LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0
Expires 3-31-88

(2-16) AS 0000019 PERMIT NUMBER

(17-19) 001 DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	1995	03	01	TO	1995	03	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

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PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69)
Temperature	SAMPLE MEASUREMENT					86	95	°F		continous	
	PERMIT REQUIREMENT					90	95				
pH	SAMPLE MEASUREMENT				6.9		8.3			continous	
	PERMIT REQUIREMENT				6.5		8.6				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
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	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

VIRGIL SHOUSE
Manager, Cannery Manufacturing
TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 (Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years)

Bill Johnson 5/24/95
In ABSENCE OF VIRGIL SHOUSE
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE 684 | NUMBER 644-2860

DATE: YEAR 95 | MO 05 | DA

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Wastewater Summary Report for the month of April 1995

Date	Production Tons	Flow mgd	Alum #/day	Poly #/day	Max Temp F	ph Limits LO	ph Limits HI	Oil & Grease Eff mg/l	Oil & Grease Total #/day	TSS Eff mg/l	TSS Total #/day	TP Eff mg/l	TP Total #/day	TN Eff mg/l	TN Total #/day	Total Ammonia Eff mg/l	BOD Eff mg/l
1		0.4531	336	10.5	84	7.2	7.8										
2		0.6813	576	18.1	88	7.4	7.8										
3	338.650	0.4937	432	12.9	82	7.1	7.6										
4	273.901	0.9088	972	30.7	82	6.7	7.3	20.1	151.9	58.5	442.1	2.4	18.4	47.3	357.5	28.3	
5	315.426	1.2498	1284	41.5	89	7.0	7.6	47.7	495.8	32.0	332.6	2.2	22.4	57.3	595.5	33.6	371.5
6	350.870	1.1041	858	28.9	90	7.1	7.4										
7	289.534	0.7954	498	18.1	86	7.0	7.4										
8		0.3825	384	12.0	84	6.8	7.3										
9		0.6433	480	15.1	86	6.9	7.5										
10	380.861	1.1701	906	28.6	84	7.2	7.5										
11	371.812	1.3649	1128	35.5	82	7.1	7.6	15.9	180.5	55.0	624.3	2.3	25.5	46.8	531.2	17.0	391.2
12	377.541	1.1789	876	29.2	88	6.8	7.2	32.6	319.6	46.5	455.9	3.5	34.3	49.6	486.3		
13		0.4025	270	10.8	92	7.2	7.4										
14		0.2021	270	9.0	82	7.5	7.8										
15		0.2324	162	5.4	90	7.4	7.4										
16		0.2007	102	3.2	92	7.3	7.3										
17		0.1082	48	1.5	81	7.3	7.3										
18		0.2396			80												
19		0.6254			78												
20		0.1349	96	3.6	72	8.0	8.0										
21		0.2826	144	5.1	76	7.9	8.4										
22		0.1072	96	3.6	83	7.0	7.2										
23		0.7356	570	18.1	82	6.8	7.2										
24	362.301	1.5712	1116	31.6	80	7.1	7.2										
25	405.035	1.3018	1110	36.7	81	6.9	7.2	10.6	114.8	51.0	552.1	7.5	80.7	53.9	583.5	15.7	
26	392.250	1.5122	1242	43.3	84	6.6	7.2	13.2	166.0	97.5	1226.1	5.1	63.9	60.4	759.6		
27	421.826	1.3621	739.5	26.1	81	6.9	7.3										
28	355.898	0.9719	591.6	20.2	84	7.3	7.8										
29		0.5045	278.4	9.5	80	7.0	7.8										
30		0.5553	278.4	10.7	86	7.1	7.5										
TOT	4635.905	21.441	15844	519.5					1428.6		3633.0		245.2		3313.6		
AVG	356.608	0.7147	565.85	18.55	84			23.4	238.1	56.8	605.5	3.8	40.9	52.6	552.3	23.7	381.4

Shaded area represents plant shutdown for April 95

PERMITTEE NAME/ADDRESS (Include facility Name/Location if different)

NAME STAR-KIST SAMOA, INC.

ADDRESS P.O. BOX 368

PAGO PAGO, AMERICAN SAMOA 96799

FACILITY

LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

(2-16) PERMIT NUMBER: AS 0000019

(17-19) DISCHARGE NUMBER: 001

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	1995	04	01	TO	1995	04	30
	(20 21)	(22 23)	(24 25)		(26 27)	(28 29)	(30 31)

Form Approved
OMB No. 2040
Expires 3-31-88

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69)
FLOW	SAMPLE MEASUREMENT	0.7147	1.5712	mgd					0	continous	
	PERMIT REQUIREMENT		2.9								
BOD	SAMPLE MEASUREMENT				371.5	381.4	391.2		0	2/mo	composite
	PERMIT REQUIREMENT				N/A	N/A	N/A				
TSS	SAMPLE MEASUREMENT	605.5	1226.0	lbs/day	32.0	56.8	97.5	mg/l	0	2/wk	composite
	PERMIT REQUIREMENT	2653	6673		N/A	N/A	N/A				
OIL & GREASE	SAMPLE MEASUREMENT	238.1	495.8	lbs/day	10.6	23.4	47.7	mg/l	0	2/wk	composite
	PERMIT REQUIREMENT	675	1688		N/A	N/A	N/A				
TP	SAMPLE MEASUREMENT	40.87	80.65	lbs/day	2.16	3.81	7.45	mg/l	0	2/wk	composite
	PERMIT REQUIREMENT	192	309		N/A	N/A	N/A				
TN	SAMPLE MEASUREMENT	552.3	759.6	lbs/day	46.8	52.6	60.4	mg/l	0	2/wk	composite
	PERMIT REQUIREMENT	1200	2100		N/A	N/A	N/A				
TOTAL AMMONIA	SAMPLE MEASUREMENT				15.7	23.7	33.6	mg/l	0	1/wk	composite
	PERMIT REQUIREMENT				N/A	N/A	133				

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

VIRGIL SHOUSE
Manager, Cannery Manufacturing

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 (Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years)

Ray Johnson 5/24/95
In absence of Virgil Shouse

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE 684 NUMBER 644-2860

DATE: YEAR 95 MO 05 DA

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME STAR KIST SAMOA, INC

ADDRESS P.O. Box 368
PAGO PAGO, AMERICAN SAMOA
96799

FACILITY

LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0
Expires 3-31-88

PERMIT NUMBER (2-16)	DISCHARGE NUMBER (17-19)
AS 0000019	001

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	1995	04	01	TO	1995	04	30
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form

PARAMETER (32-37)		(3 Card Only) (46-53) QUANTITY OR LOADING (54-61) AVERAGE	MAXIMUM	UNITS	(4 Card Only) (38-45) QUALITY OR CONCENTRATION (46-53) MINIMUM	(54-61) AVERAGE	MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
Temperature	SAMPLE MEASUREMENT					84.0	92.0	°F	0	continous	
	PERMIT REQUIREMENT					90	95				
pH	SAMPLE MEASUREMENT				6.6		8.4		0	continous	
	PERMIT REQUIREMENT				6.5		8.6				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

VIRGIL SHOUSE
Manager, Cannery Manufacturing

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 (Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years.)

[signature] 5/24/95
In absence of Virgil Shouse

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE AREA CODE	NUMBER	DATE YEAR	MO	DAY
684	644-2860	95	05	

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

EPA Form 3320-1 (Rev. 10-79) PREVIOUS EDITION TO BE USED UNTIL SUPPLY IS EXHAUSTED. (REPLACES EPA FORM T-40 WHICH MAY NOT BE USED.) PAGE OF

StarKist Samoa, Inc.

P.O. BOX 368 PAGO PAGO, AMERICAN SAMOA 96799

(684) 644-4231
FAX NO: (684) 644-2440

February 24, 1995

Mr. Norman Lovelace
OPINAP (E-4)
U.S. EPA Region 9
75 Hawthorne Street
San Francisco, CA 94105

Mr. Togipa Tausaga
ASEPA
Office of the Governor
American Samoa Government
Pago Pago, American Samoa 96799

Gentlemen:

Re: *Discharge Monitoring Report for the Months of November, December 1994, and January 1995 under NPDES No. 0000019 as issued to Starkist Samoa, Inc.*

Attached is StarKist Samoa's Discharge Monitoring Reports covering the months of November, December 1994, and January 1995. StarKist Samoa met all effluent limits.

Sincerely

VIRGIL SHOUSE
Manager, Cannery Manufacturing

VS\ht:\npdes\samoa

Attachments

cc: Ms. Sheila Weigman
Mr. Barry Mills
Ms. Pat Young
Mr. Norman Wei

Wastewater Summary Report for the month of November 1994

Date	Production Tons	Flow mgd	Alum #/day	Poly #/day	Max Temp F	ph Limits Lo	ph Limits Hi	Oil & Grease Eff mg/l	Oil & Grease Total #/day	TSS Eff mg/l	TSS Total #/day	TP Eff mg/l	TP Total #/day	TN Eff mg/l	TN Total #/day	Tot Ammo Eff mg/l	BOD Eff mg/l
1	448.412	0.9212	756.0	24.1	86	6.8	7.2	6.2	47	41.0	314	1.5	11.2	56.4	432.1	24.3	
2	476.614	1.1285	1056.0	28.6	86	6.8	7.3	3.9	37	60.0	563	2.3	21.9	71.2	668.2		
3	492.622	0.9760	804.0	26.2	85	6.9	7.4										
4	461.354	0.8828	720.0	21.1	84	7.1	7.3										
5	0.000	0.5722	480.0	13.6	86	6.6	7.2										
6	0.000	0.8151	720.0	21.4	80	6.8	7.6										
7	430.619	0.8633	732.0	21.1	80	7.0	7.6										
8	445.386	0.8703	756.0	23.5	82	6.9	7.6										
9	482.132	0.8651	720.0	27.1	83	6.8	7.7	63.4	456	46.5	335	7.1	50.9	90.3	649.6	37.8	
10	486.069	1.0135	1080.0	27.1	80	6.8	7.5	41.0	346	52.5	442	2.4	19.9	85.2	718.1		
11	455.660	0.8512	720.0	21.1	83	7.0	7.3										
12	0.000	0.7371	612.0	18.1	80	6.9	7.5										
13	0.000	0.8858	840.0	27.4	80	7.0	7.3										
14	458.661	1.0416	876.0	26.5	82	7.1	7.6										
15	460.955	1.3603	1200.0	37.3	84	6.9	7.4	26.2	296	31.5	356	3.1	34.5	60.8	687.8	21.8	259.0
16	478.301	1.3488	1128.0	33.7	82	7.1	7.4	19.0	213	59.5	667	5.9	66.0	72.3	811.0		285.0
17	426.483	1.1318	924.0	28.9	84	7.3	7.6										
18	433.149	1.2113	1020.0	29.5	85	7.2	7.6										
19	0.000	0.4787	396.0	1.5	84	7.2	7.4										
20	0.000	0.9510	816.0	21.7	82	7.3	7.7										
21	461.841	0.9415	780.0	24.4	82	7.2	7.6										
22	485.898	1.2503	1080.0	33.1	83	6.9	7.4	5.9	61	78.0	811	4.0	41.3	80.5	837.0	39.9	
23	424.333	0.9240	912.0	27.1	82	6.8	7.4	17.4	134	24.5	188	6.1	46.7	97.6	750.0		
24	0.000	0.5042	432.0	12.0	87	7.0	7.3										
25	0.000	0.4801	420.0	10.8	90	6.7	7.0										
26	0.000	0.3568	336.0	9.9	88	7.3	8.1										
27	0.000	0.9573	792.0	21.7	85	7.1	7.5										
28	441.261	1.1236	996.0	27.1	86	7.0	7.2										
29	414.485	1.4727	1392.0	40.6	84	6.9	7.5	28.4	348	70.0	857	3.9	48.3	73.2	896.5	21.1	
30	442.825	1.3768	1140.0	33.7	83	7.0	7.2	30.7	351	40.5	464	3.2	36.8	82.0	938.6		
TOT	9107.060	28.2929	24636.0	719.9					2290		4998.2		377.3		7388.8		
AVG	455.353	0.9431	821.2	24.0	84	7.0	7.4	24.2	229	50.4	499.8	3.9	37.7	76.9	738.9	29.0	272.0

Form Approved
OMB No. 2040-0
Expires 3-31-88

NAME STAR KIST SAMOA, INC.
ADDRESS P.O. BOX 368
PAGO PAGO, AMERICAN SAMOA 96799
FACILITY
LOCATION

DISCHARGE MONITORING REPORT (DMR)

(2-16) (17-19)

AS 0000019 — PERMIT NUMBER
001 — DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	94	11	01	TO	94	11	30
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69)
FLOW	SAMPLE MEASUREMENT	0.9431	1.4727	mgd					0	continous	
	PERMIT REQUIREMENT		2.9								
BOD	SAMPLE MEASUREMENT				259.0	272.0	285.0		0	2/mo	composit
	PERMIT REQUIREMENT				N/A	N/A	N/A				
TSS	SAMPLE MEASUREMENT	499.8	857	lbs/day	24.5	50.4	78.0	mg/1	0	2/wk	composit
	PERMIT REQUIREMENT	2653	6673		N/A	N/A	N/A				
OIL & GREASE	SAMPLE MEASUREMENT	299	456	lbs/day	3.9	24.2	63.4	mg/1	0	2/wk	composit
	PERMIT REQUIREMENT	675	1688		N/A	N/A	N/A				
TP	SAMPLE MEASUREMENT	37.7	66.0	lbs/day	1.5	3.9	7.1	mg/1	0	2/wk	composit
	PERMIT REQUIREMENT	192	309		N/A	N/A	N/A				
TN	SAMPLE MEASUREMENT	738.9	938.6	lbs/day	56.4	76.9	97.6	mg/1	0	2/wk	com si
	PERMIT REQUIREMENT	1200	2100		N/A	N/A	N/A				
TOTAL AMMONIA	SAMPLE MEASUREMENT				21.1	29.0	39.9	mg/1	0	1/wk	composit
	PERMIT REQUIREMENT				N/A	N/A	133				

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

VIRGIL SHOUSE
Manager, Cannery Manufacturing
TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 *(Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years.)*

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE 684 | NUMBER 644-4231

DATE: YEAR 95 | MO 02 | 24

COMMENT AND EXPLANATION OF ANY VIOLATIONS *(Reference all attachments here)*

MITTEE NAME/ADDRESS (Include
ity Name/Location if different)
AME STAR KIST SAMOA, INC
DRESS P.O. Box 368
PAGO PAGO, AMERICAN SAMOA
96799
ILITY
ATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040
Expires 3-31-88

(2-16) PERMIT NUMBER: AS 0000019
(17-19) DISCHARGE NUMBER: 001

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	94	11	01	TO	94	11	30
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

PARAMETER (42-47)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69)
TEMPERATURE	SAMPLE MEASUREMENT					84	90	°F	0	continous	
	PERMIT REQUIREMENT					90	95				
pH	SAMPLE MEASUREMENT				6.6		8.1		0	continous	
	PERMIT REQUIREMENT				6.5		8.6				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

VIRGIL SHOUSE
nager, Cannery Manufacturing
TYPED OR PRINTED

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SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE 684 | NUMBER 644-4231

DATE: YEAR 95 | MO 02 | 24

MENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

WASTEWATER SUMMARY REPORT for the month of December 1994

Date	Production Tons	Flow mgd	Alum #/day	Poly #/day	Max Temp F	ph Limits Lo	ph Limits Hi	Oil & Grease Eff mg/l	Oil & Grease Total #/day	TSS Eff mg/l	TSS Total #/day	TP Eff mg/l	TP Total #/day	TN Eff mg/l	TN Total #/day	Total Ammonia Eff	Total Ammonia mg/l	BOD Eff mg/l
1	431.551	1.3621	1188.0	36.4	82	7.0	7.4											
2	413.100	0.7556	636.0	18.1	88	7.1	7.6											
3	0.000	0.4926	420.0	10.8	85	6.7	6.8											
4	0.000	0.7710	660.0	18.1	83	7.3	7.5											
5	429.382	1.2033	1020.0	29.5	86	7.2	7.5											
6	430.878	1.4900	1260.0	37.0	86	7.2	7.6	52.0	644.3	49.5	613.3	2.2	27.8	59.2	733.5	20.3		
7	432.460	1.7003	1440.0	40.3	80	7.4	7.8	11.1	157.0	37.5	530.2	2.5	35.9	62.0	876.7			398.0
8	448.099	1.4980	1248.0	36.1	86	7.5	7.8											
9	395.431	1.3954	1164.0	32.5	83	7.5	7.7											
10	0.000	0.4253	360.0	10.2	85	6.9	7.1											
11	0.000	0.6508	540.0	15.1	90	6.7	7.3	12.5	67.7	54.5	295.0	1.2	6.4	26.3	142.3			
12	437.605	1.2655	1152.0	34.3	89	6.8	7.3	11.7	123.1	91.5	962.9	4.2	44.2	64.4	677.7	24.0		
13	411.257	1.2243	1188.0	32.5	86	7.0	7.4	4.2	42.8	40.0	407.3	3.9	39.2	58.7	597.6			
14	416.708	1.4855	1308.0	37.9	82	6.9	7.6	5.8	71.6	59.0	728.9	2.1	26.2	53.2	657.2	25.7		495.0
15	415.646	1.2871	1152.0	32.5	81	6.9	7.7	14.5	155.2	43.5	465.6	1.7	18.1	51.9	555.5			
16	388.860	1.1493	1020.0	28.6	82	7.2	7.6	10.2	97.5	56.0	535.2	1.9	18.1	55.2	527.6	28.7		
17	0.000	0.5666	480.0	13.8	84	7.2	7.3											
18	0.000	0.8344	720.0	19.9	89	7.5	7.7											
19	422.267	1.3999	1188.0	31.6	81	7.3	7.8											
20	436.855	1.4048	1320.0	33.1	82	7.6	7.9	13.8	161.2	43.5	508.2	4.1	47.8	65.6	766.4	24.5		
21	429.525	1.3746	1380.0	39.7	83	6.9	7.8	15.2	173.8	79.0	903.1	2.0	22.9	51.6	589.8			
22	411.223	1.2278	1020.0	30.1	82	6.9	7.3											
23	358.551	1.0287	864.0	22.6	84	6.9	7.2											
24	0.000	0.6843	564.0	14.8	84	6.6	6.8											
25	0.000	0.2842	240.0	9.0	86	6.6	6.6											
26	0.000	0.2383	240.0	6.0	82	6.7	6.9											
27	0.000	0.3564	300.0	9.0	92	6.7	6.9											
28	0.000	0.1881	156.0	4.5	80	6.8	6.9											
29	0.000	0.1710	144.0	3.6	88	6.6	6.8											
30	0.000	0.0982	96.0	3.0	87	6.8	7.0											
31	0.000	0.0909	72.0	1.8	92	6.7	7.1											
TOT	7109.398	28.1043	24540.0	692.4					1694.1		5949.7		286.5		6124.4			
AVG	418.200	0.9066	791.6	22.3	85			15.1	169.4	55.4	595.0	2.6	28.6	49.8	612.4	24.6		446.5

Note: Shaded areas represents Plant Shutdown

STAR-KIST SAMOA, INC.
P.O. BOX 368
PAGO PAGO, AMERICAN SAMOA 96799

DISCHARGE MONITORING REPORT (DMR)

OMB No. 2040-0
Expires 3-31-88

(2-16) PERMIT NUMBER	(17-19) DISCHARGE NUMBER
AS 0000019	001

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	94	12	01	TO	94	12	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (18-25) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-69)	SAMPLE TYPE (70)
FLOW	SAMPLE MEASUREMENT	0.9066	1.7003	mgd					0	continous	
	PERMIT REQUIREMENT		2.9								
BOD	SAMPLE MEASUREMENT				398.0	446.5	495.0		0	2/mo	composite
	PERMIT REQUIREMENT				N/A	N/A	N/A				
TSS	SAMPLE MEASUREMENT	595.0	962.9	lbs/day	37.5	55.4	91.5	mg/l	0	2/wk	composite
	PERMIT REQUIREMENT	2653	6673		N/A	N/A	N/A				
OIL & GREASE	SAMPLE MEASUREMENT	169.4	644.3	lbs/day	4.2	15.1	52.0	mg/l	0	2/wk	composite
	PERMIT REQUIREMENT	675	1688		N/A	N/A	N/A				
[illegible]	SAMPLE MEASUREMENT	28.6	47.8	lbs/day	1.2	2.6	4.2	mg/l	0	2/wk	composite
	PERMIT REQUIREMENT	192	309		N/A	N/A	N/A				
TN	SAMPLE MEASUREMENT	612.4	876.7	lbs/day	26.3	49.8	65.6	mg/l	0	2/wk	composite
	PERMIT REQUIREMENT	1200	2100		N/A	N/A	N/A				
TOTAL AMMONIA	SAMPLE MEASUREMENT				20.3	24.6	28.7	mg/l	0	1/wk	composite
	PERMIT REQUIREMENT				N/A	N/A	133				

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

VIRGIL SHOUSE
Manager, Cannery Manufacturing

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 (Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE 684 | NUMBER 644-4231

DATE: YEAR 95 | MO 02 | DA 24

ATTACHMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

STAR KIST SAMOA, INC
P.O. Box 368
PAGO PAGO, AMERICAN SAMOA
96799

Expires 3 31 [illegible]

PERMIT NUMBER	DISCHARGE NUMBER
AS 0000019	001

MONITORING PERIOD

FROM YEAR	MO	DAY	TO YEAR	MO	DAY
94	12	01	94	12	31

NOTE: Read instructions before completing this form

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE
	SAMPLE MEASUREMENT					80	92	°F	0	continous	
MPERATURE	PERMIT REQUIREMENT					90	95				
	SAMPLE MEASUREMENT				6.6		7.9		0	continous	
	PERMIT REQUIREMENT				6.5		8.6				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

PRINCIPAL EXECUTIVE OFFICER

GIL SHOUSE
Cannery Manufacturing
TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 (Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE AREA CODE	NUMBER	DATE YEAR	MO	DA
648	644-4231	95	02	24

ND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

WASTEWATER SUMMARY REPORT for the month of January 1995

Date	Production Tons	Flow mgd	Alum #/day	Poly #/day	Max Temp F	ph Limits Lo	ph Limits Hi	Oil & Grease Eff mg/l	Oil & Grease Total #/day	TSS Eff mg/l	TSS Total #/day	TP Eff mg/l	TP Total #/day	TN Eff mg/l	TN Total #/day	Total Ammonia Eff mg/l	BOD Eff mg/l
1	0.000	0.2494	216.0	5.4	88	6.9	7.5										
2	0.000	0.0000	0.0	0.0	0	0.0	0.0										
3	0.000	0.0000	0.0	0.0	0	0.0	0.0										
4	0.000	0.0000	0.0	0.0	0	0.0	0.0										
5	0.000	0.4392	360.0	10.8	85	6.6	6.9										
6	0.000	0.0645	60.0	1.5	89	6.8	6.9										
7	0.000	0.4177	360.0	9.0	86	6.7	7.1										
8	0.000	0.9064	744.0	20.5	84	6.8	7.4										
9	326.956	1.2382	1032.0	34.3	85	6.6	7.6										
10	350.950	1.4116	1284.0	39.7	83	6.6	7.2	36.5	428.5	24.0	281.7	1.5	17.6	45.4	532.9	20.7	
11	417.562	1.4944	1260.0	43.3	80	6.6	7.0	70.3	873.6	66.0	820.2	6.7	83.3	57.4	713.3		
12	406.297	1.7307	1440.0	40.3	80	6.7	7.0										
13	440.388	1.2801	1056.0	36.1	82	6.8	7.0										
14	0.000	0.3874	360.0	10.8	88	6.9	7.2										
15	0.000	0.6718	600.0	18.1	87	6.9	7.9										
16	426.657	1.2494	1032.0	35.5	83	6.7	6.9										
17	413.460	1.4628	1260.0	43.3	83	6.7	7.3	17.7	215.3	34.5	419.7	2.2	26.8	34.4	418.5	29.3	
18	420.552	1.9943	1728.0	43.3	83	6.9	7.2	31.2	517.4	54.5	903.9	6.9	114.4	94.2	1562		
19	422.308	1.0190	912.0	30.4	82	6.9	7.5										
20	391.603	0.9225	780.0	27.1	84	6.8	7.3										
21	0.000	0.2720	240.0	7.2	90	6.9	7.1										
22	0.000	1.0479	900.0	27.1	87	6.6	7.5										
23	418.120	1.5375	1356.0	37.9	82	6.6	7.1	7.1	90.8	60.5	773.5	4.7	60.1	67.4	861.8	30.0	
24	403.527	1.2127	1080.0	30.1	82	7.0	7.5	60.4	609.1	39.3	396.3	6.7	67.6	73.4	740.2		
25	434.493	1.5480	1344.0	37.6	83	6.9	7.5	30.1	387.5	48.5	624.3	10.5	135.2	82.1	1057	50.1	485.0
26	414.381	1.3375	1104.0	31.6	83	6.8	7.0	6.7	74.5	53.5	595.1	5.4	60.1	61.2	680.7		
27	437.829	0.9613	804.0	24.1	83	6.7	7.0	6.7	53.6	42.0	335.8	4.8	38.4	56.2	449.3	38.2	
28	0.000	0.4797	396.0	11.4	84	6.9	7.0	13.5	53.9	52.5	209.4	20.8	83.0	68.2	272.1		577.0
29	0.000	0.8051	672.0	19.3	85	6.6	6.8	85.9	575.1	30.5	204.2	1.8	12.1	28.1	188.1	24.5	
30	411.583	1.2683	1044.0	28.6	87	6.6	7.1										
31	397.796	1.0558	864.0	24.1	82	6.8	7.1										
TOT	6934.462	28.465	24288	728.4					3879		5564		698.4		7476		
AVG	407.910	0.9182	783.48	23.5	76			30.51	352.7	42.2	505.8	6.0	63.5	55.7	679.6	27.5	354.0

Note: Shaded areas represents Plant Shutdown

STAR KIST SAMOA, INC.
P.O. BOX 368
PAGO PAGO, AMERICAN SAMOA 96799

DISCHARGE MONITORING REPORT (DMR)

OMB No. 2040
Expires 3 31 88

AS 0000019 (2-16) PERMIT NUMBER

001 (17-19) DISCHARGE NUMBER

MONITORING PERIOD

FROM YEAR	MO	DAY	TO YEAR	MO	DAY
95 (20-21)	01 (22-23)	01 (24-25)	95 (26-27)	01 (28-29)	31 (30-31)

NOTE: Read instructions before completing this form

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE
FLOW	SAMPLE MEASUREMENT	0.9182	1.9943	mgd					0	continous	
	PERMIT REQUIREMENT		2.9								
BOD	SAMPLE MEASUREMENT				485.0	354.0	577.0		0	2/mo	composit
	PERMIT REQUIREMENT				N/A	N/A	N/A				
TSS	SAMPLE MEASUREMENT	505.8	903.9	lbs/day	24.0	42.2	66.0	mg/l	0	2/wk	composit
	PERMIT REQUIREMENT	2653	6673		N/A	N/A	N/A				
OIL & GREASE	SAMPLE MEASUREMENT	352.7	873.2	lbs/day	6.7	30.5	85.9	mg/l	0	2/wk	composit
	PERMIT REQUIREMENT	675	1688		N/A	N/A	N/A				
TP	SAMPLE MEASUREMENT	63.5	135.2	lbs/day	1.5	6.0	20.8	mg/l	0	2/wk	composit
	PERMIT REQUIREMENT	192	309		N/A	N/A	N/A				
TN	SAMPLE MEASUREMENT	679.6	1057.0	lbs/day	28.1	55.7	94.2	mg/l	0	2/wk	composit
	PERMIT REQUIREMENT	1200	2100		N/A	N/A	N/A				
TOTAL AMMONIA	SAMPLE MEASUREMENT				20.7	27.5	50.1	mg/l	0	1/wk	composit
	PERMIT REQUIREMENT				N/A	N/A	133				

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

VIRGIL SHOUSE
Manager, Cannery Manufacturing
TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 (Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE 684 | NUMBER 644-4231

DATE: YEAR 95 | MO 02 | DA 24

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

EPA Form 3320-1 (Rev. 10-79) PREVIOUS EDITION TO BE USED UNTIL SUPPLY IS EXHAUSTED. (REPLACES EPA FORM T-48 WHICH MAY NOT BE USED.)

PAGE OF

STAR-KIST SAMOA, INC
P.O. Box 368
PAGO PAGO, AMERICAN SAMOA
96799

DISCHARGE MONITORING REPORT (DMR)

OMB No. 2040-[illegible]
Expires 3 31 [illegible]

(2 16) PERMIT NUMBER	(17 19) DISCHARGE NUMBER
AS 0000019	001

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	95 (20-21)	01 (22-23)	01 (24-25)	TO	95 (26-27)	01 (28-29)	31 (30-31)

NOTE: Read instructions before completing this form

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE
EMPERATURE	SAMPLE MEASUREMENT					76	90	°F	0	continous	
	PERMIT REQUIREMENT					90	95				
H	SAMPLE MEASUREMENT				6.6		7.9		0	continous	
	PERMIT REQUIREMENT				6.5		8.6				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

LE PRINCIPAL EXECUTIVE OFFICER

IRGIL SHOUSE
r, Cannery Manufacturing

TYPED OR PRINTED

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SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE		DATE		
AREA CODE	NUMBER	YEAR	MO	
684	644-4231	95	02	24

AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

3320-1 (Rev. 10-79) PREVIOUS EDITION TO BE USED UNTIL SUPPLY IS EXHAUSTED. (REPLACES EPA FORM T-48 WHICH MAY NOT BE USED.)

PAGE OF

StarKist Samoa, Inc.

Rcd 12/5/94
Mike

November 22, 1994

Mr. Norman Lovelace
OPINAP (E-4)
U.S. EPA Region 9
75 Hawthorne Street
San Francisco, CA 94105

Mr. Togipa Tausaga
ASEPA
Office of the Governor
American Samoa Government
Pago Pago, American Samoa 96799

Gentlemen:

Re: ***Discharge Monitoring Report for the Months of August, September and October 1994 under NPDES No. 0000019 as issued to Starkist Samoa, Inc.***

Attached is StarKist Samoa's Discharge Monitoring Reports covering the months of August, September and October of 1994.

The following paragraphs summarize the plant's permit violations:

Total Nitrogen:

StarKist Samoa met all effluent limitations except for the monthly Total Nitrogen (TN) averages in August and daily maximum for Total nitrogen (TN) on August 12, 1994.

The plant had mechanical problems on the High Strength Waste (HSW) pumps which cause the high strength liquids to overflow to the treatment plant and resulted in a higher than normal total nitrogen (TN) loadings. The problem was corrected the same day and the plant was back to normal.

Temperature:

The maximum daily temperature limit of 95 F was exceeded on September 17, 1994 for 25 minutes. This took place on a non-production day and corrective action was carried out immediately.

Sincerely,

StarKist Samoa, Inc.

VIRGIL SHOUSE
Cannery Manufacturing Manager

VS\ht:\npdes\samoa

Attachments

cc: Ms. Sheila Wiegman
Mr. Barry Mills
Ms. Pat Young
Mr. Norman Wei

Form Approved
OMB No. 2040-0004
Expires 3-31-88

NAME STAR KIST SAMOA, INC.
ADDRESS P.O. BOX 368
PAGO PAGO, AMERICAN SAMOA 96799
FACILITY
LOCATION

DISCHARGE MONITORING REPORT (DMR)

(2-16) PERMIT NUMBER: AS 0000019
(17-19) DISCHARGE NUMBER: 001

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	94	08	01	TO	94	08	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69)
FLOW	SAMPLE MEASUREMENT	1.2246	1.6356	mgd					0	continous	
	PERMIT REQUIREMENT		2.9								
BOD	SAMPLE MEASUREMENT				298	335	371		0	2/mo	composit
	PERMIT REQUIREMENT				N/A	N/A	N/A				
TSS	SAMPLE MEASUREMENT	828	2501	lbs/day	27.5	79.3	236.8	mg/l	0	2/wk	composit
	PERMIT REQUIREMENT	2653	6673		N/A	N/A	N/A				
OIL & GREASE	SAMPLE MEASUREMENT	304	889	lbs/day	6.6	26.9	84.2	mg/l	0	2/wk	composit
	PERMIT REQUIREMENT	675	1688		N/A	N/A	N/A				
TP	SAMPLE MEASUREMENT	69	199	lbs/day	1.2	6.8	18.8	mg/l	0	2/wk	composit
	PERMIT REQUIREMENT	192	309		N/A	N/A	N/A				
TN	SAMPLE MEASUREMENT	1248	2778	lbs/day	20.9	117.4	263	mg/l	2	2/wk	composit
	PERMIT REQUIREMENT	1200	2100		N/A	N/A	N/A				
TOTAL AMMONIA	SAMPLE MEASUREMENT				16.5	50.6	119	mg/l	0	1/wk	composit
	PERMIT REQUIREMENT				N/A	N/A	133				

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

VIRGIL SHOUSE
Manager, Cannery Manufacturing
TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 *(Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years.)*

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE 684 | NUMBER 644-4231

DATE: YEAR 94 | MO 11 | DA 23

COMMENT AND EXPLANATION OF ANY VIOLATIONS *(Reference all attachments here)*

MITTEE NAME/ADDRESS (Include
ity Name/Location if different)
AME STAR KIST SAMOA, INC
DRESS P.O. Box 368
PAGO PAGO, AMERICAN SAMOA
96799
ILITY
ATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0
Expires 3-31-88

(2-16) AS 0000019 PERMIT NUMBER

(17-19) 001 DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	94	08	01	TO	94	08	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE
TEMPERATURE	SAMPLE MEASUREMENT				78	84	95	°F	0	continous	
	PERMIT REQUIREMENT					90	95				
pH	SAMPLE MEASUREMENT				6.5		7.4		0	continous	
	PERMIT REQUIREMENT				6.5		8.6				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
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	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

VIRGIL SHOUSE
Manager, Cannery Manufacturing
TYPED OR PRINTED

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SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE 684 | NUMBER 644-4231

DATE: YEAR 94 | MO 11 | 23

ENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Wastewater Summary Report for the Month of August 1994

Date	Production Tons	Flow mgd	Alum #/day	Poly #/day	Max Temp F	pH Limits Lo	pH Limits Hi	Oil & Grease Eff mg/l	Oil & Grease Total #/day	TSS Eff mg/l	TSS Total #/day	TP Eff mg/l	TP Total #/day	TN Eff mg/l	TN Total #/day	Tot Ammonia Eff mg/l	BOD Eff mg/l
1	467.120	1.2443	1056.0	30.6	84	7.1	7.2										
2	473.965	1.3928	1128.0	32.1	83	7.0	7.2										
3	466.091	1.3834	1140.0	32.8	82	6.9	7.1	21.1	243	62.0	713	3.6	41	133.0	1530	74.7	
4	492.386	1.3659	1116.0	32.4	84	6.8	7.0	6.6	75	45.5	517	3.0	34	96.4	1095		
5	415.465	1.2544	1104.0	32.8	90	6.9	7.0										
6	0.000	0.6740	552.0	17.0	91	6.8	7.0										
7	0.000	1.0064	864.0	25.2	84	6.9	7.1	7.2	60	27.5	230	1.2	10	20.9	175	16.5	
8	508.918	1.2333	1080.0	32.0	84	6.9	7.0	15.2	156	46.0	472	2.9	30	77.5	795	29.9	
9	416.586	1.2446	1092.0	31.5	86	7.0	7.4	65.0	673	93.0	963	8.1	84	123.0	1273	64.8	
10	455.934	1.2244	1068.0	30.9	84	6.8	7.1	36.2	369	78.5	799	5.8	59	106.0	1079	46.1	371
11	396.070	1.1856	996.0	30.2	85	6.9	7.1	46.8	461	57.3	565	6.2	61	102.0	1006	51.2	
12	403.165	1.2700	1200.0	34.0	86	6.7	7.3	84.2	889	236.8	2501	18.8	199	263.0	2778	119.0	
13	0.000	0.9067	744.0	22.1	91	7.0	7.1	20.3	153	47.0	354	16.4	124	169.0	1274		
14	0.000	1.1522	960.0	29.0	95	6.9	7.4										
15	399.387	1.4080	1188.0	35.0	80	6.7	7.3										
16	340.764	1.2371	1140.0	31.5	86	7.0	7.2	10.3	106	119.0	1224	6.9	71	115.0	1183	36.8	
17	350.881	1.1060	912.0	27.7	86	6.9	7.2	14.7	135	166.5	1531	5.1	47	55.2	508	18.4	298
18	327.996	1.3600	1164.0	34.3	86	6.8	7.2										
19	308.196	1.2262	1116.0	31.5	89	6.6	6.9										
20	0.000	0.4772	384.0	12.6	90	6.8	7.1										
21	0.000	1.0979	924.0	26.8	82	6.9	7.2										
22	401.264	1.3697	1140.0	34.3	82	6.7	7.1										
23	392.974	1.4325	1200.0	35.3	83	6.8	7.2	54.2	646	61.0	727	5.8	69	140.0	1668	41.9	
24	411.606	1.3682	1128.0	35.3	83	6.9	7.2	12.6	143	61.5	700	9.4	107	155.0	1764	58.2	
25	381.740	1.5275	1272.0	37.8	83	6.5	6.9										
26	329.652	1.2309	1080.0	37.8	88	6.6	6.8										
27	0.000	0.8747	732.0	23.6	90	6.8	7.0										
28	0.000	1.1080	960.0	29.0	82	6.9	7.0										
29	470.347	1.4858	1224.0	37.2	84	6.8	7.2										
30	493.425	1.4806	1236.0	37.8	83	6.9	7.0	27.5	339	53.0	653	6.4	79	145.0	1785	49.7	
31	452.036	1.6356	1320.0	38.1	85	6.6	6.8	8.2	112	35.0	476	2.1	29	59.4	808		
TOT.	9555.968	37.9639	32220.0	958.2					4559		12425		1043		18720		
AVG	415.477	1.2246	1039.4	30.9	86			26.9	304	79.3	828	6.8	70	117.4	1248	50.6	335

Form Approved
OMB No. 2040-
Expires 3-31-88

NAME STAR-KIST SAMOA, INC.
ADDRESS P.O. BOX 368
PAGO PAGO, AMERICAN SAMOA 96799
FACILITY
LOCATION

DISCHARGE MONITORING REPORT (DMR)

(2-16) (17-19)

AS 0000019 — PERMIT NUMBER
001 — DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	94	09	01	TO	94	09	30
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form

PARAMETER (2)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69)
FLOW	SAMPLE MEASUREMENT	1.0522	1.7152	mgd					0	continous	
	PERMIT REQUIREMENT		2.9								
BOD	SAMPLE MEASUREMENT				262	405.1	549		0	2/mo	composit
	PERMIT REQUIREMENT				N/A	N/A	N/A				
TSS	SAMPLE MEASUREMENT	410	845	lbs/day	12.5	42.3	87.3	mg/l	0	2/wk	composit
	PERMIT REQUIREMENT	2653	6673		N/A	N/A	N/A				
OIL & GREASE	SAMPLE MEASUREMENT	181	563	lbs/day	3.9	19.4	49.9	mg/l	0	2/wk	composit
	PERMIT REQUIREMENT	675	1688		N/A	N/A	N/A				
TP	SAMPLE MEASUREMENT	42	115	lbs/day	1.3	4.3	11.9	mg/l	0	2/wk	composit
	PERMIT REQUIREMENT	192	309		N/A	N/A	N/A				
TN	SAMPLE MEASUREMENT	823	2004	lbs/day	30.7	84.2	207	mg/l	0	2/wk	composit
	PERMIT REQUIREMENT	1200	2100		N/A	N/A	N/A				
TOTAL AMMONIA	SAMPLE MEASUREMENT				20.9	35.3	61.2	mg/l	0	1/wk	composit
	PERMIT REQUIREMENT				N/A	N/A	133				

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

VIRGIL SHOUSE
Manager, Cannery Manufacturing
TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 *(Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years)*

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE 684 | NUMBER 644-4231

DATE: YEAR 94 | MO 11 | 23

COMMENT AND EXPLANATION OF ANY VIOLATIONS *(Reference all attachments here)*

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME STAR KIST SAMOA, INC

ADDRESS P.O. Box 368
PAGO PAGO, AMERICAN SAMOA
96799

FACILITY

LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-
Expires 3-31-88

(2-16) AS 0000019 PERMIT NUMBER

(17-19) 001 DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	94	09	01	TO	94	09	30
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69)
TEMPERATURE	SAMPLE MEASUREMENT				76	85	96	°F	1	continous	
	PERMIT REQUIREMENT					90	95				
pH	SAMPLE MEASUREMENT				6.5		7.4		0	continous	
	PERMIT REQUIREMENT				6.5		8.6				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

VIRGIL SHOUSE
Manager, Cannery Manufacturing
TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 (Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE 684 | NUMBER 644-4231

DATE: YEAR 94 | MO 11 | 23

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Wastewater Summary Report for the Month of September 1994

Date	Production Tons	Flow mgd	Alum #/day	Poly #/day	Max Temp F	pH Limits Lo	pH Limits Hi	Oil & Grease Eff mg/l	Oil & Grease Total #/day	TSS Eff mg/l	TSS Total #/day	TP Eff mg/l	TP Total #/day	TN Eff mg/l	TN Total #/day	Tot Ammonia Eff mg/l	BOD Eff mg/l
1	413.816	1.7152	1440.0	43.5	85	6.8	7.0										
2	434.618	1.0320	1104.0	32.4	89	7.0	7.2										
3	0.000	0.1350	108.0	3.2	80	7.0	7.1										
4	0.000	0.5920	432.0	13.5	81	7.2	7.3										
5	0.000	1.1051	936.0	27.4	82	7.2	7.4										
6	451.358	1.2349	1068.0	30.9	86	6.8	6.9										
7	453.367	1.1641	1080.0	32.0	85	6.9	7.0	7.7	75	87.3	845	11.9	115	207.0	2004	61.2	
8	437.924	1.3566	1200.0	34.7	85	6.9	7.2	49.9	563	62.5	705	5.3	59	140.0	1579		
9	430.206	1.1452	996.0	29.9	90	6.5	6.7										
10	0.000	0.5002	372.0	11.0	90	6.6	6.9										
11	0.000	0.8995	708.0	21.0	86	6.5	6.8	43.4	325	49.0	367	1.4	10	30.7	230		
12	450.591	1.2307	1032.0	29.6	87	6.5	7.0	16.8	172	43.5	445	3.4	34	75.4	772	23.0	
13	431.159	1.2692	1008.0	34.0	86	6.8	7.1	3.9	41	35.5	375	2.3	24	69.6	735		
14	464.726	1.3669	1224.0	35.9	85	6.7	7.2	18.8	214	29.0	330	4.0	46	57.7	656	32.2	
15	475.546	1.2447	1028.0	33.4	86	7.0	7.3	7.1	73	29.5	305	5.0	52	97.4	1008		
16	429.074	0.8908	744.0	22.1	88	6.9	7.0	19.2	142	38.5	285	5.8	43	111.0	822	49.2	
17	0.000	0.8136	672.0	20.2	94	6.8	6.9	27.1	183	12.5	85	1.3	9	31.4	212	29.0	
18	0.000	0.9095	792.0	22.1	84	6.6	6.8										
19	451.022	1.1486	972.0	27.7	85	6.5	6.9										
20	395.526	1.1944	1020.0	29.0	88	7.0	7.1	13.8	137	41.0	407	5.5	55	60.6	602	31.8	262
21	391.147	1.1806	1008.0	28.4	86	6.9	7.1	7.5	74	33.0	324	5.3	52	84.5	830		
22	403.458	1.0452	840.0	25.2	88	6.8	6.9										
23	359.456	1.1116	936.0	27.7	86	6.6	6.8										
24	0.000	0.6093	504.0	16.4	88	6.8	7.0										
25	0.000	0.9800	804.0	24.6	80	6.7	6.9										
26	445.628	1.1198	900.0	25.2	82	6.9	7.0										
27	360.737	1.1530	960.0	28.4	86	6.6	6.8	19.5	187	49.0	470	2.3	22	77.9	747	20.9	549
28	382.033	1.1643	984.0	29.0	84	6.5	6.9	17.7	171	40.0	387	3.0	29	51.6	500		
29	441.447	1.2196	1068.0	30.6	85	6.6	6.7										
30	404.619	1.0334	828.0	27.1	89	6.8	7.0										
TOT.	8907.458	31.5650	26768.0	796.1					2357		5329.8		549		10696		
AVG	424.165	1.0522	892.3	26.5	86			19.4	181	42.3	410	4.3	42	84.2	823	35.3	405.1

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME STAR KIST SAMOA, INC.

ADDRESS P.O. BOX 368
PAGO PAGO, AMERICAN SAMOA 96799

FACILITY

LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-
Expires 3 31 88

(2-16) AS 0000019 PERMIT NUMBER

(17-19) 001 DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	94 (20 21)	10 (22 23)	01 (24 25)	TO	94 (26 27)	10 (28 29)	31 (30 31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (18-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69)
FLOW	SAMPLE MEASUREMENT	0.8402	1.3637	mgd					0	continous	
	PERMIT REQUIREMENT		2.9								
BOD	SAMPLE MEASUREMENT				295	338	381		0	2/mo	composit
	PERMIT REQUIREMENT				N/A	N/A	N/A				
TSS	SAMPLE MEASUREMENT	582	1610	lbs/day	31.5	60.8	142	mg/l	0	2/wk	composit
	PERMIT REQUIREMENT	2653	6673		N/A	N/A	N/A				
OIL & GREASE	SAMPLE MEASUREMENT	228	583	lbs/day	5.6	22.3	51.4	mg/l	0	2/wk	composit
	PERMIT REQUIREMENT	675	1688		N/A	N/A	N/A				
TP	SAMPLE MEASUREMENT	27	53	lbs/day	0.6	3.0	6.4	mg/l	0	2/wk	composit
	PERMIT REQUIREMENT	192	309		N/A	N/A	N/A				
[illegible]	SAMPLE MEASUREMENT	549	756	lbs/day	14.2	58.1	76.9	mg/l	0	2/wk	composit
	PERMIT REQUIREMENT	1200	2100		N/A	N/A	N/A				
TOTAL AMMONIA	SAMPLE MEASUREMENT				10.1	27.3	47.1	mg/l		1/wk	composit
	PERMIT REQUIREMENT				N/A	N/A	133				

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

VIRGIL SHOUSE
Manager, Cannery Manufacturing

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 (Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE 684 | NUMBER 644-4231

DATE: YEAR 94 | MO 11 | 23

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

MITTEE NAME/ADDRESS (Include City Name/Location if different)

ME STAR KIST SAMOA, INC

DRESS P.O. Box 368

PAGO PAGO, AMERICAN SAMOA

96799

ILITY

ATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-
Expires 3-31-88

(2-16) PERMIT NUMBER	(17-19) DISCHARGE NUMBER
AS 0000019	001

MONITORING PERIOD	YEAR	MO	DAY		YEAR	MO	DAY
FROM	94	10	01	TO	94	10	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form

PARAMETER (42-47)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
TEMPERATURE	SAMPLE MEASUREMENT				76	83	94	°F	0	continous	
	PERMIT REQUIREMENT					90	95				
pH	SAMPLE MEASUREMENT				6.3		9.8		0	continous	
	PERMIT REQUIREMENT				6.5		8.6				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
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	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

ME/TITLE PRINCIPAL EXECUTIVE OFFICER

VIRGIL SHOUSE

nager, Cannery Manufacturing

TYPED OR PRINTED

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SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE

AREA CODE	NUMBER
684	644-4231

DATE

YEAR	MO	
94	11	23

MENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Wastewater Summary Report for the Month of October 1994

Date	Production Tons	Flow mgd	Alum #/day	Poly #/day	Max Temp F	pH Limits Lo	pH Limits Hi	Oil & Grease Eff mg/l	Oil & Grease Total #/day	TSS Eff mg/l	TSS Total #/day	TP Eff mg/l	TP Total #/day	TN Eff mg/l	TN Total #/day	Tot Ammonia Eff mg/l	BOD Eff mg/l
1	0.000	0.5967	576.0	12.0	89	6.8	6.9										
2	0.000	0.7970	720.0	19.6	86	6.6	6.8										
3	426.624	0.9288	900.0	22.6	86	6.7	6.8										
4	409.829	1.3637	1128.0	32.2	84	6.7	6.9	51.4	583	142.0	1610	3.2	36	61.9	702	26.4	381
5	432.894	1.3425	1140.0	30.7	81	6.5	7.1										
6	436.606	1.3235	1152.0	35.5	83	6.5	7.2	49.4	544	56.7	624	2.5	27	68.7	756		295
7	391.363	0.9640	840.0	24.4	87	6.7	7.0										
8	0.000	0.5138	408.0	12.6	90	6.9	7.1										
9	0.000	0.3472	288.0	8.4	90	6.9	7.3										
10	0.000	0.2707	210.0	5.8	86	7.6	8.1										
11	0.000	0.4260	324.0	10.8	86	7.5	7.7										
12	0.000	0.4996	432.0	13.5	82	7.5	8.2										
13	0.000	0.6751	612.0	15.4	94	6.9	9.8										
14	0.000	0.2037	162.0	5.4	82	7.6	7.6										
15	0.000	0.2029	162.0	5.4	80	7.0	7.0										
16	0.000	0.9235	840.0	21.1	84	6.6	7.3	14.8	114	31.5	242	0.6	5	14.2	109		
17	440.084	1.2175	936.0	23.5	85	6.6	6.8	17.4	176	36.5	370	1.9	19	50.7	513	10.1	
18	380.667	1.2433	960.0	24.1	84	6.3	7.4	19.3	200	88.5	915	5.1	53	57.5	595		
19	427.730	1.2593	960.0	30.1	83	6.8	7.2	5.6	59	49.0	513	2.5	27	58.5	613	21.5	
20	410.869	1.1829	945.6	29.6	85	6.8	7.3	14.8	146	45.5	448	2.3	23	62.1	611		
21	428.934	0.9101	888.0	22.3	86	6.8	7.5	9.8	74	37.5	284	3.9	29	76.9	582	47.1	
22	0.000	0.5595	432.0	13.5	84	7.0	7.3	5.8	27	79.0	368	6.4	30	61.7	287		
23	0.000	0.6362	528.0	16.6	85	7.1	7.5										
24	427.180	0.9385	768.0	24.1	84	7.4	7.8										
25	421.195	1.0854	912.0	28.6	85	7.1	7.3										
26	446.605	1.2753	1032.0	32.4	84	6.8	7.2	37.1	393	61.3	650	2.7	29	64.3	682	31.3	
27	451.525	1.1238	960.0	24.1	84	6.8	7.4	20.3	190	40.9	382	2.2	20	63.1	590		
28	401.897	1.0145	864.0	24.1	86	7.3	7.4										
29	0.000	0.4856	432.0	13.5	86	7.3	7.3										
30	0.000	0.7414	600.0	18.1	83	7.2	7.6										
31	424.995	0.9937	792.0	24.8	84	7.0	7.3										
TOT.	6758.997	26.0457	21903.6	624.8					2505		6405.4		298		6039		
AVG	422.437	0.8402	706.6	20.2	85			22.3	228	60.8	582	3.0	27	58.1	549	27.3	338.0

Rec'd EPA 9/7/94
MJ

StarKist Samoa, Inc.

An Affiliate of StarKist Seafood Company

P.O. Box 368
Pago Pago, TuTuila Islands
American Samoa 96799
Telephone: 684-644-4231
Facsimile: 684-644-2440

Heinz

August 24, 1994

Mr. Norman Lovelace
OPINAP (E-4)
U.S. EPA Region 9
75 Hawthorne Street
San Francisco, CA 94105

Mr. Togipa Tausaga
ASEPA
Office of the Governor
American Samoa Government
Pago Pago, American Samoa 96799

Gentlemen:

Re: Discharge Monitoring Report for the Months of May, June and July, 1994 under NPDES No. 0000019 as issued to Starkist Samoa, Inc.

Please find attached StarKist Samoa's Discharge Monitoring Report covering the months of May, June and July, 1994.

Temp.

The maximum daily temperature of 95 F was exceeded on July 2, 1994 for fifteen (15) minutes. This took place on a non production day and the plant had been down for 15 hours. In the future, clean, cool seawater will be introduced into the wastewater system during extended downtime.

All other parameters were met.

Sincerely,

VIRGIL SHOUSE
Manager, Cannery Manufacturing

Attachments

cc: Ms. Sheila Wiegman
Mr. Norman Wei
Mr. Barry Mills
Ms. Pat Young

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME STAR KIST SAMOA, INC.

ADDRESS P.O. BOX 368
PAGO PAGO, AMERICAN SAMOA 96799

FACILITY

LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-
Expires 3-31-89

PERMIT NUMBER (2-16)	DISCHARGE NUMBER (17-19)
AS 0000019	001

MONITORING PERIOD	YEAR	MO	DAY		YEAR	MO	DAY
FROM	94	05	01	TO	94	05	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(1 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(1 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69)
FLOW	SAMPLE MEASUREMENT	1.0634	1.6754	mgd					0	continous	
	PERMIT REQUIREMENT		2.9								
BOD	SAMPLE MEASUREMENT				489	599	708		0	2/mo	composit
	PERMIT REQUIREMENT				N/A	N/A	N/A				
TSS	SAMPLE MEASUREMENT	456	1077	lbs/day	9.3	45.2	84.5	mg/1	0	2/wk	composit
	PERMIT REQUIREMENT	2653	6673		N/A	N/A	N/A				
OIL & GREASE	SAMPLE MEASUREMENT	94	390	lbs/day	2.8	8.9	30.6	mg/1	0	2/wk	composit
	PERMIT REQUIREMENT	675	1688		N/A	N/A	N/A				
TP	SAMPLE MEASUREMENT	55	125	lbs/day	1.5	5.5	12.5	mg/1	0	2/wk	composit
	PERMIT REQUIREMENT	192	309		N/A	N/A	N/A				
[illegible]	SAMPLE MEASUREMENT	849	1389	lbs/day	26	83	114	mg/1	0	2/wk	composit
	PERMIT REQUIREMENT	1200	2100		N/A	N/A	N/A				
TOTAL AMMONIA	SAMPLE MEASUREMENT				24.8	44.9	72.8	mg/1	0	1/wk	composit
	PERMIT REQUIREMENT				N/A	N/A	133				

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

VIRGIL SHOUSE
Manager, Cannery Manufacturing
TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 USC § 1001 AND 33 USC § 1319. (Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years.)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE 684 | NUMBER 644-4231

DATE: YEAR 94 | MO 08 | DA 25

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME: STAR KIST SAMOA, INC

ADDRESS: P.O. Box 368
PAGO PAGO, AMERICAN SAMOA
96799

FACILITY

LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 20-R...
Expires 3 31 88

PERMIT NUMBER (2-16)	DISCHARGE NUMBER (17-19)
AS 0000019	001

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	94	05	01	TO	94	05	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69)
TEMP.	SAMPLE MEASUREMENT				77	85	94	°F		continous	
	PERMIT REQUIREMENT					90	95				
pH	SAMPLE MEASUREMENT				6.5		7.3			continous	
	PERMIT REQUIREMENT				6.5		8.6				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

VIRGIL SHOUSE
Manager, Cannery Manufacturing

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 (Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE

AREA CODE	NUMBER
684	644-4231

DATE

YEAR	MO	
94	08	25

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Wastewater Summary Report for the Month of May 1994

Date	Production Tons	Flow mgd	Alum #/day	Poly #/day	Max Temp F	pH Limits Lo	pH Limits Hi	Oil & Grease Eff mg/l	Oil & Grease Total #/day	TSS Eff mg/l	TSS Total #/day	TP Eff mg/l	TP Total #/day	TN Eff mg/l	TN Total #/day	Tot Ammonia Eff mg/l	BOD Eff mg/l
1	0.000	0.9485	792.0	23.6	87	6.8	6.9										
2	479.042	1.2042	1020.0	29.9	86	6.9	7.0										
3	406.053	1.1041	900.0	27.4	87	6.9	7.1	2.8	26	40.5	372	8.1	74	86.5	794	36.8	708
4	434.433	1.5298	1260.0	37.2	83	6.9	7.0	7.2	92	58.5	744	2.5	32	71.9	915		489
5	411.188	1.2357	1044.0	30.2	86	7.0	7.3										
6	389.342	1.0504	852.0	26.2	89	7.1	7.2										
7	0.000	0.5717	456.0	14.2	94	6.8	7.0										
8	0.000	0.7526	600.0	16.7	88	7.1	7.3										
9	454.607	1.1886	960.0	29.3	88	6.9	7.2										
10	348.747	1.2240	1020.0	29.9	88	6.7	7.3	4.8	49	35.0	356	3.4	34	62.3	634	30.8	
11	376.467	1.2043	996.0	29.6	88	6.8	7.2	4.4	44	32.0	320	12.5	125	96.9	970		
12	322.338	1.1991	960.0	28.4	88	6.8	7.0										
13	278.627	0.9061	744.0	22.1	90	6.5	7.1										
14	0.000	0.4611	372.0	12.3	90	6.7	7.1										
15	0.000	0.8999	720.0	22.1	80	6.6	7.0	3.8	28	27.5	206	1.5	11	26.0	195		
16	456.050	1.1240	924.0	28.0	86	6.8	7.0	3.2	30	26.4	247	2.0	19	52.3	489	24.8	
17	438.352	1.2588	1020.0	30.2	86	6.7	6.9	8.9	93	9.3	97	3.2	34	88.1	922		
18	473.758	1.3583	1128.0	32.1	85	6.5	6.9	6.7	76	34.5	390	6.2	70	114.0	1288	44.8	
19	484.768	1.3307	1104.0	32.8	85	6.5	7.0	4.3	48	44.0	487	9.5	105	96.8	1071	60.3	
20	458.543	1.1168	900.0	27.1	93	6.9	7.1	7.1	66	39.5	367	5.7	53	94.8	880		
21	0.000	0.6687	540.0	17.0	88	6.9	7.2	9.7	54	77.5	431	5.8	32	84.1	468	72.8	
22	0.000	1.0216	864.0	25.2	85	6.9	7.2										
23	494.093	1.2333	996.0	29.3	88	6.8	7.1										
24	522.822	1.6754	1380.0	39.1	84	7.0	7.2										
25	479.277	1.5326	1260.0	36.2	86	7.0	7.3	30.6	390	84.5	1077	5.9	75	109.0	1389	56.3	
26	490.466	1.2770	1044.0	30.0	84	6.7	7.0	21.6	230	78.5	834	4.6	49	95.8	1017	32.3	
27	379.476	0.8961	744.0	21.4	88	6.6	7.0										
28	0.000	0.4876	396.0	12.6	89	6.8	7.1										
29	0.000	0.2674	216.0	6.9	84	6.5	6.9										
30	0.000	0.9484	780.0	24.6	79	6.9	7.1										
31	485.888	1.2875	1056.0	31.5	83	6.8	7.0										
TOT.	9064.337	32.9643	27048.0	803.1					1225		5928		714		11033		
AVG	431.635	1.0634	872.5	25.9	87			8.9	94	45.2	456	5.5	55	83.0	849	44.9	599

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME STAR KIST SAMOA, INC.

ADDRESS P.O. BOX 368

PAGO PAGO, AMERICAN SAMOA 96799

FACILITY

LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

(2-16) (17-19)

AS 0000019 — PERMIT NUMBER

001 — DISCHARGE NUMBER

MONITORING PERIOD

FROM YEAR (20-21)	MO (22-23)	DAY (24-25)	TO YEAR (26-27)	MO (28-29)	DAY (30-31)
94	06	01	94	06	30

Form Approved
OMB No. 2040
Expires 3 31 88

NOTE: Read instructions before completing this form

PARAMETER (32-37)		(4 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69)
FLOW	SAMPLE MEASUREMENT	1.1177	1.7218	mgd					0	continous	
	PERMIT REQUIREMENT		2.9								
BOD	SAMPLE MEASUREMENT				204	208	212		0	2/mo	composit
	PERMIT REQUIREMENT				N/A	N/A	N/A				
TSS	SAMPLE MEASUREMENT	769	1671	lbs/day	39.5	71.5	166.5	mg/l	0	2/wk	composit
	PERMIT REQUIREMENT	2653	6673		N/A	N/A	N/A				
OIL & GREASE	SAMPLE MEASUREMENT	272	912	lbs/day	8.8	26.3	90.9	mg/l	0	2/wk	composit
	PERMIT REQUIREMENT	675	1688		N/A	N/A	N/A				
TP	SAMPLE MEASUREMENT	80	171	lbs/day	3.5	7.2	14.3	mg/l	0	2/wk	composit
	PERMIT REQUIREMENT	192	309		N/A	N/A	N/A				
[illegible]	SAMPLE MEASUREMENT	1006	1864	lbs/day	65.6	90.5	153	mg/l	0	2/wk	composit
	PERMIT REQUIREMENT	1200	2100		N/A	N/A	N/A				
TOTAL AMMONIA	SAMPLE MEASUREMENT				18.4	36.4	92.9	mg/l	0	1/wk	composit
	PERMIT REQUIREMENT				N/A	N/A	133				

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

VIRGIL SHOUSE
Manager, Cannery Manufacturing
TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 (Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE 684 | NUMBER 644-4231

DATE: YEAR 94 | MO 08 | DAY 25

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME STAR KIST SAMOA, INC

ADDRESS P.O. Box 368
PAGO PAGO, AMERICAN SAMOA
96799

FACILITY

LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

(2-16) AS 0000019 PERMIT NUMBER

(17-19) 001 DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	94	06	01	TO	94	06	30
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

Form Approved
OMB No. 2040-
Expires 3-31-88

NOTE: Read instructions before completing this form

PARAMETER (32-37)		(1 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69)
TEMP.	SAMPLE MEASUREMENT				73	82	94	°F	0	continous	
	PERMIT REQUIREMENT					90	95				
pH	SAMPLE MEASUREMENT				6.5		7.3		0	continous	
	PERMIT REQUIREMENT				6.5		8.6				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
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NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

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Manager, Cannery Manufacturing
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SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE 684 | NUMBER 644-4231

DATE: YEAR 94 | MO 08 | 25

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Wastewater Summary Report for the Month of June 1994

Date	Production Tons	Flow mgd	Alum #/day	Poly #/day	Max Temp F	pH Limits Lo	pH Limits Hi	Oil & Grease Eff mg/l	Oil & Grease Total #/day	TSS Eff mg/l	TSS Total #/day	TP Eff mg/l	TP Total #/day	TN Eff mg/l	TN Total #/day	Tot Ammonia Eff mg/l	BOD Eff mg/l
1	385.910	1.1825	960.0	29.9	84	7.0	7.1	8.8	87	45.0	443	4.6	45	74.6	734	27.9	
2	435.653	1.3298	1080.0	32.1	84	6.9	7.0	11.2	124	64.0	708	4.3	47	102.0	1128		
3	336.723	0.7818	636.0	20.5	84	6.9	7.1										
4	0.000	0.2994	240.0	7.9	94	6.7	7.0										
5	0.000	0.8671	720.0	22.1	86	6.8	7.0										
6	230.112	1.3836	1116.0	33.1	82	6.8	6.9										
7	377.974	1.2170	1020.0	30.9	86	6.6	6.8	25.9	262	40.0	405	4.6	47	68.2	690	19.7	
8	484.871	1.3200	1080.0	31.5	85	6.7	6.8	11.1	122	39.5	434	3.5	38	72.1	791		
9	499.548	1.3260	1092.0	33.1	83	6.8	6.9										
10	461.119	1.1804	948.0	28.7	86	6.5	6.8										
11	0.000	0.3663	288.0	9.8	92	6.8	7.0										
12	0.000	0.9618	768.0	23.6	86	6.5	6.9										
13	473.566	1.3769	1128.0	34.3	84	6.7	7.2										
14	488.902	1.7218	1416.0	41.0	83	6.6	7.1										
15	478.788	1.6018	1344.0	39.1	84	6.5	7.0										
16	500.374	1.2360	1032.0	30.9	82	6.8	7.0	28.6	294	54.5	560	10.7	110	94.0	966	29.4	212
17	454.098	1.0782	888.0	27.7	86	6.7	6.9	38.8	348	53.0	475	14.3	128	126.0	1130		204
18	0.000	0.2551	204.0	6.3	89	6.9	7.3										
19	0.000	0.8437	708.0	20.5	80	6.9	7.0										
20	499.821	1.1921	960.0	29.3	88	6.8	6.9	13.7	136	47.5	471	6.1	60	81.7	810	30.0	
21	421.101	1.2931	1044.0	30.9	82	6.6	6.8										
22	451.319	1.3173	1104.0	32.4	84	6.7	6.8										
23	490.542	1.4653	1224.0	36.2	82	6.5	7.0	13.5	165	112.0	1365	14.0	171	153.0	1864	92.9	
24	464.275	1.0484	864.0	25.8	83	6.9	7.2										
25	0.000	0.4542	360.0	12.6	85	6.5	6.8										
26	0.000	1.0789	876.0	28.4	82	6.9	7.0										
27	481.397	1.3378	1116.0	34.7	80	6.8	6.9										
28	429.245	1.4491	1200.0	36.2	82	6.7	6.9	12.2	147	81.5	982	5.0	60	65.6	791	18.4	
29	448.163	1.3576	1128.0	36.2	83	6.9	7.1	34.8	393	83.5	943	4.5	50	68.1	769		
30	398.388	1.2065	984.0	30.0	84	6.8	7.2	90.9	912	166.5	1671	12.2	122	139.0	1395	40.1	
TOT.	9691.889	33.5295	27528.0	835.7					2988		8455.1		880		11067		
AVG	745.530	1.1177	917.6	27.9	85			26.3	272	71.5	769	7.6	80	94.9	1006	36.9	208.0

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME STAR KIST SAMOA, INC.

ADDRESS P.O. BOX 368
PAGO PAGO, AMERICAN SAMOA 96799

FACILITY

LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-
Expires 3-31-88

(2-16) AS 0000019 PERMIT NUMBER

(17-19) 001 DISCHARGE NUMBER

MONITORING PERIOD

FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	94	07	01		94	07	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE
FLOW	SAMPLE MEASUREMENT	0.8727	1.5019	mgd					0	continous	
	PERMIT REQUIREMENT		2.9								
BOD	SAMPLE MEASUREMENT				508	528	548		0	2/mo	composit
	PERMIT REQUIREMENT				N/A	N/A	N/A				
TSS	SAMPLE MEASUREMENT	390	1149	lbs/day	12.5	40.3	92	mg/l	0	2/wk	composit
	PERMIT REQUIREMENT	2653	6673		N/A	N/A	N/A				
OIL & GREASE	SAMPLE MEASUREMENT	117	405	lbs/day	4.3	12.0	32.4	mg/l	0	2/wk	composit
	PERMIT REQUIREMENT	675	1688		N/A	N/A	N/A				
TP	SAMPLE MEASUREMENT	42	151	lbs/day	0.6	4.4	12.1	mg/l	0	2/wk	composit
	PERMIT REQUIREMENT	192	309		N/A	N/A	N/A				
[illegible]	SAMPLE MEASUREMENT	867	1586	lbs/day	26.7	98.1	143	mg/l	0	2/wk	composit
	PERMIT REQUIREMENT	1200	2100		N/A	N/A	N/A				
TOTAL AMMONIA	SAMPLE MEASUREMENT				25.2	52.2	95.5	mg/l	0	1/wk	composit
	PERMIT REQUIREMENT				N/A	N/A	133				

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

VIRGIL SHOUSE
Manager, Cannery Manufacturing
TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 (Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years.)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE 684 | NUMBER 644-4231

DATE: YEAR 94 | MO 08 | DA 25

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME STAR KIST SAMOA, INC

ADDRESS P.O. Box 368
PAGO PAGO, AMERICAN SAMOA
96799

FACILITY

LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

(2-16) AS 0000019 PERMIT NUMBER

(17-19) 001 DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	94	07	01	TO	94	07	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

Form Approved
OMB No. 2040-
Expires 3-31-8

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (48-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69)
TEMP.	SAMPLE MEASUREMENT				77	82	96	°F	1	continous	
	PERMIT REQUIREMENT					90	95				
pH	SAMPLE MEASUREMENT				6.5		7.4		0	continous	
	PERMIT REQUIREMENT				6.5		8.6				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
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NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

VIRGIL SHOUSE
Manager, Cannery Manufacturing

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SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE 684 | NUMBER 644-4231

DATE: YEAR 94 | MO 08 | 25

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Wastewater Summary Report for the Month of July 1994

Date	Production Tons	Flow mgd	Alum #/day	Poly #/day	Max Temp F	pH Limits Lo	pH Limits Hi	Oil & Grease Eff mg/l	Oil & Grease Total #/day	TSS Eff mg/l	TSS Total #/day	TP Eff mg/l	TP Total #/day	TN Eff mg/l	TN Total #/day	Tot Ammonia Eff mg/l	BOD Eff mg/l
1	385.752	0.8354	684.0	22.1	88	6.9	7.0										
2	0.000	0.5327	432.0	13.2	96	6.8	6.9										
3	0.000	0.5390	420.0	12.6	90	6.6	6.8										
4	0.000	0.3899	312.0	9.5	81	6.6	6.7										
5	0.000	0.2880	216.0	6.9	80	6.9	7.1										
6	0.000	0.1910	144.0	4.1	81	7.0	7.1										
7	0.000	0.1480	108.0	3.5	79	7.0	7.2										
8	0.000	0.2340	180.0	5.7	87	6.9	7.1										
9	0.000	0.3584	276.0	8.2	78	6.9	7.2										
10	0.000	0.8243	684.0	20.5	82	7.0	7.2										
11	469.797	1.1609	936.0	29.0	84	6.8	7.1										
12	424.157	1.0979	900.0	27.4	82	6.9	7.2	13.0	119	32.5	297	7.4	67	135.0	1233	45.8	
13	465.648	1.5019	1224.0	36.2	82	7.1	7.3	32.4	405	92.0	1149	12.1	151	127.0	1586	59.6	
14	440.201	1.2379	1008.0	230.0	83	7.0	7.2										
15	472.904	0.8669	708.0	20.2	94	6.8	7.1										
16	0.000	0.6012	480.0	14.5	86	6.9	7.1										
17	0.000	0.8562	696.0	22.1	81	6.9	7.1	9.0	64	15.0	107	0.6	4	26.7	190	25.2	
18	471.668	1.0380	852.0	26.8	84	6.9	7.0	8.3	72	37.5	324	1.7	15	68.0	587	29.3	
19	454.322	1.2093	984.0	30.9	82	6.8	7.0	10.3	104	58.5	588	2.6	26	91.5	920	47.0	
20	488.890	1.0246	828.0	28.0	83	7.0	7.2	12.9	110	50.5	430	3.0	25	133.0	1133	79.6	
21	436.418	1.1074	912.0	29.9	83	7.0	7.4	4.3	40	45.0	414	2.7	25	91.3	841	51.0	
22	407.023	0.8773	720.0	21.4	86	6.7	6.9	5.3	39	44.5	325	2.5	18	88.5	646		
23	0.000	0.3704	312.0	9.5	93	7.0	7.1	10.2	31	12.5	39	6.8	21	143.0	440	95.5	
24	0.000	0.8911	744.0	22.7	87	6.5	6.9										
25	505.407	1.4488	1176.0	34.7	82	6.5	6.8										
26	458.995	1.4523	1212.0	35.3	83	6.7	6.9	18.4	222	24.5	296	4.5	55	82.5	996	36.5	548
27	485.604	1.2529	1080.0	31.5	83	6.5	6.7	8.4	88	30.5	318	4.9	51	92.1	960		508
28	466.215	1.0813	888.0	27.7	82	6.6	6.8										
29	442.424	1.1736	960.0	29.0	91	6.8	7.0										
30	0.000	0.6957	540.0	18.9	92	6.7	7.1										
31	0.000	0.8956	696.0	21.4	85	7.0	7.2										
TOT.	7275.425	26.1819	21312.0	853.4					1292		4286.1		459		9532		
AVG	454.714	0.8727	710.4	28.4	85			12.0	117	40.3	390	4.4	42	98.1	867	52.2	528.0

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if different)*
NAME STAR KIST SAMOA, INC.
ADDRESS P.O. BOX 368
PAGO PAGO, AMERICAN SAMOA 96799
FACILITY
LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM *(NPDES)*
DISCHARGE MONITORING REPORT *(DMR)*

Form Approved
OMB No. 2040-
Expires 3-31-88

PERMIT NUMBER *(2-16)*	DISCHARGE NUMBER *(17-19)*
AS 0000019	001

Heavy Metals

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	94	03	01	TO	94	03	31
	(20-21)	*(22-23)*	*(24-25)*		*(26-27)*	*(28-29)*	*(30-31)*

NOTE: Read instructions before completing this for

PARAMETER *(32-37)*		*(3 Card Only)* QUANTITY OR LOADING *(46-53)* AVERAGE	*(54-61)* MAXIMUM	UNITS	*(4 Card Only)* QUALITY OR CONCENTRATION *(38-45)* MINIMUM	*(46-53)* AVERAGE	*(54-61)* MAXIMUM	UNITS	NO. EX *(62-63)*	FREQUENCY OF ANALYSIS *(64-68)*	SA
CADMIUM	SAMPLE MEASUREMENT	0.002		mg/l							
	PERMIT REQUIREMENT										
CHROMIUM	SAMPLE MEASUREMENT	<0.001		mg/l							
	PERMIT REQUIREMENT										
MERCURY	SAMPLE MEASUREMENT	<0.00005		mg/l							
	PERMIT REQUIREMENT										
LEAD	SAMPLE MEASUREMENT	<0.001		mg/l							
	PERMIT REQUIREMENT										
ZINC	SAMPLE MEASUREMENT	0.1		mg/l							
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
VIRGIL SHOUSE
Manager, Cannery Manufacturing
TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 *(Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years)*

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE

AREA CODE	NUMBER	YEAR	MO	DA
684	644-4231	94	08	25

COMMENT AND EXPLANATION OF ANY VIOLATIONS *(Reference all attachments here)*

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME STAR KIST SAMOA, INC.

ADDRESS P.O. Box 368
PAGO PAGO, AMERICAN SAMOA 96799

FACILITY

LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

(2-16) AS 0000019 PERMIT NUMBER

(17-19) 001 DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	94	07	01	TO	94	07	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

Form Approved
OMB No. 2040-
Expires 3-31-8

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SA
CADMIUM	SAMPLE MEASUREMENT	<0.02		mg/1							
	PERMIT REQUIREMENT										
CHROMIUM	SAMPLE MEASUREMENT	<0.05		mg/1							
	PERMIT REQUIREMENT										
LEAD	SAMPLE MEASUREMENT	<0.1		mg/1							
	PERMIT REQUIREMENT										
MERCURY	SAMPLE MEASUREMENT	<0.0020		mg/1							
	PERMIT REQUIREMENT										
ZINC	SAMPLE MEASUREMENT	0.16		mg/1							
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

VIRGIL SHOUSE
Manager, Cannery Manufacturing
TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. *(Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years.)*

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE 684 | NUMBER 644-4231

DATE: YEAR 94 | MO 08 | 25

COMMENT AND EXPLANATION OF ANY VIOLATIONS *(Reference all attachments here)*

Norm's copy to V.

StarKist Samoa, Inc.

An Affiliate of StarKist Seafood Company

P. O. Box 368
Pago Pago, Tutuila Island 96
American Samoa 96799
Telephone: 684-644-4251
Facsimile: 684-644-2440

Heinz

May 25, 1994

Mr. Norman Lovelace
OPINAP (E-4)
U.S. EPA Region 9
75 Hawthorne Street
San Francisco, CA 94105

Mr. Togipa Tausaga
ASEPA
Office of the Governor
American Samoa Government
Pago Pago, American Samoa 96799

Gentlemen:

Re: Discharge Monitoring Report for the Months of February, March April, 1994 under NPDES No. 0000019 as issued to Starkist Samoa, Inc.

Please find attached StarKist Samoa's Discharge Monitoring Report covering the months of February, March, and April, 1994. StarKist Samoa met all effluent limits.

Sincerely,

VIRGIL SHOUSE
Manager, Cannery Manufacturing

VS\ht:npdes\samoa

Attachments

cc: Ms. Sheila Wiegman
Mr. Norman Wei
Mr. Barry Mills
Ms. Pat Young

NAME StarKist Samoa Inc.
ADDRESS P.O.Box 368
Pago Pago, American Samoa
96799
FACILITY
LOCATION

DISCHARGE MONITORING REPORT (DMR)

(2-16) AS 0000019 PERMIT NUMBER	(17-19) 001 DISCHARGE NUMBER

OMB No. 2040-0004
Expires 3-31-88

MONITORING PERIOD

	YEAR (20-21)	MO (22-23)	DAY (24-25)		YEAR (26-27)	MO (28-29)	DAY (30-31)
FROM	94	02	01	TO	94	02	28

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
Flow	SAMPLE MEASUREMENT	0.9545	1.3032	mgd					0	continous	
	PERMIT REQUIREMENT		2.9								
BOD	SAMPLE MEASUREMENT				223	242.5	262		0	2/mo	composi
	PERMIT REQUIREMENT										
TSS	SAMPLE MEASUREMENT	528	965	lbs/day	26	55.2	97.5	mg/l	0	2/wk	compos
	PERMIT REQUIREMENT	2653	6673		N/A		N/A				
Oil & Grease	SAMPLE MEASUREMENT	196	466	lbs/day	4.2	20.7	45.8	mg/l	0	2/wk	grab
	PERMIT REQUIREMENT	675	1688		N/A		N/A				
TP	SAMPLE MEASUREMENT	37	73	lbs/day	0.7	3.9	7.8	mg/l	0	2/wk	compos
	PERMIT REQUIREMENT	192	309		N/A		N/A				
N	SAMPLE MEASUREMENT	926	1276	lbs/day	33.9	96.7	141	mg/l	0	2/wk	compos
	PERMIT REQUIREMENT	1200	2100		N/A		N/A				
Total Ammonia	SAMPLE MEASUREMENT				15.7	37.3	56.3	mg/l	0	1/wk	compos
	PERMIT REQUIREMENT				N/A	N/A					

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

VIRGIL SHOUSE
Manager, Cannery Manufacturing

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 (Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE 684 | NUMBER 644-4231

DATE: YEAR 94 | MO 05 | DAY 25

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

ility Name/Location (if different)
NAME StarKist Samoa Inc.
ADDRESS P.O. Box 368
Pago Pago, American Samoa
96799
QUALITY
LOCATION

DISCHARGE MONITORING REPORT (DMR)

OMB No. 2040-0004
Expires 3-31-88

(2-16) PERMIT NUMBER	(17-19) DISCHARGE NUMBER
AS 0000019	001

MONITORING PERIOD

	YEAR (20-21)	MO (22-23)	DAY (24-25)		YEAR (26-27)	MO (28-29)	DAY (30-31)
FROM	94	02	01	TO	94	02	28

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
Temp	SAMPLE MEASUREMENT				76	82	94	°F	0	continous	
	PERMIT REQUIREMENT					90	95				
pH	SAMPLE MEASUREMENT				6.5		7.5		0	continous	
	PERMIT REQUIREMENT				6.5		8.6				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE		DATE		
VIRGIL SHOUSE Manager, Cannery Manufacturing	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 (Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years)		684 (AREA CODE)	644-4231 (NUMBER)	94 (YEAR)	05 (MO)	25 (DAY)
TYPED OR PRINTED	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT					

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Wastewater Summary Report for the Month of February 1994

Date	Production Tons	Flow mgd	Alum #/day	Poly #/day	Max Temp F	pH Limits Lo	pH Limits Hi	Oil & Grease Eff mg/l	Oil & Grease Total #/day	TSS Eff mg/l	TSS Total #/day	TP Eff mg/l	TP Total #/day	TN Eff flr	TN Total #/day	Tot Ammonia Eff mg/l	BOD Eff mg/l
1	497.402	0.9527	756.0	23.3	86	6.5	6.9										
2	463.760	1.1647	960.0	29.0	83	7.1	7.5	13.0	126	53.0	513	3.9	38	90.4	876	38.7	
3	539.990	1.2704	1032.0	31.0	84	6.6	7.1	9.9	105	42.0	444	4.9	51	97.7	1032		
4	513.541	1.2563	1032.0	30.6	86	6.5	6.9										
5	0.000	0.3434	288.0	8.2	79	6.7	6.8										
6	0.000	0.2045	156.0	5.2	81	6.6	6.8										
7	0.000	0.9336	720.0	22.1	84	6.6	7.0	10.6	82	26.7	207	0.7	5	33.9	263		
8	512.439	1.1120	912.0	30.9	82	6.6	6.9	32.9	304	40.0	370	1.6	15	51.3	474	15.7	262.0
9	522.515	1.2240	1020.0	29.6	84	6.5	6.6	45.8	466	78.0	794	2.9	29	85.1	866		223.0
10	532.692	1.2744	1044.0	30.9	80	6.5	7.0	23.7	251	55.0	583	2.0	21	109.0	1155	48.4	
11	526.384	1.2287	1008.0	30.0	81	6.5	6.7	4.2	43	49.5	506	3.2	33	119.0	1216	56.3	
12	532.227	0.9135	708.0	21.4	80	6.5	7.0	31.8	242	70.7	537	5.4	41	113.0	858	41.1	
13	0.000	1.0886	900.0	27.4	88	6.5	7.0	34.4	311	26.0	235	1.5	14	141.0	1276	38.0	
14	557.994	1.0769	888.0	26.8	84	6.6	7.3										
15	557.052	1.1590	93.6	28.4	81	6.5	6.9	12.5	120	48.0	463	5.7	55	112.0	1079	33.3	
16	555.435	1.1810	960.0	29.0	81	6.7	7.1	27.0	265	49.5	486	5.3	52	101.0	992		
17	570.931	1.3032	1080.0	31.5	80	6.5	6.8										
18	528.070	0.8963	696.0	22.1	79	6.9	7.2										
19	0.000	0.4279	348.0	12.0	86	6.9	7.0										
20	0.000	0.3122	252.0	8.5	94	6.6	6.5										
21	0.000	0.8190	672.0	20.2	92	6.7	6.8										
22	524.936	0.9967	804.0	24.6	84	6.9	7.1										
23	549.384	1.1901	960.0	29.0	80	6.8	7.0	7.9	78	97.5	965	5.5	55	89.9	890	27.0	
24	570.420	1.1187	924.0	27.7	82	6.7	6.9	16.0	149	82.0	763	7.8	73	114.0	1061		
25	529.870	1.0928	912.0	27.4	89	6.6	6.8										
26	0.000	0.2771	228.0	7.2	81	6.7	6.9										
27	0.000	0.8166	648.0	19.8	94	6.5	6.7										
28	567.733	1.0918	900.0	27.1	92	6.7	7.0										
TOT.	10152.775	26.7261	20901.6	660.9					2543		6866		482		12039		
AVG	534.357	0.9545	746.5	23.6	84			20.7	196	55.2	528	3.9	37	96.7	926	37.3	242.5

NAME StarKist Samoa Inc.
ADDRESS P.O. Box 368
Pago Pago, American Samoa
96799
FACILITY
LOCATION

DISCHARGE MONITORING REPORT (DMR)

OMB No. 2040-0004
Expires 3-31-88

(2-16) PERMIT NUMBER	(17-19) DISCHARGE NUMBER
AS 0000019	001

MONITORING PERIOD

	YEAR (20-21)	MO (22-23)	DAY (24-25)		YEAR (26-27)	MO (28-29)	DAY (30-31)
FROM	94	03	01	TO	94	03	31

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(5 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
Flow	SAMPLE MEASUREMENT	0.8041	1.5671	mgd					0	continous	
	PERMIT REQUIREMENT		2.9								
BOD	SAMPLE MEASUREMENT				152	252	352		0	2/mo	composi
	PERMIT REQUIREMENT										
TSS	SAMPLE MEASUREMENT	635	1368	lbs/day	30	63.9	115.5	mg/l	0	2/wk	compos
	PERMIT REQUIREMENT	2653	6673		N/A		N/A				
Oil & Grease	SAMPLE MEASUREMENT	125	370	lbs/day	2.5	13.5	28.5	mg/l	0	2/wk	grab
	PERMIT REQUIREMENT	675	1688		N/A		N/A				
TP	SAMPLE MEASUREMENT	56	141	lbs/day	1.0	6.0	15.6	mg/l	0	2/wk	compos
	PERMIT REQUIREMENT	192	309		N/A		N/A				
N	SAMPLE MEASUREMENT	969	1538	lbs/day	33.5	100.3	145	mg/l	0	2/wk	compos
	PERMIT REQUIREMENT	1200	2100		N/A		N/A				
Total Ammonia	SAMPLE MEASUREMENT				34.9	43.4	61.6	mg/l	0	1/wk	compos
	PERMIT REQUIREMENT				N/A	N/A					

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

VIRGIL SHOUSE
Manager, Cannery Manufacturing

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 (Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE 684 | NUMBER 644-4231

DATE: YEAR 94 | MO 05 | DAY 25

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

dity Name/Location (if different)

NAME StarKist Samoa Inc.

ADDRESS P.O Box 368

Pago Pago, American Samoa

96799

FACILITY

LOCATION

DISCHARGE MONITORING REPORT (DMR)

(2-16) AS 0000019 PERMIT NUMBER

(17-19) 001 DISCHARGE NUMBER

OMB No. 2040-0004
Expires 3-31-86

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	94	03	01	TO	94	03	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
Temp	SAMPLE MEASUREMENT				77	85	92	°F	0	continous	
	PERMIT REQUIREMENT					90	95				
pH	SAMPLE MEASUREMENT				6.5		7.2		0	continous	
	PERMIT REQUIREMENT				6.5		8.6				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE			DATE		
VIRGIL SHOUSE Manager, Cannery Manufacturing	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 (Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years)		684	644-4231	94	05	25
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Wastewater Summary Report for the Month of March 1994

Date	Production Tons	Flow mgd	Alum #/day	Poly #/day	Max Temp F	pH Limits Lo	pH Limits Hi	Oil & Grease Eff mg/l	Oil & Grease Total #/day	TSS Eff mg/l	TSS Total #/day	TP Eff mg/l	TP Total #/day	TN Eff mg/l	TN Total #/day	Tot Ammonia Eff mg/l	BOD Eff mg/l
1		1.0877	888.0	26.8	86	6.8	7.0	2.5	23	79.5	719	15.6	141	142.0	1284	34.9	
2	568.742	1.2135	1008.0	29.3	84	6.9	7.0	5.6	57	62.5	631	8.4	85	135.0	1362		
3	594.422	1.1629	960.0	28.4	85	6.8	7.1										
4	528.605	1.1752	972.0	29.0	84	6.7	7.2										
5	0.000	0.2755	216.0	6.3	92	6.7	6.8										
6	0.000	0.6914	552.0	17.3	84	6.6	6.8										
7	520.537	1.1871	984.0	28.4	87	6.6	6.8										
8	513.553	1.1037	912.0	26.5	84	6.6	7.0										
9	550.587	1.1402	936.0	27.4	83	6.8	6.9	3.3	31	46.5	441	4.7	45	117.0	1109	37.1	152
10	570.674	1.0619	864.0	25.5	85	6.7	6.8	28.5	252	78.0	689	7.2	64	145.0	1280		
11	0.000	1.0853	876.0	25.8	90	6.7	6.9										
12	0.000	0.2425	192.0	6.3	88	6.6	6.7										
13	0.000	0.1379	108.0	3.5	84	6.7	6.8										
14	0.000	0.2493	204.0	6.0	82	6.8	7.0										
15	0.000	0.1817	144.0	4.4	86	6.9	7.0										
16	0.000	0.3139	240.0	7.6	80	6.9	7.1										
17	0.000	0.1900	150.0	4.7	81	6.8	6.9										
18	0.000	0.2850	228.0	6.9	83	6.9	7.0										
19	0.000	0.1241	96.0	3.2	79	7.0	7.1										
20	0.000	0.2770	216.0	6.6	82	7.0	7.2										
21	0.000	0.9438	756.0	23.6	84	6.9	7.1										
22	500.465	1.2335	1020.0	30.9	86	7.0	7.1	13.8	142	47.0	482	1.9	20	88.5	908	35.6	
23	463.250	1.3302	1092.0	32.0	85	6.9	7.0	10.3	114	45.0	498	4.9	54	85.3	944		
24	512.287	1.2521	1044.0	31.2	84	6.5	6.8	10.0	104	102.5	1067	4.3	44	91.3	951	41.3	
25	458.613	1.0405	852.0	26.3	86	6.5	6.8	20.2	175	71.5	619	6.3	54	85.1	736		
26	0.000	0.4337	312.0	11.0	92	6.8	6.7	21.5	78	30.0	108	7.4	27	88.1	318	61.6	
27	0.000	0.8956	696.0	22.1	89	6.5	6.6	18.2	136	43.0	320	1.0	8	33.5	250		
28	573.537	1.5671	1284.0	38.4	84	6.5	6.6	28.4	370	73.5	958	5.2	68	118.0	1538		352
29	557.933	1.4241	1200.0	34.7	83	6.8	6.9	8.1	96	115.5	1368	5.1	60	88.7	1050	49.7	
30	470.202	1.2012	1020.0	28.4	84	6.8	7.0	4.9	49	36.0	360	6.0	59	86.9	868		
31	0.000	0.4192	336.0	11.3	86	6.9	7.0										
TOT.	7383.407	24.9268	20358.0	609.8					1627		8260		729		12598		
AVG	492.227	0.8041	656.7	19.7	85			13.5	125	63.9	635	6.0	56	100.3	969	43.4	252

Wastewater Summary Report for the Month of April 1994

Date	Production Tons	Flow mgd	Alum #/day	Poly #/day	Max Temp F	pH Limits Lo	pH Limits Hi	Oil & Grease Eff mg/l	Oil & Grease Total #/day	TSS Eff mg/l	TSS Total #/day	TP Eff mg/l	TP Total #/day	TN Eff mg/l	TN Total #/day	Tot Ammonia Eff mg/l	BOD Eff mg/l
1	0.000	0.1500	108.0	3.5	80	7.0	7.1										
2	0.000	0.2280	168.0	5.0	81	6.9	7.2										
3	0.000	0.4920	360.0	12.6	80	7.0	7.3										
4	0.000	0.6700	504.0	15.8	79	7.1	7.2										
5	0.000	0.2080	156.0	4.7	82	7.1	7.3										
6	0.000	0.0906	72.0	2.5	81	6.8	7.1										
7	0.000	0.4393	336.0	10.1	82	7.0	7.2										
8	0.000	0.3300	252.0	8.2	84	6.9	7.1										
9	0.000	0.1028	72.0	2.5	84	6.8	6.9										
10	0.000	0.9820	792.0	24.6	85	6.5	6.6										
11	486.912	1.0755	876.0	26.5	86	6.5	6.6	14.0	125	35.5	318	1.9	17	58.0	519	15.2	
12	458.480	1.1180	924.0	27.1	82	6.5	6.9	6.4	60	79.0	734	3.8	35	77.9	724		
13	427.594	1.2068	1008.0	29.9	83	6.7	7.3										
14	487.073	1.2166	1020.0	30.6	84	6.7	7.0										
15	471.601	1.0583	864.0	26.2	88	6.9	7.0										
16	0.000	0.6184	504.0	17.3	84	6.7	6.9										
17	0.000	0.6304	516.0	17.0	86	6.8	6.9										
18	0.000	0.3477	264.0	7.6	87	6.7	7.0										
19	0.000	0.9626	780.0	23.6	83	6.6	6.9	7.3	58	48.7	390	0.9	7	20.6	165	11.9	
20	441.477	1.2471	1044.0	30.2	88	6.8	7.1	3.7	38	42.0	436	2.9	30	54.5	565	18.8	
21	428.481	1.0097	840.0	25.2	85	7.0	7.2	5.7	48	44.0	369	4.1	34	77.2	648		
22	379.632	0.9952	816.0	24.9	88	6.9	7.1	7.1	59	42.5	352	5.3	44	63.6	526	21.9	
23	0.000	0.3101	240.0	7.9	94	6.9	7.3	6.1	16	34.0	88	8.7	22	66.8	172		
24	0.000	0.9310	780.0	23.3	82	6.9	7.0	7.6	59	24.5	190	0.5	4	20.4	158		
25	446.141	1.0507	852.0	25.5	88	6.8	7.1	9.3	81	37.5	328	2.2	19	77.6	678	51.1	
26	451.947	1.3314	1080.0	30.9	86	6.9	7.1	9.9	110	38.0	421	5.4	59	77.9	863	50.7	351
27	473.174	1.3278	1092.0	32.0	86	6.7	6.8	6.8	75	49.5	547	5.8	64	82.0	905		328
28	440.581	1.3517	1116.0	33.1	87	6.7	6.9										
29	387.989	1.0561	864.0	26.1	87	6.7	7.1										
30	0.000	0.2357	192.0	6.3	82	6.7	7.0										
TOT.	5781.082	22.7735	18492.0	560.7					729		4173.0		335		5924		
AVG	444.699	0.7591	616.4	18.7	84			7.6	66	43.2	379	3.8	30	61.5	539	28.3	339.5

NAME StarKist Samoa Inc.
ADDRESS P.O.Box 368
Pago Pago, American Samoa
96799
FACILITY
LOCATION

DISCHARGE MONITORING REPORT (DMR)

OMB No. 2040-0004
Expires 3-31-88

(2-16) PERMIT NUMBER	(17-19) DISCHARGE NUMBER
AS 0000019	001

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	94	04	01	TO	94	04	30
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
Flow	SAMPLE MEASUREMENT	0.7591	1.3517	mgd					0	continous	
	PERMIT REQUIREMENT		2.9								
BOD	SAMPLE MEASUREMENT				328	339.5	351		0	2/mo	composi
	PERMIT REQUIREMENT										
TSS	SAMPLE MEASUREMENT	379	734	lbs/day	24.5	43.2	79	mg/l	0	2/wk	compos
	PERMIT REQUIREMENT	2653	6673		N/A		N/A				
Oil & Grease	SAMPLE MEASUREMENT	66	125	lbs/day	3.7	7.6	14	mg/l	0	2/wk	grab
	PERMIT REQUIREMENT	675	1688		N/A		N/A				
TP	SAMPLE MEASUREMENT	30	64	lbs/day	0.5	3.8	8.7	mg/l	0	2/wk	compos
	PERMIT REQUIREMENT	192	309		N/A		N/A				
TN	SAMPLE MEASUREMENT	539	905	lbs/day	20.4	61.5	82	mg/l	0	2/wk	compos
	PERMIT REQUIREMENT	1200	2100		N/A		N/A				
Total Ammonia	SAMPLE MEASUREMENT				11.9	28.3	51.1	mg/l	0	1/wk	compos
	PERMIT REQUIREMENT				N/A	N/A					

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

VIRGIL SHOUSE
Manager, Cannery Manufacturing

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 (Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE		DATE		
684	644-4231	94	05	25
AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

ility Name/Location (if different)

ME StarKist Samoa Inc.

DRESS P.O.Box 368
Pago Pago, American Samoa
96799

UNTY

CATION

DISCHARGE MONITORING REPORT (DMR)

OMB No. 2040-0004
Expires 3-31-86

(2-16) PERMIT NUMBER	(17-19) DISCHARGE NUMBER
AS 0000019	001

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	94	04	01	TO	94	04	30
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
Temp	SAMPLE MEASUREMENT				77	84	94	°F	0	continous	
	PERMIT REQUIREMENT					90	95				
pH	SAMPLE MEASUREMENT				6.5		7.3		0	continous	
	PERMIT REQUIREMENT				6.5		8.6				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

VIRGIL SHOUSE
Manager, Cannery Manufacturing

TYPED OR PRINTED

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SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE		DATE		
AREA CODE	NUMBER	YEAR	MO	DAY
684	644-4231	94	05	25

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

StarKist Samoa, Inc.

February 24, 1994

Mr. Norman Lovelace
OPINAP (E-4)
U.S. EPA Region 9
75 Hawthorne Street
San Francisco, CA 94105

Mr. Togipa Tausaga
ASEPA
Office of the Governor
American Samoa Government
Pago Pago, American Samoa 96799

Gentlemen:

Re: Discharge Monitoring Report for the Months of November, December, 1993 and January 1994 under NPDES No. 0000019 as issued to Starkist Samoa, Inc.

Please find attached StarKist Samoa's Discharge Monitoring Report covering the months of November, December, 1993 and January 1994. StarKist Samoa met all effluent limits.

Sincerely,

VIRGIL SHOUSE
Manager, Cannery Manufacturing

VS\ht:npdes\samoa

Attachments

cc: Ms. Sheila Wiegman
Mr. Norman Wei
Mr. Barry Mills
Ms. Pat Young

NAME StarKist Samoa Inc.
ADDRESS P.O. Box 368
Pago Pago, American Samoa
96799
FACILITY
LOCATION

DISCHARGE MONITORING REPORT (DMR)

(2-16) AS 0000019 PERMIT NUMBER	(17-19) 001 DISCHARGE NUMBER

OMB No. 2040-0004
Expires 3-31-88

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	93	11	01	TO	93	11	30
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
Flow	SAMPLE MEASUREMENT	0.8934	1.4553	mgd					0	continous	
	PERMIT REQUIREMENT		2.9								
BOD	SAMPLE MEASUREMENT				199	222.5	246		0	2/mo	composi
	PERMIT REQUIREMENT										
TSS	SAMPLE MEASUREMENT	563	898	lbs/day	37.3	64.9	185.5	mg/l	0	2/wk	compos
	PERMIT REQUIREMENT	2653	6673		N/A		N/A				
Oil & Grease	SAMPLE MEASUREMENT	199	418	lbs/day	9.8	19.1	37.6	mg/l	0	2/wk	grab
	PERMIT REQUIREMENT	675	1688		N/A		N/A				
TP	SAMPLE MEASUREMENT	35	62	lbs/day	2.7	3.5	5.4	mg/l	0	2/wk	compos
	PERMIT REQUIREMENT	192	309		N/A		N/A				
N	SAMPLE MEASUREMENT	715	974	lbs/day	51.9	72.6	84.8	mg/l	0	2/wk	compos
	PERMIT REQUIREMENT	1200	2100		N/A		N/A				
Total Ammonia	SAMPLE MEASUREMENT				16.5	21.9	27.7	mg/l	0	1/wk	compos
	PERMIT REQUIREMENT				N/A	N/A					

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

VIRGIL SHOUSE
Manager, Cannery Manufacturing

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 (Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE		DATE		
AREA CODE	NUMBER	YEAR	MO	DAY
684	644-4231	94	02	24

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

ility Name/Location (if different)

ME StarKist Samoa Inc.

DRESS P.O.Box 368

Pago Pago, American Samoa

96799

UNTY

CATION

DISCHARGE MONITORING REPORT (DMR)

(2-16) PERMIT NUMBER: AS 0000019

(17-19) DISCHARGE NUMBER: 001

OMB No. 2040-0004
Expires 3-31-88

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	93	11	01	TO	93	11	30
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
Temp	SAMPLE MEASUREMENT				72	78	86	°F	0	continous	
	PERMIT REQUIREMENT					90	95				
pH	SAMPLE MEASUREMENT				6.5		7.5		0	continous	
	PERMIT REQUIREMENT				6.5		8.6				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
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	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

VIRGIL SHOUSE
Manager, Cannery Manufacturing

TYPED OR PRINTED

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SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE 684 NUMBER 644-4231

DATE: YEAR 94 MO 02 DAY 24

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Wastewater Summary Report for the Month of November 1993

Date	Production Tons	Flow mgd	Alum #/day	Poly #/day	Max Temp F	pH Limits Lo	pH Limits Hi	Oil & Grease Eff mg/l	Oil & Grease Total #/day	TSS Eff mg/l	TSS Total #/day	TP Eff mg/l	TP Total #/day	TN Eff mg/l	TN Total #/day	Tot Ammonia Eff mg/l	BOD Eff mg/l
1	0.000	1.0295	840.0	23.9	82	7.3	7.5										
2	496.479	1.0584	864.0	25.2	82	7.2	7.3										
3	498.718	1.3828	1140.0	34.0	80	6.7	7.0	30.4	350	39.0	448	5.4	62	81.6	938	21.6	
4	515.442	1.2320	1020.0	30.9	78	6.9	7.2	16.8	172	40.7	417	2.7	27	61.3	628		
5	488.761	0.7899	636.0	20.5	79	6.8	7.0										
6	0.000	1.2048	996.0	29.9	83	6.8	6.9										
7	0.000	1.2210	1008.0	30.9	84	7.0	7.1										
8	505.580	1.2897	1068.0	32.8	82	6.9	7.2										
9	502.260	1.4553	1200.0	36.5	80	6.9	7.1										
10	541.623	1.3383	1116.0	34.6	82	6.9	7.2	37.6	418	37.5	417	3.9	43	54.9	611	21.9	
11	509.428	1.2427	1044.0	31.5	86	6.9	7.3	27.5	284	46.7	482	3.4	35	65.9	681		
12	469.354	1.2325	1020.0	30.9	84	6.5	7.2										
13	0.000	0.6231	480.0	15.8	87	6.6	6.8										
14	0.000	0.8195	660.0	20.5	82	6.6	6.8										
15	478.594	1.0385	864.0	26.8	80	6.6	6.9	8.5	73	37.3	322	2.7	23	51.9	448	16.5	
16	521.395	1.3805	1128.0	33.1	82	6.6	7.3	18.6	214	62.7	720	3.5	40	84.8	974		
17	537.719	1.3840	1152.0	36.5	78	6.5	6.7	17.7	204	78.0	898	3.0	35	83.2	958		
18	519.843	1.3843	1164.0	37.2	82	6.5	6.9	11.7	135	65.0	748	3.9	44	81.9	943	27.7	246
19	501.411	1.0051	840.0	26.8	78	6.7	6.9	12.5	104	56.5	472	3.5	29	79.1	661		199
20	0.000	0.4574	372.0	12.6	76	6.9	7.0	9.8	37	185.5	706	3.7	14	81.6	310		
21	0.000	0.1031	84.0	2.8	79	7.0	7.2										
22	0.000	0.0962	72.0	2.5	78	7.3	7.4										
23	0.000	0.2190	168.0	5.7	76	6.9	7.0										
24	0.000	0.1001	78.0	2.5	86	7.0	7.1										
25	0.000	0.1376	108.0	3.2	80	6.8	6.9										
26	0.000	0.1650	126.0	4.1	85	6.8	6.9										
27	0.000	0.2887	228.0	6.9	79	6.7	6.8										
28	0.000	0.7913	648.0	18.9	79	7.2	7.3										
29	502.243	1.1503	912.0	26.8	83	7.1	7.3										
30	472.588	1.1806	948.0	28.4	83	6.8	7.0										
TOT.	8061.438	26.8012	21984.0	672.7					1991		5631		352		7152		
AVG	503.840	0.8934	732.8	22.4	81			19.1	199	64.9	563	3.5	35	72.6	715	21.9	222.5

NAME StarKist Samoa Inc.
ADDRESS P.O.Box 368
Pago Pago, American Samoa
96799
FACILITY
LOCATION

DISCHARGE MONITORING REPORT (DMR)

(2-16)	(17-19)
AS 0000019	001
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	93	12	01	TO	93	12	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

OMB No. 2040-0004
Expires 3-31-88

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(5 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
Flow	SAMPLE MEASUREMENT	0.8012	1.4068	mgd					0	continous	
	PERMIT REQUIREMENT		2.9								
OD	SAMPLE MEASUREMENT				465.3	468.3	471.2		0	2/mo	composi
	PERMIT REQUIREMENT										
TSS	SAMPLE MEASUREMENT	640	1714	lbs/day	33	70.4	154	mg/l	0	2/wk	compos
	PERMIT REQUIREMENT	2653	6673		N/A		N/A				
Oil & Grease	SAMPLE MEASUREMENT	103	376	lbs/day	2.7	12	33.5	mg/l	0	2/wk	grab
	PERMIT REQUIREMENT	675	1688		N/A		N/A				
TP	SAMPLE MEASUREMENT	28	44	lbs/day	0.8	3.2	4.9	mg/l	0	2/wk	compos
	PERMIT REQUIREMENT	192	309		N/A		N/A				
N	SAMPLE MEASUREMENT	725	1163	lbs/day	29.1	78.4	120	mg/l	0	2/wk	compos
	PERMIT REQUIREMENT	1200	2100		N/A		N/A				
Total Ammonia	SAMPLE MEASUREMENT				14.8	27.8	47.2	mg/l	0	1/wk	compos
	PERMIT REQUIREMENT				N/A	N/A					

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

VIRGIL SHOUSE
Manager, Cannery Manufacturing

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 (Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE 684 | NUMBER 644-4231

DATE: YEAR 94 | MO 02 | DAY 24

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

ility Name/Location (if different)
ME StarKist Samoa Inc.
DRESS P.O. Box 368
Pago Pago, American Samoa
96799
CILITY
CATION

DISCHARGE MONITORING REPORT (DMR)

OMB No. 2040-0004
Expires 3-31-88

(2-16)	(17-19)
AS 0000019	001
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

FROM YEAR	MO	DAY	TO YEAR	MO	DAY
93	12	01	93	12	31
(20-21)	(22-23)	(24-25)	(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
Temp	SAMPLE MEASUREMENT				74	80	88	°F	0	continous	
	PERMIT REQUIREMENT					90	95				
pH	SAMPLE MEASUREMENT				6.6		7.5		0	continous	
	PERMIT REQUIREMENT				6.5		8.6				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE		DATE		
VIRGIL SHOUSE Manager, Cannery Manufacturing	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 (Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years)	Virgil W Shouse Jr SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	684	644-4231	94	02	24
TYPED OR PRINTED		AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Wastewater Summary Report for the Month of December 1993

Date	Production Tons	Flow mgd	Alum #/day	Poly #/day	Max Temp F	pH Limits Lo	pH Limits Hi	Oil & Grease Eff mg/l	Oil & Grease Total #/day	TSS Eff mg/l	TSS Total #/day	TP Eff mg/l	TP Total #/day	TN Eff mg/l	TN Total #/day	Tot Ammonia Eff mg/l	BOD Eff mg/l
1	521.994	1.3930	1140.0	33.4	80	6.6	6.8	32.5	376	148.0	1714	2.9	33	93.4	1082	47.2	471.2
2	505.314	1.0410	864.0	26.8	80	6.8	7.2	9.8	85	154.0	1333	4.6	40	85.5	740	27.3	
3	393.428	0.9239	708.0	20.5	84	7.0	7.1										
4	0.000	0.4640	360.0	12.6	88	7.1	7.2										
5	0.000	0.6535	504.0	15.8	84	7.1	7.3	17.1	93	47.0	255	0.8	4	29.1	158	22.8	
6	457.263	1.1600	960.0	28.4	79	7.0	7.2	2.7	26	43.5	420	2.6	25	77.2	745	25.6	
7	363.987	1.2140	1020.0	29.9	82	6.8	7.0	6.5	66	65.0	656	2.0	20	43.7	441		
8	350.512	1.2831	1032.0	30.2	83	7.1	7.5	7.8	83	33.5	357	3.2	35	68.5	731		
9	351.850	1.1575	948.0	28.0	80	7.3	7.5	5.5	53	68.7	661	2.6	25	80.9	779	36.4	465.3
10	360.115	1.0260	840.0	25.8	79	7.0	7.4	33.5	286	64.7	552	2.5	21	72.7	620		
11	0.000	0.3012	240.0	7.6	88	7.1	7.4	17.1	43	78.0	195	4.9	12	69.7	175		
12	0.000	0.9163	720.0	21.4	74	7.0	7.3										
13	492.468	1.3157	1080.0	31.5	80	7.3	7.4										
14	503.614	1.1651	984.0	29.0	76	7.2	7.5	7.2	70	77.0	746	4.4	43	120.0	1163	14.8	
15	498.440	1.4068	1152.0	32.8	77	7.0	7.3	4.1	48	53.0	620	3.8	44	85.7	1003	19.5	
16	499.919	1.3285	1104.0	32.1	78	7.0	7.2										
17	471.866	0.9613	756.0	22.0	82	7.1	7.3										
18	0.000	0.4677	384.0	12.0	88	6.9	7.2										
19	0.000	0.8408	672.0	20.5	80	6.7	6.9										
20	505.902	1.3802	1128.0	32.8	82	6.7	7.0										
21	520.608	1.3237	1080.0	32.1	80	6.9	7.3	5.1	56	50.0	550	3.3	37	91.9	1012	24.3	
22	499.799	0.9248	732.0	22.4	88	7.0	7.2	6.8	52	33.0	254	3.9	30	101.0	777	32.4	
23	0.000	0.4255	336.0	10.7	75	6.7	6.9										
24	0.000	0.4041	324.0	10.4	82	6.9	7.2										
25	0.000	0.1689	132.0	4.1	78	6.7	6.9										
26	0.000	0.2301	180.0	5.7	79	6.8	7.1										
27	0.000	0.2143	156.0	6.3	78	6.7	6.8										
28	0.000	0.0960	72.0	2.2	78	7.0	7.1										
29	0.000	0.2449	192.0	6.9	80	6.9	7.0										
30	0.000	0.3057	240.0	8.2	81	6.8	7.0										
31	0.000	0.1000	78.0	2.5	75	6.9	7.1										
TOT.	7297.079	24.8376	20118.0	604.6					1337		8313		369		9424		
AVG	456.067	0.8012	649.0	19.5	81			12.0	103	70.4	639	3.2	28	78.4	725	27.8	

NAME StarKist Samoa Inc.
ADDRESS P.O. Box 368
Pago Pago, American Samoa
96799
FACILITY
LOCATION

DISCHARGE MONITORING REPORT (DMR)

(2-16)	(17-19)
AS 0000019	001
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	94	01	01	TO	94	01	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

OMB No. 2040-0004
Expires 3-31-88

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(5 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
Flow	SAMPLE MEASUREMENT	0.9626	1.5408	mgd					0	continous	
	PERMIT REQUIREMENT		2.9								
OD	SAMPLE MEASUREMENT				464.5	561.9	659.2		0	2/mo	composi
	PERMIT REQUIREMENT										
TSS	SAMPLE MEASUREMENT	658	1929	lbs/day	27.5	64.3	163.5	mg/l	0	2/wk	compos
	PERMIT REQUIREMENT	2653	6673		N/A		N/A				
Oil & Grease	SAMPLE MEASUREMENT	137	570	lbs/day	2.7	15.2	48.3	mg/l	0	2/wk	grab
	PERMIT REQUIREMENT	675	1688		N/A		N/A				
TP	SAMPLE MEASUREMENT	35	59	lbs/day	1.1	3.5	6.6	mg/l	0	2/wk	compos
	PERMIT REQUIREMENT	192	309		N/A		N/A				
N	SAMPLE MEASUREMENT	828	1137	lbs/day	36	82.9	107	mg/l	0	2/wk	compos
	PERMIT REQUIREMENT	1200	2100		N/A		N/A				
Total Ammonia	SAMPLE MEASUREMENT				23.4	36.6	53.9	mg/l	0	1/wk	compos
	PERMIT REQUIREMENT				N/A	N/A					

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

VIRGIL SHOUSE
Manager, Cannery Manufacturing

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 (Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE

AREA CODE	NUMBER
684	644-4231

DATE

YEAR	MO	DAY
94	02	24

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

ility Name/Location (if different)

NAME StarKist Samoa Inc.

ADDRESS P.O Box 368
Pago Pago, American Samoa
96799

FACILITY

LOCATION

DISCHARGE MONITORING REPORT (DMR)

(2-16) AS 0000019 PERMIT NUMBER

(17-19) 001 DISCHARGE NUMBER

OMB No. 2040-0004
Expires 3-31-88

MONITORING PERIOD

	YEAR (20-21)	MO (22-23)	DAY (24-25)		YEAR (26-27)	MO (28-29)	DAY (30-31)
FROM	94	01	01	TO	94	01	31

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
Temp	SAMPLE MEASUREMENT				74	80	94	°F	0	continous	
	PERMIT REQUIREMENT					90	95				
pH	SAMPLE MEASUREMENT				6.5		7.4		0	continous	
	PERMIT REQUIREMENT				6.5		8.6				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

VIRGIL SHOUSE
Manager, Cannery Manufacturing

TYPED OR PRINTED

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SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE 684 | NUMBER 644-4231

DATE: YEAR 94 | MO 02 | DAY 24

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Wastewater Summary Report for the Month of January 1994

Date	Production Tons	Flow mgd	Alum #/day	Poly #/day	Max Temp F	pH Limits Lo	pH Limits Hi	Oil & Grease Eff mg/l	Oil & Grease Total #/day	TSS Eff mg/l	TSS Total #/day	TP Eff mg/l	TP Total #/day	TN Eff flr	TN Total #/day	Tot Ammonia Eff mg/l	BOD Eff mg/l
1	0.000	0.2916	216.0	6.9	84	7.0	7.1										
2	0.000	0.5708	456.0	14.2	80	7.2	7.4										
3	448.478	1.0948	912.0	27.1	82	6.9	7.3										
4	395.317	1.2826	1044.0	29.6	83	7.0	7.3	5.7	61	42.5	453	4.0	43	74.0	789	35.1	
5	445.804	1.0915	900.0	25.2	78	6.7	7.0										
6	463.325	1.2403	1032.0	29.6	80	6.8	7.3										
7	452.451	0.8356	672.0	20.2	80	7.1	7.3										
8	0.000	0.3846	300.0	9.5	83	6.9	7.1										
9	0.000	0.5559	444.0	14.5	78	6.5	6.9										
10	494.741	1.1040	936.0	27.1	80	6.5	7.0										
11	517.251	1.2193	1020.0	30.2	80	7.0	7.1	5.1	52	70.0	710	2.1	21	92.5	938		
12	520.841	1.5408	1272.0	36.2	80	6.5	6.7	3.4	44	52.0	666	4.0	51	88.7	1137		464.5
13	530.541	1.4184	1176.0	36.0	82	6.5	6.8	48.3	570	163.5	1929	2.4	28	72.4	854	36.8	
14	509.107	1.1373	948.0	28.4	86	6.8	7.1										
15	0.000	0.3969	288.0	9.5	86	6.9	7.0										
16	0.000	0.8724	660.0	20.5	85	7.0	7.2	20.7	150	46.0	334	1.1	8	36.0	261		
17	513.120	1.0921	900.0	27.1	86	6.6	7.1	6.5	59	31.5	286	2.7	24	107.0	972	53.9	
18	503.453	1.2572	1032.0	29.9	80	6.9	7.0	6.4	67	141.5	1479	3.6	37	80.3	840		
19	525.626	1.1220	924.0	28.0	80	6.7	7.0	2.7	25	68.5	639	5.2	48	95.3	889	37.6	
20	561.305	1.2408	1020.0	30.2	80	6.7	7.1	15.6	161	40.0	413	5.5	56	90.9	938	36.8	
21	519.675	1.0605	888.0	26.8	80	6.9	7.1	31.2	275	69.0	609	6.6	59	97.6	861	32.4	
22	0.000	0.4194	324.0	10.4	94	6.7	6.9	34.0	119	27.5	96	1.9	7	57.5	201		
23	0.000	0.8618	660.0	21.1	90	6.8	7.0										
24	522.591	1.4576	1188.0	35.3	86	7.0	7.3	7.3	88	40.0	485	3.6	43	79.5	964	23.4	
25	546.665	1.2701	1032.0	30.9	81	7.0	7.2	10.5	111	43.5	459	3.1	33	106.0	1120		659.2
26	572.917	1.3514	1104.0	33.1	81	6.6	6.7										
27	570.127	1.2951	1044.0	30.9	80	6.9	7.1										
28	485.213	1.0585	876.0	26.8	80	7.0	7.2										
29	0.000	0.1072	84.0	2.5	86	6.9	7.1										
30	0.000	0.3830	276.0	9.1	85	6.7	6.9										
31	0.000	0.8280	648.0	20.5	84	6.6	6.8										
TOT.	10098.548	29.8415	24276.0	727.3					1781		8558		458		10764		
AVG	504.927	0.9626	783.1	23.5	83			15.2	137	64.3	658	3.5	35	82.9	828	36.6	561.9

StarKist Samoa, Inc.

An Affiliate of StarKist Seafood Company

P. O. Box 368
Pago Pago, Tutuila
American Samoa 96799
Telephone: 684-644-4251
Facsimile: 684-644-2440

Copy to Robyn Vijay/Mike Lee

Note metals analyses attached.

November 24, 1993

Mr. Norman Lovelace
OPINAP (E-4)
U.S. EPA Region 9
75 Hawthorne Street
San Francisco, CA 94105

Mr. Togipa Tausaga
ASEPA
Office of the Governor
American Samoa Government
Pago Pago, American Samoa 96799

Gentlemen:

Re: ***Discharge Monitoring Report for the Months of August, September and October 1993 under NPDES No. 0000019 as issued to Starkist Samoa, Inc.***

Attached is StarKist Samoa's Discharge Monitoring Reports covering the months of August, September and October of 1993.

StarKist Samoa met all effluent limitations except for the monthly Total Nitrogen (TN) averages in August and September and daily maximum for TN on August 24th and October 14th.

As stated by Norman Wei of our Corporate Office to Pat Young last week, the probable cause of the higher TN loadings is the new fish evisceration process initiated by the plant in August of this year in response to new FDA requirements. This process resulted in a higher than normal amount of soluble nitrogen entering the wastewater treatment system.

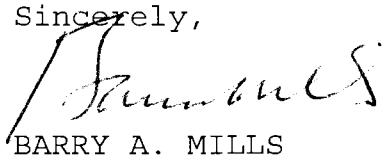
Upon receiving the August TN effluent data from our commercial laboratory in October, the chemical dosage to the plant was increased to about 95 mg/l. As you know, StarKist Samoa sends its Total Nitrogen and Total Phosphorus samples out to Hawaii to

ensure accurate analyses and reporting for the Discharge Monitoring Report. The turnaround time is often in excess of 5 weeks. We are now analyzing our effluent for TKN (as an indicator of TN) on a daily basis to provide better internal monitoring and control of the plant operation. This would enable us to take corrective action in a timely manner in the event of high nitrogen loadings from the plant.

Plans are currently under consideration to provide our in-house laboratory with the capability to perform Total Nitrogen and Total Phosphorus analyses for the purpose of the Discharge Monitoring Report.

With respect to the September TN violation, please note that our facility was out of production for 18 days during the month. Two of these days had zero discharge. Had we known about the high TN results earlier, we would have sampled on these non-production days and brought the monthly average value down to below the limit as allowed under our discharge permit.

Sincerely,



BARRY A. MILLS
Operations Manager

BM\ht:npdes\samoa

Attachments

cc: Ms. Sheila Wiegman
Mr. Ralph Ward
Mr. Norman Wei
Mr. Maurice Callaghan
Mr. Virgil Shouse

Facility Name/Location if different)

NAME StarKist Samoa Inc.

ADDRESS P.O.Box 368
Pago Pago, American Samoa
96799

FACILITY

LOCATION

DISCHARGE MONITORING REPORT (DMR)

OMB No. 2040-0004
Expires 3-31-88

PERMIT NUMBER (2-16)	DISCHARGE NUMBER (17-19)
AS 0000019	001

MONITORING PERIOD

	YEAR (20-21)	MO (22-23)	DAY (24-25)		YEAR (26-27)	MO (28-29)	DAY (30-31)
FROM	93	08	01	TO	93	08	31

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
Flow	SAMPLE MEASUREMENT	1.1400	1.6468	mgd					0	continous	
	PERMIT REQUIREMENT		2.9								
BOD	SAMPLE MEASUREMENT				395	487.5	580	mg/l	0	2/mo	composit
	PERMIT REQUIREMENT										
TSS	SAMPLE MEASUREMENT	885	1632	lbs/day	43	74.9	144	mg/l	0	2/wk	composit
	PERMIT REQUIREMENT	2653	6673		N/A		N/A				
Oil & Grease	SAMPLE MEASUREMENT	192	360	lbs/day	6.2	16.2	31	mg/l	0	2/wk	grab
	PERMIT REQUIREMENT	675	1688		N/A		N/A				
TP	SAMPLE MEASUREMENT	57	76	lbs/day	3.2	4.8	6.2	mg/l	0	2/wk	composit
	PERMIT REQUIREMENT	192	309		N/A		N/A				
TN	SAMPLE MEASUREMENT	1536	2119	lbs/day	97.8	127.4	154.7	mg/l	2	2/wk	composit
	PERMIT REQUIREMENT	1200	2100		N/A		N/A				
Total Ammonia	SAMPLE MEASUREMENT				24.8	28.5	34.2	mg/l	0	1/wk	composit
	PERMIT REQUIREMENT				N/A	N/A					

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE		DATE		
Barry A. Mills Operations Manager	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 (Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years)	11/23/93 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	684 AREA CODE	644-4231 NUMBER	93 YEAR	11 MO	23 DAY
TYPED OR PRINTED						

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Facility Name/Location if different)

NAME StarKist Samoa Inc.

ADDRESS P.O.Box 368
Pago Pago, American Samoa
96799

FACILITY

LOCATION

DISCHARGE MONITORING REPORT (DMR)

OMB No. 2040-0004
Expires 3-31-88

PERMIT NUMBER (2-16)	DISCHARGE NUMBER (17-19)
AS 0000019	001

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	93 (20-21)	08 (22-23)	01 (24-25)	TO	93 (26-27)	08 (28-29)	31 (30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
Temp	SAMPLE MEASUREMENT				75	85	92	°F	0	continous	
	PERMIT REQUIREMENT					90	95				
pH	SAMPLE MEASUREMENT				6.5		7.6		0	continous	
	PERMIT REQUIREMENT				6.5		8.6				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

Barry A. Mills
Operations Manager

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 *(Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years)*

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE 684 NUMBER 644-4231

DATE: YEAR 93 MO 11 DAY 23

COMMENT AND EXPLANATION OF ANY VIOLATIONS *(Reference all attachments here)*

Wastewater Summary Report for the Month of August 1993

Date	Production Tons	Flow mgd	Alum #/day	Poly #/day	Max Temp F	pH Limits Lo	pH Limits Hi	Oil & Grease Eff mg/l	Oil & Grease Total #/day	TSS Eff mg/l	TSS Total #/day	TP Eff mg/l	TP Total #/day	TN Eff mg/l	TN Total #/day	Tot Ammonia Eff mg/l	BOD Eff mg/l
1	0.000	0.8393	588.0	17.6	84	7.4	7.1										
2	500.460	1.1344	828.0	23.6	87	7.2	7.4										
3	517.311	1.3818	960.0	27.1	85	6.7	7.1	14.2	163	57.0	655	4.8	56	115.0	1321	25.6	
4	519.742	1.2005	864.0	24.6	88	6.7	7.1	18.0	180	84.5	844	4.9	49	109.0	1088		
5	516.240	1.3225	948.0	27.1	87	6.8	7.2										
6	493.655	0.9846	672.0	19.5	90	6.9	7.1										
7	0.000	0.4753	336.0	11.0	89	6.9	7.1										
8	0.000	0.8090	576.0	17.0	86	6.9	7.3										
9	510.011	1.1639	816.0	23.3	90	6.9	7.4										
10	509.678	1.3999	984.0	27.7	83	7.2	7.5	31.0	360	94.0	1094	6.1	71	142.0	1653		
11	535.023	1.3625	960.0	27.4	84	6.9	7.5	14.0	158	144.0	1632	6.2	70	140.0	1586	24.8	
12	545.587	1.3051	948.0	26.8	84	7.2	7.5										
13	459.007	0.9171	660.0	18.9	88	7.1	7.5										
14	0.000	0.5082	360.0	11.3	90	7.1	7.5										
15	0.000	0.9082	648.0	19.5	86	6.6	7.3										
16	508.597	1.2912	936.0	26.8	82	7.1	7.4										
17	451.825	1.5251	1128.0	31.5	85	7.2	7.5										
18	530.221	1.5948	1152.0	32.1	85	7.3	7.5	6.2	82	46.5	617	5.8	76	133.8	1775		
19	540.206	1.3948	984.0	27.2	83	7.4	7.5	14.9	173	48.0	557	3.5	41	126.8	1471	29.5	
20	502.759	1.0220	780.0	22.7	84	6.5	6.6										
21	0.000	0.3306	240.0	8.2	91	6.6	6.7										
22	0.000	1.2022	912.0	25.8	90	6.5	6.7										
23	522.968	1.0181	744.0	21.4	86	6.5	6.8										
24	521.225	1.6468	1200.0	34.0	86	6.7	6.8	15.4	211	82.0	1123	4.1	56	154.7	2119	34.2	580.0
25	550.502	1.5676	1140.0	32.1	86	6.6	6.8	15.8	206	43.0	561	3.2	41	97.8	1275		395.0
26	545.953	1.3412	960.0	27.1	86	6.7	6.8										
27	512.576	1.1726	828.0	23.9	88	6.6	6.7										
28	0.000	0.4473	312.0	10.1	92	7.0	7.5										
29	0.000	1.1185	804.0	23.3	86	7.5	7.6										
30	521.258	1.4722	1080.0	30.6	88	6.6	6.8										
31	511.995	1.4826	1092.0	30.2	84	6.6	6.9										
TOT.	11326.799	35.3399	25440.0	729.4					1533		7081		460		12288		
AVG	514.855	1.1400	820.6	23.5	87			16.2	192	74.9	885	4.8	57	127.4	1536	28.5	

NAME StarKist Samoa Inc.
ADDRESS P.O. Box 368
Pago Pago, American Samoa
96799
FACILITY
LOCATION

DISCHARGE MONITORING REPORT (DMR)

OMB No. 2040-0004
Expires 3-31-88

(2-16) PERMIT NUMBER	(17-19) DISCHARGE NUMBER
AS 0000019	001

MONITORING PERIOD

	YEAR (20-21)	MO (22-23)	DAY (24-25)		YEAR (26-27)	MO (28-29)	DAY (30-31)
FROM	93	09	01	TO	93	09	30

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
Flow	SAMPLE MEASUREMENT	0. 8089	1.5425	mgd					0	continous	
	PERMIT REQUIREMENT		2.9								
BOD	SAMPLE MEASUREMENT				536	526.5	517		0	2/mo	composi
	PERMIT REQUIREMENT										
TSS	SAMPLE MEASUREMENT	996	1273	lbs/day	54	81.7	104.5	mg/l	0	2/wk	compos
	PERMIT REQUIREMENT	2653	6673		N/A		N/A				
Oil & Grease	SAMPLE MEASUREMENT	183	254	lbs/day	6.5	14.9	20.7	mg/l	0	2/wk	grab
	PERMIT REQUIREMENT	675	1688		N/A		N/A				
TP	SAMPLE MEASUREMENT	73	88	lbs/day	3.4	6.0	7.9	mg/l	0	2/wk	compos
	PERMIT REQUIREMENT	192	309		N/A		N/A				
TN	SAMPLE MEASUREMENT	1691	1908	lbs/day	118.4	139.3	159.2	mg/l	1	2/wk	compos
	PERMIT REQUIREMENT	1200	2100		N/A		N/A				
Total Ammonia	SAMPLE MEASUREMENT				24.1	25.8	26.7	mg/l	0	1/wk	compos
	PERMIT REQUIREMENT				N/A	N/A					

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE			DATE		
Barry A. Mills Operations Manager	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 (Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years)	11/24	684	644	4231	93	11	23
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Facility Name/Location if different

NAME StarKist Samoa Inc.

ADDRESS P.O.Box 368
Pago Pago, American Samoa
96799

FACILITY

LOCATION

DISCHARGE MONITORING REPORT (DMR)

OMB No. 2040-0004
Expires 3-31-88

(2-16) PERMIT NUMBER	(17-19) DISCHARGE NUMBER
AS 0000019	001

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	93	09	01	TO	93	09	30
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
Temp	SAMPLE MEASUREMENT				76	84	92	°F	0	continous	
	PERMIT REQUIREMENT					90	95				
pH	SAMPLE MEASUREMENT				6.5		7.5		0	continous	
	PERMIT REQUIREMENT				6.5		8.6				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
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	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Barry A. Mills Operations Manager	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 (Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years)	6/24	684	644 4231	93	11	23
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Wastewater Summary Report for the Month of September 1993

Date	Production Tons	Flow mgd	Alum #/day	Poly #/day	Max Temp F	pH Limits Lo	pH Limits Hi	Oil & Grease Eff mg/l	Oil & Grease Total #/day	TSS Eff mg/l	TSS Total #/day	TP Eff mg/l	TP Total #/day	TN Eff flr	TN Total #/day	Tot Ammonia Eff mg/l	BOD Eff mg/l
1	525.536	1.6136	1176.0	35.3	86	6.8	6.9	18.9	254	78.0	1047	6.0	81	118.4	1589	26.7	
2	529.403	1.5239	1116.0	32.1	85	6.7	6.8	8.3	105	54.0	684	7.0	88	129.7	1644		
3	495.588	1.1351	852.0	24.6	88	6.7	6.8										
4	0.000	0.4117	300.0	9.5	92	6.8	7.1										
5	0.000	0.1447	108.0	3.8	86	7.1	7.3										
6	0.000	0.9552	636.0	18.9	89	7.2	7.3										
7	513.505	1.3870	1020.0	28.4	91	7.2	7.5										
8	524.556	1.2978	948.0	25.8	88	6.8	7.0	6.5	70	67.5	728	7.9	85	149.6	1615	26.5	
9	506.179	1.4412	1056.0	30.0	84	6.5	6.6	20.7	248	91.3	1094	6.7	81	159.2	1908		
10	465.824	1.1471	840.0	23.9	90	6.5	6.7										
11	0.000	0.3813	276.0	8.8	90	6.5											
12	0.000	1.0070	756.0	22.0	84	6.6	6.8										
13	497.133	1.3601	1020.0	28.4	86	6.6	6.7										
14	496.230	1.4645	1080.0	30.6	86	6.5	6.7	14.6	178	104.5	1273	4.8	58	145.3	1770	24.1	536.0
15	529.650	1.4588	1068.0	29.9	83	6.6	6.7	20.1	244	95.0	1152	3.4	41	133.8	1623		517.0
16	505.340	1.5425	1152.0	32.0	84	6.7	6.9										
17	496.801	1.1072	816.0	22.7	90	6.8	6.9										
18	0.000	0.7120	504.0	15.8	91	6.8											
19	0.000	0.3006	216.0	6.3	86	6.9											
20	0.000	0.3350	228.0	6.6	84	6.9											
21	0.000	0.1723	120.0	3.2	82	6.9	7.0										
22	0.000	0.2046	144.0	4.1	88	6.9	7.0										
23	0.000	0.2075	156.0	4.7	88	6.8	6.9										
24	0.000	0.3029	216.0	6.6	84	6.9											
25	0.000	0.3371	240.0	7.2	82	6.6											
26	0.000	0.0796	60.0	2.2	82	6.7											
27	0.000	0.3031	216.0	6.0	83	6.5											
28	0.000	0.3156	228.0	6.6	84	6.8											
29	0.000	N.F.	N.F.	N.F.	N.F.	N.F.	N.F.										
30	0.000	N.F.	N.F.	N.F.	N.F.	N.F.	N.F.										
TOT.	6085.745	22.6490	16548.0	476.0					1099		5979		435		10148		
AVG	507.145	0.8089	591.0	17.0	86			14.9	183	81.7	996	6.0	73	139.3	1691	25.8	

* Hold time expired before the lab received sample.

Facility Name/Location if different)

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	YEAR	MO	DAY		YEAR	MO	DAY
FROM	93	10	01	TO	93	10	31
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Flow	SAMPLE MEASUREMENT	0.9256	1.5607	mgd					0	continous	
	PERMIT REQUIREMENT		2.9								
BOD	SAMPLE MEASUREMENT				588	582	576		0	2/mo	composit
	PERMIT REQUIREMENT										
TSS	SAMPLE MEASUREMENT	557	1064	lbs/day	37	64.1	125.5	mg/l	0	2/wk	composit
	PERMIT REQUIREMENT	2653	6673		N/A		N/A				
Oil & Grease	SAMPLE MEASUREMENT	218	468	lbs/day	7.3	26.9	55.3	mg/l	0	2/wk	grab
	PERMIT REQUIREMENT	675	1688		N/A		N/A				
TP	SAMPLE MEASUREMENT	66	153	lbs/day	1.4	7.2	17	mg/l	0	2/wk	composit
	PERMIT REQUIREMENT	192	309		N/A		N/A				
TN	SAMPLE MEASUREMENT	1080	2271	lbs/day	51	114.8	175	mg/l	1	2/wk	composit
	PERMIT REQUIREMENT	1200	2100		N/A		N/A				
Total Ammonia	SAMPLE MEASUREMENT				18.3	29.6	39.3	mg/l	0	1/wk	composit
	PERMIT REQUIREMENT				N/A	N/A					

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE		DATE		
Barry A. Mills Operations Manager	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 *(Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years)*	11/24 Barry Mills	684	644-4231	93	11	23
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS *(Reference all attachments here)*

Facility Name/Location if different)

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OMB No. 2040-0004
Expires 3-31-88

PERMIT NUMBER (2-16)	DISCHARGE NUMBER (17-19)
AS 0000019	001

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	93 (20-21)	10 (22-23)	01 (24-25)	TO	93 (26-27)	10 (28-29)	31 (30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
Temp	SAMPLE MEASUREMENT				70	80	93	°F	0	continous	
	PERMIT REQUIREMENT					90	95				
pH	SAMPLE MEASUREMENT				6.5		7.4		0	continous	
	PERMIT REQUIREMENT				6.5		8.6				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Barry A. Mills Operations Manager	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 (Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years)	11/24	684	644-4231	93	11	23
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Wastewater Summary Report for the Month of October 1993

Date	Production Tons	Flow mgd	Alum #/day	Poly #/day	Max Temp F	pH Limits Lo	pH Limits Hi	Oil & Grease Eff mg/l	Oil & Grease Total #/day	TSS Eff mg/l	TSS Total #/day	TP Eff mg/l	TP Total #/day	TN Eff mg/l	TN Total #/day	Tot Ammonia Eff mg/l	BOD Eff mg/l
1	0.000	0.0875	60.0	2.5	86	7.0	7.1										
2	0.000	0.1000	72.0	2.5	86	6.7	6.8										
3	0.000	1.1235	852.0	26.5	72	6.7	6.9										
4	463.336	1.5438	1272.0	36.2	86	6.9	7.0										
5	364.309	1.3689	1116.0	34.0	78	6.5	6.9										
6	464.777	1.2819	984.0	29.0	77	6.5	7.0	14.1	150	74.5	794	2.8	30	94.0	1002	18.3	
7	505.131	1.3998	1080.0	31.5	79	6.8	7.3	7.3	85	47.0	547	3.2	37	105.0	1222		
8	396.326	1.4753	1164.0	34.7	79	7.0	7.2										
9	0.000	0.0998	72.0	2.5	85	7.1	7.4										
10	0.000	0.2500	192.0	6.3	89	6.6	7.0										
11	0.000	1.0222	816.0	24.6	80	6.5	7.2										
12	510.914	1.4109	1200.0	34.7	82	6.7	7.2										
13	496.708	1.3957	1176.0	36.2	81	6.9	7.3										
14	484.194	1.5607	1404.0	40.3	84	6.9	7.2	23.5	305	37.0	480	11.2	145	175.0	2271	39.3	
15	433.185	1.0818	1040.0	34.7	92	7.0	7.3	19.4	175	41.5	373	17.0	153	158.0	1421		
16	0.000	0.6054	480.0	15.1	86	6.9	7.0										
17	0.000	0.3252	276.0	8.8	85	6.8	7.1										
18	0.000	0.8000	624.0	20.2	80	6.8	7.2										
19	499.202	1.0581	960.0	28.4	80	6.9	7.2										
20	511.455	1.4342	1200.0	34.7	79	7.0	7.3	32.3	385	67.0	799	11.5	137	89.0	1061	26.8	
21	521.533	1.2653	1056.0	31.5	84	6.8	7.0	32.3	340	62.0	652	4.1	43	125.0	1315		
22	471.055	1.0193	900.0	25.2	84	6.8	7.2	55.2	468	125.5	1064	12.8	108	145.0	1229		
23	0.000	0.4331	336.0	12.0	93	6.7	6.9	55.3	199	84.5	304	11.3	41	109.0	393		
24	0.000	0.3472	264.0	8.8	86	6.6	6.9	32.8	95	52.5	152	1.4	4	51.0	147		
25	0.000	0.8991	696.0	22.1	84	6.7	6.9	27.6	206	52.0	389	2.6	20	51.0	381		
26	493.927	0.9603	756.0	23.6	85	6.8	7.0	10.8	86	77.0	615	6.1	49	148.0	1182	34.1	588
27	472.827	1.2569	1044.0	31.5	85	6.9	7.0	11.6	121	49.0	512	2.9	30	128.0	1338		576
28	497.513	1.3046	1080.0	31.5	80	6.9	7.4										
29	464.761	1.1735	960.0	29.0	79	7.0	7.3										
30	0.000	0.3043	240.0	7.9	82	7.0	7.2										
31	0.000	0.3040	240.0	7.6	83	6.9	7.1										
TOT.	8051.153	28.6923	23612.0	714.1					2616		6682		797		12964		
AVG	473.597	0.9256	761.7	23.0	83			26.9	218	64.1	557	7.2	66	114.8	1080	29.6	

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if different)*

NAME StarKist Samoa

ADDRESS Box 368
Pago Pago, American Samoa
96799

FACILITY

LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM *(NPDES)*

DISCHARGE MONITORING REPORT *(DMR)*

(2-16) PERMIT NUMBER	*(17-19)* DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MO	DAY		YEAR	MO	DAY
FROM	93 *(20-21)*	06 *(22-23)*	01 *(24-25)*	TO	93 *(26-27)*	06 *(28-29)*	30 *(30-31)*

Form Approved
OMB No. 2040-0004
Expires 3-31-88

metals

NOTE: Read instructions before completing this form.

PARAMETER *(32-37)*		*(3 Card Only)* QUANTITY OR LOADING *(46-53)* AVERAGE	*(54-61)* MAXIMUM	UNITS	*(4 Card Only)* QUALITY OR CONCENTRATION *(38-45)* MINIMUM	*(46-53)* AVERAGE	*(54-61)* MAXIMUM	UNITS	NO. EX *(62-63)*	FREQUENCY OF ANALYSIS *(64-68)*	SAMPLE TYPE *(69-70)*
Total Cadmium	SAMPLE MEASUREMENT	0.02		mg/l						once/6 mo.	conti nous
	PERMIT REQUIREMENT										
Total Chromium	SAMPLE MEASUREMENT	0.05		mg/l						"	
	PERMIT REQUIREMENT										
Total Lead	SAMPLE MEASUREMENT	0.005		mg/l						"	"
	PERMIT REQUIREMENT										
Total Mercury	SAMPLE MEASUREMENT	0.002		mg/l						"	"
	PERMIT REQUIREMENT										
Total Zinc	SAMPLE MEASUREMENT	0.147		mg/l						"	"
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Barry A. Mills Operations Manager	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN. AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. *(Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years.)*	x 11/24	684	644-4231	93	11	23
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS *(Reference all attachments here)*

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if different)*
NAME StarKist Samoa
ADDRESS Box 368
Pago Pago , American SAmoa
96799
FACILITY
LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM *(NPDES)*
DISCHARGE MONITORING REPORT *(DMR)*

PERMIT NUMBER *(2-16)*	DISCHARGE NUMBER *(17-19)*

MONITORING PERIOD	YEAR	MO	DAY		YEAR	MO	DAY
FROM	93 *(20-21)*	09 *(22-23)*	01 *(24-25)*	TO	93 *(26-27)*	09 *(28-29)*	30 *(30-31)*

Form Approved
OMB No. 2040-0004
Expires 3-31-88

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PARAMETER *(32-37)*		*(3 Card Only)* QUANTITY OR LOADING *(46-53)* AVERAGE	*(54-61)* MAXIMUM	UNITS	*(4 Card Only)* QUALITY OR CONCENTRATION *(38-45)* MINIMUM	*(46-53)* AVERAGE	*(54-61)* MAXIMUM	UNITS	NO. EX *(62-63)*	FREQUENCY OF ANALYSIS *(64-68)*	SAMPLE TYPE *(69-70)*
Total Cadmium	SAMPLE MEASUREMENT	0.02		mg/1						once/6	conti-
	PERMIT REQUIREMENT									mo.	nous
Total Chromium	SAMPLE MEASUREMENT	0.019		mg/1						"	
	PERMIT REQUIREMENT										
Total Lead	SAMPLE MEASUREMENT	0.005		mg/1						"	"
	PERMIT REQUIREMENT										
Total Mercury	SAMPLE MEASUREMENT	0.00026		mg/1						"	"
	PERMIT REQUIREMENT										
Total Zinc	SAMPLE MEASUREMENT	0.109		mg/1						"	"
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE		DATE		
Barry A. Mills Operations Manager	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN, AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 USC § 1001 AND 33 USC § 1319. *(Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years.)*	x [signature] 11/24	684	644-4231	93	11	23
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS *(Reference all attachments here)*

StarKist Samoa, Inc.

An Affiliate of StarKist Seafood Company

PO Box 368
Pago Pago, Tutuila Islands
American Samoa 96799
Telephone: 684-644-4231
Facsimile: 684-644-2440

August 25, 1993

Mr. Norman Lovelace
OPINAP (E-4)
U.S. EPA Region 9
75 Hawthorne Street
San Francisco, CA 94105

Mr. Togipa Tausaga
ASEPA
Office of the Governor
American Samoa Government
Pago Pago, American Samoa 96799

Gentlemen:

Re: ***Discharge Monitoring Report for the Months of May, June and July 1993 under NPDES No. 0000019 as issued to Starkist Samoa, Inc.***

Please find attached StarKist Samoa's Discharge Monitoring Report covering the months of May, June and July, 1993.

StarKist Samoa met all effluent limitations except for total nitrogen's daily maximum on May 5, 1993. These values were exceeded due to the high total nitrogen content in the 100,000 gallons of high strength waste that were treated on May 5th with permission from US EPA. As a precautionary measure, the alum and polymer dosages were increased respectively on that day. Such increases in chemical dosages enabled the treatment plant to meet all its limitations except for total nitrogen.

StarKist Samoa requested EPA's permission to process the 100,000 gallons of high strength waste on May 5th because of malfunction in the Astro's main engine. Extraordinary efforts were made to obtain the necessary replacement parts and the vessel were back in operation by May 5th.This problem is not likely to recur since the new replacement vessel has been in operation since June 26, 1993.

Sincerely,

MAURICE W. CALLAGHAN
General Manager

MC\ht:npdes\samoa

Attachments

cc: Ms. Sheila Wiegman
Mr. Ralph Ward
Mr. Norman Wei
Mr. William Adams
Mr. Barry Mills

Facility Name/Location if different

NAME StarKist Samoa Inc.

ADDRESS P.O. Box 368
Pago Pago, American Samoa
96799

FACILITY

LOCATION

DISCHARGE MONITORING REPORT (DMR)

(2-16) AS 0000019 PERMIT NUMBER

(17-19) 001 DISCHARGE NUMBER

OMB No. 2040-0004
Expires 3-31-88

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	93	05	01	TO	93	05	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
Flow	SAMPLE MEASUREMENT	0.8826	1.4473	mgd					0	continous	
	PERMIT REQUIREMENT		2.9								
BOD	SAMPLE MEASUREMENT				328	383	438		0	2/mo	compos
	PERMIT REQUIREMENT										
TSS	SAMPLE MEASUREMENT	701	1299	lbs/day	50.5	70.1	134.5	mg/l	0	2/wk	compos
	PERMIT REQUIREMENT	2653	6673		N/A		N/A				
Oil & Grease	SAMPLE MEASUREMENT	265	692	lbs/day	6.0	25.9	71.7	mg/l	0	2/wk	grab
	PERMIT REQUIREMENT	675	1688		N/A		N/A				
TP	SAMPLE MEASUREMENT	77	239	lbs/day	4.6	7.8	24.8	mg/l	0	2/wk	compos
	PERMIT REQUIREMENT	192	309		N/A		N/A				
TN	SAMPLE MEASUREMENT	1184	3013	lbs/day	73.6	119.6	312	mg/l	1	2/wk	compos
	PERMIT REQUIREMENT	1200	2100		N/A		N/A				
Total Ammonia	SAMPLE MEASUREMENT				24.5	27.2	28.9	mg/l	0	1/wk	compo
	PERMIT REQUIREMENT				N/A	N/A					

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

Maurice W. Callaghan
General Manager

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 (Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE

AREA CODE	NUMBER
684	644-4231

DATE

YEAR	MO	DAY
93	08	25

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

(facility name/location if different)

NAME StarKist Samoa Inc.

ADDRESS P.O. Box 368
Pago Pago, American Samoa
96799

FACILITY

LOCATION

(2-16) PERMIT NUMBER: AS 0000019

(17-19) DISCHARGE NUMBER: 001

Expires 3-31-88

MONITORING PERIOD

FROM YEAR (20-21)	MO (22-23)	DAY (24-25)	TO YEAR (26-27)	MO (28-29)	DAY (30-31)
93	05	01	93	05	31

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
Temp	SAMPLE MEASUREMENT				78	86	91	°F		continous	
	PERMIT REQUIREMENT					90	95				
pH	SAMPLE MEASUREMENT				6.5		7.5			continous	
	PERMIT REQUIREMENT				6.5		8.6				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

Maurice W. Callaghan
General Manager

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 *(Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years)*

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE 684 | NUMBER 644-4231

DATE: YEAR 93 | MO 08 | DAY 25

COMMENT AND EXPLANATION OF ANY VIOLATIONS *(Reference all attachments here)*

Wastewater Summary Report for the Month of May 1993

Date	Production Tons	Flow mgd	Alum #/day	Poly #/day	Max Temp F	pH Limits Lo	pH Limits Hi	Oil & Grease Eff mg/l	Oil & Grease Total #/day	TSS Eff mg/l	TSS Total #/day	TP Eff mg/l	TP Total #/day	TN Eff mg/l	TN Total #/day	Tot Ammonia Eff mg/l	BOD Eff mg/l
1	0.000	0.1824	150.0	4.8	86	6.7	6.8										
2	0.000	0.7155	528.0	16.4	84	6.6	6.9										
3	485.483	0.9545	720.0	21.4	88	6.6	7.0										
4	466.757	1.2521	972.0	28.0	85	6.5	6.8	54.8	571	75.5	786	5.6	58	99.6	1037	27.2	
5	507.009	1.1611	1500.0	50.0	88	6.6	6.8	71.7	692	134.5	1299	24.8	239	312.0	3013		
6	499.883	1.3533	1800.0	54.0	88	6.5	6.9										
7	540.086	0.9921	1200.0	37.8	89	6.5	6.8										
8	0.000	0.4470	336.0	11.0	89	6.5	6.7										
9	0.000	1.0053	780.0	22.0	87	6.8	7.1										
10	487.212	1.2429	960.0	26.8	88	6.6	7.1										
11	476.834	0.8774	672.0	20.0	87	6.6	7.1	12.9	94	64.0	467	5.7	42	110.8	808	28.2	
12	0.000	0.4915	360.0	11.0	90	6.6	6.7										
13	0.000	0.4389	300.0	9.5	88	6.6	6.8										
14	0.000	0.5061	408.0	12.6	90	7.2	7.3										
15	0.000	0.3962	288.0	9.5	86	7.4	7.5										
16	0.000	0.2591	204.0	6.3	91	6.5	6.8										
17	0.000	0.2699	216.0	6.9	90	7.2	7.3										
18	0.000	0.5747	432.0	13.2	90	7.2	7.5										
19	250.227	1.4022	1140.0	31.5	88	6.7	7.3										
20	521.350	1.3608	1056.0	29.6	81	6.7	7.0	12.7	144	53.5	605	5.7	65	73.6	833	24.5	
21	506.943	1.4473	1176.0	33.1	82	6.7	7.0	28.6	344	53.5	644	5.1	61	86.7	1043		328
22	486.223	1.0227	840.0	24.6	88	6.5	7.0	6.0	51	50.5	429	5.3	45	85.3	725		438
23	0.000	0.9152	696.0	20.2	90	6.7	7.2										
24	506.565	1.1944	912.0	25.8	85	6.8	7.3	8.1	80	57.5	571	5.5	55	88.1	875	28.9	
25	526.172	1.3620	1068.0	29.6	82	6.6	7.1	12.4	140	71.5	810	4.6	52	100.3	1136		
26	501.471	1.4470	1164.0	33.4	84	6.8	7.1										
27	509.929	1.1970	936.0	26.0	86	6.8	7.2										
28	495.361	1.0821	864.0	24.6	85	6.8	7.2										
29	0.000	0.5108	384.0	12.6	87	7.3	7.4										
30	0.000	0.1767	132.0	5.0	88	7.0	7.1										
31	0.000	1.1213	888.0	25.8	86	7.0	7.2										
TOT.	7767.505	27.3595	23082.0	683.0					2117		5612		617		9471		
AVG	485.469	0.8826	744.6	22.0	87			25.9	265	70.1	701	7.8	77	119.6	1184	27.2	383.0

(Facility Name/Location if different)

NAME StarKist Samoa Inc.

ADDRESS P.O. Box 368
Pago Pago, American Samoa
96799

FACILITY

LOCATION 93

DISCHARGE MONITORING REPORT (DMR)

OMB No. 2040-0004
Expires 3-31-88

(2-16) PERMIT NUMBER	(17-19) DISCHARGE NUMBER
AS 0000019	001

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	93 (20-21)	06 (22-23)	01 (24-25)	TO	93 (26-27)	06 (28-29)	30 (30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (46-53) MINIMUM	(54-61) AVERAGE	MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
Flow	SAMPLE MEASUREMENT	1.1962	1.6838	mgd					0	continous	
	PERMIT REQUIREMENT		2.9								
BOD	SAMPLE MEASUREMENT				258	265.3	272.5		0	2/mo	compos
	PERMIT REQUIREMENT										
TSS	SAMPLE MEASUREMENT	987	4627	lbs/day	34.5	89.3	373	mg/l	0	2/wk	compo
	PERMIT REQUIREMENT	2653	6673		N/A		N/A				
Oil & Grease	SAMPLE MEASUREMENT	274	667	lbs/day	11.1	25.3	62.1	mg/l	0	2/wk	grab
	PERMIT REQUIREMENT	675	1688		N/A		N/A				
TP	SAMPLE MEASUREMENT	55	176	lbs/day	0.7	5.1	14.2	mg/l	0	2/wk	compo
	PERMIT REQUIREMENT	192	309		N/A		N/A				
TN	SAMPLE MEASUREMENT	862	1202	lbs/day	20.9	81.1	119.5	mg/l	0	2/wk	compo
	PERMIT REQUIREMENT	1200	2100		N/A		N/A				
Total Ammonia	SAMPLE MEASUREMENT				18.5	24.9	34.8	mg/l	0	1/wk	compo
	PERMIT REQUIREMENT				N/A	N/A					

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Maurice W. Callaghan General Manager	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 *(Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years.)*	Maurice W. Callaghan	684 (AREA CODE)	644-4231 (NUMBER)	93 (YEAR)	08 (MO)	25 (DA
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT					

COMMENT AND EXPLANATION OF ANY VIOLATIONS *(Reference all attachments here)*

(facility name/location if different)

NAME StarKist Samoa Inc.

ADDRESS P.O. Box 368
Pago Pago, American Samoa
96799

FACILITY

LOCATION

(2-16) PERMIT NUMBER: AS 0000019

(17-19) DISCHARGE NUMBER: 001

Expires 3-31-88

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	93	06	01	TO	93	06	30
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
Temp	SAMPLE MEASUREMENT				75	84	90	°F	0	continous	
	PERMIT REQUIREMENT					90	95				
pH	SAMPLE MEASUREMENT				6.5		7.6		0	continous	
	PERMIT REQUIREMENT				6.5		8.6				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

Maurice W. Callaghan
General Manager

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 (Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE 684 | NUMBER 644-4231

DATE: YEAR 93 | MO 08 | DAY 25

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Wastewater Summary Report for the Month of June 1993

Date	Production Tons	Flow mgd	Alum #/day	Poly #/day	Max Temp F	pH Limits Lo	pH Limits Hi	Oil & Grease Eff mg/l	Oil & Grease Total #/day	TSS Eff mg/l	TSS Total #/day	TP Eff mg/l	TP Total #/day	TN Eff mg/l	TN Total #/day	Tot Ammonia Eff mg/l	BOD Eff mg/l
1	409.394	1.4978	1200.0	34.7	83	6.8	7.5										
2	513.138	1.1524	912.0	26.5	84	6.9	7.2	20.8	199	56.0	537	10.3	99	119.5	1145	26.9	
3	561.203	1.2089	960.0	27.7	82	6.8	7.1	37.1	373	95.5	960	4.3	43	100.0	1005		
4	439.926	1.5500	1236.0	36.2	82	6.9	7.2										
5	457.772	0.9353	720.0	22.1	84	6.9	7.3										
6	0.000	1.0323	840.0	25.8	84	6.9	7.2										
7	496.934	1.2677	984.0	29.9	88	6.9	7.4										
8	500.297	1.1581	936.0	28.0	86	7.2	7.4	12.6	121	55.5	535	5.0	48	88.8	855	24.1	
9	430.577	1.2880	996.0	28.4	85	6.8	7.4	62.1	665	103.0	1103	5.3	57	94.9	1016		
10	455.390	1.5970	1260.0	36.2	82	6.8	7.1										
11	509.299	0.9779	744.0	23.6	88	6.9	7.2										
12	0.000	0.3867	312.0	9.5	90	7.1	7.3										
13	0.000	1.0719	780.0	23.6	86	6.5	7.2										
14	498.301	1.2027	984.0	28.4	84	7.0	7.5										
15	519.439	1.4512	1152.0	32.8	84	6.9	7.3	15.3	185	63.3	764	4.5	55	83.3	1005	18.5	
16	496.625	1.5612	1248.0	35.3	82	7.0	7.3										
17	534.069	1.4916	1200.0	34.0	84	6.9	7.2	27.0	335	373.0	4627	14.2	176	96.9	1202		
18	486.157	1.1004	840.0	24.6	83	7.2	7.5										
19	0.000	0.3044	216.0	7.9	79	7.2	7.3										
20	0.000	1.1135	852.0	23.9	85	7.0	7.5										
21	527.290	1.2767	1008.0	28.4	83	6.9	7.3										
22	522.567	1.4697	1140.0	34.0	84	6.9	7.2	54.6	667	68.5	837	4.7	57	75.9	928	21.1	
23	539.328	1.6838	1380.0	39.1	86	7.2	7.4	27.4	384	85.5	1197	4.0	56	84.1	1178		272.5
24	493.268	1.4303	1152.0	32.0	83	7.3	7.6	16.8	200	71.0	845	4.7	56	93.4	1111	22.2	258.0
25	510.480	1.3804	1080.0	29.9	82	7.4	7.6	15.9	183	56.5	649	4.6	53	73.1	839		
26	0.000	0.3514	264.0	8.2	88	7.2	7.3	11.1	32	56.0	164	3.9	11	69.2	202	34.8	
27	0.000	0.8449	660.0	18.9	86	6.6	7.1	15.9	112	34.5	242	0.7	5	20.9	147		
28	506.498	1.0713	816.0	22.7	88	7.3	7.6	23.3	208	82.5	735	2.8	25	73.6	656	26.4	
29	512.780	1.5002	1176	32.8	86	6.5	7.3	14.3	178	50.0	624	2.5	31	62.0	773		
30	503.508	1.5276	1200	33.1	84	6.5	6.7										
TOT.	11424.240	35.8853	28248.0	818.2					3842		13817		772		12063		
AVG	496.706	1.1962	941.6	27.3	85			25.3	274	89.3	987	5.1	55	81.1	862	24.9	265.3

(Facility Name/Location if different)

NAME StarKist Samoa Inc.

ADDRESS P.O.Box 368
Pago Pago, American Samoa
96799

FACILITY

LOCATION

DISCHARGE MONITORING REPORT (DMR)

OMB No. 2040-0004
Expires 3-31-88

(2-16) PERMIT NUMBER	(17-19) DISCHARGE NUMBER
AS 0000019	001

MONITORING PERIOD	YEAR	MO	DAY		YEAR	MO	DAY
FROM	93	07	01	TO	93	07	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

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PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
Flow	SAMPLE MEASUREMENT	1.0898	1.7118	mgd					0	continous	
	PERMIT REQUIREMENT		2.9								
BOD	SAMPLE MEASUREMENT				348.5	386.9	425.3		0	2/mo	compos
	PERMIT REQUIREMENT										
TSS	SAMPLE MEASUREMENT	922	2339	lbs/day	45.5	83.7	170	mg/l	0	2/wk	compos
	PERMIT REQUIREMENT	2653	6673		N/A		N/A				
Oil & Grease	SAMPLE MEASUREMENT	157	399	lbs/day	6.1	15.6	38.5	mg/l	0	2/wk	grab
	PERMIT REQUIREMENT	675	1688		N/A		N/A				
TP	SAMPLE MEASUREMENT	51	101	lbs/day	2.1	4.7	7.3	mg/l	0	2/wk	compos
	PERMIT REQUIREMENT	192	309		N/A		N/A				
TN	SAMPLE MEASUREMENT	945	1602	lbs/day	29.5	86.4	116.0	mg/l	0	2/wk	compos
	PERMIT REQUIREMENT	1200	2100		N/A		N/A				
Total Ammonia	SAMPLE MEASUREMENT				15.0	24.0	38.2	mg/l	0	1/wk	compo
	PERMIT REQUIREMENT				N/A	N/A					

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Maurice W. Callaghan General Manager	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 (Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years)		684	644-4231	93	08	25
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

(facility name/location if different)

NAME StarKist Samoa Inc.

ADDRESS P.O. Box 368
Pago Pago, American Samoa
96799

FACILITY

LOCATION

(2-16) PERMIT NUMBER: AS 0000019

(17-19) DISCHARGE NUMBER: 001

OMB No. 2040-0004
Expires 3-31-88

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	93	07	01	TO	93	07	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

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Temp	SAMPLE MEASUREMENT				76	82	90	°F		continous	
	PERMIT REQUIREMENT					90	95				
pH	SAMPLE MEASUREMENT				6.5		7.5			continous	
	PERMIT REQUIREMENT				6.5		8.6				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

Maurice W. Callaghan
General Manager

TYPED OR PRINTED

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SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE 684, NUMBER 644-4231

DATE: YEAR 93, MO 08, DA 25

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Wastewater Summary Report for the Month of July 1993

Date	Production Tons	Flow mgd	Alum #/day	Poly #/day	Max Temp F	pH Limits Lo	pH Limits Hi	Oil & Grease Eff mg/l	Oil & Grease Total #/day	TSS Eff mg/l	TSS Total #/day	TP Eff mg/l	TP Total #/day	TN Eff mg/l	TN Total #/day	Tot Ammonia Eff mg/l	BOD Eff mg/l
1	540.423	1.1780	900.0	26.8	84	6.5	6.9										
2	502.141	1.0878	864.0	26.0	83	6.5	6.8										
3	0.000	0.3823	300.0	8.8	84	7.0	7.2										
4	0.000	0.2417	180.0	5.7	90	7.0	7.1										
5	0.000	0.6969	504.0	14.5	84	6.7	7.3										
6	514.611	1.2369	984.0	27.7	83	6.9	7.2										
7	512.928	1.6414	1344.0	37.8	87	6.6	7.1										
8	547.302	1.0700	840.0	24.6	82	6.6	7.2	12.7	113	156.0	1388	4.3	38	74.8	666		
9	513.183	1.0392	816.0	23.3	90	7.1	7.3	10.3	89	45.5	393	3.5	30	88.7	767		
10	0.000	0.5242	396.0	12.0	84	6.5	6.7	17.3	75	55.0	240	4.5	20	70.3	306	38.2	
11	0.000	0.9946	744.0	22.1	88	6.7	7.0	27.3	226	55.0	455	2.1	17	29.5	244	19.1	
12	513.581	1.3949	1104.0	31.5	84	6.7	7.3	10.1	117	47.0	545	3.4	40	87.5	1015	22.7	
13	520.329	1.1352	864.0	25.2	88	6.7	7.0	8.6	81	53.5	505	4.6	43	89.3	843		
14	537.327	1.6545	1260.0	36.2	84	6.9	7.5	6.1	84	170.0	2339	5.0	69	95.5	1314	20.2	
15	531.090	1.5489	1224.0	34.7	83	7.0	7.3										
16	484.235	0.9017	720.0	20.5	84	7.2	7.4										
17	0.000	0.4064	312.0	9.5	84	6.7	7.0										
18	0.000	1.0341	804.0	23.6	78	7.0	7.4										
19	473.689	1.7118	1296.0	36.5	84	7.1	7.3										
20	526.193	1.5790	1236.0	35.3	80	7.1	7.3	12.7	167	76.5	1005	4.7	61	77.0	1011	15.0	
21	510.605	1.5242	1200.0	37.2	84	6.9	7.3	11.0	139	57.3	727	5.4	68	102.0	1293		348.5
22	449.063	1.6609	1272.0	35.9	84	7.1	7.3	8.9	123	75.5	1043	7.3	101	116.0	1602	27.4	425.3
23	495.463	1.1747	900.0	26.5	84	7.2	7.5										
24	0.000	0.5247	384.0	12.6	90	6.9	7.1										
25	0.000	0.8168	600.0	18.3	86	7.1	7.3										
26	500.198	1.2382	924.0	26.5	84	6.7	7.0										
27	505.518	1.2452	936.0	27.7	82	6.6	6.9	38.5	399	68.5	709	5.9	61	112.0	1160	25.2	
28	512.117	1.4290	1116.0	30.9	86	6.8	7.0	23.2	276	144.0	1711	5.7	67	94.2	1119		
29	514.009	1.2322	960.0	27.7	84	6.8	7.2										
30	486.823	1.0722	840.0	24.6	84	6.8	7.4										
31	0.000	0.4055	300.0	10.1	90	6.9	7.3										
TOT.	10690.828	33.7831	26124.0	760.3					1889		11060		616		11340		
AVG	509.087	1.0898	842.7	24.5	85			15.6	157	83.7	922	4.7	51	86.4	945	24.0	386.9

StarKist Samoa, Inc.

June 8, 1993

Mr. Norman Lovelace
OPINAP (E-4)
US EPA Region 9
75 Hawthorne Street
San Francisco, CA 94105

Mr. Togipa Tausaga
ASEPA
Office of the Governor
American Samoa Government
Pago Pago, American Samoa 96799

Gentlemen:

Re: Discharge Monitoring Report for the Month of April 1993 under NPDES Permit NO. 00000019 as issued to StarKist Samoa, Inc.

Attached is StarKist Samoa's Discharge Monitoring Report covering the month of April 1993.

StarKist Samoa met all effluent limitations except for monthly average and daily maximum for total nitrogen on April 27th. This was the first time any permit limitations were exceeded since the NPDES permit was issued in October of 1992.

These values were exceeded due to the high total nitrogen content in the 150,000 gallons of high strength waste that were treated on April 27th with permission from US EPA. As a precautionary measure, the alum and polymer dosages were increased by 50 percent to 144 mg/l and 4.2 mg/l respectively on that day. Such increases in chemical dosages enabled the treatment plant to meet all its limitations except for total nitrogen.

StarKist Samoa requested EPA's permission to process the 150,000 gallons of high strength waste on April 27th because of malfunction in the Astro's main engine. Extraordinary efforts were made to obtain the necessary replacement parts and the vessel was back in operation by May 5th. This problem is not likely to recur since

the new replacement vessel FV TASMAN SEA has redundant engines. The FV TASMAN SEA set sail from the mainland last week and is due to arrive in Pago Pago the third week of June.

Sincerely,

STARKIST SAMOA, INC.

MAURICE W. CALLAGHAN
General Manager

/tl

Attachment

cc: Ms. Sheila Wiegman - ASEPA
Mr. Ralph A. Ward
Mr. Barry Mills
Mr. Norman Wei
Mr. William Adams

Facility Name/Location if different

NAME StarKist Samoa Inc.

ADDRESS P.O.Box 368
Pago Pago, American Samoa
96799

FACILITY

LOCATION

DISCHARGE MONITORING REPORT (DMR)

OMB No. 2040-0004
Expires 3-31-88

(2-16) PERMIT NUMBER	(17-19) DISCHARGE NUMBER
AS 0000019	001

MONITORING PERIOD

	YEAR (20-21)	MO (22-23)	DAY (24-25)		YEAR (26-27)	MO (28-29)	DAY (30-31)
FROM	93	04	01	TO	93	04	30

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Flow	SAMPLE MEASUREMENT	1.2211	1.6903	mgd					0	continous	
	PERMIT REQUIREMENT		2.9								
3OD	SAMPLE MEASUREMENT				81	186	290		0	2/mo	composi
	PERMIT REQUIREMENT										
TSS	SAMPLE MEASUREMENT	762	1633	lbs/day	43.5	61.4	128	mg/l	0	2/wk	composi
	PERMIT REQUIREMENT	2653	6673		N/A		N/A				
Oil & Grease	SAMPLE MEASUREMENT	387	913	lbs/day	3.9	31.2	77.9	mg/l	0	2/wk	grab
	PERMIT REQUIREMENT	675	1688		N/A		N/A				
TP	SAMPLE MEASUREMENT	106	293	lbs/day	4.0	8.7	25.1	mg/l	0	2/wk	composi
	PERMIT REQUIREMENT	192	309		N/A		N/A				
TN	SAMPLE MEASUREMENT	1442	3385	lbs/day	70.8	118.1	290	mg/l	1	2/wk	composi
	PERMIT REQUIREMENT	1200	2100		N/A		N/A				
Total Ammonia	SAMPLE MEASUREMENT				17.7	21.2	24.4	mg/l	0	1/wk	composi
	PERMIT REQUIREMENT				N/A	N/A					

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

Maurice W. Callaghan
General Manager

TYPED OR PRINTED

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SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE

AREA CODE	NUMBER
684	644-4231

DATE

YEAR	MO	DAY
93	06	07

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Facility Name/Location if different)

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ADDRESS P.O.Box 368

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OMB No. 2040-0004
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FROM	93	04	01	TO	93	04	30
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
Temp	SAMPLE MEASUREMENT				76	87	90	°F	0	continous	
	PERMIT REQUIREMENT					90	95				
pH	SAMPLE MEASUREMENT				6.5		7.3		0	continous	
	PERMIT REQUIREMENT				6.5		8.6				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE		DATE		
Maurice W. Callaghan General Manager	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 (Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years)		684	644-4231	93	06	07
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Wastewater Summary Report for the Month of April 1993

Date	Production Tons	Flow mgd	Alum #/day	Poly #/day	Max Temp F	pH Limits Lo	Hi	Oil & Grease Eff mg/l	Total #/day	TSS Eff mg/l	Total #/day	TP Eff mg/l	Total #/day	TN Eff mg/l	Total #/day	Tot Ammonia Eff mg/l	BOD Eff mg/l	Alum mg/l	Polymer mg/l
1	505.217	1.3750	1056.0	29.6	85	6.5	7.2											92.35	2.59
2	434.926	1.3294	1032.0	29.0	86	6.5	6.9											93.35	2.62
3	489.890	1.1227	912.0	25.8	86	6.6	6.9											97.68	2.53
4	0.000	0.8810	648.0	18.9	88	6.9	7.0											88.45	2.68
5	480.541	1.2601	960.0	26.8	86	6.5	7.2											91.61	2.68
6	530.269	1.5425	1200.0	34.0	85	6.5	7.0	31.7	407	48.5	622	8.0	103	90.8	1165	20.3		93.55	2.68
7	536.449	1.6278	1260.0	34.7	86	6.5	6.7	52.8	715	57.5	778	6.9	94	82.6	1118			93.08	2.56
8	559.614	1.1831	888.0	25.2	85	6.5	6.9											90.26	2.56
9	0.000	0.6069	480.0	15.8	89	6.5	6.9											95.11	3.13
10	0.000	0.2322	180.0	6.3	88	6.8	7.0											93.22	3.26
11	0.000	0.6391	468.0	14.5	85	6.8	7.3											88.06	2.73
12	520.749	1.2926	984.0	27.7	85	6.5	7.1											91.54	2.58
13	555.960	1.4667	1176.0	32.8	85	6.6	6.9	24.8	302	47.5	579	4.1	50	122.0	1488	22.2		96.42	2.69
14	582.712	1.5056	1236.0	33.4	88	6.5	6.7	24.4	306	43.5	545	9.0	112	102.0	1277			98.72	2.67
15	546.107	1.4955	1176.0	32.8	86	6.5	6.8											94.58	2.64
16	519.997	1.5825	1248.0	34.6	88	6.5	6.7											94.83	2.68
17	503.743	1.2117	960.0	26.8	86	6.7	7.2											95.27	2.68
18	0.000	1.3213	1020.0	28.4	86	6.8	7.2											92.83	2.58
19	517.278	1.2894	984.0	29.1	86	6.5	6.8											91.77	2.71
20	557.545	1.4096	1140.0	31.5	88	6.5	7.0	77.9	913	77.0	903	4.0	47	95.5	1119	24.4		97.28	2.69
21	532.353	1.5337	1224.0	34.0	90	6.6	7.0	10.9	139	128.0	1633	6.5	83	91.3	1164			96.97	2.67
22	555.432	1.5729	1260.0	34.0	86	6.7	7.3											96.33	2.60
23	540.207	1.3883	1044.0	29.0	82	6.7	7.2											90.43	2.51
24	0.000	0.5152	360.0	11.0	88	6.8	7.0											84.03	2.57
25	0.000	0.7308	552.0	17.3	89	6.9	7.0											90.83	2.85
26	524.055	1.3863	1128.0	33.4	88	6.7	6.9	3.9	45	44.0	507	5.7	65	70.8	816	17.7	81	97.84	2.90
27	566.665	1.4038	1680.0	48.9	84	6.5	6.8	23.0	269	45.5	531	25.1	293	290.0	3385		290	143.91	4.19
28	571.713	1.6903	1440.0	42.5	87	6.5	6.8											102.44	3.02
29	515.392	1.2641	1080.0	31.5	90	6.5	6.9											102.74	3.00
30	131.725	0.7730	600.0	18.9	90	6.6	7.1											93.34	2.94
TOT.	11778.539	36.6331	29376.0	838.2					3095		6098		847		11534				
AVG	512.110	1.2211	979.2	27.9	87			31.2	387	61.4	762	8.7	106	118.1	1442	21.2	186	95.63	2.77
Max	582.712	1.6903	1680						913		1633		293		3385			143.91	4.19

StarKist Samoa, Inc.

An Affiliate of StarKist Seafood Company

P.O. Box 368
Pago Pago, TuTuila Islands
American Samoa 96799
Telephone: 684-644-4231
Facsimile: 684-644-2440

JUN 08 1993 SM
Copy to Attic

May 27, 1993

Mr. Norman Lovelace
OPINAP (E-4)
U.S. EPA Region 9
75 Hawthorne Street
San Francisco, CA 94105

Mr. Togipa Tausaga
ASEPA
Office of the Governor
American Samoa Government
Pago Pago, American Samoa 96799

Gentlemen:

Re: Discharge Monitoring Report for the Months of February, and March 1993 under NPDES No. 0000019 as issued to Starkist Samoa, Inc.

Please find attached StarKist Samoa's Discharge Monitoring Report covering the months of February and March 1993.

The final results for the month of April 1993 have not been finalized yet. Aecos laboratory is doing the analysis for TP, TN and Total Ammonia. As soon as the results are available we will forward the report to your office.

Sincerely,

/s/ MAURICE W. GALLAGHAN
General Manager

MC\ht:npdes\samoa

Attachments

cc: Ms. Sheila Wiegman
Mr. Ralph Ward
Mr. Norman Wei
Mr. William Adams

Facility Name/Location if different)

NAME StarKist Samoa Inc.

ADDRESS P.O.Box 368
Pago Pago, American Samoa
96799

FACILITY

LOCATION

DISCHARGE MONITORING REPORT (DMR)

OMB No. 2040-0004
Expires 3-31-88

PERMIT NUMBER (2-16)	DISCHARGE NUMBER (17-19)
AS 0000019	001

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	93 (20-21)	02 (22-23)	01 (24-25)	TO	93 (26-27)	02 (28-29)	28 (30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
Flow	SAMPLE MEASUREMENT	0.9190	1.4647	mgd					0	continous	
	PERMIT REQUIREMENT		2.9								
BOD	SAMPLE MEASUREMENT				202.56	286.57	370.58		0	2/mo	composite
	PERMIT REQUIREMENT				N/A		N/A				
TSS	SAMPLE MEASUREMENT	521	636	lbs/day	46.7	53.2	56	mg/l	0	2/wk	composite
	PERMIT REQUIREMENT	2653	6673		N/A		N/A				
Oil & Grease	SAMPLE MEASUREMENT	151	333	lbs/day	7.4	15.4	34.9	mg/l	0	2/wk	grab
	PERMIT REQUIREMENT	675	1688		N/A		N/A				
TP	SAMPLE MEASUREMENT	46	64	lbs/day	3.0	4.7	6.2	mg/l	0	2/wk	composite
	PERMIT REQUIREMENT	192	309		N/A		N/A				
TN	SAMPLE MEASUREMENT	447	697	lbs/day	35.9	45.1	61.3	mg/l	0	2/wk	composite
	PERMIT REQUIREMENT	1200	2100		N/A		N/A				
Total Ammonia	SAMPLE MEASUREMENT				13.8	18.2	26.7	mg/l	0	1/wk	composite
	PERMIT REQUIREMENT				N/A	N/A					

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Maurice W. Callaghan General Manager	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 (Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years)	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	684 (AREA CODE)	644-4231 (NUMBER)	93 (YEAR)	05 (MO)	27 (DAY)
TYPED OR PRINTED							

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Facility Name/Location if different)

NAME StarKist Samoa Inc.

ADDRESS P.O.Box 368
Pago Pago, American Samoa
96799

FACILITY

LOCATION

DISCHARGE MONITORING REPORT (DMR)

OMB No. 2040-0004
Expires 3-31-88

(2-16) PERMIT NUMBER	(17-19) DISCHARGE NUMBER
AS 0000019	001

MONITORING PERIOD

	YEAR (20-21)	MO (22-23)	DAY (24-25)		YEAR (26-27)	MO (28-29)	DAY (30-31)
FROM	93	02	01	TO	93	02	28

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
Temp	SAMPLE MEASUREMENT				77	84	90	°F	0	continous	
	PERMIT REQUIREMENT					90	95				
pH	SAMPLE MEASUREMENT				6.5		7.4		0	continous	
	PERMIT REQUIREMENT				6.5		8.6				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE		DATE		
Maurice W. Callaghan General Manager	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 *(Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years)*	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	684 (AREA CODE)	644-4231 (NUMBER)	93 (YEAR)	05 (MO)	27 (DAY)
TYPED OR PRINTED							

COMMENT AND EXPLANATION OF ANY VIOLATIONS *(Reference all attachments here)*

Wastewater Summary Report for the Month of February 1993

Date	Production Tons	Flow mgd	Alum #/day	Poly #/day	Max Temp F	pH Limits Lo	pH Limits Hi	Oil & Grease Eff mg/l	Oil & Grease Total #/day	TSS Eff mg/l	TSS Total #/day	TP Eff mg/l	TP Total #/day	TN Eff mg/l	TN Total #/day	Tot Ammonia Eff mg/l	BOD Eff mg/l
1	0.000	0.8016	540.0	15.8	85	7.1	7.3										
2	451.185	1.2669	960.0	26.8	88	7.0	7.4	16.9	178	48.5	511	3.9	41	35.9	378	15.3	
3	406.748	1.1725	936.0	26.8	88	6.5	7.2	8.9	87	46.7	455	4.6	45	50.9	496		
4	395.441	1.4647	1140.0	31.5	88	6.5	7.0										
5	352.234	0.7999	552.0	15.8	90	6.6	6.9										
6	0.000	0.3507	240.0	8.8	88	6.6	6.9										
7	0.000	0.6263	480.0	13.9	89	6.6	6.9										
8	465.298	1.2549	1020.0	28.4	87	6.5	7.4										
9	489.158	1.3665	1080.0	29.6	86	6.5	7.0	12.2	139	56.0	636	3.0	34	61.3	697	26.7	
10	485.715	1.0807	852.0	23.6	87	6.5	6.8	8.8	79	70.0	629	4.2	38	36.9	332		202.56
11	506.437	1.1811	960.0	26.8	90	6.5	6.9										
12	436.648	0.8515	672.0	18.9	88	6.5	6.8										
13	0.000	0.2541	192.0	6.3	90	6.6	6.9										
14	0.000	0.1774	120.0	4.7	88	7.1											
15	0.000	0.5481	384.0	11.3	86	6.5	6.6										
16	479.820	1.1459	936.0	26.5	88	6.6	7.2	34.9	333	50.0	476	4.6	43	38.6	368	13.8	370.58
17	471.128	1.0444	840.0	23.6	84	6.7	7.0	10.2	89	51.0	443	5.1	44	42.7	371		
18	478.976	1.2536	1008.0	27.7	80	6.6	6.8										
19	477.346	1.0884	828.0	22.7	90	6.6	7.3										
20	0.000	0.3120	216.0	6.9	88	6.5	6.8										
21	0.000	0.7054	540.0	15.1	89	6.5	7.0										
22	476.076	1.1272	912.0	25.2	86	6.5	6.7	24.0	225	55.0	516	6.0	56	41.8	392	17.1	
23	466.956	1.2497	1020.0	28.4	86	6.5	6.9	7.4	77	48.0	499	6.2	64	52.6	547		
24	494.071	1.2915	1032.0	29.0	90	6.5	6.8										
25	536.109	1.2825	1020.0	28.7	88	6.5	6.8										
26	477.420	0.8471	600.0	17.3	88	6.5	6.6										
27	0.000	0.4079	276.0	8.8	90	6.7	6.8										
28	0.000	0.7801	528.0	15.8	86	6.6	7.2										
TOT.	8346.766	25.7326	19884.0	564.7					1206		4166		366		3580		
AVG	463.709	0.9190	710.1	20.2	88			15.4	151	53.2	521	4.7	46	45.1	447	18.2	

Facility Name/Location if different

NAME StarKist Samoa Inc.

ADDRESS P.O.Box 368
Pago Pago, American Samoa
96799

FACILITY

LOCATION

DISCHARGE MONITORING REPORT (DMR)

(2-16)	(17-19)
AS 0000019	001
PERMIT NUMBER	DISCHARGE NUMBER

OMB No. 2040-0004
Expires 3-31-88

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	93	03	01	TO	93	03	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
Flow	SAMPLE MEASUREMENT	1.0862	1.5191	mgd					0	continous	
	PERMIT REQUIREMENT		2.9								
BOD	SAMPLE MEASUREMENT				252	289.8	327.7		0	2/mo	composite
	PERMIT REQUIREMENT										
TSS	SAMPLE MEASUREMENT	667	884	lbs/day	33.5	59.4	76.6	mg/l	0	2/wk	composite
	PERMIT REQUIREMENT	2653	6673		N/A		N/A				
Oil & Grease	SAMPLE MEASUREMENT	254	539	lbs/day	5.6	22.7	42.8	mg/l	0	2/wk	grab
	PERMIT REQUIREMENT	675	1688		N/A		N/A				
TP	SAMPLE MEASUREMENT	110	196	lbs/day	4.4	9.8	15.6	mg/l	0	2/wk	composite
	PERMIT REQUIREMENT	192	309		N/A		N/A				
TN	SAMPLE MEASUREMENT	827	994	lbs/day	64.4	74	85.1	mg/l	0	2/wk	composite
	PERMIT REQUIREMENT	1200	2100		N/A		N/A				
Total Ammonia	SAMPLE MEASUREMENT				15.3	20.1	24.7	mg/l	0	1/wk	composite
	PERMIT REQUIREMENT				N/A	N/A	N/A				

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

Maurice W. Callaghan
General Manager

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 (Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years.)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE		DATE		
684	644-4231	93	05	27
AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Facility Name/Location (if different)

NAME StarKist Samoa Inc.

ADDRESS P.O. Box 368
Pago Pago, American Samoa
96799

FACILITY

LOCATION

DISCHARGE MONITORING REPORT (DMR)

OMB No. 2040-0004
Expires 3-31-88

(2-16) PERMIT NUMBER	(17-19) DISCHARGE NUMBER
AS 0000019	001

MONITORING PERIOD

	YEAR (20-21)	MO (22-23)	DAY (24-25)		YEAR (26-27)	MO (28-29)	DAY (30-31)
FROM	93	03	01	TO	93	03	31

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
Temp	SAMPLE MEASUREMENT				76	85	90	°F	0	continous	
	PERMIT REQUIREMENT					90	95				
pH	SAMPLE MEASUREMENT				6.5		7.3		0	continous	
	PERMIT REQUIREMENT				6.5		8.6				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
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	PERMIT REQUIREMENT										
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	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Maurice W. Callaghan General Manager	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 (Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years)	[signature]	684	644-4231	93	05	27
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Wastewater Summary Report for the Month of March 1993

Date	Production Tons	Flow mgd	Alum #/day	Poly #/day	Max Temp F	pH Limits Lo	pH Limits Hi	Oil & Grease Eff mg/l	Oil & Grease Total #/day	TSS Eff mg/l	TSS Total #/day	TP Eff mg/l	TP Total #/day	TN Eff mg/l	TN Total #/day	Tot Ammonia Eff mg/l	BOD Eff mg/l
1	486.029	1.0778	840.0	23.3	84	6.6	6.8										
2	486.865	1.4059	1116.0	30.9	88	6.5	6.8	16.6	194	70.0	818	10.0	117	70.8	828	15.9	
3	530.117	1.4767	1140.0	31.5	84	6.7	7.1	23.0	282	72.0	884	8.4	103	64.4	791		
4	527.404	1.2094	960.0	26.8	88	6.7	7.0										
5	501.477	0.9577	696.0	20.2	87	6.6	7.0										
6	0.000	0.4389	300.0	9.5	86	6.5	6.7										
7	0.000	0.5288	384.0	11.0	84	6.9	7.0										
8	485.283	0.9788	732.0	20.8	90	6.9	7.1										
9	500.079	1.0091	828.0	23.3	85	6.5	6.8	25.0	209	47.5	399	10.6	89	78.7	660	24.7	
10	518.917	1.5138	1176.0	33.1	86	6.6	6.9	42.8	539	54.0	680	15.6	196	69.1	870		252.0
11	533.215	1.2976	984.0	28.0	84	6.6	6.9										
12	436.137	0.9444	684.0	20.2	86	6.7	6.9										
13	0.000	0.3854	276.0	8.8	84	6.7	7.1										
14	0.000	0.0303	18.0	1.0	87	7.1	7.2										
15	0.000	0.7214	552.0	15.8	84	7.2											
16	497.836	1.2739	960.0	26.8	84	6.7	7.0										
17	533.173	1.2783	972.0	27.4	84	6.6	7.0	21.1	224	66.5	707	9.5	101	85.1	905	24.0	
18	525.634	1.3085	1008.0	28.4	86	6.5	7.0	41.2	448	76.6	834	8.2	90	77.5	843		
19	490.664	1.1641	936.0	26.5	86	6.7	7.0										
20	441.069	1.0854	840.0	23.6	86	6.7	7.0										
21	0.000	1.0783	864.0	23.6	89	6.7	7.3										
22	496.138	1.2430	900.0	25.2	88	6.8	7.2										
23	480.268	1.2251	924.0	26.1	86	6.9	7.0										
24	471.648	1.2593	960.0	26.5	86	6.8	7.3	11.3	118	51.0	534	10.0	105	80.2	840	20.7	327.7
25	425.337	1.4208	1104.0	30.2	80	6.7	6.9	5.6	66	33.5	396	4.4	52	69.0	815		
26	349.697	1.4661	1128.0	30.9	86	6.8	7.0										
27	208.062	1.0688	852.0	23.6	86	6.9	7.1										
28	0.000	0.7398	576.0	17.0	88	6.9	7.0										
29	415.135	1.3041	1020.0	29.0	85	6.8	7.2	27.0	293	70.5	765	12.0	130	66.4	720	15.3	
30	512.186	1.5191	1200.0	33.0	83	6.7	7.3	13.0	164	52.0	657	9.0	114	78.7	994		
31	489.541	1.2627	972.0	27.4	84	6.6	7.0										
TOT.	11341.911	33.6733	25902.0	729.4					2539		6673		1096		8266		
AVG	472.580	1.0862	835.5	23.5	86			22.7	254	59.4	667	9.8	110	74.0	827	20.1	

StarKist Samoa, Inc.

February 25, 1993

Mr. Norman Lovelace
OPINAP (E-4)
U.S. EPA Region 9
75 Hawthorne Street
San Francisco, CA 94105

Mr. Togipa Tausaga
ASEPA
Office of the Governor
American Samoa Government
Pago Pago, American Samoa 96799

Gentlemen:

Re: Discharge Monitoring Report for the Months of November, December, 1992 and January 1993 under NPDES No. 0000019 as issued to Starkist Samoa, Inc.

Please find attached StarKist Samoa's Discharge Monitoring Report covering the months of November, December, 1992 and January 1993.

Sincerely,

MAURICE W. CALLAGHAN
General Manager

MC\ht:npdes\samoa

Attachments

cc: Ms. Sheila Wiegman
Mr. Ralph Ward
Mr. Norman Wei
Mr. William Adams

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME: StarKist Samoa, Inc.

ADDRESS: P.O. Box 368
Pago Pago, American Samoa
96799

FACILITY

LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

(2-16) PERMIT NUMBER: AS 0000019

(17-19) DISCHARGE NUMBER: 001

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	92	11	01	TO	92	11	30
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

Form Approved
OMB No. 2040-0004
Expires 3-31-88

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-76)
Flow	SAMPLE MEASUREMENT	0.1238	1.3009	MGD					0	continuous	recorder
	PERMIT REQUIREMENT		2.9								
BOD	SAMPLE MEASUREMENT				163	182	200.7	mg/l	0	2/m0.	composit
	PERMIT REQUIREMENT				N/A		N/A				
TSS	SAMPLE MEASUREMENT	571	820	lbs/day	45.5	59.5	83.5	mg/l	0	2/wk	composite
	PERMIT REQUIREMENT	2653	6673		N/A		N/A				
Oil & Grease	SAMPLE MEASUREMENT	123	176	lbs/day	6.1	12.9	18.9		0	2/wk	grab
	PERMIT REQUIREMENT	675	1688		N/A		N/A				
TP	SAMPLE MEASUREMENT	45	73	lbs/day	2.6	4.6	6.7	mg/l	0	2/wk	composit
	PERMIT REQUIREMENT	192	309		N/A		N/A				
TN	SAMPLE MEASUREMENT	512	766	lbs/day	30.1	53.5	83.5	mg/l	0	2/wk	composit
	PERMIT REQUIREMENT	1200	2100		N/A		N/A				
Total Ammonia	SAMPLE MEASUREMENT				17.5	23.2	33.2	mg/l	0	1/wk	composit
	PERMIT REQUIREMENT						133				

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

Maurice Callaghan
General Manager
TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years.)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE 684 — NUMBER 644 4231

DATE: YEAR 93 — MO 02 — DAY 25

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME: StarKist Samoa, Inc.

ADDRESS: P.O.Box 368
Pago Pago, American Samoa
96799

FACILITY

LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

(2-16)	(17-19)
AS 0000019	001
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MO	DAY		YEAR	MO	DAY
FROM	92	11	01	TO	92	11	30
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

Form Approved
OMB No. 2040-0004
Expires 3-31-88

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
Temperature	SAMPLE MEASUREMENT				70	80	90	°F	0	continous	
	PERMIT REQUIREMENT					90	95				
pH	SAMPLE MEASUREMENT				6.5		7.5		0	continous	
	PERMIT REQUIREMENT				6.5		8.6				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE		DATE		
Maurice Callaghan General Manager	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. *(Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years.)*		AREA CODE	NUMBER	YEAR	MO	DAY
TYPED OR PRINTED			684-	644 4231	93	02	25

COMMENT AND EXPLANATION OF ANY VIOLATIONS *(Reference all attachments here)*

Wastewater Summary Report for the Month NOVEMBER 1992

Date	Production Tons	Flow mgd	Alum #/day	Poly #/day	Max Temp F	pH Limits Lo	pH Limits Hi	Oil & Grease Eff mg/l	Oil & Grease Total #/day	TSS Eff mg/l	TSS Total #/day	TP Eff mg/l	TP Total #/day	TN Eff flr	TN Total #/day	Tot Ammonia Eff mg/l	BOD Eff mg/l
1	0.000	0.6111	480.0	13.9	78	6.7	7.0										
2	441.883	1.0432	840.0	23.3	80	6.5	6.8										
3	475.023	1.2181	960.0	26.5	80	6.5	7.0	16.0	162	51.0	517	3.0	31	41.6	421	17.5	
4	477.219	1.2421	984.0	27.1	80	6.5	7.1	11.6	120	55.3	571	3.4	35	30.1	311		
	486.651	0.9553	696.0	19.5	80	6.8	7.3										
	442.336	1.0081	816.0	22.1	82	6.5	7.2										
7	0.000	0.4237	336.0	9.5	90	7.0	7.2										
8	0.000	0.4172	312.0	9.1	81	6.7	7.0										
9	458.597	1.0034	792.0	22.1	78	6.6	7.2										
10	466.908	1.0763	804.0	22.1	80	6.5	7.2	18.9	169	67.5	604	2.6	23	37.1	332	33.2	
11	476.036	1.0693	780.0	21.7	80	6.5	7.0										
12	507.023	1.1231	864.0	23.6	78	6.6	7.2	13.4	125	75.3	704	4.9	46	52.5	490		
13	459.459	0.9352	780.0	21.1	78	6.5	7.3										
14	0.000	0.1238	96.0	3.2	80	6.6	7.0										
15	0.000	0.4867	348.0	10.1	78	6.7	6.9										
16	468.110	1.0971	816.0	22.7	80	6.5	6.7										
17	442.799	1.1492	876.0	23.9	79	6.6	6.9	18.4	176	47.5	454	3.6	34	36.8	352	21.7	200.7
18	517.513	1.3009	984.0	26.8	82	6.7	7.3	6.1	66	45.5	492	6.7	73	68.3	739		
19	544.092	1.1360	888.0	24.6	82	6.9	7.3										
20	484.120	0.9000	672.0	18.9	80	7.0	7.4										
21	0.000	0.2414	204.0	5.0	88	7.3	7.4										
22	0.000	0.4901	360.0	10.4	82	7.4	7.5										
23	485.183	0.9818	744.0	20.5	87	6.9	7.3	9.1	74	50.0	408	6.3	51	83.5	682	21.9	163.0
24	515.915	1.1816	900.0	24.6	86	7.0	7.1	9.8	96	83.5	820	6.6	65	78.0	766	21.7	
25	523.996	0.9370	744.0	20.5	86	6.5	7.0										
26	0.000	0.2441	216.0	5.7	90	6.8	6.9										
27	0.000	0.1991	144.0	4.7	88	6.7	7.0										
28	0.000	0.1991	156.0	5.0	87	6.9	7.1										
29	0.000	0.5730	420.0	12.0	89	6.8	7.2										
30	485.363	1.2875	984.0	26.8	82	6.5	7.0										
TOT	9158.226	24.6545	18996.0	527.0					988		4570		357		4093		
AVG	482.012	0.8218	633.2	17.6	80			12.9	123	59.5	571	4.6	45	53.5	512	23.2	

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME: STarKist Samoa, Inc

ADDRESS: P.O. Box 368
Pago Pago , American Samoa
96799

FACILITY

LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004
Expires 3-31-88

(2-16) PERMIT NUMBER	(17-19) DISCHARGE NUMBER
AS 0000019	001

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	92	12	01	TO	92	12	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
Flow	SAMPLE MEASUREMENT	0.8222	1.3062	MGD					0	conti-nous	recorder
	PERMIT REQUIREMENT		2.9								
BOD	SAMPLE MEASUREMENT				371	533	669	mg/l	0	2/mo	composite
	PERMIT REQUIREMENT				N/A		N/A				
TSS	SAMPLE MEASUREMENT	583	1048	lbs/day	47.5	62.1	96.5	mg/l	0	2/wk	composite
	PERMIT REQUIREMENT	2653	6673		N/A		N/A				
Oil & Grease	SAMPLE MEASUREMENT	140	347	lbs/day	4.0	15.6	45.2	mg/l	0	2/wk	grab
	PERMIT REQUIREMENT	675	1688		N/A		N/A				
TP	SAMPLE MEASUREMENT	41	51	lbs/day	3.4	4.5	5.7	mg/l	0	2/wk	composit
	PERMIT REQUIREMENT	192	309		N/A		N/A				
TN	SAMPLE MEASUREMENT	617	945	lbs/day	27.2	67.2	90.2	mg/l	0	2/wk	composit
	PERMIT REQUIREMENT	1200	2100		N/A		N/A				
Total Ammonia	SAMPLE MEASUREMENT				10.6	26	44.4	mg/l	0	1/wk	composite
	PERMIT REQUIREMENT						133				

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Maurice Callaghan General Manager	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN, AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. *(Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years.)*		684 - 644 4231		93	02	25
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS *(Reference all attachments here)*

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if different)*

NAME: StarKist Samoa, Inc.

ADDRESS: P.O. Box 368
Pago Pago, American Samoa
96799

FACILITY

LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM *(NPDES)*

DISCHARGE MONITORING REPORT *(DMR)*

(2-16) PERMIT NUMBER	*(17-19)* DISCHARGE NUMBER
AS 0000019	001

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	92	12	01	TO	92	12	31
	(20-21)	*(22-23)*	*(24-25)*		*(26-27)*	*(28-29)*	*(30-31)*

Form Approved
OMB No. 2040-0004
Expires 3-31-88

NOTE: Read instructions before completing this form.

PARAMETER *(32-37)*		*(3 Card Only)* QUANTITY OR LOADING *(46-53)* AVERAGE	*(54-61)* MAXIMUM	UNITS	*(4 Card Only)* QUALITY OR CONCENTRATION *(38-45)* MINIMUM	*(46-53)* AVERAGE	*(54-61)* MAXIMUM	UNITS	NO. EX *(62-63)*	FREQUENCY OF ANALYSIS *(64-68)*	SAMPLE TYPE *(69-70)*
Temperature	SAMPLE MEASUREMENT				77	82	88	°F	0	continous	
	PERMIT REQUIREMENT					90	95				
pH	SAMPLE MEASUREMENT				6.5		7.5		0	continous	
	PERMIT REQUIREMENT				6.5		8.6				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE		DATE		
Maurice Callaghan General Manager	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. *(Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years.)*	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	684 644 4231	93	02	25
TYPED OR PRINTED		AREA CODE / NUMBER	YEAR	MO	DAY	

COMMENT AND EXPLANATION OF ANY VIOLATIONS *(Reference all attachments here)*

Wastewater Summary Report for the Month of December 1992

Date	Productic Tons	Flow mgd	Alum #/day	Poly #/day	Max Temp F	pH Limits Lo	Hi	Oil & Grease Eff mg/l	Total #/day	TSS Eff mg/l	Total #/day	TP Eff mg/l	Total #/day	TN Eff mg/l	Total #/day	Tot Ammonia Eff mg/l	BOD Eff mg/l
1	521.294	0.9254	720.0	20.8	81	6.5	7.0	45.2	347	53.0	408	5.3	41	90.2	694	27.4	
2	511.055	1.1252	876.0	23.6	83	6.5	6.8	12.3	115	52.0	487	4.3	40	84.1	787	44.4	
3	527.931	1.0985	840.0	23.0	85	6.5	6.9										
4	461.049	0.9108	696.0	19.5	83	6.5											
5	0.000	0.3559	276.0	8.2	82	6.7	6.8										
6	0.000	0.5580	456.0	12.6	83	6.6	6.7										
7	487.681	0.9616	744.0	21.4	86	6.5	6.6										
8	497.630	1.1388	888.0	24.6	83	6.8	7.1	11.7	111	50.0	474	4.2	39	63.1	598	20.7	371
9	514.439	1.0568	840.0	23.3	85	6.7	7.3	6.3	56	47.5	417	4.9	43	61.6	541	21.4	447
10	538.514	1.1304	876.0	23.6	86	7.0	7.3										
11	463.492	0.7793	600.0	16.7	86	6.8	7.2										
12	0.000	0.2110	180.0	5.0	80	7.0	7.5										
13	0.000	0.6773	552.0	15.0	84	6.6	7.1										
14	489.696	1.0916	864.0	23.6	86	7.0	7.3										
15	489.541	1.1566	900.0	25.2	85	6.9	7.3	10.8	104	55.0	529	3.4	33	65.0	625	33.8	669
16	494.076	1.0850	876.0	25.2	84	6.6	7.2	20.3	183	82.0	740	5.7	51	55.8	503	28.8	644
17	519.427	1.0644	852.0	23.6	84	7.1	7.4										
18	429.342	0.9004	720.0	20.2	86	6.8	7.2										
19	0.000	0.1718	132.0	4.7	84	7.0											
20	0.000	0.5015	384.0	11.0	88	6.5	7.2										
21	473.946	1.0034	888.0	24.6	84	7.0	7.5										
22	496.978	1.0797	900.0	24.9	83	6.8	7.0										
23	456.165	0.9930	756.0	21.4	81	6.9	7.2										
24	0.000	0.3572	240.0	8.2	83	6.9	7.0										
25	0.000	0.3341	240.0	7.9	85	7.0											
26	0.000	0.2462	180.0	6.3	84	7.0	7.1										
27	0.000	0.5816	456.0	13.2	83	6.6	6.8										
28	455.157	1.2232	984.0	27.1	84	6.9	7.5	15.7	159	69.0	702	3.5	36	27.2	277	10.6	
29	486.784	1.3062	1032.0	28.4	88	7.0	7.4	13.9	151	96.5	1048	4.7	51	87.0	945		
30	465.940	0.9840	744.0	816.0	88	6.9	7.3	4.0	33	54.0	442	4.7	39	70.7	579	20.6	
31	0.000	0.4779	336.0	10.1	84	7.1	7.4										
TOT.	9780.137	25.4868	20028.0	1358.9					1258		5246		372		5549		
AVG	489.007	0.8222	646.1	43.8	84			15.6	140	62.1	583	4.5	41	67.2	617	26.0	

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if different)*

NAME: StarKist Samoa Inc.

ADDRESS: P.O.Box 368
Pago Pago, American Samoa
96799

FACILITY

LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM *(NPDES)*

DISCHARGE MONITORING REPORT *(DMR)*

(2-16)	*(17-19)*
AS 0000019	001
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MO	DAY		YEAR	MO	DAY
FROM	93	01	01	TO	93	01	31
	(20-21)	*(22-23)*	*(24-25)*		*(26-27)*	*(28-29)*	*(30-31)*

Form Approved
OMB No. 2040-0004
Expires 3-31-88

NOTE: Read instructions before completing this form.

PARAMETER *(32-37)*		*(3 Card Only)* QUANTITY OR LOADING *(46-53)* AVERAGE	*(54-61)* MAXIMUM	UNITS	*(4 Card Only)* QUALITY OR CONCENTRATION *(38-45)* MINIMUM	*(46-53)* AVERAGE	*(54-61)* MAXIMUM	UNITS	NO. EX *(62-63)*	FREQUENCY OF ANALYSIS *(64-68)*	SAMPLE TYPE *(69-70)*
Flow	SAMPLE MEASUREMENT	0.1350	1.2697	MGD					0	continous	recorder
	PERMIT REQUIREMENT		2.9								
BOD	SAMPLE MEASUREMENT				166	308.2	450	mg/l	0	2/mo.	composit
	PERMIT REQUIREMENT				N/A		N/A				
TSS	SAMPLE MEASUREMENT	614	1071	lbs/day	34	65.3	111	mg/l	0	2/wk	composite
	PERMIT REQUIREMENT	2653	6673		N/A		N/A				
Oil & Grease	SAMPLE MEASUREMENT	188	514	lbs/day	6.7	19.9	52.3	mg/l	0	2/wk	composit
	PERMIT REQUIREMENT	675	1688		N/A		N/A				
TP	SAMPLE MEASUREMENT	33	42	lbs/day	2.1	3.5	4.7	mg/l	0	2/wk	composit
	PERMIT REQUIREMENT	192	309		N/A		N/A				
TN	SAMPLE MEASUREMENT	594	715	lbs/day	43.4	63.2	91.1	mg/l	0	2/wk	composite
	PERMIT REQUIREMENT	1200	2100		N/A		N/A				
Total Ammonia	SAMPLE MEASUREMENT				17.1	20.3	24.2	mg/l	0	1/wk	composite
	PERMIT REQUIREMENT						133				

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

Maurice Callaghan
General Manager

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. *(Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years.)*

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE		DATE		
684	644 4231	93	02	25
AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS *(Reference all attachments here)*

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if different)*

NAME ~~StarKist SAmoa, Inc~~

ADDRESS ~~P.O. Box 368~~
~~Pago Pago, American Samoa~~
~~96799~~

FACILITY

LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM *(NPDES)*

DISCHARGE MONITORING REPORT *(DMR)*

Form Approved
OMB No. 2040-0004
Expires 3-31-88

(2-16) PERMIT NUMBER	*(17-19)* DISCHARGE NUMBER
AS 0000019	001

MONITORING PERIOD	YEAR	MO	DAY		YEAR	MO	DAY
FROM	93 *(20-21)*	01 *(22-23)*	01 *(24-25)*	TO	93 *(26-27)*	01 *(28-29)*	31 *(30-31)*

NOTE: Read instructions before completing this form.

PARAMETER *(32-37)*		*(3 Card Only)* QUANTITY OR LOADING *(46-53)* AVERAGE	*(54-61)* MAXIMUM	UNITS	*(4 Card Only)* QUALITY OR CONCENTRATION *(38-45)* MINIMUM	*(46-53)* AVERAGE	*(54-61)* MAXIMUM	UNITS	NO. EX *(62-63)*	FREQUENCY OF ANALYSIS *(64-68)*	SAMPLE TYPE *(69-70)*
Temperature	SAMPLE MEASUREMENT				74	85	90		0	continous	
	PERMIT REQUIREMENT					90	95				
pH	SAMPLE MEASUREMENT				6.5		7.4		0	continous	
	PERMIT REQUIREMENT				6.5		8.6				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Maurice Callaghan General Manager	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. *(Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years.)*		684	644 4231	93	02	25
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS *(Reference all attachments here)*

Wastewater Summary Report for the Month of January 1993

Date	Productic Tons	Flow mgd	Alum #/day	Poly #/day	Max Temp F	pH Limits Lo	pH Limits Hi	Oil & Grease Eff mg/l	Oil & Grease Total #/day	TSS Eff mg/l	TSS Total #/day	TP Eff mg/l	TP Total #/day	TN Eff mg/l	TN Total #/day	Tot Ammonia Eff mg/l	BOD Eff mg/l
1	0.000	0.2520	216.0	6.3	86	6.8	7.1										
2	0.000	0.1350	96.0	3.2	87	7.0	7.2										
3	0.000	0.8972	696.0	20.2	89	7.0	7.3										
4	458.465	1.0712	864.0	24.6	85	6.6	7.1										
5	414.355	1.2246	1080.0	29.9	88	6.5	7.2										
6	466.837	1.1854	912.0	25.2	88	6.6	7.2	15.4	152	90.5	892	4.3	42	57.4	566	24.2	
7	486.882	1.1602	888.0	25.8	90	6.7	7.3	14.6	141	111.0	1071	4.0	38	58.0	560		
8	445.918	0.8286	660.0	18.9	86	7.0	7.4										
9	0.000	0.2402	180.0	6.3	90	7.1											
10	0.000	0.6232	492.0	14.2	86	7.3	7.4										
11	466.196	1.1579	900.0	25.2	84	6.6	7.4										
12	508.828	1.1817	936.0	26.8	87	6.8	7.3	52.3	514	49.0	482	3.6	35	56.4	554	21.6	450
13	527.686	1.1229	912.0	25.2	83	6.8	7.2	17.3	161	37.5	350	2.8	26	76.6	715		
14	540.313	1.2528	1008.0	27.7	88	7.0	7.3										
15	493.520	0.9749	780.0	21.4	87	6.9	7.3										
16	0.000	0.4752	336.0	10.7	90	6.7	7.3										
17	0.000	0.5966	480.0	14.2	86	6.6	7.0										
18	482.491	1.1396	888.0	24.6	90	7.0	7.3										
19	485.536	1.1917	960.0	26.5	86	6.9	7.4										
20	517.879	1.2697	1020.0	25.9	88	6.9	7.3	6.7	70	51.0	539	3.5	37	55.8	589	18.4	
21	485.535	1.1889	936.0	26.5	90	7.0	7.3										
22	474.440	0.9382	756.0	21.1	87	6.8	7.2	17.0	132	96.7	754	4.7	37	91.1	711		
23	0.000	0.4291	300.0	9.5	90	7.0	7.2										
24	0.000	0.8952	696.0	17.9	90	6.5	6.9										
25	487.902	1.0406	840.0	21.3	84	6.5	6.7										
26	483.164	1.0557	864.0	23.6	85	6.9	7.1	19.1	168	34.0	298	2.8	24	43.4	381	17.1	
27	466.160	1.2100	984.0	27.7	89	6.9	7.2	16.5	166	52.7	530	2.1	21	67.0	674		166
28	427.293	1.1743	912.0	25.2	87	7.1	7.4										
29	447.542	1.0240	876.0	24.6	88	7.2	7.4										
30	0.000	0.5048	384.0	11.0	88	6.6	6.8										
31	0.000	0.3732	288.0	9.5	86	7.2	7.3										
TOT.	9566.942	27.8146	22140.0	620.7					1505		4916		260		4750		
AVG	478.347	0.8972	714.2	20.0	87			19.9	188	65.3	614	3.5	33	63.2	594	20.3	308.2

StarKist Samoa, Inc.

An Affiliate of StarKist Seafood Company

PO Box 368
o Pago, TuTuila Islands
erican Samoa 96799
Telephone: 684-644-4231
Facsimile: 684-644-2440

Copy to Mike

September 28, 1992

Mr. Pati Faiai
American Samoa Environmental Quality Commission
Office of the Governor
American Samoa Government
Pago Pago, American Samoa 96799

Dear Mr. Faiai:

Re: Monitoring Results for the Month of August 1992 under the U. S. EPA's Administrative Order to StarKist Samoa

Attached are StarKist Samoa's monitoring results for the month of August 1992. StarKist Samoa met all effluent limitations.

As General Manager of StarKist Samoa, I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

Sincerely,

STARKIST SAMOA, INC.

MAURICE W. CALLAGHAN
General Manager

/tl

Attachment

cc: Mr. Norman Lovelace - US EPA
Ms. Sheila Wiegman - ASEPA
Mr. Ralph A. Ward
Mr. Norman Wei
Mr. William Adams

Wastewater Summary Report for the Month of August 1992

Date	Production Tons	Flow mgd	Alum #/day	Poly #/day	Max Temp F	pH Limits Lo	pH Limits Hi	Oil & Grease Eff mg/l	Oil & Grease Total #/day	TSS Eff mg/l	TSS Total #/day	TP Eff mg/l	TP Total #/day	TN Eff mg/l	TN Total #/day	Total Ammonia Eff mg/l
1	412.027	0.9057	720	16.8	79	7.1	7.3									
2		0.4310	324	7.3	87	7.2	7.3									
3	426.982	1.0605	852	20.5	82	7.0	7.2									
4	424.752	1.1949	996	25.2	84	6.8	7.1	39.2	390	88.0	874	4.44	44	86.3	858	44.0
5	444.493	1.3573	1080	27.4	84	7.1	7.2									
6	489.301	1.3030	1104	28.0	79	6.9	7.1									
7	436.440	1.3878	1104	28.4	78	7.0	7.3	6.0	69	69.5	802	5.64	65	87.9	1014	
8	404.064	1.0328	792	20.2	84	6.6	7.2									
9		0.7168	600	15.1	84	6.8	7.0									
10	425.943	1.2330	1008	25.8	78	6.6	6.9									
11	469.155	1.0199	780	18.9	76	6.7	7.3	32.8	278	149.5	1268	4.63	39	93.3	791	41.9
12	433.534	1.1734	900	25.2	78	7.0	7.2									
13	457.677	1.1528	888	23.6	77	6.5	7.2									
14	416.830	1.1826	912	23.9	78	6.5	6.7	21.7	213	47.5	467	4.40	43	76.9	756	
15	201.888	0.8197	672	17.3	86	6.6	6.9									
16		0.7122	600	15.1	78	6.5	7.0									
17	426.690	1.0652	840	22.7	80	6.5	6.7									
18	438.016	1.1541	912	24.6	74	6.6	7.2	32.5	312	124.0	1190	3.79	36	73.5	705	31.8
19	460.959	1.1771	960	23.6	75	7.0	7.4									
20	454.876	1.2270	996	27.1	78	6.8	7.3									
21	440.790	1.1517	936	25.2	80	6.6	7.1	24.4	234	65.0	623	2.88	28	90.6	868	
22	361.635	1.0815	876	23.6	80	6.9	7.3									
23		1.0017	828	23.0	88	6.6	7.0									
24	431.127	1.5388	1248	33.4	80	7.1	7.4									
25	472.930	1.1293	960	25.8	80	7.0	7.3									
26	457.866	1.1648	984	26.5	80	7.0	7.3									
27	472.099	1.1520	948	25.8	82	7.2	7.3									
28	448.660	1.2351	1020	27.1	80	6.9	7.4	59.0	606	135.5	1392	3.01	31	62.2	639	31.2
29	437.922	1.0061	816	22.7	82	6.8	7.2	14.9	125	86.5	724	2.72	23	67.5	565	
30		0.6889	540	13.2	83	7.1	7.3									
31	438.810	1.1520	936	23.6	80	7.0	7.2									
TOT	11185.466	33.6087	27132	706.6				230.5	2227	765.5	7340	31.5	309	638.2	6196	
Max	489.301	1.5388	1248	33.4	88	7.2	7.4	59.0	606	149.5	1392	5.6	65	93.3	1014	44.0
AVG	430.210	1.0842	875	22.8	80			28.8	278	95.7	917	3.9	39	79.8	775	

DEC 0 9 1992

StarKist Samoa, Inc.

P.O. BOX 368 PAGO PAGO, AMERICAN SAMOA 96799

(684) 644-4231
FAX NO: (684) 644-2440

December 1, 1992

Mr. Pati Faiai
American Samoa Environmental Quality Commission
Office of the Governor
American Samoa Government
Pago Pago, American Samoa 96799

Dear Mr. Faiai:

Re: Monitoring Results for the Months of September and October under the U. S. EPA's Administrative Order to StarKist Samoa

Attached are StarKist Samoa's monitoring results for the months of September and October 1992. StarKist Samoa met all effluent limitations.

As General Manager of StarKist Samoa, I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

Sincerely,

STARKIST SAMOA, INC.

MAURICE W. CALLAGHAN
General Manager

/tl

Attachments

cc: Mr. Norman Lovelace - US EPA
Ms. Sheila Wiegman - ASEPA
Mr. Ralph A. Ward
Mr. Norman Wei
Mr. William Adams

Wastewater Summary Report for the Month of September 1992

Date	Production Tons	Flow mgd	Alum #/day	Poly #/day	Max Temp F	pH Limits Lo	pH Limits Hi	Oil & Grease Eff mg/l	Oil & Grease Total #/day	TSS Eff mg/l	TSS Total #/day	TP Eff mg/l	TP Total #/day	TN Eff mg/l	TN Total #/day	Total Ammonia Eff mg/l
1	499.656	1.2155	1,008	27.1	79	6.9	7.3	12.3	124	51.0	516	3.27	33	70.8	716	30.9
2	467.347	1.1697	960	25.8	78	6.9	7.2									
3	485.862	1.1711	996	26.8	80	6.9	7.2	15.2	148	65.5	638	3.83	37	70.7	689	
4	442.518	1.2832	1,082	28.4	76	7.1	7.2									
5	494.351	1.0502	936	25.2	80	7.0	7.2									
6		0.4421	336	9.5	83	6.8	7.0									
7		0.5849	420	12.6	78	6.5	6.8									
8	455.454	1.2012	1,056	28.4	82	6.6	7.1									
9	490.215	1.0701	936	25.2	76	6.5	7.0	21.0	187	41.5	369	5.51	49	92.7	825	30.2
10	497.259	1.2872	1,080	29.0	74	6.6	7.3									
11	463.988	1.3329	1,140	30.9	80	6.5	7.1	8.6	95	49.0	543	3.05	34	74.8	829	
12	434.986	1.1569	960	26.5	80	6.8	7.3									
13		0.9035	816	15.8	85	7.0	7.3									
14	449.780	1.2277	1,020	27.7	80	6.7	7.2									
15	490.135	1.4347	1,176	32.0	77	6.6	7.0	9.9	118	69.0	823	4.54	54	70.8	845	24.4
16	472.939	1.3608	1,176	31.5	82	6.6	7.2	4.0	45	101.5	1,149	2.03	23	44.9	508	
17	458.356	1.4161	1,200	32.4	82	6.9	7.3									
18	456.151	1.1658	984	26.8	76	6.5	7.3									
19		0.3277	300	8.2	88	6.7										
20		0.1289	108	3.2	80	7.0										
21		0.1597	144	4.7	85	6.6										
22		0.2190	180	5.6	80	7.2										
23		0.1593	120	3.8	79	7.4										
24		0.3410	216	6.3	78	7.4										
25																
26		0.0554	36	1.3	80	6.9	7.3									
27		0.5783	420	12.0	80	6.6	7.3									
28	404.249	1.1200	912	24.6	88	6.9	7.3									
29	362.334	1.0922	984	26.0	78	6.5	7.3									
30	433.937	1.3706	1,176	31.5	79	6.5	7.3									
TOT.	8102.918	28.0057	21,878	588.8				71.0	718	377.5	4,038	22.2	230	424.7	4411	
Max	499.656	1.4347	1,200	32.4	88	7.4	7.3	21.0	187	101.5	1,149	5.5	54	92.7	845	30.9
AVG	455.162	0.8967	754	20.3	80			11.8	120	62.9	673	3.7	38	70.8	735	

Wastewater Summary Report for the Month of October 1992

Date	Production Tons	Flow mgd	Alum #/day	Poly #/day	Max Temp F	pH Limits Lo	pH Limits Hi	Oil & Grease Eff mg/l	Oil & Grease Total #/day	TSS Eff mg/l	TSS Total #/day	TP Eff mg/l	TP Total #/day	TN Eff mg/l	TN Total #/day	Total Ammonia Eff mg/l
1	444.478	1.1580	1020	27.7	84	6.5	7.0	51.8	499	52	501	6.96	67	77	742	33.7
2	430.375	0.9771	840	22.7	83	6.7	6.9	8.9	72	63	512	3.73	30	89.3	726	
3		0.2618	216	6.3	88	6.5	7.2									
4		0.7065	540	18.6	84	6.6	7.2									
5	408.989	1.0929	900	26.8	78	7.1	7.3									
6	460.922	1.3489	1200	35.3	78	7.0	7.3	15.8	177	74	830	5.09	57	55.4	621	26.9
7	458.736	1.3386	1164	34.7	77	6.8	7.1	43.7	486	69	768	5.5	61	65.5	729	
8	437.194	1.2035	1008	26.8	78	6.6	7.2									
9	443.872	0.8469	600	17.0	78	6.7	7.2									
10		0.3524	276	7.6	87	6.5	7.0									
11		0.7515	552	15.1	84	6.5	6.9									
12	420.075	1.0608	840	23.0	76	7.0	7.3									
13	429.687	1.1291	888	23.6	77	6.7	7.3	5.0	47	36	338	2.91	27	63.2	595	24.1
14	447.827	1.1750	864	23.6	81	6.7	7.2	4.7	46	39.5	386	3.44	34	56.2	549	
15	451.770	1.1850	900	24.6	82	7.0	7.2									
16	418.426	0.8893	684	18.9	81	7.1	7.2									
17		0.3451	264	7.9	90	6.5	6.8									
18		0.5712	432	12.3	82	6.9	7.1									
19	427.777	1.0517	876	23.6	78	6.6	7.1									
20	446.738	1.0897	864	23.6	78	7.0	7.3									
21	415.043	1.0638	840	22.7	80	6.6	7.2	21.5	190	38	336	6.11	54	68.1	602	36.9
22	487.455	1.2289	1032	27.7	80	6.6	7.5	20.5	210	55.5	567	2.39	24	65.8	672	
23	412.506	0.9612	660	18.3	82	6.9	7.2									
24		0.3962	240	7.2	90	7.1										
25		0.4364	324	9.5	84	7.2										
26	442.417	1.1184	864	23.6	80	6.8	7.3									
27	440.845	1.1872	900	24.6	76	6.7	7.0	6.4	63	44.5	439	3.21	32	66.6	658	25.0
28	477.554	1.1717	876	23.9	80	6.7	7.1	24.1	235	48	468	3.35	33	66.4	647	
29	443.133	1.2037	960	25.8	78	6.9	7.2									
30	448.156	1.1805	876	23.6	84	7.1	7.3									
31		0.3656	264	7.9	90	6.7	7.0									
TOT.	9693.875	28.8486	22764	634.5				202.4	2025	519.5	5,145	42.7	419	673.5	6540	
Max	487.455	1.3489	1200	35.3	90	7.2	7.5	51.8	499	74.0	830	7.0	67	89.3	742	36.9
AVG	440.631	0.9306	734	20.5	82			20.2	203	52.0	515	4.3	42	67.4	654	

SEP 1 0 1992

mike

StarKist Samoa, Inc.

An Affiliate of StarKist Seafood Company

PO Box 368
Pago Pago, TuTuila Islands
American Samoa 96799
Telephone: 684-644-4231
Facsimile: 684-644-2440

August 28, 1992

Mr. Pati Faiai
American Samoa Environmental
Quality Commission
Office of the Governor
American Samoa Government
Pago Pago, American Samoa 96799

Dear Mr. Faiai:

Re: Monitoring Results for the Month of July 1992 under the U.S. EPA's Administrative Order to StarKist Samoa

Attached are StarKist Samoa's monitoring results for the month of July 1992. StarKist Samoa met all effluent limitations.

As General Manager of StarKist Samoa, I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

Sincerely,

STARKIST SAMOA, INC.

MAURICE W. CALLAGHAN
General Manager

cc: Mr. Norman Lovelace - US EPA
Ms. Sheila Wiegman - ASEPA
Mr. Ralph A. Ward
Mr. Norman Wei
Mr. William Adams

Attachment

Wastewater Summary Report for the Month of July 1992

Date	Production Tons	Flow mgd	Alum #/day	Poly #/day	Max Temp F	pH Limits Lo	pH Limits Hi	Oil & Grease Eff mg/l	Oil & Grease Total #/day	TSS Eff mg/l	TSS Total #/day	TP Eff mg/l	TP Total #/day	TN Eff mg/l	TN Total #/day	Total Ammonia Eff mg/l
1	404.524	1.2922	1032	21.9	81	7.0	7.3	19.2	206	51.5	553	2.74	29	97.0	1042	
2	426.044	0.9767	720	15.8	79	7.2	7.4									
3		0.3821	300	8.1	88	7.2	7.4									
4		0.2803	204	6.1	82	7.2	7.3									
5		0.3913	288	7.7	77	7.1	7.2									
6	407.997	1.0771	840	18.8	80	6.8	7.0									
7	389.884	1.1485	936	20.3	78	6.5	7.0	14.6	139	69.0	659	3.16	30	110.0	1051	26.3
8	436.185	1.1844	924	20.7	78	6.5	6.8									
9	502.160	1.3089	1068	22.1	76	6.6	7.1									
10	431.602	1.4064	1128	22.7	78	6.5	7.0	8.0	94	35.0	409	3.49	41	49.0	573	
11	426.349	1.0205	816	16.2	80	6.6	7.0									
12		0.7471	576	14.2	86	7.0	7.3									
13	430.965	1.0912	840	18.2	80	6.9	7.2									
14	465.236	1.1064	864	19.2	78	6.5	7.0	11.4	105	47.0	432	3.97	37	64.0	589	41.4
15	427.622	1.0814	804	18.2	76	6.5	7.1									
16	447.293	1.2896	1020	20.9	83	6.6	7.3									
17	478.378	1.2136	1008	23.1	80	6.6	7.1	20.7	209	42.0	424	4.28	43	72.0	727	
18	426.693	1.1322	912	20.3	80	6.5	6.8									
19		0.5955	456	12.2	84	7.1	7.3									
20	446.849	1.0405	840	18.6	77	7.1	7.3									
21	439.764	1.1665	948	20.3	74	7.0	7.2									
22	431.887	1.2940	1020	21.3	78	6.6	7.2	5.7	61	45.0	484	2.61	28	53.0	570	3
23	447.527	1.1088	900	19.2	80	6.8	7.1									
24	452.164	1.1957	984	21.1	80	6.5	7.0									
25	396.494	1.0788	864	19.2	88	6.6	7.1	20.0	179	67.5	606	3.92	35	70.0	628	
26		0.3904	300	8.1	86	7.2	7.3									
27	441.614	1.0166	840	18.6	80	7.2	7.4									
28	461.749	1.2908	1032	21.5	80	7.0	7.3									
29	461.277	1.3167	1056	22.3	78	6.5	7.3	22.0	241	88.5	969	4.18	46	54.0	591	34.0
30	487.979	1.2474	996	19.8	77	7.0	7.3									
31	429.070	0.9591	744	17.2	81	6.8	7.3	35.3	282	63.6	507	3.40	27	50.0	399	
TOT	10997.306	31.8307	25260	553.9												
Max	502.160	1.4064	1128	23.1	88	6.5	7.4	35.3	282	88.5	969	4.28	46	110.0	1051	41.4
AVG	439.892	1.0268	815	17.9	80			17.4	168	56.6	560	3.53	35	68.8	686	

StarKist Samoa Inc.

An Affiliate of StarKist Seafood Company

Heinz

P.O. Box 368
Pago Pago, TuTuila Islands
American Samoa 96799
Telephone: 684-644-4231
Facsimile: 684-644-2440

AUG 1 0 1992

Copy to Mike

July 31, 1992

Mr. Pati Faiai
American Samoa Environmental Quality
Commission
Office of the Governor
American Samoa Government
Pago Pago, American Samoa 96799

Dear Mr. Faiai:

Re: Monitoring Results for the Month of June 1992 under the U.S. EPA's Administrative Order to StarKist Samoa

Attached are StarKist Samoa's monitoring results for the month of June 1992. StarKist Samoa met all effluent limitations.

As General Manager of StarKist Samoa, I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

Sincerely,

STARKIST SAMOA, INC.

MAURICE W. CALLAGHAN
General Manager

/tl

Attachment

cc: Mr. Norman Lovelace - US EPA
Ms. Sheila Wiegman - ASEPA
Ms. Virginia Gibbons - Assistant Attorney General
Mr. Ralph A. Ward
Mr. Norman Wei
Mr. William Adams

Wastewater Summary Report for the Month of June 1992

Date	Production Tons	Flow mgd	Alum #/day	Poly #/day	Max Temp F	pH Limits Lo	pH Limits Hi	Oil & Grease Eff mg/l	Oil & Grease Total #/day	TSS Eff mg/l	TSS Total #/day	TP Eff mg/l	TP Total #/day	TN Eff mg/l	TN Total #/day	Total Ammonia Eff mg/l
1	441.045	0.8580	672	14.2	80	6.7	7.3									
2	467.162	1.2337	960	19.2	82	6.5	7.1	17.4	179	62.5	641	6.6	68	130.0	1334	42.8
3	475.432	1.0494	780	17.2	80	6.7	7.2									
4	458.662	1.3574	1020	19.8	78	6.7	7.2	13.4	151	66.7	753	4.7	53	103.0	1163	52.5
5	457.590	1.2920	960	19.2	78	6.9	7.2									
6	417.419	0.9757	696	15.2	80	7.0	7.2									
7		0.7400	540	11.3	86	7.0	7.1									
8	452.329	1.2733	984	19.8	82	6.8	7.3									
9	464.576	1.1661	840	18.2	78	6.7	7.4	11.8	114	54.5	529	5.7	55	98.0	950	43.1
10	470.179	1.5146	1200	23.3	78	6.8	7.4									
11	488.610	1.2873	996	20.3	77	6.9	7.2									
12	476.485	1.2625	996	21.3	78	6.8	7.2	6.6	69	54.0	567	4.0	42	153.0	1606	54.9
13	427.506	1.1466	888	19.2	82	7.0	7.3									
14		0.6116	480	11.7	84	7.1	7.2									
15	465.843	1.1133	900	19.0	78	7.0	7.2									
16	457.908	1.3198	1032	20.3	76	6.9	7.2									
17	465.476	1.3663	1044	23.3	76	6.6	7.2	19.7	224	81.0	920	2.5	28	70.0	795	34.0
18	470.116	0.9779	768	17.0	78	7.1	7.3									
19	434.731	1.3837	1080	22.3	78	7.1	7.2	21	242	47.5	547	0.9	10	62.9	724	46.9
20	408.788	0.9518	744	16.2	82	7.0	7.3									
21		0.7539	600	13.2	85	6.9	7.3									
22	421.957	1.1731	960	19.2	78	6.6	7.0									
23	442.722	1.2817	1056	21.9	76	6.9	7.2									
24	406.030	1.1959	984	19.8	78	6.9	7.2	8.3	83	114.3	1136	2.5	25	63.2	629	26.9
25	425.426	1.0816	840	18.2	76	7.1	7.4									
26	406.318	1.2552	1020	20.6	78	7.1	7.2	11.2	117	48.0	501	5.2	54	81.1	847	
27	403.522	1.0969	888	19.2	77	7.2	7.4									
28		0.8321	660	14.2	82	7.2	7.3									
29	435.134	1.1059	900	19.4	80	7.1	7.2									
30	445.239	1.0933	864	19.2	79	7.1	7.4	9.6	87	55.5	505	3.3	30	74.7	679	32.5
TOT	11586.205	33.7506	26352													
Max	488.610	1.5146	1200	23.3	86	7.2	7.4	21.0	242	114	1136	7	68	153	1606	54.9
AVG	445.623	1.1250	878	18.4				13.2	127	65	610	4	41	93	970	41.7

StarKist Samoa, Inc.

An Affiliate of StarKist Seafood Company

P.O. Box 368
Pago Pago, TuTuila Islands
American Samoa 96799
Telephone: 684-644-4231
Facsimile: 684-644-2440

JUL 07 1992 Copy to Mike

June 26, 1992

Mr. Pati Faiai
American Samoa Environmental Quality
Commission
Office of the Governor
American Samoa Government
Pago Pago, American Samoa 96799

Dear Mr. Faiai:

Re: Monitoring Results for the Month of May 1992 under the U.S. EPA's Administrative Order to StarKist Samoa

Attached are StarKist Samoa's monitoring results for the month of May 1992. StarKist Samoa met all effluent limitations.

As General Manager of StarKist Samoa, I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

Sincerely,

STARKIST SAMOA, INC.

MAURICE W. CALLAGHAN
General Manager

/tl

Attachment

cc: Mr. Norman Lovelace - US EPA
Ms. Sheila Wiegman - ASEPA
Ms. Virginia Gibbons - Assistant Attorney General
Mr. Ralph A. Ward
Mr. Norman Wei
Mr. William Adams

Wastewater Summary Report for the Month of May 1992

Date	Production Tons	Flow mgd	Alum #/day	Poly #/day	Max Temp F	pH Limits Lo	pH Limits Hi	Oil & Grease Eff mg/l	Oil & Grease Total #/day	TSS Eff mg/l	TSS Total #/day	TP Eff mg/l	TP Total #/day	TN Eff mg/l	TN Total #/day	Total Ammonia Eff mg/l
1	450.693	1.1682	840	18.6	82	6.7	6.9									
2		0.7138	540	12.1	85	6.9	7.1									
3		0.6392	456	11.1	84	6.7	6.9									
4	457.489	1.2689	936	18.6	85	6.8	7.3									
5	421.201	1.5759	1200	25.3	79	6.6	7.1	9.7	127	176	2307	5.1	67	105.0	1376	31.9
6	487.286	1.3664	1032	22.3	82	6.9	7.1									
7	502.324	1.3443	1020	21.3	80	6.7	6.9	4.2	47	73	816	5.1	57	108.0	1207	
8	468.383	1.3910	1056	21.9	86	6.7	7.0									
9		0.7110	528	11.7	90	7.0	7.5									
10		0.9614	720	16.2	82	7.0	7.3									
11	449.115	1.4564	1104	22.7	82	6.9	7.2									
12	476.693	1.2859	960	19.2	80	6.6	7.1	17	182	85.3	912	6.3	67	103.0	1101	
13	460.756	1.5417	1152	21.3	82	7.2	7.4									
14	486.647	1.4167	1080	22.3	82	7.1	7.4	19.7	232	72.5	854	4.3	51	78.1	920	39.8
15	450.962	1.2167	936	18.2	82	6.7	7.1									
16		0.6998	504	13.2	88	6.6	6.9									
17		0.6742	480	11.7	88	6.7	6.9									
18	444.043	1.1158	840	17.2	81	6.9	7.1									
19	470.106	1.4632	1128	23.2	80	6.8	7.2	8	97	44.5	541	3.2	39	77.1	938	21.2
20	507.384	1.3420	1032	22.3	78	6.5	6.9									
21	493.477	1.3406	1020	22.7	80	6.5	7.0	11	123	55	613	4.0	45	90.7	1011	
22	429.430	0.9377	696	14.2	86	6.8	7.1									
23		0.3871	288	6.5	84	6.9	7.0									
24		0.0422	30	0.8	82	6.7	6.9									
25		0.4230	312	7.1	78	6.9	7.2									
26	440.446	1.2662	960	19.2	79	6.7	7.1									
27	468.553	1.1421	864	19.4	79	6.7	6.9	14.5	138	47.5	451	6.2	59	92.7	880	32.8
28	481.994	1.1117	816	16.6	82	6.7	6.9	5.5	51	43	398	5.2	48	93.7	866	
29	428.717	1.0257	780	15.4	86	6.7	7.0									
30		0.4807	360	8.9	86	6.9	7.2									
31		0.5156	408	9.1	82	7.0	7.2									
TOT	9275.699	32.0249	24078	510.3												
Max	507.384	1.5759	1200	25.3	90	7.2	7.5	19.7	232	176.0	2307	6.3	67	108.0	1376	39.8
AVG	463.785	1.0331	777	16.5	83			11.2	125	74.6	862	4.9	54	93.5	1038	

StarKist Samoa, Inc.

An Affiliate of StarKist Seafood Company

P.O. B. 368
Pago Pago, TuTuila Islands
American Samoa 96799
Telephone: 684-644-4231
Facsimile: 684-644-2440

Heinz

FACSIMILE TRANSMISSION

FROM: Maurice W. Callaghan's Office

Transmission#: 674 #Pages: 5 Classification: _____

TO: Norman Lovelace, U. S. Environmental Protection Agencies

LOCATION: San Francisco, CA FAX#: 11/415/744-1605

MESSAGE

Mike
Pat

StarKist Samoa, Inc.

An Affiliate of StarKist Seafood Company

P.O. Box 368
Pago Pago, TuTuila Islands
American Samoa 96799
Telephone: 684-644-4231
Facsimile: 684-644-2440

June 15, 1992

Mr. Pati Faiai
American Samoa Environmental Quality Commission
Office of the Governor
American Samoa Government
Pago Pago, American Samoa 96799

Dear Mr. Faiai:

Re: Monitoring Results for the Month of April 1992 under the U. S. EPA's Administrative Order to StarKist Samoa

Attached are StarKist Samoa's monitoring results for the month of April 1992. StarKist Samoa met all effluent limitations except for the monthly average and daily maximum for total nitrogen.

The monthly average nitrogen loading limit of 1200 pounds was exceeded by 5 percent while the daily maximum limit of 2100 pounds was exceeded on one day (April 30th) by 8 percent.

As stated in StarKist Samoa's March report (dated April 28th) to the agencies, the plant experienced a series of mechanical problems with its fishmeal plant which resulted in higher than normal amount of fish scrap being put through the wastewater treatment plant.

This problem was being corrected throughout the months of March and April with normal operations resuming in early May. Staff will continue to monitor the operation closely to ensure that all the effluent limitations are met in the future.

As General Manager of StarKist Samoa, I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true,

accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

Sincerely,

STARKIST SAMOA, INC.

MAURICE W. CALLAGHAN
General Manager

/tl

Attachment

cc: Mr. Norman Lovelace - US EPA
Ms. Sheila Wiegman - ASEPA
Ms. Virginia Gibbons - Assistant Attorney General
Mr. Ralph A. Ward
Mr. Norman Wei
Mr. William Adams

JUN-29-1992 12:01 FROM STAR KIST SAMOA TO 14157441605 P.04

Wastewater Summary Report for the Month of April 1992

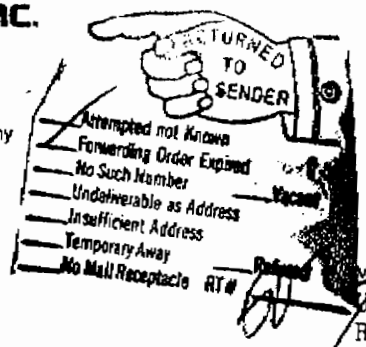
Date	Production Tons	Flow mgd	Alum #/day	Poly #/day	Max Temp F	pH Limits Lo	pH Limits Hi	Oil & Grease Eff mg/l	Oil & Grease Total #/day	TSS Eff mg/l	TSS Total #/day	TP Eff mg/l	TP Total #/day	TN Eff mg/l	TN Total #/day	Total Ammonia Eff mg/l
1	466.357	1.4961	1104	26.3	80	7.0	7.2	9.9	123	55.5	691	3.1	38	57.5	715	21.2
2	502.420	2.0594	1392	26.0	80	7.0	7.1									
3	501.025	1.5306	1176	22.3	78	7.1	7.2	12.6	160	93.0	1184	4.4	56	100.0	1273	
4	463.510	1.5554	1140	23.9	84	7.0	7.3									
5		0.1026	72	2.0	86	6.9	7.3									
6	462.277	1.3449	1080	19.2	86	7.2	7.3									
7	472.271	1.3984	1080	19.0	83	6.8	7.2	76.6	891	282.7	3288	22.4	260	180.0	2093	68.7
8	431.466	1.3790	1068	21.3	80	6.8	6.9									
9	457.709	1.4161	1080	22.7	80	6.7	7.1									
10	435.036	1.1491	816	16.2	86	6.9	7.2	42.1	402	265.3	2535	13.6	130	95.7	915	
11		0.3637	276	7.1	86	6.6	6.9									
12		0.7042	540	11.7	82	6.9	7.2									
13	431.001	1.5317	1152	22.3	80	7.2	7.3									
14	501.451	1.4852	1056	21.5	78	7.2	7.4	36.1	446	197.0	2433	11.0	136	83.1	1026	27.1
15	471.099	1.2578	960	20.3	80	7.0	7.3									
16	262.069	1.1526	864	21.9	80	6.9	7.2	42.3	405	210.5	2018	9.5	91	77.7	745	
17		0.4920	336	7.7	88	6.6	6.9									
18		0.5112	396	11.1	83	6.7	7.1									
19		0.9292	696	15.2	80	7.1	7.3									
20	441.980	1.3829	1104	21.3	78	7.2	7.4									
21	461.306	1.4658	1152	23.3	82	6.7	7.3	50.2	612	223.0	2718	16.4	200	136.0	1658	31.8
22	477.492	1.5933	1212	23.3	81	6.5	6.7									
23	495.596	1.4230	1140	22.3	80	6.6	6.9									
24	439.174	1.5456	1200	24.3	78	6.7	7.2	29.7	382	110.5	1420	14.0	180	109.0	1401	
25		0.4069	312	7.1	85	6.7	7.4					13.2	45	154.0	521	
26		0.6568	504	11.1	84	6.7	6.9					12.2	67	112.0	611	
27	468.263	1.4857	1140	23.3	79	6.5	6.9					13.3	164	117.0	1446	
28	480.156	1.3163	1056	19.8	81	6.6	7.0	40.2	440	153.3	1677	15.3	167	115.0	1258	33.9
29	493.118	1.4334	1140	21.3	80	6.6	7.1					19.3	230	150.0	1788	
30	473.654	1.5858	1200	24.3	80	6.5	6.9	64.1	845	179.3	2365	21.4	282	173.0	2281	
TOT	10108.330	36.1528	27444	559.1												
Max	502.420	2.0594	1392	26.3	88	7.2	7.4	76.6	891	282.7	3288	22.4	282	180.0	2281	68.7
AVG	459.470	1.2051	915	18.6	82			40.4	471	177.0	2083	13.5	146	118.6	1266	

StarKist Samoa, Inc.

P.O. Box 368
Pago Pago, Tutuila Island
American Samoa 96799

An Affiliate of StarKist Seafood Company

Heinz



AIRMAIL AIRMAIL AIRMAIL

Mr. Norman Lovelace
U. S. Environmental Protection Agencies
Region IX
215 Fremont Street
San Francisco, CA 94105

JUN-29-1992 12:02 FROM STAR KIST SAMOA TO 14157441505 P.05

Copy to Doug, Mike

StarKist Samoa, Inc.

An Affiliate of StarKist Seafood Company

Facsimile: 684-644-2440

April 28, 1992

Mr. Pati Faiai
American Samoa Environmental Quality Commission
Office of the Governor
American Samoa Government
Pago Pago, American Samoa 96799

Dear Mr. Faiai:

Re: Monitoring Results for the Month of March 1992 under the U.S. EPA's Administrative Order to StarKist Samoa

Attached are StarKist Samoa's monitoring results for the month of March 1992. StarKist Samoa met all effluent limitations except for the monthly average for total nitrogen.

The plant experienced a series of mechanical problems with the fishmeal plant which resulted in higher than normal amount of fish scrap being put through the wastewater treatment plant.

This report summarizes the problems that apparently caused the high total nitrogen loadings and the rapid remedial actions taken by the plant to minimize such loadings.

1. There were mechanical problems with the shaker screen in the fish meal plant during the second week of March. This resulted in higher than normal amounts of solids going into the treatment plant. As a remedial measure, the shaker screen was completely rebuilt during that same week.

2. A new press for the fish meal plant arrived in March to replace one of two old presses. As the new structural work for this new press was being erected, one of the two old presses came apart completely and the plant was left with only one press to handle all the fish scrap in the fish meal plant. This resulted in higher than normal solids loadings to the treatment plant. As a remedial measure, the engineering staff worked around the clock and completed installation of the new press on April 13th.

The existing fishmeal plant at StarKist Samoa was designed and built over 9 years ago and requires periodic major repair. As a long term solution, corporate management at StarKist has already approved a $3.9 million capital appropriation for a brand new and modern fishmeal plant to be operational by late 1993 or early 1994. Replacement of the new press at a cost of $170,000 to StarKist Samoa was a first step in this program.

Although StarKist Samoa does not anticipate any major problems with the fishmeal plant with the new press in place, the staff will continue to monitor the operation closely to ensure that all the effluent limitations are met in the future.

StarKist Samoa respectfully requests that the U.S. Environmental Protection Agency and the American Samoa Government take into consideration the good faith efforts demonstrated by the cannery in completing the joint pipeline ahead of schedule as they review the March 1992 results.

As General Manager of StarKist Samoa, I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

Sincerely,

STARKIST SAMOA, INC.

MAURICE W. CALLAGHAN
General Manager

MWC:am

cc: Mr. Norman Lovelace - US EPA
Ms. Sheila Weigman - ASEPA
Ms. Virginia Gibbons - Assistant Attorney General
Mr. Ralph A. Ward
Mr. Norman Wei
Mr. William Adams

Attachments

Wastewater Summary Report for the Month of MARCH 1992

Date	Production Tons	Flow mgd	Alum #/day	Poly #/day	Max Temp F	pH Limits Lo	pH Limits Hi	Oil & Grease Eff mg/l	Oil & Grease Total #/day	TSS Eff mg/l	TSS Total #/day	TP Eff mg/l	TP Total #/day	TN Eff mg/l	TN Total #/day	Tot Ammonia Eff mg/l
1		0.9835	744	16.2	84	7.0	7.1									
2	465.802	1.3611	1032	21.9	80	6.9	7.0									
3	520.589	1.6719	1260	26.3	81	7.0	7.1	19.1	266	66.0	918	5.9	82	101.0	1404	40.5
4	507.385	1.5418	1140	21.9	80	6.8	6.9									
5	458.605	1.3834	1044	20.3	80	6.9	7.0									
6	507.997	1.4920	1128	23.3	79	7.0	7.2	19.8	246	32.0	397	4.0	50	110.0	1365	
7	490.945	1.5006	1128	22.3	80	6.8	7.2									
8		0.9602	768	16.2	83	7.0	7.2									
9	519.346	1.4768	1080	24.3	82	7.0	7.1									
10	521.451	1.4368	1104	23.9	82	6.9	7.1									
11	508.226	1.4794	1128	23.9	82	7.0	7.1	14.8	182	187.0	2301	11.7	144	161.0	1981	63.2
12	540.369	1.5886	1200	25.3	80	7.1	7.3									
13	523.846	1.5161	1224	26.3	81	7.0	7.2	22.7	286	33.5	422	6.1	77	163.0	2055	
14	495.860	1.4229	1104	24.7	83	7.0	7.1									
15		0.9998	792	20.9	86	6.7	6.9									
16	501.635	1.4492	1092	23.3	78	7.0	7.1									
17	521.531	1.5219	1152	24.3	78	7.0	7.1	24.4	309	90.7	1148	6.1	77	142.0	1797	49.8
18	521.602	1.4935	1104	23.9	77	7.0	7.2									
19	487.913	1.7144	1296	25.3	79	6.7	7.1									
20	499.950	1.9608	1440	30.4	85	6.6	7.0	26.9	439	87.5	1427	3.0	49	106.0	1728	
21	450.663	1.6567	1260	23.9	82	6.7	7.0									
22		0.8864	672	13.8	86	6.8	7.2									
23	481.456	1.3655	1020	19.8	78	6.7	7.0									
24	494.597	1.4338	1080	20.3	78	6.9	7.2	20.2	241	81.5	972	6.0	72	139.0	1657	46.0
25	494.887	1.5813	1140	21.3	79	7.1	7.3	13.5	178	62.0	815	3.6	48	120.0	1578	
26	525.438	1.7528	1260	22.3	80	7.0	7.4									
27	499.564	1.3182	996	19.2	82	7.0	7.2									
28		0.7691	552	12.0	86	6.7	6.9									
29		0.4864	336	7.1	76	6.6	7.1									
30	504.344	1.5413	1128	23.3	80	6.7	7.1									
31	413.631	1.8960	1392	25.3	80	6.9	7.2									
TOT	12457.632	43.6422	32796	673.2					2145		8399		599		13566	
Max	540.369	1.9608			86				439		2301		144		2055	63.2
AVG	498.305	1.4078	1058	21.7	81			20.2	268	80.0	1050	5.8	75	130.3	1696	

StarKist Samoa Inc.

An Affiliate of StarKist Seafood Company

Heinz

P.O. Box 368
Pago Pago, TuTuila Islands
American Samoa 96799
Telephone: 684-644-4231
Facsimile: 684-644-2440

Copy to Dan; Mike.

ARRIVED 1992

March 30, 1992

Mr. Pati Faiai
American Samoa Environmental
Quality Commission
Office of the Governor
American Samoa Government
Pago Pago, American Samoa 96799

Dear Mr. Faiai:

Re: Monitoring Results for the Month of February 1992 under the U. S. EPA's Administrative Order to StarKist Samoa

Attached are StarKist Samoa's monitoring results for the following periods during the month of February 1992:

1. For the period February 1 through to February 13th, StarKist Samoa utilized the inner harbor outfall for its treated effluent and the interim effluent limitations as required under US EPA's Administrative Order issued on June 18, 1990 and modified on 30 October 1991 were applicable. All the analyses were performed by AECOS laboratory in Hawaii. Results are shown in attachment 1. StarKist Samoa, Inc. met all interim effluent limitations.

2. StarKist Samoa began utilizing the new joint cannery outfall on February 13th and the effluent limitations as specified in US EPA's Administrative Order amendment dated 11 February, 1992 became applicable. Results are shown in Attachment 2. StarKist Samoa met all effluent limitations.

As General Manager of StarKist Samoa, I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the

information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

Sincerely,

STARKIST SAMOA, INC.

MAURICE W. CALLAGHAN
General Manager

Attachment

cc: Mr. Norman Lovelace - US EPa
Ms. Sheila Wiegman - ASEPA
Ms. Virginia Gibbons - Assistant Attorney General
Mr. Ralph A. Ward
Mr. Norman Wei
Mr. William Adams

StarKist Samoa, Inc.

Attachment 1

ADMINISTRATIVE ORDER COMPLIANCE REPORT

February 1992

Total Phosphorus

Date Feb	Prod Tons	Flow mgd	Influent mg/l	Effluent mg/l	Influent #/day	Effluent #/day
4	421.586	1.2572	18.0	5.65	188	59
6	430.125	1.4555	17.6	5.33	213	65
11	452.405	1.5368	30.4	9.65	389	123
Average	434.705	1.4165	22.00	6.88	263	82
Maximum	452.405	1.5368	30.40	9.65	389	123

Administrative Order Limitations for Total Phosphorus

Monthly Average	170
Monthly Average (35% removal)	171
Daily Maximum	320
Daily Maximum (35% removal)	253

Total Nitrogen

Date Feb	Prod Tons	Flow mgd	Influent mg/l	Effluent mg/l	Influent #/day	Effluent #/day
4	421.586	1.2572	114.00	84.70	1192	886
6	430.125	1.4555	176.00	86.00	2130	1041
11	452.405	1.5368	168.00	125.00	2147	1598
Average	434.705	1.4165	152.67	98.57	1823	1175
Maximum	452.405	1.5368	176.00	125.00	2147	1598

Administrative Order Limitations for Total Nitrogen

Monthly Average	1675
Monthly Average (3.76 x avg prod)	1634
Daily Maximum	2440
Daily Maximum (4.66 x max prod)	2108

(A)

Attachment 2

Wastewater Summary Report for the Month of February 1992 Under the new A.O for the Joint Outfall

Date	Flow mgd	Alum #/day	Poly #/day	Max Temp F	pH Limits Lo	pH Limits Hi	Oil & Grease Eff mg/l	Oil & Grease Total #/day	TSS Eff mg/l	TSS Total #/day	TP Eff mg/l	TP Total #/day	TN Eff mg/l	TN Total #/day	Tot Ammonia Eff mg/l
1															
2															
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															
13	1.1898	852	17.4	86	6.7	6.9	10.6	105	170.0	1682	5.3	52	112.0	1108	
14	1.1476	792	15.2	82	6.6	6.8									
15	0.6182	444	9.1	84	6.9	7.0									
16	0.2503	168	5.1	82	7.0	7.1									
17	0.3000	216	4.9	80	7.1	7.2									
18	1.4759	1032	18.6	76	7.0	7.1									
19	1.3891	960	18.2	78	6.9	7.0	17.2	199	74.0	855	4.7	55	97.7	1129	47.4
20	1.3737	972	18.6	76	6.8	7.0									
21	1.3573	948	18.2	78	6.9	7.0	10.9	123	69.5	784	8.3	94	128.0	1445	
22	1.1953	864	17.0	88	6.9	7.1									
23	0.8102	576	12.6	88	6.8	6.9									
24	1.3488	948	18.0	80	6.8	6.9									
25	1.3292	960	18.0	76	6.7	6.9	16.7	184	56.5	625	5.1	56	96.1	1062	45.5
26	1.3835	984	19.0	80	6.9	7.0									
27	1.4160	1032	19.2	80	7.0	7.1	11.1	131	56.0	659	4.7	56	97.3	1146	
28	1.5985	1080	19.8	79	7.0	7.2									
29	1.2246	900	17.4	80	6.8	7.0									
TOT	19.4076	13728	266.3					741		4605		312		5889	
Max	1.5985			88				199		1682		94		1445	47.4
Avg	1.1416	808	15.7	83			13.3	148	85.2	921	5.6	62	106.2	1178	

Date

13 Feb 92	O&G (mg/l)
Sub–sample 1	8.6
Sub–sample 2	7.3
Sub–sample 3	17.9
Sub–sample 4	8.6
Daily Average	10.6
19 Feb 92	O&G (mg/l)
Sub–sample 1	16.7
Sub–sample 2	14.4
Sub–sample 3	17.9
Sub–sample 4	19.8
Daily Average	17.2
21 Feb 92	O&G (mg/l)
Sub–sample 1	11.9
Sub–sample 2	12.3
Sub–sample 3	8.8
Sub–sample 4	10.5
Daily Average	10.9
25 Feb 92	O&G (mg/l)
Sub–sample 1	14.1
Sub–sample 2	11.9
Sub–sample 3	25.2
Sub–sample 4	15.4
Daily Average	16.7

Date

27 Feb 92	O&G (mg/l)
Sub–sample 1	12.9
Sub–sample 2	13.2
Sub–sample 3	11.2
Sub–sample 4	7.1
Daily Average	11.1

EPA Rec'd
APR [illegible] 1992

cpy to Mike, Doug. L.

StarKist Samoa, Inc.

P.O. BOX 368 PAGO PAGO, AMERICAN SAMOA 96799

(684) 644-4231
FAX NO: (684) 644-2440

March 27, 1992

Mr. Norman Lovelace
OPINAP (E-4)
U.S. EPA Region 9
75 Hawthorne Street
San Francisco, CA 94105

Mr. Pati Faiai
ASEPA
Office of the Governor
American Samoa Government
Pago Pago, American Samoa 96799

Gentlemen:

Re: Discharge Monitoring Report for the Months of December 1991 January 1992 and February 1992 under NPDES No. 0000019 as issued to Starkist Samoa, Inc.

Please find attached StarKist Samoa's Discharge Monitoring Report covering the months of December 1991, January and February 1992. Monitoring results for the same period under US EPA's Administrative Order have been submitted to the agencies under separate covers.

The Stormwater (discharge 002) monitoring results for the months of December, January and February, 1992 are also included.

The final NPDES effluent limitations for Total Nitrogen and Total Phosphorus which came into effect on March 8, 1991 were exceeded during the months of December, January and February. The temperature limitations reflects the variance which was granted by the American Samoa Government to StarKist Samoa on June 7, 1991.

As General Manager of StarKist Samoa, I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assured that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, to those persons directly responsible for the gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

Sincerely,

for MAURICE W. CALLAGHAN
General Manager

MC\ht:npdes\samoa

Attachments

cc: Ms. Sheila Wiegman
Mr. Ralph Ward
Mr. Norman Wei
Mr. William Adams

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

Form Approved
OMB NO. 158-R0073

INSTRUCTIONS

1. Provide dates for period covered by this report in spaces marked "REPORTING PERIOD".
2. Enter reported minimum, average and maximum values under "QUANTITY" and "CONCENTRATION" in the units specified for each parameter as appropriate. Do not enter values in boxes containing asterisks. "AVERAGE" is average computed over actual time discharge is occurring. "MAXIMUM" and "MINIMUM" are extreme values observed during the reporting period.
3. Specify the number of analyzed samples that exceed the maximum (and/or minimum as appropriate) permit conditions in the columns labeled "No. Ex." If none, enter "0".
4. Specify frequency of analysis for each parameter as No. analyses/No. days. (e.g., "1/7" is equivalent to 3 analyses performed every 7 days.) If continuous enter "CONT."
5. Specify sample type ("grab" or "___ hr. composite") as applicable. If frequency was continuous, enter "NA".
6. Appropriate signature is required on bottom of this form.
7. Remove carbon and retain copy for your records.
8. Fold along dotted lines, staple and mail Original to office specified in permit.

ST	PERMIT NUMBER	DIS	SIC	LATITUDE	LONGITUDE
	AS-0000019	001	2091	14° 16'37"	170° 41'10"

REPORTING PERIOD: FROM 91 12 01 (YEAR MO DAY) TO 91 12 31 (YEAR MO DAY)

PARAMETER		QUANTITY (3 card only) MINIMUM	QUANTITY AVERAGE	QUANTITY MAXIMUM	QUANTITY UNITS	QUANTITY NO. EX	CONCENTRATION (4 card only) MINIMUM	CONCENTRATION AVERAGE	CONCENTRATION MAXIMUM	CONCENTRATION UNITS	CONCENTRATION NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
pH	REPORTED	6.5	6.9	7.2	std. units	0							
	PERMIT CONDITION	6.5		8.6								continuous	
Temperature	REPORTED	75	79	88	F	0							
	PERMIT CONDITION			90°						N/A		continuous	
Total Suspended Solids	REPORTED	616	704	832	lbs./ Day	0		60.4		mg./ L.			
	PERMIT CONDITION		3,300	8,300								2/7days	composite
Total Suspended Solids	REPORTED	0.72	0.83	0.91	lbs./ 1,000lbs seafood	0							
	PERMIT CONDITION		3.3	8.3						N/A		2/7days	calculated
Oil and Grease	REPORTED	33	102	157	lbs./ Day	0		9.0		mg./ L.			
	PERMIT CONDITION		840	2,100								2/7days	composite
Oil and Grease	REPORTED	0.04	0.12	0.20	lbs./ 1,000lbs seafood	0							
	PERMIT CONDITION		0.84	2.1						N/A		2/7days	calculated
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												

NAME OF PRINCIPAL EXECUTIVE OFFICER	TITLE OF THE OFFICER	DATE	
McCallaghan Maurice W.	General Manager	92 03 26	I certify that I am familiar with the information contained in this report and that to the best of my knowledge and belief such information is true, complete, and accurate.
LAST FIRST MI	TITLE	YEAR MO DAY	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

T-48 (4-74)

ORIGINAL

PAGE

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

Form Approved
OMB NO. 158-R0073

INSTRUCTIONS

1. Provide dates for period covered by this report in spaces marked "REPORTING PERIOD".
2. Enter reported minimum, average and maximum values under "QUANTITY" and "CONCENTRATION" in the units specified for each parameter as appropriate. Do not enter values in boxes containing asterisks. "AVERAGE" is average computed over actual time discharge is operating. "MAXIMUM" and "MINIMUM" are extreme values observed during the reporting period.
3. Specify the number of analyzed samples that exceed the maximum (and/or minimum as appropriate) permit conditions in the columns labeled "No. Ex." If none, enter "0".
4. Specify frequency of analysis for each parameter as No. analyses/No. days. (e.g., "2/7" is equivalent to 3 analyses performed every 7 days.) If continuous enter "CONT."
5. Specify sample type ("grab" or "___ hr. composite") as applicable. If frequency was continuous, enter "NA".
6. Appropriate signature is required on bottom of this form.
7. Remove carbon and retain copy for your records.
8. Fold along dotted lines, staple and mail Original to office specified in permit.

ST	PERMIT NUMBER	DIS	SIC	LATITUDE	LONGITUDE
	AS-0000019	002	2091	14° 16'37"	170° 41'12"

REPORTING PERIOD: FROM 91 12 01 (YEAR MO DAY) TO 91 12 31 (YEAR MO DAY)

PARAMETER		QUANTITY (3 card only) MINIMUM	QUANTITY AVERAGE	QUANTITY MAXIMUM	QUANTITY UNITS	QUANTITY NO. EX	CONCENTRATION (4 card only) MINIMUM	CONCENTRATION AVERAGE	CONCENTRATION MAXIMUM	CONCENTRATION UNITS	CONCENTRATION NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
TEMPERATURE	REPORTED	75.2	77	78.8	°F							2/month	composite
	PERMIT CONDITION												
TURBIDITY	REPORTED	10.35	24.8	39.3	NTU							2/month	composite
	PERMIT CONDITION												
OIL & GREASE	REPORTED	25.7	26.6	27.6	mg/l							2/month	composite
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												

NAME OF PRINCIPAL EXECUTIVE OFFICER	TITLE OF THE OFFICER	DATE
O'Callaghan Maurice W.	General Manager	9 20 3 26
LAST FIRST MI	TITLE	YEAR MO DAY

I certify that I am familiar with the information contained in this report and that to the best of my knowledge and belief such information is true, complete, and accurate.

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

T-49 (4-74)

ORIGINAL

PAGE OF

NATIONAL POLLUTA ISCHARGE ELIMINATION SYSTEM
DISCHAR ONITORING REPORT

Form Approved
OMB NO. 158-R007

INSTRUCTIONS

1. Provide dates for period covered by this report in spaces marked "REPORTING PERIOD".
2. Enter reported minimum, average and maximum values under "QUANTITY" and "CONCENTRATION" in the units specified for each parameter as appropriate. Do not enter values in boxes containing asterisks. "AVERAGE" is average computed over actual time discharge is operating. "MAXIMUM" and "MINIMUM" are extreme values observed during the reporting period.
3. Specify the number of analyzed samples that exceed the maximum (and or minimum as appropriate) permit conditions in the columns labeled "No. Ex." If none, enter "0".
4. Specify frequency of analysis for each parameter as No. analyses/No. days (e.g., "3/7" is equivalent to 3 analyses performed every 7 days.) If continuous enter "CONT."
5. Specify sample type ("grab" or "___ hr. composite") as applicable. If frequency was continuous, enter "NA".
6. Appropriate signature is required on bottom of this form.
7. Remove carbon and retain copy for your records.
8. Fold along dotted lines, staple and mail Original to office specified in permit.

ST	PERMIT NUMBER	DIS	SIC	LATITUDE	LONGITUDE
	AS-0000019	001	2091	14° 16'37"	170° 41'10"

REPORTING PERIOD FROM: YEAR 91 MO 12 DAY 01 TO: YEAR 91 MO 23 DAY 1

PARAMETER		QUANTITY (3 used only) MINIMUM	QUANTITY AVERAGE	QUANTITY MAXIMUM	QUANTITY UNITS	QUANTITY NO. EX	CONCENTRATION (4 used only) MINIMUM	CONCENTRATION AVERAGE	CONCENTRATION MAXIMUM	CONCENTRATION UNITS	CONCENTRATION NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
Flow	REPORTED	0.0500	0.6989	1.7468	MGD	0							
	PERMIT CONDITION		2.08							N/A		continuous	
Total Nitrogen	REPORTED				lbs./ day			84.7		mg./ L.	1		
	PERMIT CONDITION							0.20				2/7days	composite
Total Phosphorus	REPORTED				lbs./ day			3.7		mg./ L.	1		
	PERMIT CONDITION							0.03				2/7days	composite
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												

NAME OF PRINCIPAL EXECUTIVE OFFICER	TITLE OF THE OFFICER	DATE
for Callaghan Maurice W.	General Manager	92 03 26
LAST FIRST MI	TITLE	YEAR MO DAY

I certify that I am familiar with the information contained in this report and that to the best of my knowledge and belief such information is true, complete, and accurate.

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

T-49 (4-76)

ORIGINAL

PAGE OF

WASTE WATER SUMMARY REPORT FOR THE MONTH OF DECEMBER 1991

DATE	PROD TONS	FLOW MGD	ALUM #/DAY	POLY #/DAY	MAX TEMP F	pH LIMITS LO	pH LIMITS HI	OIL & GREASE INF. MG/L	OIL & GREASE EFF. MG/L	OIL & GREASE TOTAL #/DAY	OIL & GREASE LBS./ 1000 SF	OIL & GREASE % REMVL	TOTAL SUSPENDED SOLIDS INF. MG/L	TOTAL SUSPENDED SOLIDS EFF. MG/L	TOTAL SUSPENDED SOLIDS TOTAL #/DAY	TOTAL SUSPENDED SOLIDS LBS./ 1000 SF	TOTAL SUSPENDED SOLIDS % REMVL	TOTAL PHOSPHORUS INF. MG/L	TOTAL PHOSPHORUS EFF. MG/L	TOTAL PHOSPHORUS TOTAL #/DAY	TOTAL NITROGEN INF. MG/L	TOTAL NITROGEN EFF. MG/L	TOTAL NITROGEN TOTAL #/DAY
1	N.P.	1.0775	720.0	16.2	81	6.9	7.0																
2	414.313	1.5820	1075.2	24.3	79	6.9	7.1																
3	412.346	1.7468	1200.0	27.3	81	6.5	6.7	87.1	6.0	88	0.11	93.1%	425.0	50.0	726	0.88	88.2%	10.6	4.1	60	68.3	61.1	888
4	461.491	0.4570	307.2	8.1	76	6.6	6.7																
5	456.275	1.3703	921.6	20.7	84	6.5	6.8	80.0	2.9	33	0.04	96.4%	625.0	73.0	832	0.91	88.3%	13.1	3.3	38	104.0	96.5	1100
6	403.045	1.3049	902.4	20.3	82	7.0	7.2																
7	N.P.	0.5386	364.8	9.3	88	6.8																	
8	N.P.	0.1603	105.6	3.1	83	7.0																	
9	N.P.	0.3710	249.6	6.1	80	6.6	6.7																
10	N.P.	0.3501	240.0	5.7	76	6.7	6.8																
11	N.P.	0.2560	172.8	4.4	77	6.9																	
12	N.P.	0.1299	76.8	2.4	81	7.0																	
13	N.P.	0.1160	67.2	2.0	75	6.9																	
14	N.P.	0.1170	67.2	1.8	82	7.1																	
15	N.P.	0.5790	355.2	8.5	82	6.9	7.0																
16	402.290	1.1714	768.0	17.2	80	6.7	6.9																
17	400.534	1.2133	844.8	18.6	78	6.9	7.1	100.8	15.6	157	0.20	84.5%	577.0	63.5	641	0.80	89.0%	11.4	3.9	40	110.0	108.0	1090
18	430.546	1.3473	892.8	19.4	79	7.0	7.1	184.7	11.5	129	0.15	93.8%	735.0	55.0	616	0.72	92.5%	16.8	3.4	38	139.0	73.2	820
19	447.567	1.4042	921.6	20.3	82	6.8	6.9																
20	406.304	1.0977	729.6	16.2	81	6.7	6.9																
21	N.P.	0.5724	364.8	8.5	80	7.0																	
22	N.P.	0.1804	115.2	3.0	79	7.1																	
23	N.P.	0.1062	57.6	1.8	80	7.0																	
24	N.P.	0.0500	28.8	0.1	78	7.0																	
25	N.P.	N.F.	0.0	0.0	N.F.	N.F.																	
26	N.P.	0.1720	96.0	2.4	80	7.1																	
27	N.P.	N. F.	0.0	0.0	N.F.	N.F.																	
28	N.P.	N. F.	0.0	0.0	N.F.	N.F.																	
29	N.P.	N. F.	0.0	0.0	N.F.	N.F.																	
30	N.P.	N. F.	0.0	0.0	N.F.	N.F.																	
31	N.P.	N. F.	0.0	0.0	N.F.	N.F.																	
TOT.	4234.711	17.4713	11644.8	267.7						407	0.49				2815	3.31				175			3897
AVG	423.471	0.6989	465.8	10.7	80			113.2	9.0	102	0.12	91.9%	590.5	60.4	704	0.83	89.5%	13.0	3.7	44	105.3	84.7	974

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

Form Approved
OMB NO. 158-R0073

INSTRUCTIONS

1. Provide dates for period covered by this report in spaces marked "REPORTING PERIOD".
2. Enter reported minimum, average and maximum values under "QUANTITY" and "CONCENTRATION" in the units specified for each parameter as appropriate. Do not enter values in boxes containing asterisks. "AVERAGE" is average computed over actual time discharge is operating. "MAXIMUM" and "MINIMUM" are extreme values observed during the reporting period.
3. Specify the number of analyzed samples that exceed the maximum (and/or minimum as appropriate) permit conditions in the columns labeled "No. Ex." If none, enter "0".
4. Specify frequency of analysis for each parameter as No. analyses/No. days. (e.g., "1/7" is equivalent to 3 analyses performed every 7 days.) If continuous enter "CONT."
5. Specify sample type ("grab" or "__ hr. composite") as applicable. If frequency was continuous, enter "NA".
6. Appropriate signature is required on bottom of this form.
7. Remove carbon and retain copy for your records.
8. Fold along dotted lines, staple and mail Original to office specified in permit.

ST	PERMIT NUMBER	DIS	SIC	LATITUDE	LONGITUDE
	AS-0000019	001	2091	14° 16'37"	170° 41'10"

REPORTING PERIOD: FROM YEAR 92 MO 01 DAY 01 TO YEAR 92 MO 01 DAY 31

PARAMETER		QUANTITY (3 card only) MINIMUM	QUANTITY AVERAGE	QUANTITY MAXIMUM	QUANTITY UNITS	QUANTITY NO. EX	CONCENTRATION (4 card only) MINIMUM	CONCENTRATION AVERAGE	CONCENTRATION MAXIMUM	CONCENTRATION UNITS	CONCENTRATION NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
pH	REPORTED	6.5	6.9	7.3	std. units	0							
	PERMIT CONDITION	6.5		8.6								continuous	
Temperature	REPORTED	74	80	86	F	0							
	PERMIT CONDITION			90°						N/A		continuous	
Total Suspended Solids	REPORTED	397	735	1334	lbs./ Day	0		74.6		mg./ L.			
	PERMIT CONDITION		3,300	8,300								2/7days	composite
Total Suspended Solids	REPORTED	0.60	0.90	1.55	lbs./ 1,000lbs seafood	0							
	PERMIT CONDITION		3.3	8.3						N/A		2/7days	calculated
Oil and Grease	REPORTED	57	199	329	lbs./ Day	0		19.8		mg./ L.			
	PERMIT CONDITION		840	2,100								2/7days	composite
Oil and Grease	REPORTED	0.09	0.24	0.40	lbs./ 1,000lbs seafood	0							
	PERMIT CONDITION		0.84	2.1						N/A		2/7days	calculated
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												

NAME OF PRINCIPAL EXECUTIVE OFFICER	TITLE OF THE OFFICER	DATE	
McCallaghan Maurice W	General Manager	YEAR 92 MO 03 DAY 26	I certify that I am familiar with the information contained in this report and that to the best of my knowledge and belief such information is true, complete, and accurate.
LAST FIRST MI	TITLE		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

T-40 (4-74)

ORIGINAL

NATIONAL POLLUTA... DISCHARGE ELIMINATION SYSTEM
DISCHAR... ONITORING REPORT

Form Approved
OMB NO. 158-R0071

INSTRUCTIONS

1. Provide dates for period covered by this report in spaces marked "REPORTING PERIOD".
2. Enter reported minimum, average and maximum values under "QUANTITY" and "CONCENTRATION" in the units specified for each parameter as appropriate. Do not enter values in boxes containing asterisks. "AVERAGE" is average computed over actual time discharge is occurring. "MAXIMUM" and "MINIMUM" are extreme values observed during the reporting period.
3. Specify the number of analyzed samples that exceed the maximum (and or minimum as appropriate) permit conditions in the columns labeled "No. Ex." If none, enter "0".
4. Specify frequency of analysis for each parameter as No. analyses/No. days (e.g., "3/7" is equivalent to 3 analyses performed every 7 days.) If continuous enter "CONT."
5. Specify sample type ("grab" or "___ hr. composite") as applicable. If frequency was continuous, enter "NA".
6. Appropriate signature is required on bottom of this form.
7. Remove carbon and retain copy for your records.
8. Fold along dotted lines, staple and mail Original to office specified in permit.

ST: [ ]

PERMIT NUMBER: AS-0000019

DIS: 001

SIC: 2091

LATITUDE: 14° 16'37" LONGITUDE: 170° 41'10"

REPORTING PERIOD FROM: YEAR 92 MO 01 DAY 01 TO: YEAR 92 MO 01 DAY 31

PARAMETER		QUANTITY (3 cond only) MINIMUM	QUANTITY AVERAGE	QUANTITY MAXIMUM	QUANTITY UNITS	QUANTITY NO. EX	CONCENTRATION (4 cond only) MINIMUM	CONCENTRATION AVERAGE	CONCENTRATION MAXIMUM	CONCENTRATION UNITS	CONCENTRATION NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
Flow	REPORTED	0.2161	0.9852	1.6949	MGD	0							
	PERMIT CONDITION		2.08							N/A		continuous	
Total Nitrogen	REPORTED				lbs./day			88.5		mg./L.	1		
	PERMIT CONDITION							0.20				2/7days	composite
Total Phosphorus	REPORTED				lbs./day			4.4		mg./L.	1		
	PERMIT CONDITION							0.03				2/7days	composite
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												

NAME OF PRINCIPAL EXECUTIVE OFFICER: Callaghan Maurice W. (LAST FIRST MI)

TITLE OF THE OFFICER: General Manager (TITLE)

DATE: YEAR 92 MO 03 DAY 26

I certify that I am familiar with the information contained in this report and that to the best of my knowledge and belief such information is true, complete, and accurate.

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

T-49 (6-76)

PAGE OF

ORIGINAL

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

Form Approved
OMB NO. 158-R0073

INSTRUCTIONS

1. Provide dates for period covered by this report in spaces marked "REPORTING PERIOD".
2. Enter reported minimum, average and maximum values under "QUANTITY" and "CONCENTRATION" in the units specified for each parameter as appropriate. Do not enter values in boxes containing asterisks. "AVERAGE" is average computed over actual time discharge is operating. "MAXIMUM" and "MINIMUM" are extreme values observed during the reporting period.
3. Specify the number of analyzed samples that exceed the maximum (and or minimum as appropriate) permit conditions in the columns labeled "No. Ex." If none, enter "0".
4. Specify frequency of analysis for each parameter as No. analyses/No. days. (e.g., "3/7" is equivalent to 3 analyses performed every 7 days.) If continuous enter "CONT."
5. Specify sample type ("grab" or "____ hr. composite") as applicable. If frequency was continuous, enter "NA".
6. Appropriate signature is required on bottom of this form.
7. Remove carbon and retain copy for your records.
8. Fold along dotted lines, staple and mail Original to office specified in permit.

ST	PERMIT NUMBER	DIS	SIC	LATITUDE	LONGITUDE
	AS-0000019	002	2091	14° 16'37"	170° 41'12"

REPORTING PERIOD: FROM 91 01 01 (YEAR MO DAY) TO 91 03 31 (YEAR MO DAY)

PARAMETER		QUANTITY (if used only) MINIMUM	QUANTITY AVERAGE	QUANTITY MAXIMUM	QUANTITY UNITS	QUANTITY NO. EX	CONCENTRATION (if used only) MINIMUM	CONCENTRATION AVERAGE	CONCENTRATION MAXIMUM	CONCENTRATION UNITS	CONCENTRATION NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
TEMPERATURE	REPORTED	76.5	79.8	83.0	°F								
	PERMIT CONDITION											2/month	composite
TURBIDITY	REPORTED	8.5	16.0	23.4	NTU								
	PERMIT CONDITION											2/month	composite
OIL & GREASE	REPORTED	3.5	6.6	9.7	mg/l								
	PERMIT CONDITION											2/month	composite
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												

NAME OF PRINCIPAL EXECUTIVE OFFICER (LAST, FIRST, MI)	TITLE OF THE OFFICER (TITLE)	DATE (YEAR MO DAY)	I certify that I am familiar with the information contained in this report and that to the best of my knowledge and belief such information is true, complete, and accurate.	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT
Callaghan Maurice W.	General Manager	91 03 26		

T-40 (4-76)

ORIGINAL

PAGE OF

WASTE WATER SUMMARY REPORT FOR THE MONTH OF JANUARY 1992

DATE	PROD TONS	FLOW MGD	ALUM #/DAY	POLY #/DAY	MAX TEMP F	pH LIMITS LO	pH LIMITS HI	OIL & GREASE INF. MG/L	OIL & GREASE EFF. MG/L	OIL & GREASE TOTAL #/DAY	OIL & GREASE LBS./ 1000 SF	OIL & GREASE % REMVL	TOTAL SUSPENDED SOLIDS INF. MG/L	TOTAL SUSPENDED SOLIDS EFF. MG/L	TOTAL SUSPENDED SOLIDS TOTAL #/DAY	TOTAL SUSPENDED SOLIDS LBS./ 1000 SF	TOTAL SUSPENDED SOLIDS % REMVL	TOTAL PHOSPHORUS INF. MG/L	TOTAL PHOSPHORUS EFF. MG/L	TOTAL PHOSPHORUS TOTAL #/DAY	TOTAL NITROGEN INF. MG/L	TOTAL NITROGEN EFF. MG/L	TOTAL NITROGEN TOTAL #/DAY
1	N. P.	N. F.	0.0	0.0	N. F.	N. F.																	
2	N. P.	N. F.	0.0	0.0	N. F.	N. F.																	
3	N. P.	N. F.	0.0	0.0	N. F.	N. F.																	
4	N. P.	N. F.	0.0	0.0	N. F.	N. F.																	
5	N. P.	0.5342	360.0	8.1	78	6.9																	
6	360.624	1.5324	1080.0	23.3	86	6.8	7.0																
7	329.672	1.2917	900.0	20.3	86	6.5	6.7	99.7	5.3	57	0.09	94.7%	412.5	37.0	397	0.60	91.0%	19.1	4.6	50	110.0	86.0	924
8	388.375	1.2941	888.0	18.2	84	6.6	6.9																
9	409.313	1.4848	1020.0	20.3	79	6.5	6.9	100.6	6.9	85	0.10	93.1%	435.0	39.0	482	0.59	91.0%	16.3	6.7	82	96.8	90.7	1120
10	400.290	1.3355	960.0	19.2	84	7.0	7.3																
11	N. P.	0.2161	144.0	4.1	82	6.9	7.2																
12	N. P.	0.4858	324.0	7.1	82	6.6	6.9																
13	412.132	0.8095	552.0	12.2	82	6.8	7.1																
14	429.916	0.9614	660.0	14.2	80	6.9	7.3	838.9	21.2	169	0.20	97.5%	1030.0	166.8	1334	1.55	83.8%	15.1	5.0	40	119.0	104.0	831
15	408.837	1.4186	996.0	19.8	80	7.0	7.3																
16	444.167	1.1577	780.0	18.2	82	7.1	7.2	274.7	29.8	287	0.32	89.1%	1260.0	59.5	573	0.64	95.3%	19.5	5.1	49	154.0	113.0	1088
17	388.561	0.9015	636.0	14.8	80	6.9	7.2																
18	N. P.	0.3773	240.0	6.1	75	6.6	6.8																
19	N. P.	0.5486	360.0	8.5	79	7.0	7.2																
20	386.014	0.9257	660.0	13.2	80	6.5	6.9																
21	395.182	1.1150	816.0	16.2	81	6.6	6.8	467.3	32.9	305	0.39	93.0%	573.3	86.0	797	1.01	85.0%	14.6	3.4	32	122.0	87.6	812
22	380.802	0.5745	384.0	8.5	82	7.0	7.1																
23	425.406	0.9774	672.0	15.8	79	6.9	7.0	175.6	20.8	169	0.20	88.1%	520.0	56.5	459	0.54	89.1%	17.2	3.8	31	118.0	75.7	615
24	366.951	0.5848	384.0	9.1	82	6.8	6.9																
25	N. P.	0.5133	360.0	8.1	86	6.9	7.1																
26	N. P.	0.7891	540.0	11.3	81	6.6	6.7																
27	405.725	1.4921	984.0	20.3	82	6.7	6.8																
28	406.233	1.6949	1152.0	22.3	82	7.1	7.2	123.4	23.3	329	0.40	81.1%	320.0	62.5	881	1.08	80.5%	14.1	2.9	41	97.7	60.4	851
29	417.749	1.2273	840.0	17.2	82	7.0	7.3																
30	430.698	1.0748	780.0	15.2	84	7.2	7.3																
31	398.363	1.2824	852.0	17.4	86	6.9	7.0	155.3	18.1	193	0.24	88.3%	660.0	89.5	954	1.20	86.4%	20.5	4.1	44	128.0	90.5	965
TOT.	7985.010	26.6005	18324.0	389.0						1595	1.94				5877	7.22				368			7207
AVG	399.251	0.9852	678.7	14.4	63			279.4	19.8	199	0.24	90.6%	651.4	74.6	735	0.90	87.8%	17.1	4.4	46	118.2	88.5	901

NATIONAL POLLUTANT DISC[illegible]JE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

Form Approved
OMB NO. 158-R0073

(2-3)	(4-16)	(17-19)			
ST	AS-0000019	001	2091	14° 16'37"	170° 41'10"
	PERMIT NUMBER	DIS	SIC	LATITUDE	LONGITUDE

REPORTING PERIOD: FROM (20-21) (22-23) (24-25) 92 02 01 (YEAR MO DAY) TO (26-27) (28-29) (30-31) 92 02 29 (YEAR MO DAY)

INSTRUCTIONS

1. Provide dates for period covered by this report in spaces marked "REPORTING PERIOD".
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5. Specify sample type ("grab" or "___ hr. composite") as applicable. If frequency was continuous, enter "NA".
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PARAMETER (32-37)		QUANTITY (3 card only) MINIMUM (38-45)	AVERAGE (46-53)	MAXIMUM (54-61)	UNITS	NO. EX (62-63)	CONCENTRATION (4 card only) MINIMUM (38-45)	AVERAGE (46-53)	MAXIMUM (54-61)	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
pH	REPORTED	6.6	7.0	7.2	std. units	0							
	PERMIT CONDITION	6.5		8.6								continuous	
Temperature	REPORTED	73	79	88	F	0							
	PERMIT CONDITION			90°						N/A		continuous	
Total Suspended Solids	REPORTED	625	1165	1682	lbs./Day	0		103.4		mg./L.			
	PERMIT CONDITION		3,300	8,300								2/7days	composite
Total Suspended Solids	REPORTED	0.70	1.32	1.84	lbs./1,000lbs seafood	0							
	PERMIT CONDITION		3.3	8.3						N/A		2/7days	calculated
Oil and Grease	REPORTED	105	285	626	lbs./Day	0		24.5		mg./L.			
	PERMIT CONDITION		840	2,100								2/7days	composite
Oil and Grease	REPORTED	0.11	0.32	0.69	lbs./1,000lbs seafood	0							
	PERMIT CONDITION		0.84	2.1						N/A		2/7days	calculated
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												

NAME OF PRINCIPAL EXECUTIVE OFFICER	TITLE OF THE OFFICER	DATE
Callaghan Maurice W.	General Manager	92 03 26
LAST FIRST MI	TITLE	YEAR MO DAY

I certify that I am familiar with the information contained in this report and that to the best of my knowledge and belief such information is true, complete, and accurate.

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

T-40 (4-74)

PAGE

ORIGINAL

NATIONAL POLLUT? ISCHARGE ELIMINATION SYSTEM
DISCHAR ONITORING REPORT

Form Approved
OMB NO. 158-R0073

INSTRUCTIONS

1. Provide dates for period covered by this report in spaces marked "REPORTING PERIOD".
2. Enter reported minimum, average and maximum values under "QUANTITY" and "CONCENTRATION" in the units specified for each parameter as appropriate. Do not enter values in boxes containing asterisks. "AVERAGE" is average computed over actual time discharge is operating. "MAXIMUM" and "MINIMUM" are extreme values observed during the reporting period.
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5. Specify sample type ("grab" or "___ hr. composite") as applicable. If frequency was continuous, enter "NA".
6. Appropriate signature is required on bottom of this form.
7. Remove carbon and retain copy for your records.
8. Fold along dotted lines, staple and mail Original to office specified in permit.

ST	PERMIT NUMBER	DIS	SIC	LATITUDE	LONGITUDE
	AS-0000019	001	2091	14° 16'37"	170° 41'10"

REPORTING PERIOD FROM YEAR 92 MO 02 DAY 01 TO YEAR 92 MO 02 DAY 29

PARAMETER		(3 card only) QUANTITY MINIMUM	AVERAGE	MAXIMUM	UNITS	NO. EX	(4 card only) CONCENTRATION MINIMUM	AVERAGE	MAXIMUM	UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMP TYP
Flow	REPORTED	0.2503	1.1029	1.5985	MGD	0							
	PERMIT CONDITION		2.08							N/A		continuous	
Total Nitrogen	REPORTED				lbs./ day			103.4		mg./ L.	1		
	PERMIT CONDITION							0.20				2/7days	composite
Total Phosphorus	REPORTED				lbs./ day			6.1		mg./ L.	1		
	PERMIT CONDITION							0.03				2/7days	composite
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												

NAME OF PRINCIPAL EXECUTIVE OFFICER	TITLE OF THE OFFICER	DATE	
Callaghan Maurice W.	General Manager	YEAR 92 MO 03 DAY 26	I certify that I am familiar with the information contained in this report and that to the best of my knowledge and belief such information is true, complete, and accurate.
LAST FIRST MI	TITLE		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

T-49 (4-76)

ORIGINAL

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

Form Approved
OMB NO. 158-R0073

INSTRUCTIONS

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ST	PERMIT NUMBER	DIS	SIC	LATITUDE	LONGITUDE
	AS-0000019	002	2091	14° 16'37"	170° 41'12"

REPORTING PERIOD FROM (YEAR MO DAY) 9 2 0 1 0 1 TO 9 2 0 2 2 9

PARAMETER		QUANTITY (3 card only) MINIMUM	AVERAGE	MAXIMUM	UNITS	NO. EX	CONCENTRATION (4 card only) MINIMUM	AVERAGE	MAXIMUM	UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
TEMPERATURE	REPORTED	79	80.2	81.5	°F								
	PERMIT CONDITION											2/month	composite
TURBIDITY	REPORTED	7.48	17.2	26.9	NTU								
	PERMIT CONDITION											2/month	composite
OIL & GREASE	REPORTED	6.25	9.6	12.9	mg/l								
	PERMIT CONDITION											2/month	composite
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
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NAME OF PRINCIPAL EXECUTIVE OFFICER	TITLE OF THE OFFICER	DATE
J. Callaghan Maurice W.	General Manager	9 2 0 3 2 6
LAST FIRST MI	TITLE	YEAR MO DAY

I certify that I am familiar with the information contained in this report and that to the best of my knowledge and belief such information is true, complete, and accurate.

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

T-48 (4-74)

ORIGINAL

PAGE OF

WASTE WATER SUMMARY REPORT FOR THE MONTH OF FEBRUARY 1992

								OIL & GREASE					TOTAL SUSPENDED SOLIDS					TOTAL PHOSPHORUS			TOTAL NITROGEN		
DATE	PROD TONS	FLOW MGD	ALUM #/DAY	POLY #/DAY	MAX TEMP F	pH LIMITS LO	HI	INF. MG/L	EFF. MG/L	TOTAL #/DAY	LBS./ 1000 SF	% REMVL	INF. MG/L	EFF. MG/L	TOTAL #/DAY	LBS./ 1000 SF	% REMVL	INF. MG/L	EFF. MG/L	TOTAL #/DAY	INF. MG/L	EFF. MG/L	TOTAL #/DAY
1	0.000	0.2570	180.0	4.3	87	6.8	7.0																
2	0.000	0.8099	576.0	11.1	85	7.0	7.1																
3	427.976	1.3444	960.0	18.2	81	6.9	7.0																
4	421.586	1.2572	888.0	17.4	82	6.8	6.9	124.7	40.6	424	0.50	67.4%	336.7	136.2	1424	1.69	59.5%	18.0	5.7	59	114.0	84.7	886
5	431.441	1.3609	960.0	18.2	80	7.0	7.1																
6	430.125	1.4555	1080.0	21.1	81	6.9	7.0	361.1	40.2	487	0.57	88.9%	782.0	134.7	1630	1.90	82.8%	17.6	5.3	65	176.0	86.0	1041
7	386.830	1.2367	876.0	18.8	82	6.9	7.0																
8	0.000	0.4719	312.0	6.9	81	6.7	6.8																
9	0.000	0.4940	324.0	7.1	81	6.8	6.9																
10	420.958	1.1697	816.0	16.2	82	7.0	7.1																
11	452.405	1.5368	1140.0	21.1	79	7.0	7.2	466.6	49.0	626	0.69	89.5%	973.0	130.0	1661	1.84	86.6%	30.4	9.7	123	168.0	125.0	1598
12	443.383	1.1811	840.0	17.2	80	6.8	6.9																
13	456.001	1.1896	852.0	17.4	86	6.7	6.9		10.6	105	0.11			170.0	1682	1.84			5.3	52		112.0	1108
14	393.333	1.1476	792.0	15.2	82	6.6	6.8																
15	0.000	0.6182	444.0	9.1	84	6.9	7.0																
16	0.000	0.2503	168.0	5.1	82	7.0	7.1																
17	0.000	0.3000	216.0	4.9	80	7.1	7.2																
18	433.385	1.4759	1032.0	18.6	76	7.0	7.1																
19	441.851	1.3891	960.0	18.2	78	6.9	7.0		17.2	199	0.22			74.0	855	0.97			4.7	54		97.7	1129
20	467.273	1.3737	972.0	18.6	76	6.8	7.0																
21	420.513	1.3573	948.0	18.2	78	6.9	7.0		10.9	123	0.15			69.5	784	0.93			8.3	94		128.0	1445
22	382.347	1.1953	864.0	17.0	88	6.9	7.1																
23	0.000	0.8102	576.0	12.6	88	6.8	6.9																
24	437.439	1.3486	948.0	18.0	80	6.8	6.9																
25	444.624	1.3292	960.0	18.0	76	6.7	6.9		16.7	185	0.21			56.5	625	0.70			5.1	56		96.1	1062
26	481.018	1.3835	984.0	19.0	80	6.9	7.0																
27	479.171	1.4160	1032.0	19.2	80	7.0	7.1		11.1	131	0.14			56.0	659	0.69			4.7	55		97.3	1146
28	460.170	1.5985	1080.0	19.8	79	7.0	7.2																
29	438.119	1.2246	900.0	17.4	80	6.8	7.0																
TOT.	9149.948	31.9827	22680.0	443.9						2279	2.59				9321	10.55				559			94
AVG	435.712	1.1029	782.1	15.3	82			317.5	24.5	285	0.32	81.9%	697.2	103.4	1165	1.32	76.3%	22.0	6.1	70	152.7	103.4	117

StarKist Samoa, Inc.

An Affiliate of StarKist Seafood Company

P.O. Box 368
Pago Pago, TuTuila Islands
American Samoa 96799
Telephone: 684-644-4231
Facsimile: 684-644-2440

Copy to Irene, Doug

March 3, 1992

Mr. Norman Lovelace
OPINAP
Environmental Protection Agency
Region 9, Attn: E-4
75 Hawthorne Street
San Francisco, California 94105

Executive Secretary
Environmental Quality Commission
Government of American Samoa
Pago Pago, American Samoa 96799

Subject: Toxic Substance Monitoring Program
NPDES Permit No. AS0000019

StarKist Samoa hereby submits the following monitoring data as required under the Toxic Substance Monitoring Program of the above referenced NPDES Permit:

	Supply Water (Thaw Water)	Effluent
Cadmium	< 0.01	< 0.01
Chromium	< 0.03	< 0.03
Lead	< 0.01	< 0.01
Mercury	0.0040	0.0004
Zinc	0.045	0.105

All concentrations above are reported as parts per million. Samples were collected on January 31, 1992 and analyzed by AECOS the week of February 17th.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false

information, including the possibility of fines and imprisonment for knowing violations.

Yours truly,

STARKIST SAMOA, INC.

MAURICE W. CALLAGHAN
General Manager

/tl

cc: N. Wei
R. A. Ward
W. Adams

Cgy to Richie Lee
Doug Liden

gdc

6 June 1997

Ms Pat Young
American Samoa Program Manager
Office of Pacific Islands
and Native American Programs
U.S. Environmental Protection Agency
75 Hawthorne Street (E-4)
San Francisco, CA 94105

Ms Sheila Wiegman
American Samoa
Environmental Protection Agency
American Samoa Government
Pago Pago, American Samoa 96799

Re: NPDES Permit Renewal
StarKist Samoa (NPDES Permit AS0000019)
Samoa Packing (NPDES Permit AS0000027)

Dear Pat and Sheila:

I have discussed the special studies that have been done, or are currently being done, under the existing NPDES permits applicable to the Joint Cannery Outfall with Norman Wei of StarKist Foods and Jim Cox of Van Camp Seafood. These studies have shown that the discharge from the canneries is generally in compliance with all American Samoa Water Quality Standards and no degradation of the receiving waters, sea bed, or nearby coral reefs have been observed. Applications for renewal of the permits have been submitted to EPA by each cannery. A brief summary of the results of the studies to date, and the proposed continuance, discontinuance, and/or modifications of such studies in the renewed permit, are provided as an attachment to this letter. Please call me directly with any questions.

Sincerely,

Steve Costa

Attachment

cc: Norman Wei/StarKist Foods
Jim Cox/Van Camp Seafood
Barry Mills/StarKist Samoa
Herman Gebauer/Samoa Packing
David Wilson/CH2M Hill/SEA
Karin Noack/CH2M Hill/SFO

P.O. BOX 1125 • ARCATA,CA • 95518
PHONE: 707-826 0717 or 7662 • FAX: 707-822-0567
EMIAL: GLATZELDACOSTA@SPRINTMAIL.COM

ATTACHMENT

Summary of Joint Cannery Outfall Permit Conditions and Special Studies

Star-Kist Samoa, Inc. (NPDES Permit No. AS0000019)

VCS Samoa Packing Company (NPDES Permit No. AS0000027)

The existing NPDES permits for both canneries include a number of special conditions requiring studies that have been fulfilled. These conditions and studies were incorporated in the permits in 1992 in conjunction with a new outfall and mixing zone.

A significant amount of field data and scientific evidence has been amassed since 1992. The brief descriptions below provide summaries of the findings, and conclusions of these studies and the canneries' proposed studies for the next five years.

Permit Condition A. EFFLUENT LIMITS AND MONITORING REQUIREMENTS

Each cannery has complied with the monitoring required and submitted the required discharge monitoring reports (DMR's). Toxicity and the five metals (Cd, Cr, Pb, Hg, Zn) were monitored and reported under Permit Condition D described below.

The canneries propose that of the metals currently listed, only Zn be monitored in the future and Cu (currently not in the list) be added.

Permit Condition B. DISCHARGE SPECIFICATIONS

The available data (see Permit Condition E described below) show compliance with all specifications.

Permit Condition C. PROTECTED AND PROHIBITED USES

Compliance was achieved and maintained with the requirements of this condition

Permit Condition D. TOXICITY, 1. Effluent Biomonitoring

Semi-annual acute bioassays were conducted on a combined flow-weighted composite sample (combined effluent from both canneries) using *Penaeus vannamei*, or *Mysidopis bahia* (when *Penaeus* was not available). Some changes were made to the protocol specified in the permit with the approval of EPA. These tests have been conducted twice per year and reports have been submitted to EPA and ASEPA. The results of the bioassays have shown that levels of toxicity in the effluent are immediately eliminated well within the initial dilution field of the diffuser. Exposure time to any organism entrained

in the discharge has been found to be on the order of a few seconds. The discharge through a multi-port diffuser is at a depth of approximately 180 feet.

Based on the above findings, the canneries propose the elimination of, or a significant reduction in the frequency of, bioassay testing.

Permit Condition D. TOXICITY, 2. Priority Pollutant Scan

Priority pollutant scans, as modified with EPA approval, were conducted concurrently with the bioassays described above. Chemical analyses are done on separate flow-weighted composite samples for each cannery (representing sub-composites used for the bioassay composite). Changes were made to the list of parameters tested for with the approval of EPA. These tests have been conducted twice per year and reports have been submitted to EPA and ASEPA. The results of the tests have revealed that zinc and copper may exceed American Samoa Water Quality Standards (ASWQS). Supplementary in-plant studies have indicated that additional source control for these metals is not feasible. It is anticipated that mixing zones for these metals will be required and testing for these metals has been done in the harbor to determine background levels. Concentrations in the effluent will be immediately reduced to levels below ASWQS within a few meters of the diffuser ports and well within the initial dilution field of the diffuser. As above, exposure time to any organism entrained in the discharge will be on the order of a few seconds.

The canneries propose the elimination of, or a significant reduction in, the frequency of chemical analyses under this permit condition. The canneries further propose that any supplemental testing considered be targeted at a reduced list of parameters and included in the routine discharge monitoring (Permit Condition A).

Permit Condition E. RECEIVING WATER QUALITY MONITORING PROGRAM

Through 1995 the Harbor Water Quality Monitoring was conducted for the canneries by American Samoa Government. The permit condition was then modified reducing the frequency of the monitoring, while increasing the number of stations and modifying the data collection scope and protocol. The monitoring is now done semi-annually. The results indicate that water quality standards and permit conditions are being met throughout the harbor, with the possible exception of the most landward region of the inner harbor. This area is influenced heavily by anthropogenic and natural factors unrelated to the cannery discharges. This monitoring program has documented dramatic improvement in water clarity and reduction in nutrient concentrations as a result of high strenth waste segregation and the outfall relocation.

The canneries propose a substantial reduction in the number of stations sampled and some reduction in parameters sampled.

Permit Condition F. DYE OR TRACER STUDIES

Two dye studies, during the two oceanographic seasons, were conducted and documented. The results indicate that the dispersion of effluent was generally as expected based on the design and modeling of

the outfall diffuser and available information concerning the physical processes in the harbor. The mixing zone geometry was shown to be adequate and appropriate.

The canneries propose that no additional dye studies be required in the renewed permit.

Permit Condition G. SEDIMENT MONITORING

Sediment monitoring at sites in the inner and outer harbor have been conducted at stations and on a frequency (essentially annually) approved by EPA and ASEPA. The results of the study indicate an initiation of improvement in the quality of the inner harbor sediments and with no evidence of degradation of outer harbor sediments. The changes in sediments in either location are expected to be very slow.

The canneries propose a decreased frequency of monitoring based on the existing data

Permit Condition H. EUTROPHICATION STUDY

This study was extended over time, with EPA approval, to include as much harbor water quality data as possible. Specific field studies were conducted for this study. Sufficient harbor water quality data (based on the March 1996 and October 1996 water quality data collections) now exist to complete a defensible study. Additional data will be available following the analysis of the March 1997 water quality data collection, which will be useful for assessing water quality variability. The water quality data reports will be issued soon and the Eutrophication Study report will be issued by August 31, 1997 which should provide sufficient review time during the permit renewal process. The preliminary conclusions of the study, based on review of available data, indicate that reduced nutrient input (because of high strength waste segregation) and reduced nutrient concentrations (because of reduced input and enhanced flushing resulting from outfall relocation) in the receiving waters have resulted in measurable decreases in chlorophyll-a levels and increases in light penetration throughout the water column.

The canneries propose that no additional studies of this kind be required in the renewed permits.

Permit Condition I. CORAL REEF SURVEY

Coral reef surveys have been conducted every two years. The most recent survey was done in March of 1997, and results should be available by the end of July 1997, with sufficient review time during the permit renewal process. Results to date indicate that there is some overall improvement in live coral coverage in the middle harbor, and no degradation in the outer harbor. There is no indication that the discharge is having any adverse affects on coral growth. It should be noted that a combination of factors including severe hurricane damage, the initially degraded condition of the reefs caused by both anthropogenic and natural (crown-of-thorns invasion) factors, and increased run-off in some locations, may have masked the initial data and have made the assessment of short term changes difficult.

The canneries propose that the two-year period between surveys be extended with the next survey required in approximately 4 years (March 2001).

Permit Condition J. VERIFICATION OF MODELING PREDICTIONS

Following the dye studies, an initial model verification study was conducted and a report issued. The results indicated that the suite of models used during the feasibility study to relocate the outfall was somewhat conservative, as expected. The model predictions, and the applicability of the models, were verified, as was the design and geometry of the mixing zones. The continuation of the model verification study was modified and extended in time, with EPA approval, to include as much harbor water quality data as possible and to extend the usefulness of the modeling to be performed. The revisions of the receiving water quality monitoring program were partially designed to accommodate the model verification study. Sufficient harbor water quality data (based on the March 1996 and October 1996 water quality data collections) now exist to complete the study. Additional data will be available following the March 1997 water quality data collection and data analyses, which will be useful for assessing water quality variability. The water quality data reports will be issued soon and the Model Verification Reports report will be issued by July 30, 1997 and August 31, 1997 (reports 2 and 3 respectively) which should provide sufficient review time during the permit renewal process. The completion of the follow-up modeling reports will provide sufficient data and information to verify the mixing zone specification and water quality impacts of the discharge.

The canneries propose that no additional modeling on the mixing be required.

Permit Condition K. WASTEWATER TREATMENT SYSTEM EVALUATION

Each of the canneries has complied with this condition and implemented the recommended improvements.

The canneries propose that no further requirements be included in the renewed permits.

Permit Condition L. POLLUTION PREVENTION PROGRAM

Each of the canneries has complied with the elements of this condition.

The canneries propose that no further requirements be included in the renewed permits.

Mayagüezanos por la Salud y el Ambiente, Inc.

• Calle Aduana 257 • Suite 274 • Mayagüez, Puerto Rico 00680 •

May 23, 1995

809-831-6544

Mr. Ken Greenberg
Permit and Compliance Branch
E.P.A. Region 9
75 Hawthorne Street
San Francisco, CA 94105
Fax: 415-744-1235

Dear Mr. Greenberg:

We ask under the Freedom of Information Act for a copy of the NPDES permit for the Starkist Tuna cannery in Pago Pago Harbor American Samoa. I would appreciate data including depth of the bay were the discharge of their mixing zone is located, the distance of the discharge from the shoreline and the daily volume of their discharge. In addition we ask for a list of all the violations of this plant to this permit in the last six years and of documents showing whatever enforcement action EPA has taken.

Because we have only until June 6th to submit information under the comment period of the NPDES Permit we are evaluating for Starkist here in Puerto Rico we would very much appreciate the urgency that you would give to this matter.

Sincerely,

Father Henry L, Beauchamp, C.Ss.R.
Executive Board member of MSA

P.S. For quicker delivery please send to:

CALLE CLAUDIO CARRERO #293
EL MANÍ
MAYAGÜEZ PUERTO RICO
00680

StarKist Samoa, Inc.

Nov 03/95

Rcd 11/28/95

Mr. Norman Lovelace
OPINAD (E-4)
USEPA Region IX
75 Hawthorne Street
San Francisco, CA 94105

Mr. Togipa Tausaga
ASEPA, Office of the Governor
American Samoa Government
Pago Pago, American Samoa
96799

Nov 04/95

Gentlemen,

On Nov 03/95, at approximately 8:00 Hrs, Starkist Waste Water personnel, during their routine inspection of the plant, noticed a water spray from a flange on the joint marine pipeline.

Van Camp Seafoods was contacted immediately and informed of the situation. While Starkist would have been able to cease operations and shut down the outfall, Van Camp due to their tank levels, was not in a position to do so. The decision was made to carry out repairs while Van Camp was operating. Starkist personnel were successful in this attempt to repair the leaking flange. The flange leak was effectively eliminated at approximately 11:00 Hrs.

This water release was treated water and all necessary steps were taken in an expeditious manner by the two canneries to correct the situation.

We estimate, worst case scenario, total release to the ocean of < 10,000 gallons of treated effluent.

If you have any questions, please feel free to contact Cliff Johnson of our Engineering staff at 684-644-2860

Respectfully,

Barry Mills
Plant Manager
Starkist Samoa Inc.,
Pago Pago
American Samoa 96799

cc: Ms. Sheila Wiegman, Mr. Virgil Shouse, Mr. Cliff Johnson

StarKist Samoa, Inc.

June [illegible]/95

Mr. [illegible]n Lovelace
OPI[illegible]-4)
USEPA Region IX
75 Hawthorne Street
San Francisco, CA 94105

JUN 12 1995
RECEIVED

Mr. Togipa Tausaga
ASEPA, Office of the Governor
American Samoa Government
Pago Pago, American Samoa
96799

Gentlemen,

On June 1/95 , at approximately 11:45 AM, Starkist Waste Water Treatment personnel, during their routine inspection of the plant, noticed a water spray from a flange located near the Samoa Packing dock of the joint marine pipeline.

Omega Diving was called at 1 PM. ASEPA was contacted at approximately 1:45 PM. Local Coast Guard was contacted at 1:50 PM

Van Camp Seafoods was contacted at 2:00 PM and advised of the problem and it was their opinion that they couldn't shutdown their process until later in the evening due to high level in their process surge tank.

It was decided to try and repair the line while the two plants were running. Omega Divers were successful in this attempt and the flange leak was effectively eliminated at approximately 5 PM of June 1/95.

This water release was treated water and all necessary steps were taken in an expeditious manner by the staff of the two canneries to correct the situation.

We estimate, worst case scenario, total release to the ocean of < 2000 gallons of treated effluent.

If you have any questions, please feel free to contact Cliff Johnson of our Engineering staff at 684-644-2860

Respectfully,

Barry Mills
Plant Manager
Starkist Samoa Inc.,
Pago Pago
American Samoa 96799

CC: Ms. Sheila Wiegman, Mr. Virgil Shouse, Mr. Cliff Johnson

StarKist Samoa, Inc.

Subsidiary of Star-Kist Foods, Inc.

P.O. Box 368
Pago Pago, Tutuila Island
American Samoa 96799

Telephone: 684 644-4231
Facsimile: 684 644-2440

September 12/94

Mr. Norman Lovelace
OPINAP (E-4)
USEPA Region IX
75 Hawthorne Street
San Francisco, CA 94105

Mr. Togipa Tausaga
ASEPA, Office of the Governor
American Samoa Government
Pago Pago, American Samoa
96799

Gentlemen,

On September 10/94, at approximately 12:45 PM, Starkist Waste Water Treatment personnel, during their routine inspection of the plant, noticed a series of small air bubbles coming from a flange located near the Samoa Packing dock of the joint marine pipeline.

The waste water plant was immediately shut down at 12:55 PM. Omega Diving was called at 1:00 PM. ASEPA was contacted at approximately 1:45 PM. Local coastgaurd couldn't be reached at this time but was contacted to-day Monday, September 12/94 at 07:30 AM.

Omega Diving successfully completed repairs to the flange at approximately 8:00 PM and the plant was started up at 8:50 PM same day. The bubbles were of a very minor nature and all necessary steps were taken in an expeditious manner by our staff to correct the situation. We estimate, worst case scenario, total release to the ocean of < 200 gallons of treated effluent.

If you have any questions, please feel free to contact Cliff Johnson of our engineering staff at 684-644-2860.

Respectfully,

Barry Mills
General Manager
Starkist Samoa Inc.,
P O Box 368
Pago Pago, American Samoa
96799

CC: Ms. Sheila Wiegman/Mr. Virgil Shouse/Mr. Cliff Johnson

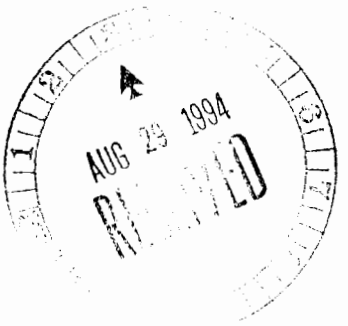
StarKist Samoa, Inc.

An Affiliate of StarKist Seafood Company

P ox 368
Pago Pago, TuTuila Islands
American Samoa 96799
Telephone: 684-644-4231
Facsimile: 684-644-2440

Heinz

August 23/94



Mr. Norman Lovelace
OPINAP (E-4)
U. S. EPA Region IX
75 Hawthorne Street
San Francisco, CA 94105

Mr. Togipa Tausaga
ASEPA
Office of the Governor
American Samoa Government
Pago Pago, American Samoa 96799

Gentleman:

On August 20/94, at approximately 10:30 AM, Starkist engineering staff , during their normal daily inspection, noticed a series of small air bubbles coming from a flange located near the Samoa Packing dock of the joint marine pipeline. Omega Diving was called immediately, at 10:35 AM the same day. The bubbles were caused from a loose bolt on the flange in question which was tightened and the bubbles stopped at approximately 3:30 PM on the same day.

ASEPA and the Coast Guard were also notified by telephone approximately 10:45 AM on August 20/94

The bubbles were of a very minor nature and all necessary steps were taken in an expeditious manner by our engineering staff to correct the situation. We estimate total release to the ocean of < 200 gallons.

If you have any questions, please feel free to contact Cliff Johnson of my staff at 684-644-2860.

Respectfully,

Virgil Shouse
Operations Manager
Starkist Samoa Inc.

cc: Ms. Sheila Wiegman
Mr. Barry Mills
Mr. Norman Wei
Mr. Cliff Johnson

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
75 Hawthorne Street
San Francisco, CA 94105

October 21, 1993

Norman Wei
Senior Manager
Environmental Engineering
Star-Kist Foods, Inc.
Riverfront Place
Newport, KY 41071

Dear Norman:

As you requested, enclosed is the available information we have on Southwest Marine's ship repair facility in American Samoa. I hope this will assist you in the environmental assessment you will be conducting as part of your company's consideration of leasing the facility from the American Samoa Government. The information enclosed is Southwest Marine's NPDES application, dated October 4, 1988, and a Best Management Practices Guidance Document for the Shipbuilding and Repair Industry, obtained from Southwest Marine's parent company in San Diego.

Please feel free to contact Mike Lee, Enforcement/Compliance Officer, at (415) 744-1592, if you need further information about the condition of the facility.

Sincerely,

Pat

Pat Young
American Samoa Program Manager
Office of Pacific Island and
Native American Programs (E-4)

Enclosures (2)

cc: Sheila Wiegman, ASEPA
Mike Lee, E-4
Robyn Stuber, W-5-1

Copy to Mikehee
Robyn Stuber

Star-Kist Foods, *Inc.*

Memo

DATE: 22 September, 1993

TO: Patricia N.N. Young
American Samoa Program Manager
US EPA Region 9

Sheila Wiegman
American Samoa EPA

FROM: Norman S. Wei

SUBJECT: **Wastewater Treatment System Evaluation for StarKist Samoa, Inc.**

Our plant has evaluated the four recommendations made by CH_2M Hill in its report prepared for StarKist Samoa pursuant to Section K of our NPDES Permit AS0000019 and the following is our schedule of implementation:

1. **Air Flow Measurement.** A flow meter has been ordered by the plant and will be installed as soon as it arrives. Estimated completion data is first week of November 1993.

2. **Jar Testing of Coagulant Dosages.** This has already been implemented.

3. **Operation Procedures Manual.** Plant personnel is preparing the written procedures. They will be completed by December 1993.

4. **Alarm System.** Closer monitoring of all systems has been put in place to prevent overflows. The plant will evaluate the feasibility of installing an alarm system.

We will report back to you once these improvements are put in place.

cc: R. Riddell
B. Higgins
M. Callaghan
B. Mills

D:\wei\samoa\status

Copy to Mike Lee
Robyn Stuber
(W-5-1)

Engineers
Planners
Economists
Scientists

FAX No. 510/893-8205

FAX Cover Sheet

INFORMATION TO:

Name: Patricia N. N. Young
Company: USEPA
Office No.: (415) 744-1544
Fax No.: (415) 744-1604
Name: David Wilson / SEA
Company:
Office No.:
FAX No..

INFORMATION FROM:

Name: Steve Costa / SFO
Company: CH2M HILL
Subject:

Date: 9-9-93

Do you want your original back? (YES) NO

TOTAL NO. OF PAGES TRANSMITTED INCLUDING COVER SHEET 6

IF YOU DO NOT RECEIVE ALL OF THE PAGES, PLEASE CALL OUR RECEPTIONIST AT 510/251-2426 BETWEEN 7:30 A.M. AND 5:30 P.M. PACIFIC TIME.

REMARKS:

CH2M HILL 1111 Broadway, Suite 1200 Oakland, CA 94607-4046 510.251.2426 FAX 510.893.8205

STO210.A0

Engineers
Planners
Economists
Scientists

9 September 1993
BY FAX

PDX30702.MA

Patricia N.N. Young
American Samoa Program Manager
Office of Pacific Islands and Native American Programs
U.S. Environmental Protection Agency
75 Hawthorne Street (E-4)
San Francisco, California 94105

Dear Pat:

Subject: Joint Cannery Outfall NPDES Studies: Status and Action Items

This letter is an informal status report of the various studies being done by CH2M HILL for StarKist Samoa and VCS Samoa Packing. The purposes of the letter are to: [1] list the studies completed and reports forwarded to USEPA and ASEPA, and [2] list the action items needed from USEPA/ASEPA to finalize plans for the second set of field studies.

Completed Studies (February 1993 Field Data)

We have completed the analysis and reporting for the first field sampling period conducted in February 1993. I believe all of the required reports and documentation have been submitted to USEPA and ASEPA. If any additional material is required, or if you have any questions on the reports, please contact me at your convenience. The only remaining item to be delivered is the video record of the coral reef survey. The tapes are being collated and reproduced and copies will be forwarded by the end of September. The reports submitted to date include the following:

- "Sediment Monitoring Study: February 1993 Data Collection". Technical memorandum prepared for StarKist Samoa and VCS Samoa Packing. CH2M HILL, 29 April 1993.

- "Chemical Analysis of Effluent: February 1993 Sampling". Technical memorandum prepared for StarKist Samoa. CH2M HILL, 29 April 1993.

- "Chemical Analysis of Effluent: February 1993 Sampling". Technical memorandum prepared for VCS Samoa Packing. CH2M HILL, 30 April 1993.

- "Bioassay Testing of Effluent: February 1993 Sampling". Technical Memorandum prepared for StarKist Samoa and VCS Samoa Packing. CH2M HILL, 10 May 1993.

- "Wastewater Treatment System Evaluation for StarKist Samoa, Inc.". Report prepared for StarKist Samoa. CH2M HILL, May 1993

- "Joint Cannery Outfall Dye Study Report: Non-tradewind Season". Report prepared for StarKist Samoa and VCS Samoa Packing. CH2M HILL, July 1993

- "Joint Cannery Outfall Coral Reef Survey Report: February 1993 Survey". Report prepared for StarKist Samoa and VCS Samoa Packing. CH2M HILL, August 1993

Action Items and Questions (October 1993 Field Studies)

We are preparing for the next field data collection period planned for 29 September through 9 October 1993. There are a few unresolved issues that should be addressed. The only critical issue is approval or modification of the Eutrophication Study Plan. Action taken on this plan could effect equipment shipping and staff scheduling in the field. The other items that need to be addressed are not critical to immediate project planning and equipment shipping, but some of them should be resolved prior to project staff travel to Pago Pago. A list of issues is provided below arranged by field activity:

Eutrophication Study. We need approval or comments on modifications of the study plan, in particular the field portion of the study plan, prior to shipping equipment to American Samoa (about 15 Sept 93). Comments on the available data analysis and modeling portions of the study can be addressed after the field work is completed. However, the field portion of the study is planned to be concurrent with the dye study. This will allow a more complete description of physical conditions in the harbor and effluent plume behavior during the field portion of the eutrophication study than would otherwise be possible.

In addition we will need some of the ASG field monitoring data for TN and TP prior to the experiment to determine dosage levels. We can carry out the field experiments without the data but the results may not be as useful for characterizing the response curves used in the subsequent analysis and modeling.

Effluent Chemistry. We propose to eliminate dioxin and asbestos testing from the priority pollutant testing of the effluent. All other constituents will be tested for. We request EPA approval for this modification. There is no identifiable source of dioxin or asbestos in the effluent and the previous test were negative. We note that the second effluent chemistry test is 7 months after the first test, rather than six. This was due to rescheduling the other field work. Although the sampling could have been done earlier we believe it is valuable to maintain consistency in project staff and methodology for the first two tests.

Effluent Bioassays. We propose to use a combined cannery effluent sample as done in the first bioassay test. We also propose to include an immediate dissolved oxygen demand (IDOD) test on the effluent sample as discussed in the report on the first bioassay tests. The bioassay tests will then be run with sufficient aeration to maintain DO sufficient to support the test organism. We request that EPA approve a substitute organism(s) in the event that the juvenile white shrimp specified in the NPDES permit is unavailable. We recommend *Mysidopsis bahia* and/or *Holmesimysis costata*. We will make every reasonable attempt to obtain *Penaeus vannamei* for the test.

As in the case of the chemical testing, the second effluent bioassay test is 7 months after the first test, rather than six because of rescheduling of other field work. As in the case of the chemical testing, the sampling could have been done earlier. However, it was desirable to maintain consistency in project staff and methodology for the first two tests. We note that shipping from American Samoa is difficult and, although we will make every reasonable attempt to meet holding time protocols, some flexibility may be required. We plan to return from American Samoa with the samples carried as excess baggage to minimize shipping time, maintain custody of the samples, and facilitate immediate delivery to the laboratory.

Model Prediction Verification Study. This study plan needs review and approval, but approval is not needed prior to the field work in Pago Pago Harbor in September/October 1993. We will respond to comments and concerns on this study when received. This study is intended to be concur-

rent and associated with the modeling portion of the eutrophication study, and the reviewers should be aware of both study plans.

Sediment Monitoring Study. The revised study plan has been reviewed and approved by EPA.

Dye Study Plan. The revised dye study plan for the tradewind season has been reviewed and approved by EPA.

Coral Reef Survey. No revisions are proposed to the original study plan. The next survey is scheduled for February 1995.

I have prepared a summary of issues which we need resolved in the attached table. The date column in the table indicates the time frame need for project planning. Please let me know if any of the issues or dates are unrealistic so we can make some alternative plans. I realize you are busy and appreciate any time you can provide to review these issues. I am available to discuss any of these issues with you or your staff or reviewers as required.

I have sent the same information to Sheila Wiegman at ASEPA. I will call you later this week to discuss the September/October '93 field data collection. If you have any questions please feel free to call me at your convenience.

Sincerely,

CH2M HILL

Steven L. Costa
Project Manager

cc: Norman Wei, StarKist Seafood Company
James Cox, Van Camp Seafood Company
Maurice Callaghan, StarKist Samoa, Inc.
Michael Macready, VCS Samoa Packing Company
David Wilson/CH2M HILL/SEA

Costa to Young
9 September 1993 (BY FAX)
PDX30702.MA - Page 5

Summary of Requested Action Items

Item	Action Requested	Date
Review of Eutrophication Study Plan - Field Portion of Study	Review and Comment; Approve/Disapprove	15 Sept 93
Review of Eutrophication Study Plan - Complete Study	Review and Comment	28 Sept 93
Monitoring Data for TN and TP	Data from ASEPA	28 Sept 93
Effluent Chemistry - eliminate dioxin and asbestos from tests	Approve or Disapprove	28 Sept 93
Bioassay Tests - use of combined effluent and aeration during tests	Approve or Disapprove	28 Sept 93
Bioassay Tests - substitute organisms (only as a contingency)	Approve or Disapprove; or specify alternative	28 Sept 93
Model Verification Study Plan	Review and Comment	1 Nov 93

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
75 Hawthorne Street
San Francisco, CA 94105

September 16, 1993

Steven L. Costa
Project Manager
CH2M Hill
P.O. Box 12681
Oakland, CA 94604-2681

Re: Approval of Revised Joint Cannery Outfall Eutrophication Study Plan

Dear Steve:

We have reviewed both the original (9/1/93) and the revised (9/9/93) proposed eutrophication study plan, required by the canneries' NPDES permits. In general, the plans appear to be adequate in design and scope and we approve the complete study plan--the field study portion as well as the data analysis and modeling. We also approve the extension of completion of the eutrophication study by six months so that the field portion of the study can be conducted concurrently with the second dye study. Thus, the eutrophication study will be completed within 18 months of effective date of permit (changed from one year). Minor comments to the plan are listed below:

1. We consulted with Anne Seglio and Mike Behrenfeld, productivity experts at ORD/ERL in Newport, Oregon, regarding the proposed substitution of chlorophyll-a concentrations and cell counts as an acceptable measurement of the effects of nutrient stimulation in place of the originally-proposed carbon-14 uptake measurements. Their recommendation is that, in addition to the algal biomass changes, measurement of dissolved oxygen (DO) changes would provide confirmatory data for the effects of nutrient stimulation. The DO changes would provide information about the effects of bacteria on phytoplankton death and decay, in addition to growth stimulation. They believe that carbon-14 uptake measurements would likely overestimate the nutrient stimulatory effects, whereas the revised proposal, together with DO measurements, would tend to be more conservative (and more accurate).

2. One of the reviewers at EPA Region 9 expressed concern that CH2M Hill will rely too heavily on historical sediment and water quality data obtained by agencies of the American Samoa Government (see Analysis of Available Data on page 5). There is reason to believe that some of this past data may be inaccurate or obtained with less than optimum QA/QC procedures. We suggest that CH2M Hill use rely more on the 1979

Baseline Water Quality Survey data obtained by M&E Pacific, Inc., or the field data obtained by CH2M Hill in earlier surveys.

3. Other questions raised were whether 3 sample sites, one each from the Inner, Middle and Outer Harbor, would be sufficient, and how would the locations of these sites be selected. It is recommended that the sampling sites be chosen in consultation with the American Samoa Environmental Protection Agency.

Please call Pat Young at 415/744-1594 if you have any questions regarding the above.

Sincerely,

James B. Brun

for Norman L. Lovelace, Chief
Office of Pacific Island and Native
American Programs (E-4)

cc: Jim Cox, Van Camp Seafood Company
Norman Wei, StarKist Seafood Company
Tony Tausaga, American Samoa EPA
Sheila Wiegman, American Samoa EPA

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
75 Hawthorne Street
San Francisco, CA 94105
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REGION IX
75 Hawthorne Street
San Francisco, CA 94105

September 16, 1993

Steven L. Costa
Project Manager
CH2M Hill
P.O. Box 12681
Oakland, CA 94604-2681

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Dear Steve:

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1. We consulted with Anne Seglio and Mike Behrenfeld, productivity experts at ORD/ERL in Newport, Oregon, regarding the proposed substitution of chlorophyll-a concentrations and cell counts as an acceptable measurement of the effects of nutrient stimulation in place of the originally-proposed carbon-14 uptake measurements. Their recommendation is that, in addition to the algal biomass changes, measurement of dissolved oxygen (DO) changes would provide confirmatory data for the effects of nutrient stimulation. The DO changes would provide information about the effects of bacteria on phytoplankton death and decay, in addition to growth stimulation. They believe that carbon-14 uptake measurements would likely overestimate the nutrient stimulatory effects, whereas the revised proposal, together with DO measurements, would tend to be more conservative (and more accurate).

SYMBOL						
SURNAME	[illegible]					
DATE	9/16/93					

U.S. EPA CONCURRENCES OFFICIAL FILE COPY

2. One of the reviewers at EPA Region 9 expressed concern that CH2M Hill will rely too heavily on historical sediment and water quality data obtained by agencies of the American Samoa Government (see Analysis of Available Data on page 5). There is reason to believe that some of this past data may be inaccurate or obtained with less than optimum QA/QC procedures. We suggest that CH2M Hill use rely more on the 1979 Baseline Water Quality Survey data obtained by M&E Pacific, Inc., or the field data obtained by CH2M Hill in earlier surveys.

3. Other questions raised were whether 3 sample sites, one each from the Inner, Middle and Outer Harbor, would be sufficient, and how would the locations of these sites be selected. It is recommended that the sampling sites be chosen in consultation with the American Samoa Environmental Protection Agency.

Please call Pat Young at 415/744-1594 if you have any questions regarding the above.

Sincerely,

Norman L. Lovelace, Chief
Office of Pacific Island and Native
American Programs (E-4)

cc: Jim Cox, Van Camp Seafood Company
Norman Wei, StarKist Seafood Company
Tony Tausaga, American Samoa EPA
Sheila Wiegman, American Samoa EPA

bc: Robyn Stuber, W-5-1
Dave Stuart, W-7-1
Mike Lee, E-4

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
75 Hawthorne Street
San Francisco, Ca. 94105-3901

MEMORANDUM

SEP 14 1993

SUBJECT: Proposed Eutrophication and Model Prediction Verification Study Plans

TO: Pat Young
American Samoa Program Manager (E-4)

FROM: David Stuart
Maine Protection Section (W-7-1)

THRU: Janet Hashimoto
Chief, Marine Protection Section

I have reviewed both the original (9/1/93) and the revised (9/9/93) CH2M Hill proposed eutrophication and model prediction verification study plans, required by the Joint Cannery Outfall NPDES permit. In general, the plans appear to be adequate in design and scope. CH2M Hill was the principal contractor involved in the wastefield transport studies for the San Francisco Ocean Outfall, which we consider a definitive study. Thus, they seem to know the best methods and QA/QC procedures for obtaining accurate results.

My only concern is that CH2M Hill will rely too heavily on historical sediment and water quality data obtained by agenies of the American Samoa Government (see Analysis of Available Data on p. 5). There is reason to believe that much of this past data is inaccurate or obtained with less than optimum QA/QC procedures. I would suggest that CH2M Hill use instead the 1979 Baseline Water Quality Survey data obtained by M&E Pacific, Inc. or the field data obtained by CH2M Hill in earlier surveys.

I consulted Anne Seglio and Mike Behrenfeld, productivity experts at ORD/ERL in Newport, Oregon, regarding the proposed substitution of chlorophyll concentrations and cell counts as an acceptable measurement of the effects of nutrient stimulation in place of the originally-proposed carbon-14 uptake measurements. Their recommendation is that, in addition to the algal biomass changes, measurement of dissolved oxygen (DO) changes would provide confirmatory data for the effects of nutrient stimulation. The DO changes would provide information about the effects of bacteria on phytoplankton death and decay in addition to growth stimulation. They believe that carbon-14 uptake measurements would likely overestimate the nutrient stimulatory effects, whereas the revised proposal together with DO measurements would tend to be more conservative (more accurate).

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EPA FORM R TOXIC CHEMICAL RELEASE INVENTORY REPORTING FORM

United States Environmental Protection Agency

Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986, also known as Title III of the Superfund Amendments and Reauthorization Act

TRI FACILITY ID NUMBER
96799STRKSNA
Toxic Chemical, Category, or Generic Name
SODIUM HYDROXIDE

WHERE TO SEND COMPLETED FORMS:

1. EPCRA Reporting Center
P.O Box 23779
Washington, DC 20026-3779
ATTN: TOXIC CHEMICAL RELEASE INVENTORY

2. APPROPRIATE STATE OFFICE
(See instructions in Appendix F)

Enter "X" here if this is a revision: [ ]

For EPA use only

IMPORTANT: See instructions to determine when "Not Applicable (NA)" boxes should be checked.

PART I. FACILITY IDENTIFICATION INFORMATION

SECTION 1. REPORTING YEAR

19 92

SECTION 2. TRADE SECRET INFORMATION

2.1 Are you claiming the toxic chemical identified on page 3 trade secret?

[ ] Yes (Answer question 2.2; Attach substantiation forms)

[XXX] No (Do not answer 2.2; Go to Section 3)

2.2 If yes in 2.1, is this copy: [ ] Sanitized [ ] Unsanitized

SECTION 3. CERTIFICATION (Important: Read and sign after completing all form sections.)

I hereby certify that I have reviewed the attached documents and that, to the best of my knowledge and belief, the submitted information is true and complete and that the amounts and values in this report are accurate based on reasonable estimates using data available to the preparers of this report.

Name and official title of owner/operator or senior management official:
MAURICE W. CALLAGHAN; STARKIST SAMOA GENERAL MANAGER

Signature: X [signature] Date Signed: 7.14.93

SECTION 4. FACILITY IDENTIFICATION

4.1

Facility or Establishment Name: STARKIST SAMOA, INC.

TRI Facility ID Number: 96799STRKSNA

Street Address: MAIN STREET

City: PAGO PAGO

County:

State: AMERICAN SAMOA

Zip Code: 96799

Mailing Address (if different from street address): STARKIST SAMOA, INC.

City: P.O BOX 368, PAGO PAGO

State: AMERICAN SAMOA

Zip Code: 96799

96799 STRKSNA
STARKIST SAMOA INC.
P.O. BOX 368 - ATU'U VILLAGE
PAGO PAGO SAMOA, AS 96799

EPA
United States Environmental Protection Agency

EPA FORM R

PART II. CHEMICAL-SPECIFIC INFORMATION

TRI FACILITY ID NUMBER: 96799STRKSNA

Toxic Chemical, Category, or Generic Name: SODIUM HYDROXIDE

SECTION 1. TOXIC CHEMICAL IDENTITY (Important: DO NOT complete this section if you complete Section 2 below.)

1.1 CAS Number (Important: Enter only one number exactly as it appears on the Section 313 list. Enter category code if reporting a chemical category.)

001310-73-2

1.2 Toxic Chemical or Chemical Category Name (Important: Enter only one name exactly as it appears on the Section 313 list.)

SODIUM HYDROXIDE

1.3 Generic Chemical Name (Important: Complete only if Part I, Section 2.1 is checked "yes." Generic Name must be structurally descriptive.)

SODIUM HYDROXIDE

SECTION 2. MIXTURE COMPONENT IDENTITY (Important: DO NOT complete this section if you complete Section 1 above.)

2.1 Generic Chemical Name Provided by Supplier (Important: Maximum of 70 characters, including numbers, letters, spaces, and punctuation.)

SECTION 3. ACTIVITIES AND USES OF THE TOXIC CHEMICAL AT THE FACILITY

(Important: Check all that apply.)

3.1 Manufacture the toxic chemical:

- a. ☐ Produce
- b. ☐ Import

If produce or import:

- c. ☐ For on-site use/processing
- d. ☐ For sale/distribution
- e. ☐ As a byproduct
- f. ☐ As an impurity

3.2 Process the toxic chemical:

- a. ☐ As a reactant
- b. ☐ As a formulation component
- c. ☐ As an article component
- d. ☐ Repackaging

3.3 Otherwise use the toxic chemical:

- a. ☐ As a chemical processing aid
- b. ☐ As a manufacturing aid
- c. ☐ Ancillary or other use

SECTION 4. MAXIMUM AMOUNT OF THE TOXIC CHEMICAL ON-SITE AT ANY TIME DURING THE CALENDAR YEAR

4.1 .04 (Enter two-digit code from instruction package.)

EPA
United States Environmental Protection Agency

EPA FORM R

PART II. CHEMICAL-SPECIFIC INFORMATION (CONTINUED)

TRI FACILITY ID NUMBER
96799STRKSNA
Toxic Chemical, Category, or Generic Name
SODIUM HYDROXIDE

SECTION 5.3 ADDITIONAL INFORMATION ON RELEASES OF THE TOXIC CHEMICAL TO THE ENVIRONMENT ON-SITE

5.3	Discharges to receiving streams or water bodies (enter one name per box)	A. Total Release (pounds/year) (enter range code from instructions or estimate)	B. Basis of Estimate (enter code)	C. % From Stormwater
5.3.__	Stream or Water Body Name			
5.3.__	Stream or Water Body Name			
5.3.__	Stream or Water Body Name			

SECTION 6. TRANSFERS OF THE TOXIC CHEMICAL IN WASTES TO OFF-SITE LOCATIONS

6.1 DISCHARGES TO PUBLICLY OWNED TREATMENT WORKS (POTW)

6.1.A Total Quantity Transferred to POTWs and Basis of Estimate

6.1.A.1 Total Transfers (pounds/year) (enter range code or estimate)	6.1.A.2 Basis of Estimate (enter code)
N/A	N/A

6.1.B POTW Name and Location Information

6.1.B.__		6.1.B.__	
POTW Name	N/A	POTW Name	N/A
Street Address	N/A	Street Address	N/A
City	N/A	City	N/A
County	N/A	County	N/A
State	N/A	State	N/A
Zip Code	N/A	Zip Code	N/A

If additional pages of Part II, Sections 5.3 and/or 6.1 are attached, indicate the total number of pages in this box [ ] and indicate which Part II, Sections 5.3/6.1 page this is, here. [ ]

(example: 1, 2, 3, etc.)

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United States Environmental Protection Agency

EPA FORM R

PART II. CHEMICAL-SPECIFIC INFORMATION (CONTINUED)

TRI FACILITY ID NUMBER: 96799STRKSNA

Toxic Chemical, Category, or Generic Name: SODIUM HYDROXIDE

SECTION 7A. ON-SITE WASTE TREATMENT METHODS AND EFFICIENCY

☐ Not Applicable (NA) - Check here if no on-site waste treatment is applied to any waste stream containing the toxic chemical or chemical category.

a. General Waste Stream (enter code)	b. Waste Treatment Method(s) Sequence [enter 3-character code(s)]	c. Range of Influent Concentration	d. Waste Treatment Efficiency Estimate	e. Based on Operating Data?
7A.1a	7A.1b: 1 P14, 2, 3, 4, 5, 6, 7, 8	7A.1c: 2	7A.1d: 100 %	7A.1e: Yes XXX / No
7A.2a	7A.2b: 1, 2, 3, 4, 5, 6, 7, 8	7A.2c	7A.2d: %	7A.2e: Yes / No
7A.3a	7A.3b: 1, 2, 3, 4, 5, 6, 7, 8	7A.3c	7A.3d: %	7A.3e: Yes / No
7A.4a	7A.4b: 1, 2, 3, 4, 5, 6, 7, 8	7A.4c	7A.4d: %	7A.4e: Yes / No
7A.5a	7A.5b: 1, 2, 3, 4, 5, 6, 7, 8	7A.5c	7A.5d: %	7A.5e: Yes / No

If additional copies of page 7 are attached, indicate the total number of pages in this box ☐ and indicate which page 7 this is, here. ☐ (example: 1, 2, 3, etc.)

EPA
United States Environmental Protection Agency

EPA FORM R

PART II. CHEMICAL-SPECIFIC INFORMATION (CONTINUED)

TRI FACILITY ID NUMBER: 96799STRKSNA

Chemical Category or Generic Name: SODIUM HYDROXIDE

SECTION 8. SOURCE REDUCTION AND RECYCLING ACTIVITIES

	All quantity estimates can be reported using up to two significant figures.	Column A 1990 (pounds/year)	Column B 1991 (pounds/year)	Column C 1992 (pounds/year)	Column D 1993 (pounds/year)
8.1	Quantity released *	1	0	0	0
8.2	Quantity used for energy recovery on-site	0	0	0	0
8.3	Quantity used for energy recovery off-site	0	0	0	0
8.4	Quantity recycled on-site	0	0	0	0
8.5	Quantity recycled off-site	0	0	0	0
8.6	Quantity treated on-site	64000	64000	64000	64000
8.7	Quantity treated off-site	0	0	0	0

8.8	Quantity released to the environment as a result of remedial actions, catastrophic events, or one-time events not associated with production processes (pounds/year)	0
8.9	Production ratio or activity index	n/a

8.10 Did your facility engage in any source reduction activities for this chemical during the reporting year? If not, enter "NA" in Section 8.10.1 and answer Section 8.11.

	Source Reduction Activities [enter code(s)]	Methods to Identify Activity (enter codes)		
8.10.1	n/a	a.	b.	c.
8.10.2		a.	b.	c.
8.10.3		a.	b.	c.
8.10.4		a.	b.	c.

		YES	NO
8.11	Is additional optional information on source reduction, recycling, or pollution control activities included with this report? (Check one box)	☐	☒ XXXX

* Report releases pursuant to EPCRA Section 329(8) including "any spilling, leaking, pumping, pouring, emitting, emptying, discharging, injecting, escaping, leaching, dumping, or disposing into the environment." Do not include any quantity treated on-site or off-site.

Copy to Mike Rcd 7/26/93

(IMPORTANT: Type or print; read instructions before completing form) Approval Expires: 11/92

EPA
United States Environmental Protection Agency

FORM R TOXIC CHEMICAL RELEASE INVENTORY REPORTING FORM

Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986, also known as Title III of the Superfund Amendments and Reauthorization Act

TRI FACILITY ID NUMBER
96799STRKSNA
Toxic Chemical, Category, or Generic Name
CHLORINE

WHERE TO SEND COMPLETED FORMS:
1. EPCRA Reporting Center, P.O. Box 23779, Washington, DC 20026-3779, ATTN: TOXIC CHEMICAL RELEASE INVENTORY
2. APPROPRIATE STATE OFFICE (See instructions in Appendix F)

Enter "X" here if this is a revision: [ ]

For EPA use only

IMPORTANT: See instructions to determine when "Not Applicable (NA)" boxes should be checked.

PART I. FACILITY IDENTIFICATION INFORMATION

SECTION 1. REPORTING YEAR

19 92

SECTION 2. TRADE SECRET INFORMATION

2.1 Are you claiming the toxic chemical identified on page 3 trade secret?
[ ] Yes (Answer question 2.2; Attach substantiation forms) [XXX] No (Do not answer 2.2; Go to Section 3)

2.2 If yes in 2.1, is this copy: [ ] Sanitized [ ] Unsanitized

SECTION 3. CERTIFICATION (Important: Read and sign after completing all form sections.)

I hereby certify that I have reviewed the attached documents and that, to the best of my knowledge and belief, the submitted information is true and complete and that the amounts and values in this report are accurate based on reasonable estimates using data available to the preparers of this report.

Name and official title of owner/operator or senior management official:
MAURICE W. CALLAGHAN; STARKIST SAMOA GENERAL MANAGER

Signature: X Maurice W. Callaghan Date Signed: 7.14.93

SECTION 4. FACILITY IDENTIFICATION

4.1
Facility or Establishment Name: STARKIST SAMOA, INC.
TRI Facility ID Number:
Street Address: MAIN STREET
City: PAGO PAGO
County:
State: AMERICAN SAMOA
Zip Code: 96799
Mailing Address (if different from street address): STARKIST SAMOA, INC.
City: P.O BOX 368
State: AMERICAN SAMOA
Zip Code: 96799

96799 STRKSNA
STAR-KIST SAMOA INC.
P.O. BOX 368 - ATU'U VILLAGE
PAGO PAGO SAMOA, AS 96799

EPA
United States Environmental Protection Agency

EPA FORM R

PART II. CHEMICAL-SPECIFIC INFORMATION

TRI FACILITY ID NUMBER: 96799STRKSNA

Toxic Chemical, Category, or Generic Name: CHLORINE

SECTION 1. TOXIC CHEMICAL IDENTITY (Important: DO NOT complete this section if you complete Section 2 below.)

1.1	CAS Number (Important: Enter only one number exactly as it appears on the Section 313 list. Enter category code if reporting a chemical category.)
	7782-50-5
1.2	Toxic Chemical or Chemical Category Name (Important: Enter only one name exactly as it appears on the Section 313 list.)
	CHLORINE
1.3	Generic Chemical Name (Important: Complete only if Part I, Section 2.1 is checked "yes." Generic Name must be structurally descriptive.)
	CHLORINE

SECTION 2. MIXTURE COMPONENT IDENTITY (Important: DO NOT complete this section if you complete Section 1 above.)

2.1	Generic Chemical Name Provided by Supplier (Important: Maximum of 70 characters, including numbers, letters, spaces, and punctuation.)

SECTION 3. ACTIVITIES AND USES OF THE TOXIC CHEMICAL AT THE FACILITY

(Important: Check all that apply.)

3.1	Manufacture the toxic chemical:	a. ☐ Produce b. ☐ Import	If produce or import: c. ☐ For on-site use/processing d. ☐ For sale/distribution e. ☐ As a byproduct f. ☐ As an impurity
3.2	Process the toxic chemical:	a. ☐ As a reactant b. ☐ As a formulation component	c. ☐ As an article component d. ☐ Repackaging
3.3	Otherwise use the toxic chemical:	a. ☐ As a chemical processing aid b. ☐ As a manufacturing aid	c. ☒ Ancillary or other use

SECTION 4. MAXIMUM AMOUNT OF THE TOXIC CHEMICAL ON-SITE AT ANY TIME DURING THE CALENDAR YEAR

4.1	.03	(Enter two-digit code from instruction package.)

EPA
United States Environmental Protection Agency

EPA FORM R

PART II. CHEMICAL-SPECIFIC INFORMATION (CONTINUED)

TRI FACILITY ID NUMBER
96799STRKSNA
Toxic Chemical, Category, or Generic Name
CHLORINE

SECTION 5.3 ADDITIONAL INFORMATION ON RELEASES OF THE TOXIC CHEMICAL TO THE ENVIRONMENT ON-SITE

5.3	Discharges to receiving streams or water bodies (enter one name per box)	A. Total Release (pounds/year) (enter range code from instructions or estimate)	B. Basis of Estimate (enter code)	C. % From Stormwater
5.3.__	Stream or Water Body Name			
5.3.__	Stream or Water Body Name			
5.3.__	Stream or Water Body Name			

SECTION 6. TRANSFERS OF THE TOXIC CHEMICAL IN WASTES TO OFF-SITE LOCATIONS

6.1 DISCHARGES TO PUBLICLY OWNED TREATMENT WORKS (POTW)

6.1.A Total Quantity Transferred to POTWs and Basis of Estimate

6.1.A.1 Total Transfers (pounds/year) (enter range code or estimate)	6.1.A.2 Basis of Estimate (enter code)
N/A	N/A

6.1.B POTW Name and Location Information

6.1.B.__ POTW Name	N/A	6.1.B.__ POTW Name	N/A
Street Address	N/A	Street Address	N/A
City	N/A	City	N/A
County	N/A	County	N/A
State	N/A	State	N/A
Zip Code	N/A	Zip Code	N/A

If additional pages of Part II, Sections 5.3 and/or 6.1 are attached, indicate the total number of pages in this box [ ] and indicate which Part II, Sections 5.3/6.1 page this is, here. [ ]
(example: 1, 2, 3, etc.)

EPA
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EPA FORM R

PART II. CHEMICAL-SPECIFIC INFORMATION (CONTINUED)

TRI FACILITY ID NUMBER: 96799STRKSNA

Toxic Chemical, Category, or Generic Name: CHLORINE

SECTION 7A. ON-SITE WASTE TREATMENT METHODS AND EFFICIENCY

☐ Not Applicable (NA) - Check here if no on-site waste treatment is applied to any waste stream containing the toxic chemical or chemical category.

a. General Waste Stream (enter code)	b. Waste Treatment Method(s) Sequence [enter 3-character code(s)]	c. Range of Influent Concentration	d. Waste Treatment Efficiency Estimate	e. Based on Operating Data?
7A.1a	7A.1b: 1 P14; 2; 3; 4; 5; 6; 7; 8	7A.1c: 4	7A.1d: 100 %	7A.1e: Yes ☐ No XXX
7A.2a	7A.2b: 1 C99; 2; 3; 4; 5; 6; 7; 8	7A.2c: 4	7A.2d: 100 %	7A.2e: Yes ☐ No XXX
7A.3a	7A.3b: 1; 2; 3; 4; 5; 6; 7; 8	7A.3c:	7A.3d: %	7A.3e: Yes ☐ No ☐
7A.4a	7A.4b: 1; 2; 3; 4; 5; 6; 7; 8	7A.4c:	7A.4d: %	7A.4e: Yes ☐ No ☐
7A.5a	7A.5b: 1; 2; 3; 4; 5; 6; 7; 8	7A.5c:	7A.5d: %	7A.5e: Yes ☐ No ☐

If additional copies of page 7 are attached, indicate the total number of pages in this box ☐ and indicate which page 7 this is, here. ☐ (example: 1, 2, 3, etc.)

EPA
United States Environmental Protection Agency

EPA FORM R

PART II. CHEMICAL-SPECIFIC INFORMATION (CONTINUED)

TRI FACILITY ID NUMBER: 96799STRKSNA

Chemical Category or Generic Name: CHLORINE

SECTION 8. SOURCE REDUCTION AND RECYCLING ACTIVITIES

All quantity estimates can be reported using up to two significant figures.		Column A 1990 (pounds/year)	Column B 1991 (pounds/year)	Column C 1992 (pounds/year)	Column D 1993 (pounds/year)
8.1	Quantity released *	50	0	0	0
8.2	Quantity used for energy recovery on-site	0	0	0	0
8.3	Quantity used for energy recovery off-site	0	0	0	0
8.4	Quantity recycled on-site	0	0	0	0
8.5	Quantity recycled off-site	0	0	0	0
8.6	Quantity treated on-site	0	0	0	0
8.7	Quantity treated off-site	0	0	0	0

8.8	Quantity released to the environment as a result of remedial actions, catastrophic events, or one-time events not associated with production processes (pounds/year)	0
8.9	Production ratio or activity index	n/a

8.10 Did your facility engage in any source reduction activities for this chemical during the reporting year? If not, enter "NA" in Section 8.10.1 and answer Section 8.11.

	Source Reduction Activities [enter code(s)]	Methods to Identify Activity (enter codes)		
8.10.1	W31	a. T05	b.	c.
8.10.2		a.	b.	c.
8.10.3		a.	b.	c.
8.10.4		a.	b.	c.

		YES	NO
8.11	Is additional optional information on source reduction, recycling, or pollution control activities included with this report? (Check one box)		XXX

* Report releases pursuant to EPCRA Section 329(8) including "any spilling, leaking, pumping, pouring, emitting, emptying, discharging, injecting, escaping, leaching, dumping, or disposing into the environment." Do not include any quantity treated on-site or off-site.

Engineers
Planners
Economists
Scientists

29 October 1992

PDX369.74

Patricia N.N. Young
American Samoa Program Manager
Office of Pacific Islands and Native American Programs
U.S. Environmental Protection Agency
75 Hawthorne Street (E-4)
San Francisco, California 94105

Dear Pat:

Subject: Joint Cannery Outfall Dye Study Plan

Attached is a draft study plan for dye studies of the Joint Cannery Outfall in Pago Pago Harbor, American Samoa. This study plan is for review by USEPA and ASEPA and is intended to comply with Part F of NPDES Permit Numbers AS0000019 and AS0000-027.

I am forwarding the study plan by FAX to be followed with an original copy by mail. Please provide your comments on the study plan directly to me and to Norman Wei at StarKist and Jim Cox at Van Camp. If you or other reviewers have any questions, please feel free to call me at your convenience.

As indicated in the study plan, the first dye study is scheduled for the first of February. Therefore, timely review of the study plan is necessary to allow sufficient time to arrange for supplies and equipment, schedule staff, and mobilize for the study.

Thank you for your time and attention to this matter.

Sincerely,

CH2M HILL

Steven L. Costa
Project Manager

cc: Norman Wei/StarKist Seafood Company
James Cox/Van Camp Seafood Company

AGENCY REVIEW DRAFT

JOINT CANNERY OUTFALL DILUTION STUDY PLAN

for

StarKist Samoa, Inc.

and

VCS Samoa Packing Company

to comply with NPDES Permits

AS0000019

AS0000027

October 29, 1992

prepared by

CH2M HILL

JOINT CANNERY OUTFALL DILUTION STUDY PLAN

INTRODUCTION

This dilution study plan describes the approach proposed for conducting a wastefield dilution study (dye study) of the effluent discharged from the Joint Cannery Outfall (JCO) located in Pago Pago Harbor, American Samoa. StarKist Samoa, Inc. (SKS) and VCS Samoa Packing Company (VCS) operate and discharge through the outfall. The study plan describes the data to be collected and methods proposed to collect the data. The quality control and quality assurance procedures and the types of data processing are also described.

PURPOSE

The purpose of this study plan is to propose a joint cannery dye study, consisting of two field efforts, to USEPA and ASEPA for approval. The purpose of the proposed dye study is collect the necessary data to better understand the fate of the effluent plume. The data to be collected are intended to provide direct evidence of plume behavior and to provide information to be used to verify model predictions of dilution and dispersion of the wastefield.

BACKGROUND

The canneries began discharging their treated wastewater, after high strength segregation, into the outer harbor in February of 1992. This is a new outfall that replaces individual inner harbor discharges. Newly issued NPDES permits are based on an approved zone of mixing. The size and location of the zone of mixing was based on environmental and engineering studies which included model predictions.

The NPDES permits issued to each cannery require two dye or tracer field studies. These studies are described in Part F of permit numbers AS0000019 and AS0000027. The effective dates of the permits are 27 October 1992. The permit condition is identical for both canneries and reads:

> *Within one week of the effective date of this permit, the permittee shall submit a plan to the ASEPA and EPA to perform dye and/or tracer studies in order to better understand the fate of the effluent plume. The permittee shall perform these studies twice for one year (once during each of the two primary seasons of the year) and submit its findings 30 days after conducting*

> *each study. The date of the first study must be approved by USEPA and ASEPA and shall occur at the earliest possible time a distinct oceanographic season is in effect and no later than four months of the effective date of the permit.*

In the response to comments on the draft NPDES permits EPA indicated that the first study "is to occur no later than six months after the issuance of this permit." This plan proposes the first field study be conducted in February 1993 and the second in September 1993. Therefore the first field study is proposed to be within four months of the effective date of the permit.

APPROACH

This study is designed to obtain accurate measurements of dye injected and completely mixed into the effluent (wastewater tracer) and released through the outfall diffuser. The dye study is intended to provide direct measurements of nearfield and farfield dilution. Dilution of the wastewater will be determined by continuously injecting fluorescent dye into the discharge at a controlled rate for a period of approximately 13 hours. The horizontal and vertical distribution of the resulting plume will be measured throughout a tidal cycle during daylight hours. Environmental parameters that influence plume buoyancy and trajectory will also be measured and recorded including: current speed and direction, tide height, water temperature, conductivity (salinity), and wind speed and direction. Dilution ratios and effluent concentrations will be determined at the edge of the designated zone of mixing, within the zone of mixing, and at various distances beyond the zone of mixing.

The study will be performed during the two distinct oceanographic seasons, tradewind and non-tradewind, and include, to the extent possible, periods of critical receiving water conditions (such as low slack water and tide reversal) that represent the "worst case" for effluent dilutions. However, the circulation and currents in Pago Pago are largely wind driven, and the times of critical periods are not completely predictable. The data collected during the dye study will be used to verify previous modeling in a separate study (Part J in the NPDES permits). The models used were applied to critical conditions, and verification of the models with dye study data will provide the desired confidence in wastefield dilution and transport predictions for worst case conditions.

Field data will be processed and presented in graphical and tabular formats and described in dilution study reports. An interim report will be written and submitted within 30 days of the first dye study and a final report within 30 days of the second study. Supporting data will be included in the report appendices. The data analysis will include evaluation of the measured dilutions and concentrations in terms of compliance with American Samoa water quality standards.

STUDY PERIODS

It is desirable to conduct dilution studies during "critical conditions". Critical conditions are defined as those environmental conditions that result in the lowest initial dilution for the effluent flow of interest. The most important environmental parameters involved are current speed and direction, water depth, and density variations in the vertical direction. For the JCO in Pago Pago Harbor critical conditions are not easily targeted since the currents are generally wind driven, the outfall is deep so the plume is generally trapped below the surface, and the receiving water density gradients are small.

The dye study will be conducted over a tidal cycle to evaluate, if possible, the effect of tidal variations. Variations of environmental parameters over a tidal cycle are small. Most of the environmental variability is found on a seasonal basis. Two distinct oceanographic seasons represent the extremes in current patterns and density structure in Pago Pago Harbor. The non-tradewind season is most pronounced in January and February. The first dye study is targeted for the first week in February. This schedule may change but the study will be conducted within the January-February window. The tradewind season is most pronounced in May through October. August is, on the average, the most intense of the tradewind months and the middle of August is the target date for the second dye study.

STUDY METHODS

The elements of a dye study include injecting dye into the effluent stream to produce known initial concentrations and measuring the subsequent concentrations of dye in the receiving water. The environmental parameters important to the dilution and dispersion processes are also measured to provide a basis for interpreting the results and characterizing the behavior of the wastefield plume. This section of the study plan describes the methods proposed to carry out the elements of the study.

DYE INJECTION

A 20 percent aqueous solution of Rhodamine WT dye will be used as the tracer. This dye is a fluorescent, water soluble, biodegradable tracer that can be accurately measured in extremely small concentrations, typically less than 0.2 part per billion (ppb). A peristaltic, variable-rate laboratory pump (or a variable stroke injector pump) will be used for dye injection. The pump will be calibrated by direct volumetric measurement of dye pumped before and after the study.

Dye Injection Location

Dye will be injected at a point to be determined, at either SKS or VCS, based on available and appropriate injection locations. The final decision on a dye injection point will be determined on site during field mobilization. Effluent flow rates for both canneries will be monitored during the dye study to facilitate any required adjustments in dye injection rate. Initial dye concentrations will be measured from samples extracted from the outfall pipeline through a sampling tap to be installed downstream of the VCS inflow. The sampling port will be a sufficiently far downstream of the injection point to allow the dye to become well mixed with the effluent.

Dye Injection Time

Dye injections will occur over a tidal cycle (about 13 hours) to provide for direct measurements of nearfield and farfield dilutions, and wastefield overlap, if any, due to tidal reversals. Dye injection will have to begin prior to field measurements of the effluent plume. Travel time in the pipe is just over one-half hour for maximum (permitted) flows and about 1.5 hours for low (99-percentile) flows. Therefore, dye injection will start approximately an hour prior to the start of field measurements.

Dye Injection Rate

Dye will be injected at a rate sufficient to produce a discharge concentration of approximately 2 parts per million (ppm) or higher. Assuming a practical dye detection limit of 1 ppb above background, it will be possible to accurately map the dye plume to a point where it has been diluted to 2000:1 or more. Background fluorescence and effluent characteristics, determined during fluorometer calibration, may indicate that higher injection rates and effluent dye concentrations are needed. Sufficient dye will be available during the study to increase dye injection if necessary.

Amount of Dye Required

The amount of dye required and the injection rate will depend on the effluent flow rate. Permit limits for the canneries provide for a combined maximum effluent flow rate of 3.62 million gallons per day (mgd). Targeted initial concentrations of 2 ppm will require dye injection rates of 19 ml/min. For a dye injection period of 13 hours this requires about 4 gallons of dye. Additional dye will available to increase injection rates, if necessary, and to provide a supply for the test injection described below.

FIELD DATA COLLECTION

Dye will be released for approximately 13 hours beginning about 1 hour prior to the start of field measurements and end at or shortly before the cessation of field measurements. A test injection for approximately two hours will be conducted the day

prior to the dye test. This test injection will test the injection system, provide an opportunity to test the field sampling equipment, and provide a preliminary assessment of plume trapping levels which will be used to pre-set the drogue and current meter depths. Field equipment requirements for the dilution study, including backup units, are listed in Table 1. A locally chartered vessel will be used to deploy sampling equipment.

A three-person scientific staff will be aboard the vessel to deploy equipment, monitor recorders and record data, and direct sampling activities. One person will be ashore to monitor dye injection and handle any problems with the positioning system. The vessel will be equipped with a hand-held radio in order to allow communication with the dye injection station and cannery personnel.

Field data collection will include the following elements:

- Monitoring of effluent flow rate, dye injection rate, and initial concentration (as described above)
- Positioning with a Mini-Ranger III navigation system, or equivalent (a backup method will be available)
- Drogue releases to indicate the current direction and provide a means of tracking the wastefield as it moves away from the diffuser location
- Vertical profile measurements of dye concentration with depth at selected locations within, at the edge of, and outside the zone of mixing
- Horizontal transect measurements of dye concentration across the width of the wastefield, if possible and appropriate
- Vertical profiles of conductivity and temperature at the same locations as dye measurements and background measurements of conductivity and temperature
- Current speed and direction at two depths (at the diffuser and at the plume trapping level)
- Wind, wave, water level, and general meteorological observations

The first five elements give information on the actual measurement of wastewater dilution and wastefield location. The next three elements are done to record the physical variables of the receiving water and those environmental parameters that control the behavior of the effluent plume.

Dye Injection and Flow Data

Dye pumping rate and effluent flow will be monitored and recorded during the course of the study. The dye pumping rate will be varied, if necessary, to maintain as constant a dye concentration as possible in the effluent. Initial effluent dye concentrations will be measured in duplicate samples taken, at half-hour intervals, downstream of the injection point throughout the duration of the injection periods.

Positioning

Vessel navigation will be done using a Motorola Mini-Ranger III electronic positioning system. A suitable backup system will be available. Use of a Mini-Ranger III will allow maximum flexibility in establishing survey transects and will provide positioning range accuracy of approximately ±2 meters. Three transponder locations will be selected and referenced to horizontal control points. Transponders will be positioned to provide adequate coverage for expected wastefield positions. A map of Mini-Ranger coordinates will be generated locating the diffuser, the water quality sampling stations referenced in the NPDES permits, and the edge of the mixing zone. This map will be used in the field to assist in positioning for dye measurements.

One or two sets of temporary range markers will be set on the shoreline to provide rapid visual positioning of the diffuser location. The diffuser location will be determined from design and/or as built drawings. By marking the diffuser with visual lines of position, in addition to using the Mini-Ranger system, stations can be located quickly.

Drogues will be released at the diffuser location as moving position markers to indicate plume movement. In the vicinity of the diffuser the centerline of the plume will be located by determining the depth of maximum dye concentration. A subsurface drogue, with a surface piercing marker float or flag, will be set for the depth of the plume centerline and released. The drogue will be followed to the edge of the mixing zone, and beyond if necessary, as the dye concentrations are measured. Drogue release points and positions will be recorded according to Mini-Ranger coordinates. Drogues will be recovered at the end of each plume tracking episode.

Dye Measurements

Dye concentrations will be measured with an onboard Turner Designs Model 10 fluorometer, or equivalent. This instrument measures the light emitted from the fluorescent dye solution in response to illumination by a light source in the instrument. The fluorometer will be set up with the appropriate light source and filters for detection of Rhodamine WT dye. The fluorometer will be operated in a flow-through fashion with

the ambient water at a particular depth and location pumped directly into the fluorometer by a submersible pump.

Receiving waters in and around the zone of mixing will be sampled in two modes:

- Vertical Profiles: water is pumped continuously through the fluorometer hose intake, which is lowered and raised in the water column in order to document the vertical distribution of dye at selected profiling stations

- Horizontally Transects: water is pumped continuously from a hose positioned at a constant depth while the vessel runs along a transect line

Dye concentrations, in terms of fluorescence readings from the instruments, will be recorded simultaneously with horizontal position and depth. General observations, physical measurements, and any problems will be documented. Rhodamine WT dye fluorescence is highly sensitive to changes in solution temperature. Receiving water temperature, therefore, will be continuously monitored to enable fluorometer data to be corrected during data processing.

At a minimum, vertical profiles will be taken in the vicinity of the diffuser and, following the drogue trajectories, at the edge of the mixing zone. Profiles will also be taken inside and outside the mixing zone along drogue trajectories, as time permits. Horizontal transects will be taken, at a minimum at the edge of the mixing zone. Additional transects inside and outside the mixing zone will be taken as time permits. Decisions concerning the locations and number of profiles and transects will be made in the field by senior project staff familiar with the oceanography of the harbor and the operation of the diffuser. This will maximize operational flexibility and the usefulness of the data collected.

Initial dilution samples will be diluted as necessary and dye concentrations measured at the end of the field operations. Grab samples may be collected if necessary during the course of the field operations. Initial dilution samples and grab samples will be measured using the fluorometer setup in the cuvette mode.

Water Column Density Structure Measurement

InterOcean S4 current meters, discussed below, moored near the diffuser will continuously measure temperature and conductivity at two fixed depths. A SeaBird SBE 19 conductivity, temperature, and depth unit (CTD) will be used simultaneously with the fluorometer at the position of the fluorometer intake to measure and record water column properties. CTD profiles will be available for the same times and locations as dye concentration profiles. Background profiles, outside the effluent plume, will also be taken before, during, and after the dye study period.

Current Measurements

Current speed and direction measurements will be taken during the study. Two InterOcean S4 current meters will be deployed on a single mooring at the diffuser location. One of the meters will be set about 6 feet from the bottom to measure currents acting directly on the diffuser plumes during initial dilution. The other meter will be deployed at the trapping depth of the plume centerline located as described above. These meters will remain at the same depth throughout the dye study. The mooring will be rigged in the field, probably during the dye injection test, to set the upper meter for the correct depth.

Current speed and direction in the vicinity of the diffuser will also be determined with drogues, which will be released at the plume trapping depth as described above. More than one drogue may be released at the same time. Each drogue will be numbered so it can be traced during the course of the study. At the time of release, the release position will be determined with the Mini-Ranger system. Subsequent position determinations will be made when sampling at the drogue locations. Sequential locations of the drogues will be used to calculate average speed and direction along the drogue trajectories.

General Observations

Wind speed and direction will be measured during the course of the dye study using an instrument on board the vessel. Any existing wind stations will be used, if available, to supplement the on-board measurements. Water level will be determined from a staff mounted on a pier piling or from other available tide elevation sources. One of the S4 current meters is equipped with a pressure sensor which will also provide data on water level variations over the period of the field data collection. General meteorological observations will be noted in a field log.

QUALITY ASSURANCE AND QUALITY CONTROL

OBJECTIVE

The quality assurance and quality control objective for the dye studies is to collect measurements of wastefield dilution and dispersion that are of verifiable and acceptable quality. The following procedures will be used to meet the objective:

- Provide verifiable dye injection rates and initial concentrations

- Provide verifiable fluorometric equipment calibration with pre- and post-fluorometer calibration
- Maintain accurate vessel positioning for wastefield measurements
- Provide equipment redundancy (backup equipment)
- Examine dye injection site and downstream sample collection site to verify proper mixing before initial dilution samples are taken
- Examine all data collected to verify instruments are recording/registering data of acceptable quality
- Examine all processed data and data processing methods to verify that analysis techniques are providing the required information

OPERATIONS PLAN

A detailed operations plan for conducting the dilution ratio study will be developed as the basic element of quality assurance and control activities. The operations plan will be based on CH2M HILL's substantial experience with field dye studies. The operations plan will provide the framework for conducting a technically supportable dye study. The operations plan and associated field protocols will be provided in an appendix to the reports. The operations plan will include a preliminary dye injection and field equipment shakedown exercise the day prior to the dye study.

EQUIPMENT CALIBRATION

All equipment will be obtained prior to the beginning of the dye study. Each instrument will be checked on arrival to confirm that it is in working condition. Each instrument requiring calibration will be calibrated immediately prior to the beginning of the dye study and, when appropriate, following the study. Calibration methods for each instrument are described below. Acceptable factory calibrations will be verified for instruments calibrated by the manufacturer.

Dye Pump

The dye pump will be calibrated at the location where it will be used during the dye study. The flow rate will be calibrated with the dye at ambient temperature by discharging dye into a graduated cylinder for a fixed period of time at various flow rate settings. According to the manufacturer, reproducible metering accuracy of greater than 1 percent can be expected when handling medium-viscosity fluids if fluid differential pressure, fluid viscosity, and electric line voltage remain constant. To verify

that none of these factors is affecting expected dye flow rates during dye injection, dye flow rates will be verified and logged prior to and at the conclusion of dye injection and cumulative dye volume pumped will be logged at 1-hour intervals during injection.

Fluorometers

Fluorometers will be calibrated according to the manufacturer's specification such that they measure total dye concentration in a range of 0.1 to 100.0 ppb. Standards will be prepared with the dye used in the study, effluent from the canneries, and seawater. Seawater will be collected from the study site prior to the dye study, and fluorometers will be calibrated before going into the field. Immediately following the dye study, new calibration curves will be developed using the same standards as in the pre-study calibration. This second set of calibration curves will be compared to the initial calibration data, after correction for temperature. Both calibration curves will be used to correct or adjust the observed dye concentration and dilution.

CTD and S4 Current Meters

The CTD unit and the current meters will be calibrated to the manufacturer's specifications before conducting the dye study. Calibration results will be used during data reduction and calculation of the water column density structure and current fields as required. Calibration histories will be reported for the units used.

Mini-Ranger

The Mini-Ranger will be calibrated to the manufacturer's specifications prior to conducting the dye study. The unit and transponders will be checked against known distances similar to those to be encountered during the study. A calibration range maintained by the National Ocean Service is used for this purpose.

DATA PROCESSING AND PRESENTATION

Field data will be processed and analyzed to determine the measured dilution of the wastefield at various locations inside, at the edge, and outside of the mixing zone. Water column density profile, water levels and current speed data will also be presented. The data will be presented in graphical and tabular formats.

Field data and procedures will be recorded in field logs on the vessel and at the dye injection station. S4 current meter data are recorded internally in the instruments. These data will be downloaded to a portable computer at the end of the day. The CTD data will be monitored and recorded on computer in real time, critical data will be recorded in the field logs. Fluorometric readings will be recorded in the field logs.

Dilutions will be calculated from fluorometric readings after correction for calibration and temperature. Fluorometer data are processed in four steps as follows:

- **Step 1:** Correct fluorometer outputs for temperature
- **Step 2:** Compare pre- and post-calibrations to determine any drift and to make corrections to the conversion between fluorescence and dye concentration
- **Step 3:** Calculate initial and plume concentrations using information from Steps 1 and 2
- **Step 4:** Calculate dilutions using concentrations (initial and plume) from Step 3

Observed dilutions will be presented as vertical profiles and horizontal transects. Profile and transect locations will be indicated on a base map including the diffuser location and the zone of mixing boundary. Other data will be reported and summarized as appropriate including:

- Tabulations and plots of vertical profile measurements of dye, temperature, and salinity
- Tabulations of wind speed and wind direction
- Plots or tables of water levels and current speed and direction

An interim report will be produced within 30 days of the first dye study. This report will provide recommendations for study plan modifications, if required, for the second dye study. A final report, including results of both dye studies will be produced within 30 days of the second study. Both reports will include an evaluation of the results with respect to compliance with the American Samoa water quality standards. All raw and processed data will be provided in appendices to the dilution study reports.

Table 1
Field Equipment for Dilution Study
(Equivalent or better models may be substituted for some equipment)

Equipment Item	Purpose	Number of Units	Accuracy Standard
Turner Model 10 Fluorometer	Fluorescent dye measurement	2	Detection to 0.1 ppb
Seabird SBE 19 CTD	Measure conductivity, temperature, and depth	1	Conductivity ±0.001 S/m Temperature ±0.001 °C Depth = 0.5% of full scale
Compaq SLT Computer	Set up and record Seabird CTD data	2	4-hour battery (3 packs)
Motorola Mini-Ranger III System	Microwave positioning System 3 transponders	1	±2 meters
MasterFlex Peristaltic Pump	Used for dye injection into effluent at constant rate	2	0.2 ml/min
1/3-hp Submersible Pump	Pumps receiving water from depth through fluorometer	2	230-volt a/c
Motorola Hand-held VHF Radios	Communication ship-to-shore	4	Battery-powered (2-mile range)

Post-it™ brand fax transmittal memo 7671 | # of pages ▸ 2

To Pat Young	From Norm Wei
Co.	Co.
Dept.	Phone #
Fax #	Fax #

Copy to Doug / Mike

StarKist Seafood Company

Memorandum

DATE: 12 October, 1992

TO: Pat Young, US EPA Region 9
Program Manager for American Samoa

FROM: Norman Wei

SUBJECT: New NPDES Permit for StarKist Samoa, Inc.

I wish to thank your agency for its considerations in working with me and Steve Costa in developing this new permit. I believe it is a stringent and yet reasonable discharge permit.

In reviewing the new NPDES permit that was issued by US EPA to StarKist Samoa, Inc., I noticed the following typographical errors on page 2 "Effluent Limits and Monitoring Requirements".

1. The Notes for Biochemical Oxygen Demand (5-day) should be (5) instead of (6) as indicated. Note (5) refers to "No limit set at this time. Monitoring and reporting only" whereas Note (6) refers exclusively to the daily maximum limit for pH.

2. The word "Oxygen" in Biochemical Oxygen Demand was misspelled.

3. The second sentence paragraph on page 2 states that "the effluent shall be sampled prior to its comingling with effluent from the other can." The word "can" should be written as "cannery". The word "comingling" should be correctly spelled as "commingling".

You might wish to make the same corrections for Samoa Packing's permit as well.

OCT-12-1992 14:50 FROM SKT ENG SVC 213-590-3882 TO 914157441604 P.02

A. EFFLUENT LIMITS AND MONITORING REQUIREMENTS

1. During the period beginning with the effective date of this permit and lasting through the expiration date of this permit, the permittee is authorized to discharge from Outfall 001.

The effluent shall be sampled prior to its comingling with effluent from the other can nery

Such discharges shall be limited and monitored by the permittee as specified below:(1)

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS		MONITORING REQUIREMENTS	
	30-DAY AVG.	DAILY MAX.	MEASUREMENT FREQUENCY	SAMPLE TYPE
FLOW (MGD)	--	2.9	CONTINUOUS	RECORDER
BIOCHEMICAL ~~OXYGEN~~ OXYGEN DEMAND (5-DAY)	~~(5)~~ (5)	~~(5)~~ (5)	TWICE/MONTH	COMPOSITE
SUSPENDED SOLIDS (lbs/day)	2653	6673	TWICE/WEEK	COMPOSITE
OIL AND GREASE (lbs/day)	675	1688	TWICE/WEEK	GRAB(2)
TOTAL PHOSPHORUS (lbs/day)	192	309	(3)	COMPOSITE
TOTAL NITROGEN (lbs/day)	1200	2100	(3)	COMPOSITE
ACUTE TOXICITY	--	(4)	ONCE/6 MONTHS	COMPOSITE
TOTAL AMMONIA (mg/l)	--	133	ONCE/WEEK	COMPOSITE
TEMPERATURE (°F)	90	95	CONTINUOUS	CONTINUOUS
TOTAL CADMIUM (mg/l)	(5)	(5)	ONCE/6 MONTHS	COMPOSITE
TOTAL CHROMIUM (mg/l)	"	"	"	"
TOTAL LEAD (mg/l)	"	"	"	"
TOTAL MERCURY (mg/l)	"	"	"	"
TOTAL ZINC (mg/l)	"	"	"	"
pH	--	(6)	CONTINUOUS	CONTINUOUS

StarKist Samoa, Inc.

An Affiliate of StarKist Seafood Company

Heinz

PO Box 368
Pago Pago, TuTuila Islands
American Samoa 96799
Telephone: 684-644-4231
Facsimile: 684-644-2440

Copy to Mike Eugene

September 28, 1992

STORM WATER NOTICE OF INTENT
P. O. Box 1215
Newington, VA 22122

Dear Sirs,

Attached is our Notice of Intent form for Storm Water Discharges associated with Industrial Activity under the NPDES General Permit.

Yours truly,

STARKIST SAMOA, INC.

MAURICE W. CALLAGHAN
President and General Manager

/tl

Attachment

cc: Pati Faiai - ASEPA
Pat Young - USEPA Region 9
Norman Wei
W. Adams

See Reverse for Instructions

Form Approved. OMB No. 2040-0086 Approval expires: 8-31-94

NPDES FORM

EPA

United States Environmental Protection Agency
Washington, DC 20460

Notice of Intent (NOI) for Storm Water Discharges Associated with Industrial Activity Under the NPDES General Permit

Submission of this Notice of Intent constitutes notice that the party identified in Section I of this form intends to be authorized by a NPDES permit issued for storm water discharges associated with industrial activity in the State identified in Section II of this form. Becoming a permittee obligates such discharger to comply with the terms and conditions of the permit. ALL NECESSARY INFORMATION MUST BE PROVIDED ON THIS FORM.

I. Facility Operator Information

Name: STARKIST SAMOA INC Phone: 684 644 4231

Address: P. O. BOX 368 Status of Owner/Operator: P

City: PAGO PAGO State: AS ZIP Code: 96799.

II. Facility/Site Location Information

Name: STARKIST SAMOA INC Is the Facility Located on Indian Lands? (Y or N) N

Address: P. O. BOX 368

City: PAGO PAGO State: AS ZIP Code: 96799.

Latitude: 14 16 37 Longitude: 170 41 12 Quarter: Section: Township: Range:

III. Site Activity Information

MS4 Operator Name:

Receiving Water Body: PAGO PAGO HARBOR

If You are Filing as a Co-permittee, Enter Storm Water General Permit Number:

Are There Existing Quantitative Data? (Y or N) Y

Is the Facility Required to Submit Monitoring Data? (1, 2, or 3) 1

SIC or Designated Activity Code: Primary: 2091 2nd: 2047 3rd: 2048 4th: 3411

If This Facility is a Member of a Group Application, Enter Group Application Number:

If You Have Other Existing NPDES Permits, Enter Permit Numbers: AS000019

IV. Additional Information Required for Construction Activities Only

Project Start Date: Completion Date: Estimated Area to be Disturbed (In Acres): Is the Storm Water Pollution Prevention Plan in Compliance with State and/or Local Sediment and Erosion Plans? (Y or N)

V. Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on the inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Print Name: MAURICE CALLAGHAN Date: 09 22 92

Signature: M. W. Callaghan

EPA Form 3510-6 (8-92)

Rcd 10/2/92

StarKist Samoa, Inc.

P.O. BOX 368 PAGO PAGO, AMERICAN SAMOA 96799

(684) 644-4231
FAX NO: (684) 644-2440

22 September 1992

Sheila Wiegman
American Samoa EPA
Office of the Governor
Pago Pago, American Samoa 96799

Dear Sheila:

Re: Hazardous Waste Manifests

Please find attached copies of the following hazardous waste manifests covering the proper disposal on the mainland of StarKist Samoa's spent solvents and labpak.

Manifest Document No: 89531524
Manifest Document No: 89531525
Manifest Document No: 90981052

As indicated by the manifests, all shipments have been received at the TSD Facilities.

Sincerely,

William R. Adams
Manager of Engineering

Mike - Do you care? Want a copy?

Attachments

cc: Pat Young - USEPA

State of California—Health and Welfare Agency
Form Approved OMB No. 2050—0039 (Expires 9-30-9
Please print or type. (Form designed for use on elite pitch typewriter).

Department of Health Services
Toxic Substances Control Division
Sacramento, California

89531525

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. ASD983566030 Manifest Document No. 00001
2. Page 1 of 1
Information in the shaded areas is not required by Federal law.

GENERATOR

3. Generator's Name and Mailing Address
STAR KIST SAMOA INC
PO BOX 368
PAGO PAGO, AMERICA SAMOA
4. Generator's Phone (684) 644231

A. State Manifest Document Number 89531525
B. State Generator's ID HAH936041884

5. Transporter 1 Company Name: OHM CORPORATION
6. US EPA ID Number: OHD068106400
C. State Transporter's ID 20378
D. Transporter's Phone 800 5379540

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
SOLVENT SERVICES, INC.
1021 BERRYESSA RD
SAN JOSE, CA. 95133
10. US EPA ID Number: CAD059494310
G. State Facility's ID CADO59494310
H. Facility's Phone 408 4536046

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	Waste No.
a. WASTE METHYL ETHYL KETONE, FLAMMABLE LIQUID, UN1193	012	DM	00550	G	State 212 EPA/Other D001; D035 1159 F005
b. WASTE NITRIC ACID, CORROSIVE MATERIAL, NA 1760	003	DF	00070	G	State 791 EPA/Other D002 1217
c.					State EPA/Other
d.					State EPA/Other

J. Additional Descriptions for Materials Listed Above
11. A: OFF SPEC. METHYL ETHYL KETONE
11. B: OFF SPEC. NITRIC ACID >40%

K. Handling Codes for Wastes Listed Above
a. 99 b. 99
c. d.

15. Special Handling Instructions and Additional Information
11A) 99/01/02
11B) 99/15/01/03
24 HOUR EMERGENCY PHONE: OHM, FINDLAY, OHIO 1-800 5379540

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. (8, 9, and water)

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: WM R ADAMS
Signature:
Month Day Year: 11 15 91

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Michael T. Richie
Signature: Michael T Richie
Month Day Year: 11 22 91

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Month Day Year

FACILITY

19. Discrepancy Indication Space
11A) Hazardous WASTE LIQUID, N.O.S, 9, NA 3082 PGIII 11B) 1 PT 784-
11A) D001, 1159 DO NOT APPLY profile #
11A) 1217 DOES NOT APPLY 11J) Profile #81WOL2897. 574784
(See attached additional discrepancies)

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: Kevin Rowland
Signature:
Month Day Year: 01 09 92

DHS 8022 A (1/88)
EPA 8700—22
(Rev. 9-88) Previous editions are obsolete.

Do Not Write Below This Line

Yellow: TSDF SENDS THIS COPY TO GENERATOR WITHIN 30 DAYS

FEB 13 1992

California Health and Welfare Agency
Approved OMB No. 2050-0039 (Expires 9-30-91)
Please print or type. (Form designed for use on elite (12-pitch typewriter).

Department of Health Services
Toxic Substances Control Division
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. ASD983366030 — Manifest Document No. 00002 — 2. Page 1 of 1 — Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address: STAR KIST SAMOA INC, PO BOX 368, PAGO PAGO, AMERICAN SAMOA

4. Generator's Phone (684) 6444231

A. State Manifest Document Number: 89531524

B. State Generator's ID: HAH036041884

5. Transporter 1 Company Name: OHM CORPORATION

6. US EPA ID Number: OHD068106400

C. State Transporter's ID: 202378

D. Transporter's Phone: 8005379540

7. Transporter 2 Company Name: USPCI

8. US EPA ID Number: TXD988052494

E. State Transporter's ID: 276864

F. Transporter's Phone: 713 5507228

9. Designated Facility Name and Site Address: ~~GRASSY~~ U.S. POLLUTION CONTROL INC, GRASSY MOUNTAIN FACILITY, 3 miles east, 7 miles north, exit 41 ON I 80, CLYDE UTAH NO ZIP SA

10. US EPA ID Number: UTD991301748

G. State Facility's ID:

H. Facility's Phone: (801) 595-3900

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	Waste No.
a. WASTE OXIDIZER, N.O.S. (calcium chloride anhydrous, pottassium permanganate) OXIDIZER, UN1479	001	DF	00050	P	State 551 / EPA/Other D001
b.					State / EPA/Other
c.					State / EPA/Other
d. LD203 CFRZ631033					State / EPA/Other

J. Additional Descriptions for Materials Listed Above: 11a - off spec calcium chloride anhydrous, pottassium permanganate, trichlorous triazinetrione GM 91-2487

K. Handling Codes for Wastes Listed Above: a. b. c. d.

15. Special Handling Instructions and Additional Information

24 hr emergency phone # OHM CORP. Findlay OHIO 1-8005379540

16.

GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. (E.G. AND WATER)

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: WM R ADAMS — Signature: [signature] — Month Day Year: 11 5 91

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Michael T. Richie — Signature: Michael T. Richie — Month Day Year: 12 24 91

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: LEONARD GALBRAITH — Signature: [signature] — Month Day Year: 01 04 92

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: SCOTT M. ANDERSON — Signature: [signature] — Month Day Year: 01 22 92

GENERATOR — TRANSPORTER — FACILITY

S 8022 A (1/88)
A 8700—22
(Rev. 9-88) Previous editions are obsolete.

Do Not Write Below This Line

SHELL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802, WITHIN CALIFORNIA CALL 1-800-852-7550

UNIFORM HAZARDOUS WASTE MANIFEST
(Continuation Sheet)

21. Generator's US EPA ID No.	Manifest Document No.	22. Page	Information in the shaded areas is not required by Federal law.
ASD983366030	000002	2	

23. Generator's Name: STAR KIST

L. State Manifest Document Number: 89531524

M. State Generator's ID: HAH036041884

24. Transporter 3 Company Name: UP RAILROAD

25. US EPA ID Number: XED0017 92910

N. State Transporter's ID:

O. Transporter's Phone: 402 271 4400

26. Transporter 1 Company Name: USPCI

27. US EPA ID Number: TXD988052494

P. State Transporter's ID:

Q. Transporter's Phone: 713 350 7228

28. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	HM		29. Containers No	Type	30. Total Quantity	31. Unit Wt/Vol	R. Waste No.
a.							
b.							
c.							
d.							
e.							
f.							
g.							
h.							
i.							

S. Additional Descriptions for Materials Listed Above

T. Handling Codes for Wastes Listed Above

32. Special Handling Instructions and Additional Information

GENERATOR

33. Transporter ___ Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year
Cassandra Turner	[signature]	01	1.1	9.4

34. Transporter 4 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year
Kenneth D Taylor	Kenneth D Taylor	0.1	2.2	9.2

TRANSPORTER

35. Discrepancy Indication Space

FACILITY

976-00813

EPA Form 8700-22A (Rev. 9-88) Previous edition is obsolete.

20-FS-C6

State of California - Health and Welfare Agency
Form Approved OMB No. 2050—0039 (Expires 9-30
Please print or type. *Form designed for use on elite (12-pitch typewriter).*

See Instructions on Back and Front of Page 7 — Page 6

Department of Health Services
Toxic Substances Control Division
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. — Manifest Document No.
2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
STARKIST SANOA, INC., P.O. BOX 368 PACO PACO
AMERICAN SANOA, 96799

4. Generator's Phone ( ) 688 644-4240

A. State Manifest Document Number: 90981052

B. State Generator's ID

5. Transporter 1 Company Name — 6. US EPA ID Number

C. State Transporter's ID

D. Transporter's Phone

7. Transporter 2 Company Name — 8. US EPA ID Number

E. State Transporter's ID 714-692-[illegible]

F. Transporter's Phone

9. Designated Facility Name and Site Address
AMERICAN RESOURCE RECOVERY
901 E. BUDLEY
MEMPHIS, TN 38106

10. US EPA ID Number

G. State Facility's ID

H. Facility's Phone 901-774-1340

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RQ, WASTE FLAMMABLE LIQUID, N.O.S. (CONTAINS NEW) FLAMMABLE LIQUID, UN1993 RQ=100#	0141	MP	6000	G	State / EPA/Other [illegible]
b.					State / EPA/Other
c.					State / EPA/Other
d.					State / EPA/Other

J. Additional Descriptions for Materials Listed Above
11A) DRUGS CONTAINING MIX & EPOXY

K. Handling Codes for Wastes Listed Above
a. h.
c. d.

15. Special Handling Instructions and Additional Information
USE GLOVES AND GOGGLES
24 HOUR EMERGENCY CONTACT CHEMTREC 800-842-9300
[illegible] APPROVAL#92-05739 SE

16.

GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name	Signature	Month Day Year
Geoff Somers on behalf of Starkist	Geoff Somers	07 16 92

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month Day Year
Geoff Somers	Geoff Somers	07 16 92

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month Day Year
Norine Warhurst for NRRC 1:00	Norine Warhurst	07 21 92

GENERATOR — TRANSPORTER — FACILITY

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550

DHS 8022 A
EPA 8700—22
(Rev. 6-89) Previous editions are obsolete.

Do Not Write Below This Line

WHITE TSDF RETAINS

mike

StarKist Samoa, Inc.

SEP 1 0 1992

August 31 1992

Mr. Norman Lovelace
U. S. EPA Region 9 (E-4)
75 Hawthorne Street
San Francisco, CA 94105-3901

Dear Mr. Lovelace:

Subject: **Notice of Intent to file Application for General Permit for Stormwater Discharges Associated with Industrial Activities**

This is StarKist Samoa Inc.'s Notice of Intent (NOI) to apply for a General Permit under EPA's proposed new regulations governing stormwater discharges associated with industrial activities.

Name and Address of Facility: StarKist Samoa Inc., P. O. Box 368, Pago Pago, Tutuila, American Samoa 96799.

Contact Name: Maurice Callaghan, President and General Manager. StarKist Samoa Inc., P. O. Box 368, Pago Pago, Tutuila, American 96799. Phone Number: 684-644-4231.

Latitude & Longitude: 14° 16' 37" S latitude, 170° 41' 12" W longitude.

Name of Receiving Water: Pago Pago Harbor.

Please advise us of the specific requirements as soon as the Federal regulations are finalized.

Sincerely,

STARKIST SAMOA, INC.

MAURICE W. CALLAGHAN
President and General Manager

/tl

cc: Pati Faiai - ASEPA
Wm. Adams
Norman Wei
Ralph A. Ward

Rcd 3/29/93 mike ASEPA

StarKist Samoa, Inc.

P.O. BOX 368 PAGO PAGO, AMERICAN SAMOA 96799

(684) 644-4231
FAX NO: (684) 644-2440

March 22, 1993

Pat Young (E-4)
US EPA Region 9
75 Hawthorne Street
San Francisco, CA 94105

Sheila Wiegman
American Samoa EPA
Office of the Governor
Pago Pago, AS 96799

Subject: StarKist Samoa's Storm Water Pollution Prevention Plan

StarKist Samoa Inc. hereby submits its Storm Water Pollution Prevention Plan as required by its Storm Water General Discharge Permit ASR00A001.

Please call William Adams at 684-644-4249 if you have any questions.

Sincerely,

Maurice W. Callaghan
General Manager

Attachment

cc: B. Mills
Wm Adams
R. Ward
N. Wei

STORM WATER POLLUTION PREVENTION PLAN

Prepared by

StarKist Samoa Inc.
Pago Pago, American Samoa

for

Storm Water General Discharge Permit ASR00A001

Storm Water Pollution Prevention Plan

Introduction . . . . . Page 2

Section 1: Storm Water Pollution Prevention Plan Certification . . . . . Page 3

Section 2: Storm Water Pollution Prevention Team . . . . . Page 4

Section 3: Site and Storm Drainage Description . . . . . Page 5

Section 4: Description of Potential Storm Water Pollutant Sources . . . . . Page 8

Section 5: Existing Storm Water Best Management Practices . . . . . Page 11

Section 6: Future and On-Going Storm Water Management Control Program . . . . . Page 14

Section 7: Monitoring Requirements and Revision of SWPPP . . . . . Page 17

Introduction

This Storm Water Pollution Prevention Plan (SWPPP) is prepared in compliance with the requirements of StarKist Samoa Inc.'s Storm Water General Discharge Permit.

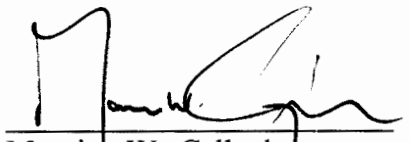
The plant has in place a program of capital improvement to prevent, to the greatest extent possible, process water from coming into contact with storm water which discharges directly to the receiving waters.

Section 1

Storm Water Pollution Prevention Plan Certification

The following is StarKist Samoa Inc.'s Storm Water Pollution Prevention Plan Certification pursuant to the requirements of its Storm Water General Discharge Permit # ASR00A001.

As General Manager of StarKist Samoa, I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.



Maurice W. Callaghan
General Manager

April 1, 1993

Section 2

Storm Water Pollution Prevention Team

Mr. Maurice Callaghan, as the General Manger and Officer of the facility, has overall responsibilities for ensuring that the SWPPP is developed and maintained.

In compliance with the General Permit's requirements, Management at StarKist Samoa has established a Storm Water Pollution Prevention Team for the purpose of developing and implementing a Stormwater Pollution Prevent Plan (SWPPP) and ensuring that the plan is implemented, maintained and updated on a regular basis.

The following individuals are members of this team:

Team Leader: Mr. William Adams. Manager of Engineering. Phone Number (684) 644-4249. He is responsible for all engineering projects at the plant as well as preventive maintenance. He reports to the Manger of Operations, Mr. Barry Mills who has overall responsibilities for production, fleet, and engineering.

Team Member: Mr. Russell Riddell. Superintendent of General Maintenance. Phone Number (684) 644-4231. He is responsible for general maintenance of the plant and reports directly to Mr. Adams.

Team Member: Ms Helen Tisalona. Supervisor of wastewater treatment plant. Phone Number (684) 644-4231. She is responsible for operation of the wastewater treatment plant and reports to Mr. Adams through the Superintendent of Utilities.

Section 3

Site and Storm Drainage Description

Site Description

The site is located in the Village of Aua, American Samoa. The site addressed in this SWPPP includes the tuna packing room, cold storage, auto shop, dock area, warehouses and the wastewater treatment plant. Included are the can manufacturing plant and the tank farm located on the hill side across the public roadway from the main cannery. For the purpose of the SWPPP, the site also includes a public access roadway between StarKist Samoa Inc. and Samoa Packing Company.

Drainage System Description

In general, there is a wastewater drainage ditch along the length of the dock area which drains into a sump near the butchering area. The dock also has an 8-inch high berm which prevents any storm water or process water from reaching the Bay. Any spillage on the dock will drain into the sump and be pumped into the wastewater treatment plant.

Locations of industrial activities are indicated on the map. The direction of flow is generally towards the Pago Pago Harbor. The site map in Figure 1 shows five (5) active storm water outfalls numbered from 1 to 5. General description of each outfall and on-going plans for improvement are outlined below:

Outfall #1: This is a 4' by 2' concrete outfall that originates from the public roadway and extends underneath the west alley way on the site. The only one sump which is connected to this outfall will be sealed off to prevent any runoffs from entering the outfall. All storm runoffs in the west alley area will then be diverted into the wastewater drain along the dock area.

Outfall #2: This storm water outfall originates from the public roadway and runs underneath the entire length of the site. Since there are no connecting points on site, there is no possibility of process water coming into contact with the storm water in the outfall.

Outfall #3: This outfall starts at the entrance gate near the warehouse and runs under the middle access alley. This outfall carries rain water from the roofs. There are three open gratings that access the drain and they will be sealed off. Seals will be placed around the downspouts into this storm drain to ensure that only storm water from the roofs can gain access to this outfall. The drain cover at the dock end will also be sealed off so that no process water in the dock area can get into this outfall inadvertently.

Outfall #4: This outfall carries rain water from the roofs of the packing room. As with Outfall #3, seals will be placed around all the downspouts as added assurance to prevent process water from getting into the storm water.

Outfall #5. This existing outfall originates from Samoa Packing's truck dock and runs underneath the East Alley which is a public access road between the two canneries. In addition to carrying Samoa Packing's truck dock water, this outfall also collects roof water from Samoa Packing which runs onto the alley. A storm water sump outside StarKist's retort room picks up rain water which falls on the alley. Near the wastewater treatment plant area, there is a storm water drain which connects to Outfall #5. StarKist's SWPPP will divert Samoa Packing's truck dock and roof drain to the drainage ditch near the wastewater treatment plant which will be relocated further up stream to intercept rain water.

Impervious and Total Areas

The site encompasses a total of approximately 355,000 square feet of which 99 percent is impervious. The only area that is not impervious at present is the containment area around the tank farm on the hill. It is approximately 4,000 square feet in area.

The following is a breakdown of the approximate square footages for each major area at the site:

Dock Area	36,500 sq ft.
East Alley	13,500 sq ft.
Can Plant	37,600 sq ft.
Cannery	260,000 sq ft.
Auto shop	6,800 sq ft.
Tank farm	4,000 sq ft.

Non-Storm Discharges

The only non-storm discharge from the plant is StarKist Samoa's treated wastewater which is discharged some 8,000 feet from the inner Pago Pago Harbor through a pipeline and diffuser under US EPA NPDES Permit# AS0000019.

Section 4

Description of Potential Storm Water Pollutant Sources

Materials Storage

Significant materials present at StarKist Samoa Inc. have been identified based on information provided by staff personnel familiar with the operation of the facility. Chemicals used in significant quantities are chlorine, anhydrous ammonia, sodium hydroxide and miscellaneous solvents. Large quantities of non-toxic, non-phosphate and FDA-approved detergents are kept by the Quality Control Department. Small quantities of automotive and hydraulic oils are kept in the auto shop. All of these chemicals are kept either indoors in a dry location or are under cover. The possibility of these chemicals getting into the strom water drains is zero.

Laboratory grade chemicals used for chemical analyses at the Quality Control Laboratory are stored in fireproof cabinets in the lab and there is no possibility of these chemicals spilling into the storm water drains.

The primary raw material for the cannery is frozen tuna which is off loaded from fishing vessels at the dock and taken directly into freezers for cold storage. All porcess water and rain water on the dock are collected by in the wastewater drainage ditch and pumped to the treatment plant.

StarKist Samoa has an on-going program of shipping hazardous wastes (spent sovents) off island to Treatment Storage and Disposal Facilities (TSDF) in the mainland for proper disposal. The plant generates less than 1000 kg of hazardous wastes per month and is considered a Small Quantity Generator under US EPA regulations. The hazardous wastes storage area is indoor and does not come into contact with storm water. Every 55-gallon drum containing hazardous waste is placed inside an 85-gallon overpak drum for secondary containment.

Outdoor storage of significant materials used at the site is not common at StarKist Samoa. Materials found outdoors are limited to miscellaneous dry garbage such as cardboard and off-specs tuna cans.

The materials that are stored, handled or used onsite and which have the <u>potential</u> to be released with storm water discharges are as follows:

1. The tank farm behind the Can Plant. The Tank Farm contains three soybean oil tanks, two fuel tanks, four water tanks, and three spring water tanks. The soybean tank each has a capacity of 42,000 gallons. One fuel tank has a capacity

of 7,500 gallons and contains #2 fuel. The other fuel tank has 42,300 gallons of #5 oil when full. The soybean oil tanks, the fuel tanks and two water tanks are located within the perimeters of a containment wall.

The largest water tank holds 365,000 gallons and is intended for fire fighting use. There is one 87,500-gallon tank that hold potable water and two 39,700-gallon tanks for recovered water. The spring water tanks each has a capacity of 4,400 gallons.

2. The wastewater treatment storage tanks. The wastewater treatment area has one 200,000-gallon surge tank for wastewater, one 86,000-gallon cold water storage tank which holds thaw water, one 200,000-gallon tank for high strength wastes (cooker juice, press liquor and DAF sludge). The integrity of these tanks are checked on a regular basis. Preventive maintenance was performed on the 200,000 gallon surge tank in December of 1992. Small quantities of wastewater treatment chemicals such as aluminum sulfate and polymer are kept outdoors for immediate usage. Any overflow or spillage from the treatment plant area will be intercepted by the wastewater drainage ditch and pumped back into the treatment plant.

Annual Runoff

American Samoa receives an average of 200 inches of rain a year. Based on a drainage area of approximately 360,000 square feet and a runoff coefficient of 0.90, it is estimated that the annual runoff from the site is 5.4 million cubic feet or 40 million gallons.

Spill History

There have been no spills of toxic chemicals discharged to the storm water system or release of other substances in reportable quantities since November 19, 1988 to the present.

Existing Storm Water Data

Storm water data have been collected on one of the storm water outfall (#3) from February 1991 to February 1992. Table 1 contains the data summary.

Table 1: Storm Water Data

	Temp	Turbidity (NTU)			Oil & Grease (mg/l)		
		Min	Average	Max	Min	Average	Max
Feb 91	80.2	1.3	1.5	1.7	18.0	21.0	23.9
Mar 91	78.3	7.0	6.4	11.9	23.9	39.5	28.4
Apr 91	82.0		9.5			26.2	
May 91	82.7	5.2	7.8	10.3	4.6	5.6	6.6
Jun 91	82.0	9.5	17.5	25.5	12.7	28.8	44.9
Jly 91	72.0	13.1	38.6	64.0	11.7	53.3	41.6
Aug 91	78.9	5.9	9.5	13.1	1.0	1.2	1.4
Sep 91	81.5	15.0	17.8	20.6	5.0	11.1	17.1
Oct 91	81.8	25.8	28.8	31.7	27.0	37.5	48.0
Nov 91	72.5	14.4	16.0	17.5	5.0	8.4	11.8
Dec 91	77.0	10.4	24.8	39.3	25.7	26.6	27.6
Jan 92	79.8	8.5	16.0	23.4	3.5	6.0	9.7
Feb 92	80.2	7.5	17.2	26.9	6.3	9.6	12.9

Only one data point was collected during the month of April 1991. Samples were taken as composites made up of grab samples every 15 minutes.

Section 5

Existing Storm Water Best Management Practices

StarKist Samoa employs a variety of materials, equipment and good housekeeping practices to minimize contact of storm water with industrial process water and materials.

New Roof Gutters

During 1992 and in anticipation of the storm water general permit, StarKist Samoa undertook some major structural modifications to ensure that process water does not come into contact with storm water. New gutters for rain water have been installed along the roofs throughout the plant. The capital cost for this undertaking was approximately a million dollars.

Preventive Maintenance

The Engineering Department currently uses an automated computerized system known as TRI-MAX for tracking spare parts and scheduling maintenance throughout the plant. The cost of this system is approximately $250,000.

TRI-MAX operates as follows: When a new item of equipment is installed, its specifications and manufacturer's recommended maintenance schedule are entered into this system. At the time when the scheduled maintenance is due, TRI-MAX automatically issues a work order starting the location and type of maintenance needed. This work order is routed to the appropriate department responsible for that piece of machinery. Once the maintenance is done, the work order is signed off and the details are entered into the computer as part of a "maintenance history" for that piece of machinery. TRI-MAX continues to issue work orders automatically until such time as the needed maintenance work has been completed and signed off. A computer report on open or un-finished work orders is issued to enable management to follow-up on any outstanding or overdue maintenance work.

The plant also conducts semi-annual detailed inspections of pipes, pumps, valves and fittings, tank corrosion (internal and external), tank support or foundation deterioration, stains on walls, stains along drainage ditches and old tanks, deterioration of primary or secondary containment, housekeeping, drain valves on tanks, damage to shipping containers, conveying systems for dry chemicals, integrity of stormwater collection system, leaks, seepage, and overflows from sludge and various waste disposal sites.

General Good Housekeeping Practices

As part of the ongoing SWPPP, the Team will ensure that the following day-to-day good housekeeping practices are maintained at all times:

1. Chemicals are to be stored in a neat and orderly fashion.
2. Any small spillage is promptly removed. There is minimum accumulation of liquid and solid chemicals on the ground or floor in a building.
3. Garbage and rubbish are picked up and disposed of regularly.
4. The floors are kept dry and clean by use of brooms, vacuum cleaners, etc.
5. Pathways and walkways are maintained properly with no containers and drums protruding onto walkways.
6. Employees are encouraged to maintain interest in good housekeeping.

Spill Prevention and Response Procedures

Material Handling Procedures. Most chemicals and materials brought into the facility are unloaded using fork lift trucks. The operators will exercise skill and care when handling such material. Since delivery trucks always backs up flush to the loading dock, a spill would have to occur near to the edge of the loading dock for the material to get into the ground and the storm system.

Storage Requirements. All of the chemicals and most of the materials in use are stored inside the plant . Materials that are stored outside and generally under cover.

Cleanup Equipment and Procedures. Cleanup equipment and sorbent materials are kept in the stock room and in the vicinity of the potential spill areas. In the event of a spill, the personnel will follow the manufacturer's guidelines on spill cleanups.

Record keeping and Reporting of Spills Records of spills through formal reports are maintained for internal review at the Engineering Office by plant management. Governmental and environmental agencies are notified immediately should a spill reaches the Pago Pago Harbor.

In the event of emergencies related to chemical spills, the following persons are notified:

StarKist Samoa Official: Mr. William Adams. Manager of Engineering. Office number (684) 644-4249; Residence number: (684) 644-1238.

Government officials: Ms Sheila Wiegman. AS EPA. Office number: (684) 633-2304.

StarKist Seafood Official: Mr. Norman Wei. Senior Manager of Environmental Engineering. Office number: (310) 590-3873; Residence number: (714) 969-6129.

Security

Security at the plant is provided by a private security firm. Entrances to the plant property are controlled by manned guard houses on a 24-hour basis. Both vehicular and personnel traffic are controlled by security guards. Visitors are required to obtain Visitor's Passes. Locks are placed on drain valves and pumps for chemical storage tanks.

Annual Site Inspection and SWPPP Review

A formal site inspection shall be conducted annual by a member of the Storm Water Pollution Prevention Team to verify that the description of potential pollutant sources is accurate. The controls currently in place will also be reviewed and updated. Records documenting significant observations made during the annual site inspection and corrective actions resulting therefrom will be retained as part of the SWPPP for a period of five (5) years.

Sediment and Erosion Prevention

Vegetation is maintained on the hill side near the tank farm to ensure proper sediment and erosion control.

Employee Training

Regular meetings of employees will be held to assure adequate and standing of program goals and objectives.

An annual training program to inform StarKist personnel at all levels about the goals and components of the SWPPP as well as a general environmental awareness program will be implemented. The topics addressed in the training, the frequency of training sessions and the categories of employees who will be attending such training programs are listed in Table 2.

Every employee who has completed such training will receive a certificate from the Supervisor and acknowledge receipt of such training. Records of training will be kept on file by the Storm Water Pollution Prevention Team.

Section 6

Future and On-Going Storm Water Management Control Program

This section describes the role of the Storm Water Pollution Prevention Team as well as StarKist Samoa's on-going capital improvements designed to essentially eliminate any future contact of storm water with process water.

Role of the Storm Water Pollution Prevention Team

The StarKist Samoa SWPPP team has been charged with the responsibility of ensuring that the following tasks are carried out:

1. Coordinate with other departments to ensure that an up-to-date inventory of hazardous materials is maintained.

2. Establish spill reporting procedures and programs for visually inspecting plant facilities. Conduct routine (daily and weekly) visual inspection of potential spill sources such as tank and chemical storage areas and the loading dock areas. Inspection findings will be kept in a log book.

3. Coordinate with all departments in carrying out the goals of the existing Best Management Plan (BMP).

4. Establish guidelines for employee training and awareness programs.

5. Review of new construction and process changes which might have an impact on spill prevention and storm water management control.

6. Coordinate employee training on spill responses, good housekeeping, and material management practices.

Planned Capital Improvements

A capital improvement program is currently under way to seal off all pipe connecting points in the cannery. This would prevent process water from commingling with storm water. This program will also include sealing off eight unused and abandoned pipes underneath the dock, placing roofs over temporary chemical storage areas, making impervious the spill containment area in the tank farm, and re-surfacing access road at the West end of the Can Plant to improve safety.

The cost of this capital improvement program is estimated to be in excess of $400,000.

Table 2: Training Program

The following are components of a training program to be instituted by management for plant employees.

- Periodic Spill drills.
- Preventive maintenance.
- Pollution prevention measures.
- Spill prevention and response procedures
- Input and encouragement from management.
- Training in general good housekeeping practices.
- General overview of environmental laws and regulations.
- Transmission of knowledge of past spills and causes through case studies.
- Making employees aware of BMP program.
- Review of operating manuals and standard operating procedures.
- Review and interface with health and safety program on associated health risks of chemicals handled.

Section 7

Monitoring Requirements and Revision of SWPPP

Annual Inspection

StarKist Samoa does not have any storm water discharges associated with industrial activities that allow storm water to come into contact with any equipment, tank, container or other vessel or area used for storage of a Section 313 water priority chemical. All such chemicals are stored either indoors or under cover and do not come into contact with storm water discharges.

A formal site inspection shall be conducted annually by a member of the Storm Water Pollution Prevention Team to verify that the description of potential pollutant sources is accurate; that the site map has been updated or modified to reflect current conditions; and that the controls to reduce pollutants in storm water discharges associated with industrial activities identified in this SWPPP are implemented.

Records documenting significant observations made during the site inspection and any corrective actions resulting from the inspection will be retained on file as part of the SWPPP for a period of five (5) years.

This formal site inspection shall be documented by using the inspection sheet in Table 3. A copy of Visual Inspection Guidelines is also attached.

Revision of SWPPP

The SWPPP will be revised and updated by the Storm Water Pollution Prevention Team as needed.

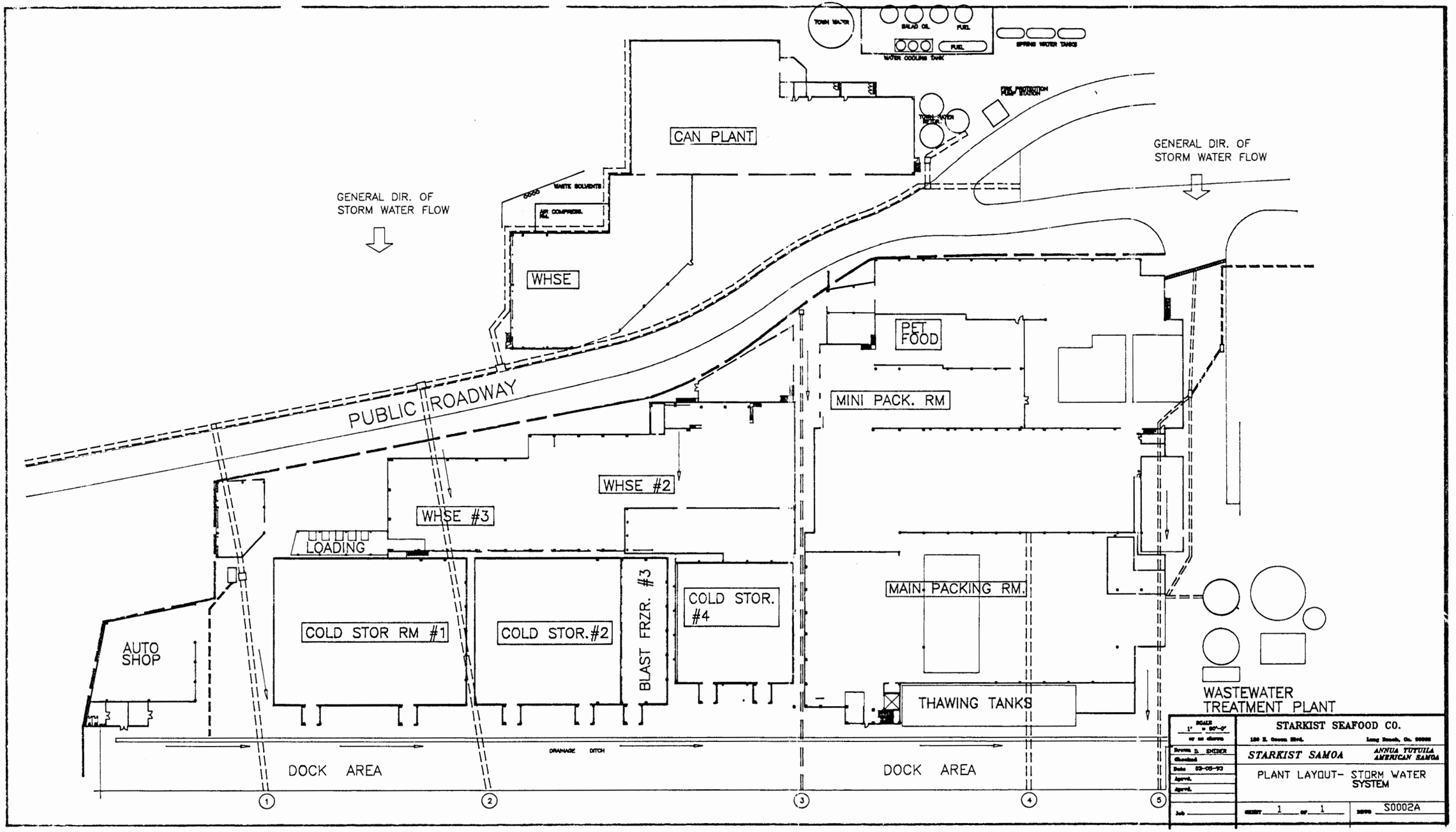
Table 3

Annual Storm Water Inspection Log

StarKist Samoa Inc. **Pago Pago, American Samoa**		**Date:** **Inspector:**	
Location	**Observation**	**Suggested Action**	**Completion Date**

Visual Inspection Guidelines

Equipment to Inspect	
■	Pipes
■	Pumps
■	Storage Tanks and Bins
■	Pressure vessels and pressure release valves
■	Process and material handling equipment
Area to Inspect	
■	Areas around all of equipment listed above
■	Areas where spills and leaks have occurred in the past
■	Material storage areas (tanks, drum storage)
■	Outdoor material processing areas
■	Material handling areas
■	Wastewater treatment area
Visual Inspection Checklist	
☐	Corroded drums
☐	Corroded or damaged tanks, tank supports and tank drain valves
☐	Torn bags or bags exposed to rain water
☐	Leaking or improperly closed valves and valve fittings
☐	Broken or cracked curbs, walls or barriers
☐	Wind-blown dry chemicals



SCALE 1" = 20'-0" or as shown	STARKIST SEAFOOD CO. 100 E. Ocean Blvd. Long Beach, Ca. 90802
Drawn D. SNIDER	STARKIST SAMOA ANNUA TUTUILA AMERICAN SAMOA
Checked	
Date 03-05-93	PLANT LAYOUT- STORM WATER SYSTEM
Apprvd.	
Apprvd.	
Job	SHEET 1 OF 1 DWG S0002A

Copy to Mike, Doug

StarKist Samoa, Inc.

P.O. BOX 368 PAGO PAGO, AMERICAN SAMOA 96799

(684) 644-4231
FAX NO: (684) 644-2440

February 15, 1992

Pat Young
American Samoa Program Manager
U. S. EPA Region 9 (E-4)
75 Hawthorne Street
San Francisco, CA 94105-3901

Dear Ms. Young:

Pursuant to the requirements of the amendment issued to StarKist Samoa on February 11, 1992 in reference to EPA's Administrative Order, Docket No. IX-FY90-22, this is to advise you that at approximately 10:00 a.m. on February 13, 1992, StarKist Samoa, Inc. commenced testing of its joint pipeline pumping system. The applicable agencies were notified the day before. Approximately 10,000 gallons of seawater from the Pago Pago Harbor were pumped into the holding tank and discharged through the new outfall during the test. The control system for the pumping system was tested and found to be functioning properly.

On February 14, 1992, at 11:00 a.m. local time, the valve connected to the existing outfall was closed off, chain-locked and sealed. Discharge of StarKist Samoa Inc.'s treated effluent through the new joint outfall commenced at that time.

Sincerely,

STARKIST SAMOA, INC.

MAURICE W. CALLAGHAN
General Manager

/tl

cc: William Coleman, ASEQC
Pati Faiai, ASEPA
Sheila Wiegman, ASEPA
Virginia Gibbons, ASAG
Ralph A. Ward
Norman Wei

AMERICAN SAMOA GOVERNMENT
PAGO PAGO, AMERICAN SAMOA 96799

In reply refer to:

OFFICE OF THE GOVERNOR
ENVIRONMENTAL PROTECTION AGENCY

Serial:408

October 28, 1991

Pat Young
American Samoa Program Manager
Office of Pacific Island & Native
American Programs
U.S. Environmental Protection Agency
75 Hawthorne Street
San Francisco, California 94105

Dear Pat:

The Environmental Quality Commission (EQC) has received variance requests for temperature requirements of the American Samoa Water Quality Standards from Samoa Packing and Star Kist Samoa (see attached documents).

A public notice was issued informing the public that the variance requests were received by the EQC. No comments or requests for a public hearing were received. The EQC held a meeting on April 10, 1991, to consider the variance requests. The EQC reviewed the variance requests in light of Environmental Quality Act variance provisions. The variance requests were approved as shown in the attached letters to the canneries.

I request your review of the variance determinations. You may contact Sheila Wiegman of my staff for any questions.

Sincerely,

Pati Faiai, Director
American Samoa Environmental
Protection Agency

cc: Environmental Coordinator, ASEPA ←
Enforcement Branch

04 NO' 991 R

Cpy to Mike Lee
Doug Liden
Norm

StarKist Samoa, Inc.

P.O. BOX 368 PAGO PAGO, AMERICAN SAMOA 96799

(684) 644-4231
FAX NO: (684) 644-2440

October 28, 1991

Mr. Norman Lovelace (E-4)
OPINAP
US Environmental Protection Agency
75 Hawthorne Street
San Francisco, CA 94105

Mr. Pati Faiai
American Samoa Environmental Quality Commission
Office of the Governor
American Samoa Government
Pago Pago, American Samoa 96799

Gentlemen:

Re: StarKist Samoa's Report on its Dissolved Air Flotation Unit

Pursuant to your request as stated in Mr. Seraydarian's letter of August 13, 1991, please find enclosed a copy of StarKist Samoa's report on its Dissolved Air Flotation Unit.

Sincerely,

Maurice W. Callaghan
General Manager

cc: Ms. Sheila Wiegman - ASEPA
Ms. Virginia Gibbons - Assistant Attorney General
Mr. Ralph A. Ward
Mr. Norman Wei
Mr. William Adams

Attachment

Report on
Treatment Effectiveness
of Dissolved Air Flotation Unit

Submitted to:

United States Environmental Protection Agency, Region 9
and
American Samoa Environmental Quality Commission

By

StarKist Samoa, Inc.

Purpose of this Report

The purpose of this report is to assess the effectiveness of StarKist Samoa's Dissolved Air Flotation Unit. This report also presents new information on StarKist's influent characteristics which serves to illustrate the continued difficulties in meeting the 25 percent removal efficiency for Total Nitrogen.

Background

Dissolved Air Flotation units are primarily designed to remove oil and grease from wastewater. Chemical coagulation, such as the addition of aluminum sulfate and polymer, is added to the DAF unit in order to aid in the removal of particulate matters and phosphorus. Precipitation of phosphorus through addition of chemicals is a proven treatment technology and is well documented.

Removal of nitrogen, especially in soluble form, by means of chemical precipitation is a more contentious issue. In US EPA's Process Design Manual for Nitrogen Control (October 1975), it is stated that overall nitrogen removal efficiency in treatment processes such as chemical coagulation is rarely high and is often restricted to particulate forms.

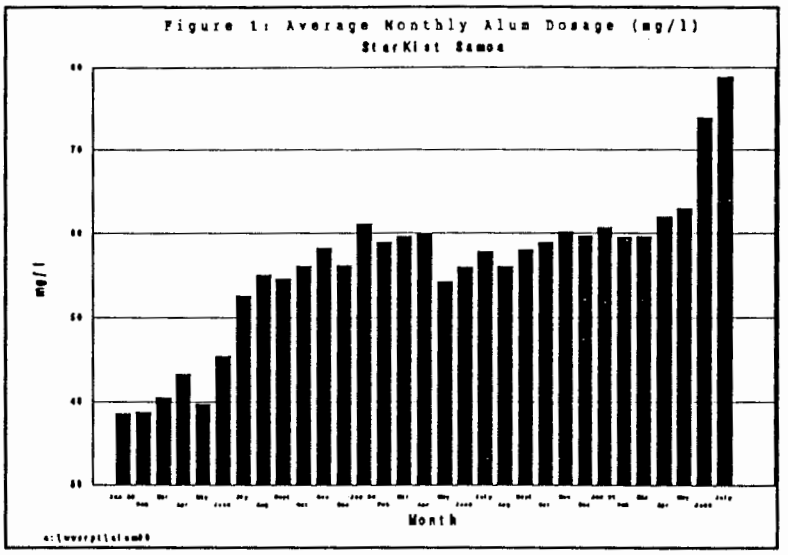
StarKist Samoa Inc.'s DAF Unit

Review of StarKist Samoa's influent and effluent data covering the period from January 1989 to July 1991 (30 months) shows that the DAF unit has been achieving a removal efficiency of 85 to 98 percent for Total Suspended Solids (TSS) and Oil & Grease (O&G). Prior to high strength waste segregation in August 1990, the removal efficiencies were in the 94 to 98 range. The separation of the press liquor and cooker juice containing high concentrations of TSS and O&G from the treatment plant resulted in a reduction of loadings of over 70 percent of TSS and O&G to the DAF unit. This accounted for the slight decrease in the removal efficiency after August 1990.

StarKist Samoa's DAF unit utilizes chemical coagulation and polymer addition to aid in the removal of nutrients. Total Phosphorus removal has been maintained at between 60 to 80 percent throughout the 30-month review period. This level of removal is consistent with the proven effectiveness of alum and polymer as a phosphorus removal agents.

Nitrogen removal, on the other hand, has decreased significantly since August 1990. As with TSS and O&G, the diversion of high strength wastes from the DAF unit has reduced the influent TN loadings and caused a decrease in the removal efficiency. This is coupled with the initiation of certain source reduction programs underway at the plant further reducing the influent loadings.

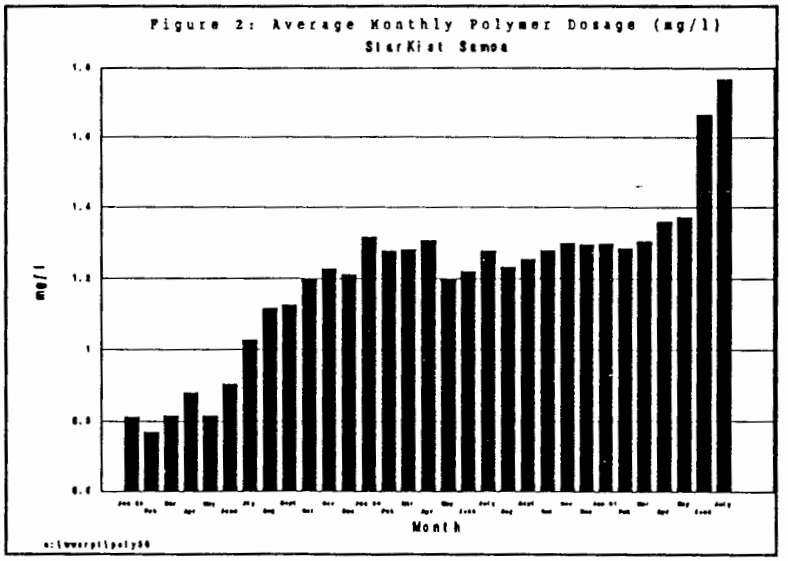
Analyses of the plant influent for the month of August 1991 (Table 1) show that about 72 to 80 percent of the TN are in soluble form - a form that is not susceptible to chemical coagulation and precipitation treatment. This is further supported by the high soluble TN fraction in the treated effluent which ranged from 87 percent to almost 100 percent. Review of the August 1991 data in Table 1 also shows that the DAF cell was able to remove about 60 percent of the "particulate Total Nitrogen" loading- measured as the difference between the filtered and unfiltered loadings.



Chemical Dosages

When StarKist Samoa was negotiating with US EPA on the interim effluent limitations back in early 1990, the agency expressed concern that the plant might cut back on chemical dosages in order to save costs. This was a primary concern which led to the imposition of the 35% removal efficiency.

StarKist Samoa has <u>not</u> reduced the chemical dosages since August 1990. In fact, alum dosage was maintained at the 60 mg/l level until June 1991 when it was increased to the 70-80 mg/l range (see Figure 1). Polymer dosages were kept at 1.2 mg/l in August 1990 and have since increased to 1.8 mg/l (see Figure 2). There has not been any attempt by the plant whatsoever to reduce chemical dosages post August 1990.



Comparison with Samoa Packing's Treatment System

Comparisons of the treatment plant removal efficiencies between StarKist Samoa and Samoa Packing have been made by the regulatory agency in its 13 August 1991 letter to StarKist Samoa. It should be noted that StarKist Samoa's DAF unit has consistently achieved a much higher level of TP removal efficiency than Samoa Packing due to its addition of both polymer and alum.

With respect to Samoa Packing's higher TN removal efficiency as stated in EPA's August 13th letter, it should also be noted that SamPac's fish thawing process is different from that of StarKist's. Sampac recycles its thaw water which is made up of city water. StarKist uses once through sea water for thawing. The process at SamPac probably yields a much higher level of nitrogen loading in the influent than at StarKist's. This would certainly account for SamPac's ability to consistently meet the 35 percent removal requirement.

Validity of StarKist Samoa's TN and TP Data

All of StarKist Samoa's influent and effluent analyses for Total Nitrogen and Total Phosphorus are performed by AECOS - a qualified commercial laboratory in Honolulu - which met US EPA's DMR-QA Evaluation Study 011 for TP and TN.

Decreasing Trend in Nutrient Loadings to the Harbor

The loadings of TP and TN (measured in pounds per day) into the Pago Pago Harbor have been steadily decreasing. The August 1991 Total Nitrogen loading to the Bay was reduced to only 60 percent of the absolute loading limit of 1,675 #/day.

Conclusions

A review of the plant's operational data did not reveal any operational problems. This is substantiated by the consistently high removal efficiencies for TSS, O&G, TP and particulate nitrogen.

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Table 1: Analysis of Soluble Nitrogen in StarKist Samoa's wastewater (August 1991)

		Total Nitrogen				Soluble TN						Particulate TN		
Date August	Flow mgd	Influent mg/l	Effluent mg/l	Influent #/day	Effluent #/day	Influent mg/l	Percent Soluble	Effluent mg/l	Percent Soluble	Influent #/day	Effluent #/day	Influent #/day	Effluent #/day	Percent Removal
Aug 1	1.5501	188.00	122.00	2423	1573	124.0	66%	110.0	90%	1598	1418	825	155	81.25%
Aug 6	1.3128	111.00	94.00	1212	1026	84.2	76%	80.3	85%	919	877	293	150	48.88%
Aug 8	1.1950	157.00	114.00	1560	1133	110	70%	94.1	83%	1093	935	467	198	57.66%
Aug 14	1.4700	91.30	98.90	1116	1209	64.8	71%	82.7	84%	792	1011	324	198	38.87%
Aug 16	1.2132	122.00	107.00	1231	1080	90.5	74%	91.1	85%	913	919	318	160	49.52%
Aug 20	1.4589	125.00	87.60	1517	1063	85.7	69%	66.9	76%	1040	812	477	251	47.33%
Aug 22	1.3643	100.00	88.50	1135	1004	79.8	80%	72.9	82%	905	827	229	177	22.77%
Aug 29	1.4072	102.00	47.30	1194	554	74.3	73%	48.7	* 100%	869	570	324	* 0	100.00%
Aug 30	1.0617	84.70	72.30	748	638	55.3	65%	68.4	95%	488	604	260	34	86.73%
Average	1.3370	120.11	92.40	1348	1031	85.40	72%	79.46	76%	958	886	391	147	59.22%
Maximum	1.5501	188.00	122.00	2423	1573	124.00	80%	110.00	95%	1598	1418	825	251	100.00%

Particulate TN = Total TN – Soluble TN

* rounded off

15 OCT 1991

Copy to Doug Liden (Mike Lee)

AMERICAN SAMOA GOVERNMENT
PAGO PAGO, AMERICAN SAMOA 96799

In reply refer to:

OFFICE OF THE GOVERNOR
ENVIRONMENTAL PROTECTION AGENCY

Serial: 406

September 27, 1991

Steven Costa
CH2M Hill
6425 Christie Avenue
Emeryville, California 94608

Dear Mr. Costa:

I have reviewed your request for water quality certification for construction of the joint cannery outfall located in the outer portion of Pago Pago harbor. This project is consistent with the protected uses for Pago Pago harbor as provided for in the American Samoa Water Quality Standards. This project is also in compliance with sections 301,302,303,306, and 307 of the Clean Water Act, and certification is hereby given.

Every effort should be made to reduce turbidity in Pago Pago Harbor during construction of the outfall. Efforts should be made to minimize any soil erosion in Pago Pago Park as a result of the land construction phase.

Sincerely,

Pati Faiai, Executive Secretary
Environmental Quality Commission

cc: Pat Young, ASEPA
Environmental Coordinator, ASEPA
Enforcement Branch, ASEPA
Maurice Callaghan, Star Kist Samoa
Michael macready, Samoa Packing

StarKist Seafood Company

An Affiliate of H.J. Heinz Company

Heinz

1 East Ocean Boulevard
Long Beach, California 90802-4797
Telephone: 213-590-9900

August 22, 1991

Mr. Norman Lovelace (E-4)
OPINAP
U.S. Environmental Protection Agency
75 Hawthorn Street
San Francisco, CA 94105

Mr. Pati Faiai
American Samoa Environmental Quality
Commission
Office of the Governor
American Samoa Government
Pago Pago, American Samoa 96799

Gentlemen:

Re: StarKist Samoa's Source Reduction Program

Pursuant to your request as stated in Mr. Seraydarian's letter of August 13, 1991, please find enclosed a copy of StarKist Samoa's report on its Source Reduction Program.

Sincerely,

STARKIST SAMOA, INC.

MAURICE W. CALLAGHAN
General Manager

/tl

Attachment

cc: Ms. Sheila Wiegman - ASEPA
Ms. Virginia Gibbons - Assistant Attorney General
Mr. Ralph A. Ward
Mr. Norman Wei
Mr. William Adams

STARKIST SAMOA'S SOURCE REDUCTION PROGRAM

AUGUST 22, 1991

This report is prepared in response to U.S. EPA's request for information on StarKist Samoa's source reduction program.

The program consists of the following components:

Phosphate-free Detergent

The plant switched to using phosphate-free detergents for plant washdown in early 1990. This reduces the phosphorus loadings to the treatment plant.

Reduction of City Water Usage

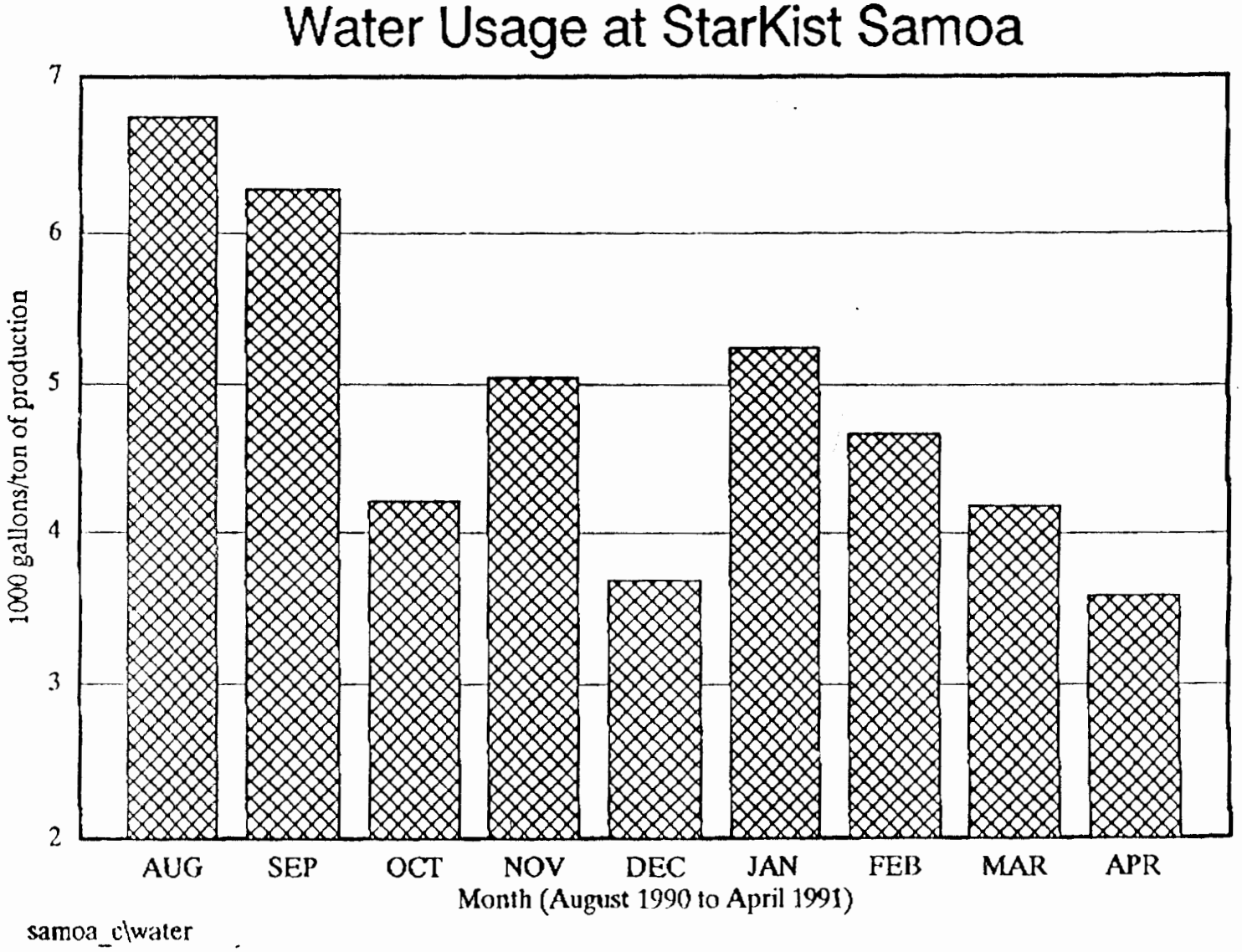
Since August of 1990, the plant has reduced its usage of city water for plant washdown by using squeegees as much as possible instead of water hoses. The overall water usage per unit of production has been on a steady downward trend as shown in the attached figure. The effect of this program is that less scrap is being washed down to the treatment plant.

Vacuum Cleaning System

An industrial strength vacuum system was ordered on February 28th, 1991 for testing. The unit arrived in American Samoa in May. Receptacles throughout the plant are being retrofitted to ensure proper and safe electrical grounding. This unit is a ten horsepower system capable of picking up fish scrap from the packing room floor and transferring the material via a loader to the fishmeal plant. Solids loading to the wastewater treatment plant is expected to be reduced accordingly. Testing of the vacuum unit is scheduled for late August. If the unit proves to be successful after two weeks of testing, the plant plans to purchase two additional ones - one for the fishmeal plant and the other in the filling room and as a back-up. The net effect would be significant reduction of nutrient loadings to the treatment plant.

Fishmeal Plant Modifications

A new hopper has been installed at the fishmeal plant so that the wet meal can be tipped directly into the screw conveyor system. This reduces the amount of fish scrap and nutrients that goes into the wastewater treatment plant. Senior management is considering the installation of a new fishmeal plant which would further reduce the loadings on the wastewater treatment plant.



samoa_c\water

- Mike FMI.

AMERICAN SAMOA GOVERNMENT
PAGO PAGO, AMERICAN SAMOA 96799

In reply refer to:

OFFICE OF THE ATTORNEY GENERAL

Serial: 1152-91

August 5, 1991

Maurice Callaghan
President and General Manager
Starkist Samoa, Inc.
P.O. Box 368
Pago Pago, American Samoa 96799

Dear Mr. Callaghan:

Pursuant to reports filed by you and as verified by the American Samoa Environmental Quality Commission, the following violations of effluent limitations under Appendix A to the Consent Decree filed in the matter of ASG v. Starkist, C.A. No. 65-90, have been recorded:

Date	Parameter	Type	Effluent Limitation	Actual Discharge
3/20/91	Nitrogen	Daily Maximum	1305 lb/day	1379 lb/day
3/22/91	Nitrogen	Daily Maximum	1305 lb/day	1346 lb/day
4/9/91	Nitrogen	Daily Maximum	1465 lb/day	1545 lb/day
4/19/91	Nitrogen	Daily Maximum	1465 lb/day	1687 lb/day
3/91	Nitrogen	Monthly average	807 lb/day	972 lb/day
4/91	Nitrogen	Monthly average	1115 lb/day	1198 lb/day
5/91	Nitrogen	Monthly average	1421 lb/day	1481 lb/day

The stipulated penalty per violation of the daily maximum effluent limitation is $1,000 each, for a total of $4,000. The penalty for failure to comply with the monthly average limitation is $10,000 for the first month, $15,000 for the second month, and $20,000 for the third month, for a total of $45,000. All penalties to date total $49,000.

I regret to have to call to your attention paragraph V.H. of the Consent Agreement which states:

> "Any stipulated penalties incurred by defendant shall be paid without demand by defendant's check, made payable to the American Samoa Government... by the 30th day of the month following the month in which... the limitation was exceeded."

As you know, these provisions were incorporated into the Opinion and Order of the High Court of American Samoa signed on August 3, 1990.

The fines accrued by Starkist are overdue. I will not hesitate to invoke the powers of the court to enforce its Order if payment of the fines accrued to date is not immediately made.

Sincerely,

TRUTAI A.F. FAALEVAO
Attorney General

VLG:fst

cc: The Governor
Wm. Dyke Coleman, Chairman, EQC
Pati Faiai, Director, ASEPA
Virginia L. Gibbons, Assistant Attorney General
EPA Region 9 ←

AMERICAN SAMOA GOVERNMENT
PAGO PAGO, AMERICAN SAMOA 96799

In reply refer to:

OFFICE OF THE GOVERNOR
ENVIRONMENTAL QUALITY COMMISSION
Serial:300

June 7, 1991

Maurice Callaghan
General Manager
Star Kist Samoa
P. O. Box 468
Pago Pago, American Samoa 96799

Dear Mr. Callaghan:

The Environmental Quality Commission (EQC) has considered your request dated March 7, 1991, for a variance of temperature limitations for discharges to Pago Pago Harbor. A public notice on this variance request was issued and no comments were received. The EQC approved the variance on April 10, 1991, after finding 1) the discharge at a temperature of 90 degrees Fahrenheit will not endanger human health or safety; 2) compliance with the temperature limitation will likely produce serious hardship without equal or greater benefits to the public; and 3) the relative interests of the public, other property owners, and the applicant were considered.

This variance will allow the discharge of treated effluent from the outfall at 90 degrees Fahrenheit until March 8, 1992. Reporting as required in the National Pollutant Discharge Elimination System permit for this outfall will be utilized to determine compliance with the variance.

Please feel free to contact me if you have any questions or require any additional information.

Sincerely,

Pati Faini, Executive Secretary
Environmental Quality Commission

cc: Pat Young, USEPA
ASEPA Environmental Coordinator
ASEPA Enforcement Branch

StarKist SAMOA, Inc.

P.O. BOX 368 • PAGO PAGO • AMERICAN SAMOA 96799

March 7, 1991

Mr. Pati Faiai
Executive Secretary
The Environmental Quality Commission
Office of the Governor
Pago Pago, American Samoa 96799

Dear Mr. Faiai:

Pursuant to Section 24.0141, ASCA of the Environmental Quality Act, StarKist Samoa, Inc. hereby requests variance from temperature requirements of the Section 24.02606 (a) (6), Water Quality Standards.

The reason for this application is provided below:

At the present time, StarKist Samoa is meeting the interim maximum temperature limit of 90°F under the plant's NPDES discharge permit as issued by the U.S. Environmental Protection Agency.

On March 8th 1991, American Samoa's water quality standard for temperature will go into effect under the plant's NPDES Permit. The maximum temperature limitation will be 85°F. StarKist Samoa, Inc. will not be able to meet this limitation at all times by this date.

In order to meet this new temperature limit, StarKist Samoa began the implementation of a temperature control management system about 6 months ago at a cost of $240,000. The system is briefly described below:

1. The scrubber water in the reduction plant will be recycled. This will eliminate about 200,000 gallons of scrubber water at over 95°F.

2. The boiler blowdown water and the can wash water will be routed to a new sump and processed through a new cooling tower which will cool the water temperature from 150°F to 95°. The cooled water will then be discharged to the retention tank.

3. Cold thaw water will be retained in a holding tank fitted with the necessary pump and valve control system to enable it to feed cold thaw water into the treatment plant when temperature of the treatment plant exceeds a certain level.

This system is now 80 percent complete and commissioning is scheduled for early May of 1991. Although this system is designed to achieve American Samoa's water quality standard for temperature, a start-up period and extensive testing of full-scale operation are required. For this reason, StarKist Samoa requests that a variance be granted by the Environmental Quality Commission until March 6, 1992.

StarKist Samoa fully expects to meet the temperature standard by March 7, 1992.

Sincerely,

STARKIST SAMOA, INC.

MAURICE W. CALLAGHAN
General Manager

/tl

cc: N. Lovelace - US EPA
R. A. Ward
N. Wei

8/27/91

Memo to the file

From: Pat Young, American Samoa Program Manager

Telecon w/Norman Wei, StarKist

Norman called regarding guidance on NPDES permit application for StarKist's outfall 002 which is a stormwater discharge. They are in the process of filling out an application for the new joint canneries' outfall and he wanted to know:

1. Has the deadline for applying for indisutry-related stormwater discharge permits been extended as indicated under the proposed rule, from November 1991 to May 1992?

2. If StarKist has to do stormwater characterization as indicated under the proposed rules, they can meet the May 1992 deadline, but can't submit the information with the present application (they're trying to meet a September deadline). Also this appears to be a lot of work.

I called Eugene Bromley and explained the situation and questions. He said that while the canneries are covered under the industry-related stormwater regs under these circumstances, StarKist should apply for its permit using the normal procedures, as the existing stormwater discharge is already covered under the existing permit. In the future, if StarKist has more stormwater discharge sources, they will be covered under the new general permit EPA will be issuing, which will include the islands. Thus, SK doesn't have to do any stormwater characterization study.

I relayed this information back to Norman Wei. He asked if they had to provide information as indicated in the permit application for TSS, BOD, etc. for their stormwater discharge. They don't have this information as they were not required to monitor for this under the existing permit. We agreed that they should provide whatever information they've submitted with the DMRs, with an explanation, and we'll see if that is sufficient. I told him that this made sense since we are mainly interested in the joint outfall.

Mike - I've gotten a few more questions from CH2MHill re: applicati. I'd like to run by you before talking to Madonna.

Pat 8/28

27 AUG 1991

StarKist Seafood Company

An Affiliate of H J Heinz Company

Heinz

'80 East Ocean Boulevard
Long Beach, California 90802-4797
Telephone: 213-590-9900

August 20, 1991

Mr. Tautai A. F. Fa'alevao
Attorney General
American Samoa Government
Pago Pago, American Samoa 96799

Dear Mr. Attorney General,

Further to your letter of August 5 1991, attached is our Check in the amount of $49,000 being stipulated penalties covering the period March, April and May 1991.

We have now received modified interim effluent limitations from EPA in San Francisco reducing the removal efficiency requirement from 35% to 25% effective August 1 1991.

StarKist Samoa is continuing to do its utmost to meet these limitations and this is evidenced by various inplant improvements we have made.

Also attached is our Check in the amount of $11,000 being in respect of July violations.

Sincerely,

STARKIST SAMOA, INC.

MAURICE W. CALLAGHAN
General Manager

/tl

cc: The Governor
Wm Dyke Coleman, Chairman EQC
Pati Faiai, Director ASEPA
Virginia Gibbons, Assistant Attorney General
Norman Lovelace, EPA Region 9

Wm Adams
R. Higgins
R. A. Ward
N. Wei
T. Liaiga

Star-Kist Samoa, *Inc.*

PAGO PAGO • TUTUILA ISLAND • AMERICAN SAMOA

AMERICAN SAMOA BRANCH
BANK OF HAWAII
PAGO PAGO, TUTUILA
AMERICAN SAMOA 96799

101-400
1214

No. 75668

8/20/91

NOT VALID AFTER 60 DAYS

PAY
TO THE
ORDER
OF

Thousand 11,000 Dollars Dollars

AMERICAN SAMOA GOVERNMENT (TREASURER)
C/- OFFICE OF ATTORNEY GENERAL
PAGOPAGO AMERICAN SAMOA

GENERAL ACCOUNT

Melanie F. Ahrens

⑆121404006⑆ 0034⑈003939⑈

DATE	REFERENCE	GROSS AMOUNT	DISCOUNT	PREVIOUS BALANCE	BALANCE	REMARKS
	EPA VIOLATION FOR JULY			$11,000.00		
	CHECK NO. 75668 AND VOUCHER NO. 40861					

MC

PLEASE DETACH
THIS REMITTANCE ADVICE
BEFORE DEPOSITING CHECK

STAR-KIST SAMOA, INC.
PAGO PAGO, TUTUILA, AMERICAN SAMOA

THE ATTACHED CHECK
IS IN PAYMENT OF THE
ITEMS LISTED ABOVE

Star-Kist Samoa, *Inc.*

PAGO PAGO • TUTUILA ISLAND • AMERICAN SAMOA

AMERICAN SAMOA BRANCH
BANK OF HAWAII
PAGO PAGO, TUTUILA
AMERICAN SAMOA 96799

101-400
1214

No. 75666

8/16/91

NOT VALID AFTER 60 DAYS

PAY
TO THE
ORDER
OF

Th[illegible] 49,0[illegible] [illegible]s [illegible]

AMERICAN SAMOA GOVERNMENT (TREASURER)
C/- OFFICE OF ATTORNEY GENERAL
PAGO PAGO AMERICAN SAMOA

GENERAL ACCOUNT

Tanayuis F Hiringa

⑆121404006⑆ 0034⑈003939⑈

DATE	REFERENCE	GROSS AMOUNT	DISCOUNT	PREVIOUS BALANCE	BALANCE	REMARKS
		EPA VIOLATION		$49,000.00		
		CHECK NO. 75666 AND VOUCHER NO. 40798				

PLEASE DETACH
THIS REMITTANCE ADVICE
BEFORE DEPOSITING CHECK

STAR-KIST SAMOA, INC.
PAGO PAGO, TUTUILA, AMERICAN SAMOA

THE ATTACHED CHECK
IS IN PAYMENT OF THE
ITEMS LISTED ABOVE

Copy to [illegible]

CH2M HILL TRANSMITTAL

TO U.S. Environmental Protection Agency
Region IX
South Pacific Division
75 Hawthorne Street
San Francisco, Ca 94105

FROM Steve Costa
Project Manager
phone. 415 652 2426
Ext 2251

ATTN Ms. Pat Young

DATE 7-15-91

RE Joint Cannery Outfall - Am. Samoa

PROJECT NUMBER PDX 30702.PA.EA

WE ARE SENDING YOU

- ☐ ATTACHED
- ☐ UNDER SEPARATE COVER VIA
- ☐ SHOP DRAWINGS
- ☐ DOCUMENTS
- ☐ TRACINGS
- ☐ PRINTS
- ☐ SPECIFICATIONS
- ☐ CATALOGS
- ☒ COPY OF LETTER
- ☐

QUANTITY	DESCRIPTION
1	Letter to American Samoa Coastal Management Program Economic and Development Planning Office; Lydia Faleafine
1	Letter to U.S. Fish and Wildlife Service, Pacific Island Office; Mr Robert Smith
1	Letter to National Marine Fisheries Service; Mr. John Naughton
1	Letter to American Samoa Government, Dept. of Parks and Recreation; Mr. David Herdrich
1	Brief Description of Joint Cannery Outfall Project

IF MATERIAL RECEIVED IS NOT AS LISTED, PLEASE NOTIFY US AT ONCE

REMARKS for your information

COPY TO

REV 1/87 FORM 6

Engineers
Planners
Economists
Scientists

July 15, 1991

PDX30702.PA.PR

American Samoa Coastal Management Program
Economic Development Planning Office
American Samoa Government
Pago Pago, American Samoa 96799

Attention: Lydia Faleafine, Director

Subject: Joint Cannery Permitting Section 307 Consistency

Dear Ms Faleafine,

Under Section 307 of the Coastal Zone Management Act (CZMA), non-Federal activities that are conducted under Federal licenses or permits are subject to review by the American Samoa Government to insure consistency with the CZMA. StarKist Samoa and Samoa Packing propose to construct a joint outfall discharging approximately 7000 feet seaward of the present individual outfalls. A summary project description is enclosed with this letter.

This letter is submitted to the American Samoa Coastal Management Program on behalf of StarKist Samoa, Inc. and Samoa Packing Company, Inc. This letter is a request for certification that the proposed activity complies with the ASCMP and will be conducted in a manner consistent with such program. A set of findings documenting that the proposed activity is consistent with the ASCMP is attached to this letter as Table 1. Outfall construction impacts will be minor and temporary. The long term impact of the joint outfall project will be beneficial and provide an improvement in water quality throughout Pago Pago Harbor. An environmental impact assessment is being prepared for this project.

The tuna canneries understand that the Development Planning Office (DPO) will circulate this consistency certification among Territorial and local government agencies that may be affected by the proposed activity. A timely response to the request for certification of compliance would be appreciated since the applicants are operating under a deadline.

Thank you for your assistance in this matter. If you have any questions concerning the proposed outfall, please contact Steve Costa, who is managing the joint cannery outfall permitting activities, at (415) 652-2426.

Sincerely,

CH2M HILL

Beth Hussey

Beth Hussey, Environmental Sciences Department
Enclosures (1)
cc: Lelei Peau/ASCMP
Norman Wei/StarKist Seafood Company
James Cox/Samoa Packing Company
Andrew Resnick/Makai Ocean Engineering

CH2M HILL San Francisco Office 6425 Christie Avenue, Suite 500 Emeryville, CA 94608 415.652.2426 Fax 415.652.0482

Table 1. Summary of Joint Cannery Outfall Project Compliance with the American Samoa Coastal Management Program (ASCMP) Objectives. NA = Not Applicable

OBJECTIVE	COMPLIANCE
a. Territorial Administration	NA (NPDES permit is required)
b. Village Development	NA
c. Shoreline Development	No development on the shoreline is proposed, and the project does not encourage new development.
d. Coastal Hazard	No development is planned above water, so that flooding and shoreline erosion will not a consideration.
e. Fisheries Development	NA
f. Slope Erosion	No development on land is proposed. Construction staging and mobilization will have minimal soil disturbance.
g. Major Facility Siting	The outfall is considered a water dependent, major facility. The location for the outfall was chosen to comply with water quality regulations and to avoid impacting coastal resources in the area.
h. Agricultural Development	NA
i. Reef Protection	The project will benefit the reefs by improving water quality in Pago Pago Harbor. The outfall pipeline route was chosen to avoid impacting the coral reefs in Pago Pago Harbor.
j. Recreation/Shoreline Access	Construction and mobilization will temporarily impact a portion of Pago Pago Park. Improved water quality will have a long term, permanent beneficial effect on water dependent recreational activities.
k. Water Quality	Extending the pipeline from the inner to middle Pago Pago Harbor will improve water quality throughout the harbor.
l. Marine Resources	The project will have a beneficial impact on marine life by improving the water quality in the Pago Pago Harbor. (Section 7 coordination in progress)
m. Drinking Water Quality	NA
n. Unique Areas	Pago Pago Harbor is a unique resource. The project will benefit the area by improving water quality in the harbor.

Table 1. Summary of Joint Cannery Outfall Project (continued)

OBJECTIVE	COMPLIANCE
o. Archaeological /Cultural/ Historic Resources	No archaeological, cultural or historic resources will be impacted by the outfall construction. (SHPO Coordination in progress)
p. Special Areas	Pago Pago Harbor is considered a Special Area by ASCMP. Construction of the outfall is a water dependent activity that is designed to improve water quality in the harbor.

Engineers
Planners
Economists
Scientists

July 15, 1991

PDX30702.PA.PR

National Marine Fisheries Service
2570 Dole Street
Honolulu, HI 96822-2396

Attention: Mr. John Naughton

Subject: Joint Cannery Permitting, Pago Pago Harbor
Dear Mr. Naughton,

As we discussed on the telephone last week, the two canneries operating in the Pago Pago Harbor area (StarKist Samoa, Inc. and the Samoa Packing Company, Inc.) have proposed building a joint outfall. The new outfall will move the discharge location from the inner harbor to the outer harbor and improve effluent dilution and water quality in the harbor.

This letter is written on behalf of the canneries as a coordination letter in preparation of the Environmental Impact Assessment and Army Corps of Engineers Construction Permit. The applicants request information concerning threatened and endangered species known in the area affected by pipeline construction activities. A similar letter is being sent to Robert Smith of the U.S. U.S. Fish and Wildlife Service.

Several studies have been undertaken to determine the feasibility of the project, and to help determine the best outfall design consistent with water quality standards in the area. The outfall will run from the inner harbor at the canneries bulkhead (near Trading Point) in water depths between 30 and 180 feet offshore of the coral reef between Ava Point and Anasosopo Point. The outfall location and design has been selected to mitigate for adverse impacts to water quality by the discharge of the cannery wastewater. The location and construction of the pipeline was chosen to avoid impact to coral reefs in the harbor. A more detailed project description is attached to this letter including a map showing the outfall alignment.

Since the applicants are constrained by a tight schedule and deadline, a timely response will be appreciated. Thank you for your assistance in this matter. Please call me or Steve Costa, the project manager, at (415) 652-2426 if you have any questions or require additional information.

Sincerely,

CH2M HILL

Beth Hussey

Beth Hussey
Environmental Sciences Department

Enclosures (1)
cc: Norman Wei/StarKist Seafood Company
James Cox/Van Camp Seafood Company
Sheila Wiegman/ASEPA
Andrew Resnick/Makai Ocean Engineering

Engineers
Planners
Economists
Scientists

July 15, 1991

PDX30702.PA.PR

U.S. Fish and Wildlife Service
Pacific Islands Office
P.O. Box 50167
Honolulu, HI 96850

Attention: Mr. Robert Smith, Field Supervisor

Subject: Joint Cannery Permitting, Pago Pago Harbor

Dear Mr. Smith;

The two canneries operating in the Pago Pago Harbor area (StarKist Samoa, Inc. and the Samoa Packing Company, Inc.) have proposed building a joint outfall. Presently the two canneries operate separate outfalls which discharge into the inner harbor. The new outfall will move the discharge location from the inner harbor to the outer harbor and improve effluent dilution and water quality in the harbor.

This letter is written on behalf of the canneries as a coordination letter in preparation of the Environmental Impact Assessment and Army Corps of Engineers Construction Permit. The applicants request information concerning threatened and endangered species known in the area affected by pipeline construction activities. A similar letter is being sent to John Naughton of the National Marine Fisheries Service.

Several studies have been undertaken to determine the feasibility of the project, and to help determine the best outfall design consistent with water quality standards in the area. The outfall will run from the inner harbor at the canneries bulkhead (near Trading Point) in water depths between 30 and 180 feet offshore of the coral reef between Ava Point and Anasosopo Point. The outfall location and design has been selected to mitigate for adverse impacts to water quality by the discharge of the cannery wastewater. The location and construction of the pipeline was chosen to avoid impact to coral reefs in the harbor. A more detailed project description is attached to this letter including a map showing the outfall alignment.

Since the applicants are constrained by a tight schedule and deadline, a timely response will be appreciated. Thank you for your assistance in this matter. Please call me or Steve Costa, the project manager, at (415) 652-2426 if you have any questions or require additional information.

Sincerely,

CH2M HILL

Beth Hussey

Beth Hussey
Environmental Sciences Department
Enclosures (1)
cc: Norman Wei/StarKist Seafood Company
James Cox/Van Camp Seafood Company
Sheila Wiegman/ASEPA
Andrew Resnick/Makai Ocean Engineering

CH2M HILL San Francisco Office 6425 Christie Avenue, Suite 500 Emeryville, CA 94608 415.652.2426 Fax 415.652.0482

Engineers
Planners
Economists
Scientists

July 15, 1991

PDX30702.PA.PR

Mr. David Herdrich
Territorial Archaeologist
Department of Parks and Recreation
American Samoa Government
Pago Pago, American Samoa 96799

Subject: Joint Cannery Outfall, Section 106 Consultation

Dear Mr. Herdrich;

The replacement of two separate wastewater outfalls in the inner portion of Pago Pago Harbor with a single longer outfall in the outer harbor is proposed by StarKist Samoa, Inc. and Samoa Packing Company, Inc. The purpose of this letter is to initiate the consultation process of Section 106 of the National Historic Preservation Act for determining potential harm to historic or archaeological sites as a consequence of construction activities for the outfall. The Section 106 consultation process is required for both the American Samoa Government Land Use and Building Permit and for the U.S. Army Corps of Engineers permit.

Project Description
Attached to this letter is a brief description of the proposed pipeline route and construction methods. Also enclosed, at your request, is the bathymetric and side- scan sonar data that was collected during the feasibility study of the joint outfall project. These geophysical data may be helpful in your review of potential impacts of the project. The following section of this letter examines the potential project impacts to cultural resources and the letter concludes with a request for a determination of impacts.

Potential for Impact to Cultural Resources
The potential for finding cultural resources in the area of the project is slight as the project area is primarily located offshore in deep water. The landside construction mobilization is planned for Pago Pago Park at the head of the head of the harbor. This mobilization and staging activity is relatively non-intensive and will result in minor surficial soil disturbance.

A discussion with Stan Sorensen, Historic Preservation Officer for the American Samoa Government, indicated that it is unlikely the project will affect any historical resources. The criteria for historical resources is that the feature be fifty years old or older. Pago Pago Harbor was used by the U.S. military during World War II, and some debris could be located at the bottom that may be considered of historical interest. The side-scan sonar traces collected for the project do not indicate any debris of this nature. During a previous discussion you indicated that a few remnant mortar shells may be present on the bottom resulting from a known Japanese World War II attack on Pago Pago Harbor. The side-scan sonar data did not reveal such artifacts indicating that they may have been broken into pieces or located in areas of the harbor outside the project area. The project will have no impact on the only known ship wreck in Pago Pago Harbor of the oil tanker that sank offshore of the oil dock in 1946.

Discussion with Stan Sorensen indicated that there have been archaeological pottery artifacts discovered during dredging activity 300 feet offshore, in 9 to 12 feet of water, in Western Samoa. He indicated this

CH2M HILL San Francisco Office 6425 Christie Avenue, Suite 500 Emeryville, CA 94608 415.652.2426 Fax 415.652.0482

material was dated at 940 B.C. There is not likely to be any archaeological disturbance along the pipeline route. The depth of water is between 30 and 180 feet between the entry point of the pipe from the dock and the termination at the diffuser. The construction of the pipeline will not involve dredging as the pipeline will be laid on the surface of the harbor bottom. Any bottom disturbance will be minor and any cultural resources materials if present will not be affected.

The archaeological and historical sensitivity of the proposed construction mobilization and staging area located in Pago Pago Park is considered low. Prior filling at this site has already buried any pre-existing cultural material. The use of the park as a mobilization area will be temporary and only minor soil disturbance will occur during general mobilization operations and as the fused pipe sections are moved into the water. The other operations during mobilization and construction: from a barge, from a commercial wharfage area in the main harbor area, and on the cannery sites have extremely low probability of affecting cultural resources.

Request For Determination
Based on the information presented in this letter and the consultation with Stan Sorensen and yourself there appears to be a low probability that cultural resources will be affected during the construction of the pipeline. The use of Pago Pago Park for a construction mobilization area should not involve cultural resources impacts since any pre-existing cultural material is already buried. This opinion is based on our discussions to date, the side-scan sonar data, and the review of potential project impacts. In giving this opinion, a cultural survey has not been conducted nor has any sub-surface testing been conducted.

In your review of the project we request that you conduct a search of your site files and any other available cultural inventories. I would appreciate your opinion as to the potential for cultural resources to be impacted. Also, I would appreciate it if you could coordinate with any local groups or interests that are responsible for review of archaeological or historical matters. If you conclude that there is a low probability of cultural resource impacts from the project we request that you send a letter of response that can be used in making the determination as to impacts of the project. This letter will be included in the environmental impact assessment that is being prepared for the project.

If you have any further questions regarding the outfall project please feel free to contact me at (415) 652-2426. My FAX is (415) 652-0482.

Thank you for your time and consideration of this request.

Sincerely,

CH2M HILL

Steven L. Costa
Project Manager

Attachments (1)
Enclosures (1 set)
cc: Norman Wei/StarKist Seafood Company
James Cox/Van Camp Seafood Company
Andrew Resnick/Makai Ocean Engineering
Sheila Wiegman/ASEPA

MEMORANDUM CH2MHILL

TO: File

COPIES: Norman Wei/Starkist Seafood Company
James Cox/Van Camp Seafood Company
Andrew Resnick/Makai Ocean Engineering
Sheila Wiegman/ASEPA

FROM: Steve Costa/CH2M HILL

DATE: July 15, 1991

SUBJECT: Brief Description of Joint Cannery Outfall Project

PROJECT: PDX30702.PA

JOINT CANNERY OUTFALL PROJECT DESCRIPTION

The proposed joint cannery outfall replaces two existing outfalls for StarKist Samoa, Inc. and Samoa Packing Company located in Pago Pago Harbor, American Samoa (Figure 1). The joint cannery outfall diffuser will be located approximately 7,000 feet seaward from the existing outfalls. The proposed outfall pipeline is a 16-inch diameter high density polyethylene pipe that would carry wastewater from the cannery operations. The proposed pipeline route is indicated on Figure 2. A more detailed description and analysis of the pipeline route and alternatives is included in the Environmental Impact Assessment for the project. The outfall pipeline will originate on land at the same location as the existing cannery outfalls. The cannery pumping stations will be retrofitted or replaced to accommodate the longer outfall pipeline.

The proposed pipeline will be attached to an existing dock and enter the harbor at the terminus of the dock fronting the canneries (Figure 3). The pipeline will be placed on the bottom of the harbor from a barge. No trenching or burial will be done. Where the pipeline crosses the entrance to the Trading Point cove, in water depths of 40 to 65 feet, it will be covered with pre-cast concrete sections or tremie poured concrete into preset forms for protection from boat anchors.

From Trading Point seaward the pipeline will be placed approximately parallel to the coral reef in water depths between 65 and 180 feet. The pipeline will follow along the coral reef easterly between Trading Point and the Pago Pago Harbor navigation range line (Figure 2). The pipeline will then approximately follow the harbor navigation range line until reaching the diffuser area between Ava Point and Anasosopo Point.

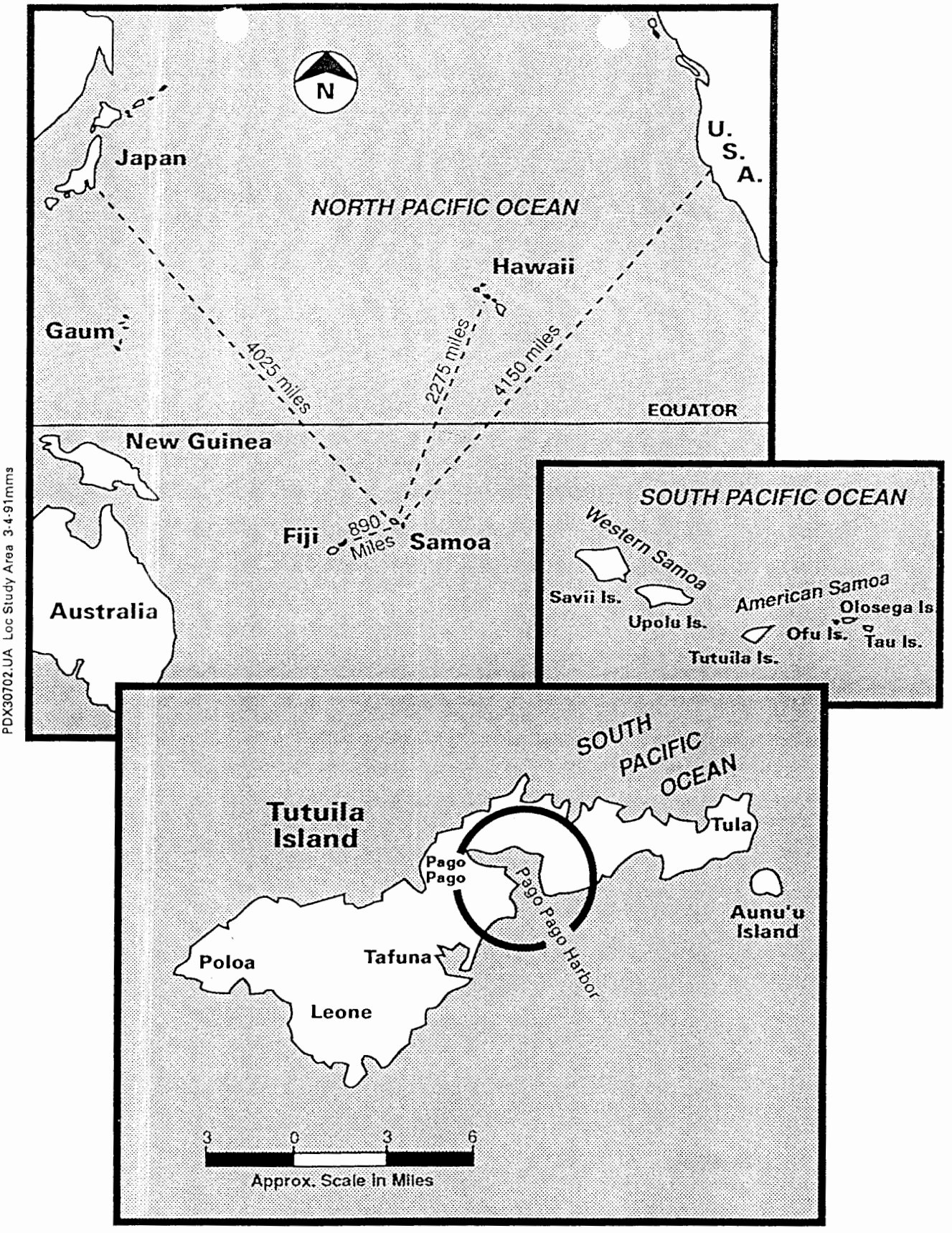
The pipeline will terminate offshore of the coral reef in about 180 feet of water. The diffuser will be located east of the Pago Pago navigation range line to avoid interference with an anchorage designated by the harbor master. The diffuser will have 4-inch to 6-inch diameter ports, spaced between 35 to 50 feet apart. An example of the diffuser structure is shown on Figure 4. The precise number of ports will be determined in the final mixing zone analysis for the project.

The pipeline will be anchored to the bottom in some locations with an anchoring pin system secured by chains or other mechanical attachments to facilitate laying the pipe at the correct depth and angle. Along steep relief portions of the pipeline alignment anchor pins will be attached to the coral by the use of holes drilled into the coral. Epoxy will be injected into the holes to secure the anchor pin positioning. Anchoring will also be necessary at bends in the pipeline route such as in the area where the pipeline turns south near the harbor navigation range line.

The pipeline construction will require the use of about two acres of land for mobilization and staging activity. Land availability is limited along the shoreline of Pago Pago Harbor. The construction is expected to take 3 to 4 months. A construction staging area is proposed in a limited portion of Pago Pago Park near Malaeoletalu Field. The flat open area located next to Laolao Stream and Pago Pago Harbor (Figure 5) would meet mobilization and staging requirements.

Mobilization activity will involve the transport of pipe materials, collar weights, and welding equipment to the site. Truck access through the park will be required and existing roads will be used whenever possible. After completion of the mobilization activity the park grounds will be returned to original condition and re-vegetated as necessary. Minor grading may be required in preparation of the site but soil loss will not present a problem. All construction materials will be removed at the time of project completion.

During construction staging the 40-foot pipe sections would be joined into longer sections and collar weights installed. The land-side mobilization will maximize the length of the pipe sections. The long pipe sections could then be pulled into the water using a temporary ramp to protect and traverse the shoreline. The long pipe sections may be stored in the water on a temporary basis while awaiting placement. The pipe sections would be flooded for sinking and either joined up from a boat or on the bottom by divers.



PDX30702.UA Loc Study Area 3-4-91mms

FIGURE 1
JOINT CANNERY OUTFALL
GENERAL LOCATION

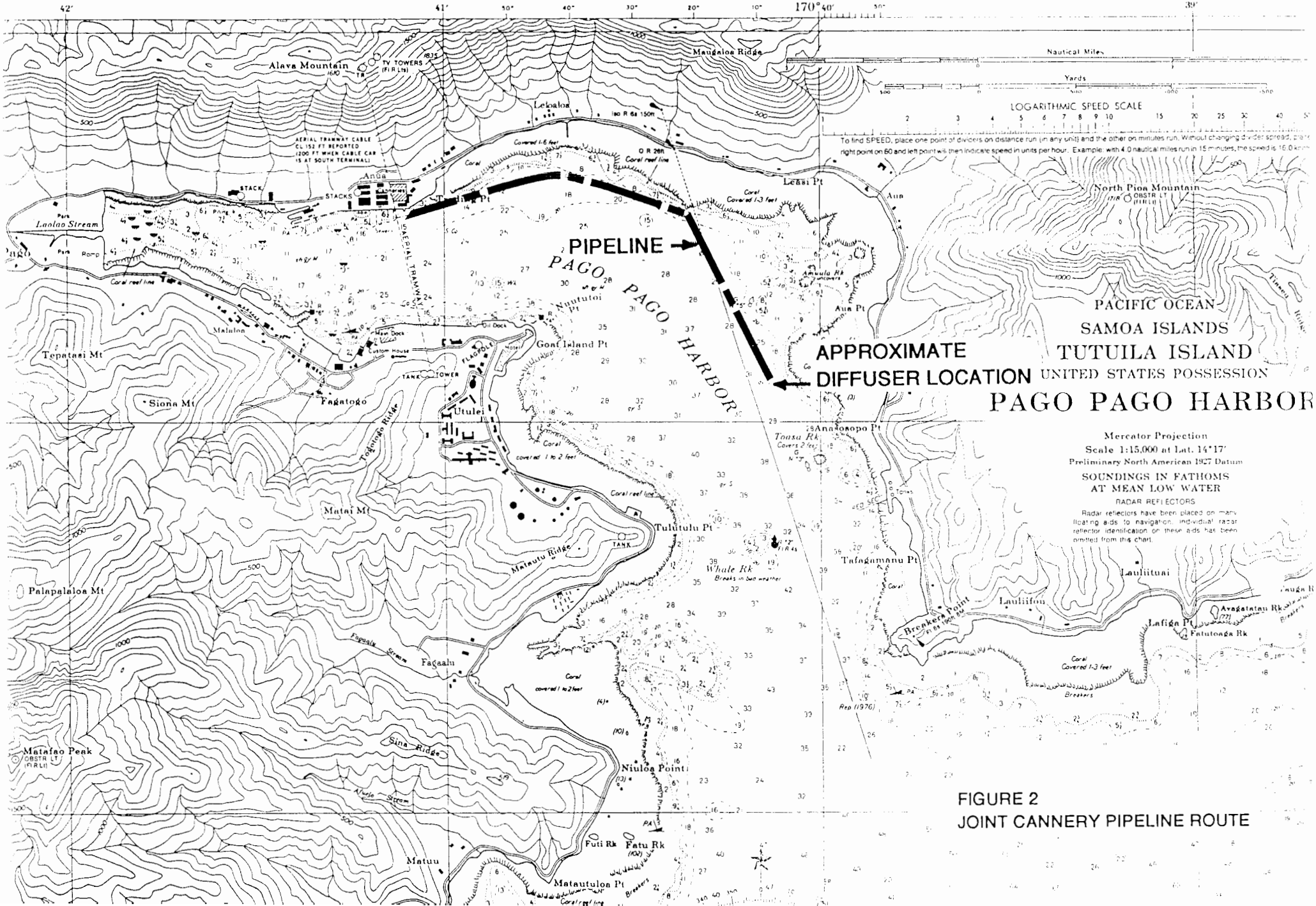


FIGURE 2
JOINT CANNERY PIPELINE ROUTE

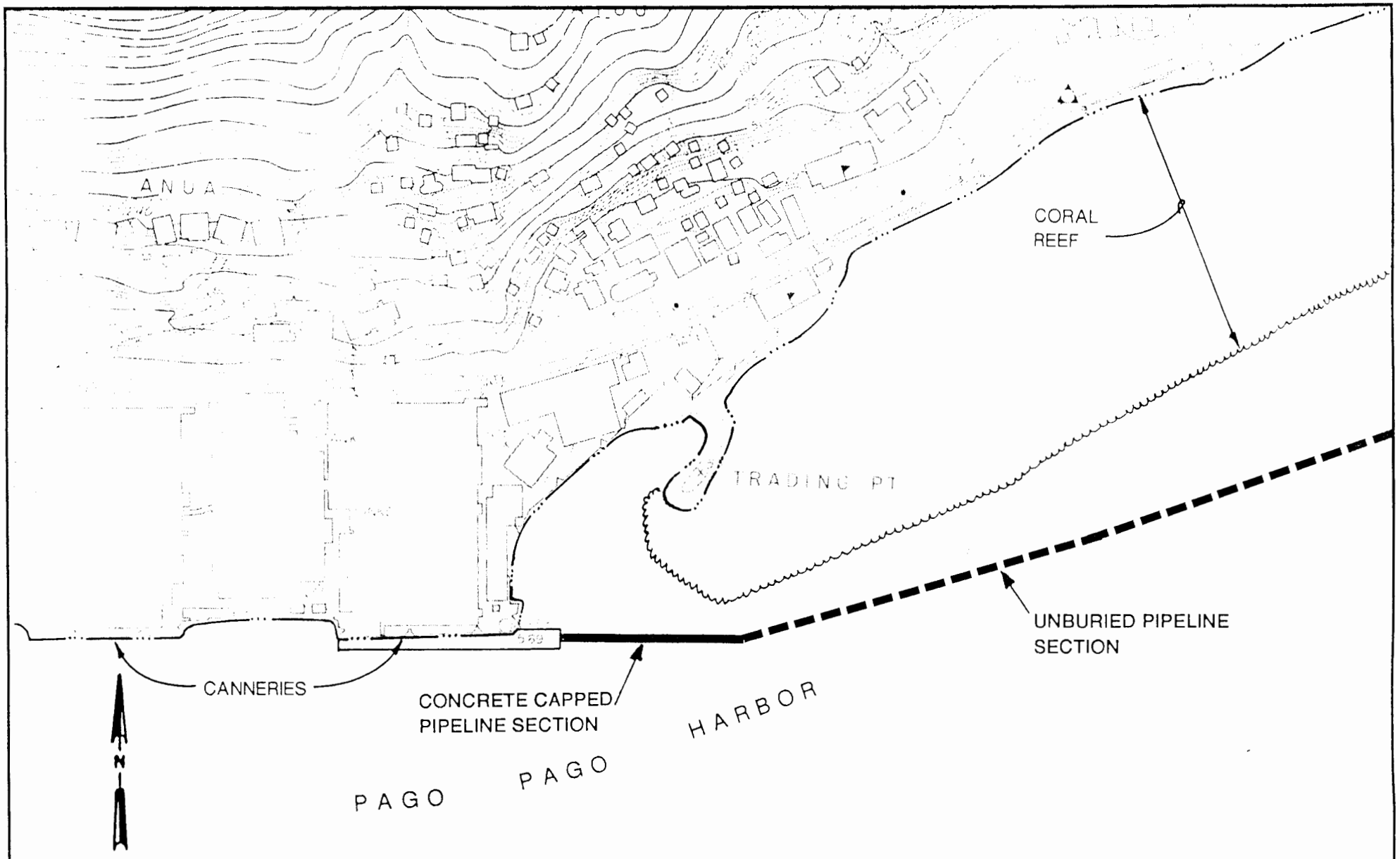


FIGURE 3
JOINT CANNERY PIPELINE ROUTE
IN VICINITY OF TRADING POINT

PDX30702.PA

CH2M HILL

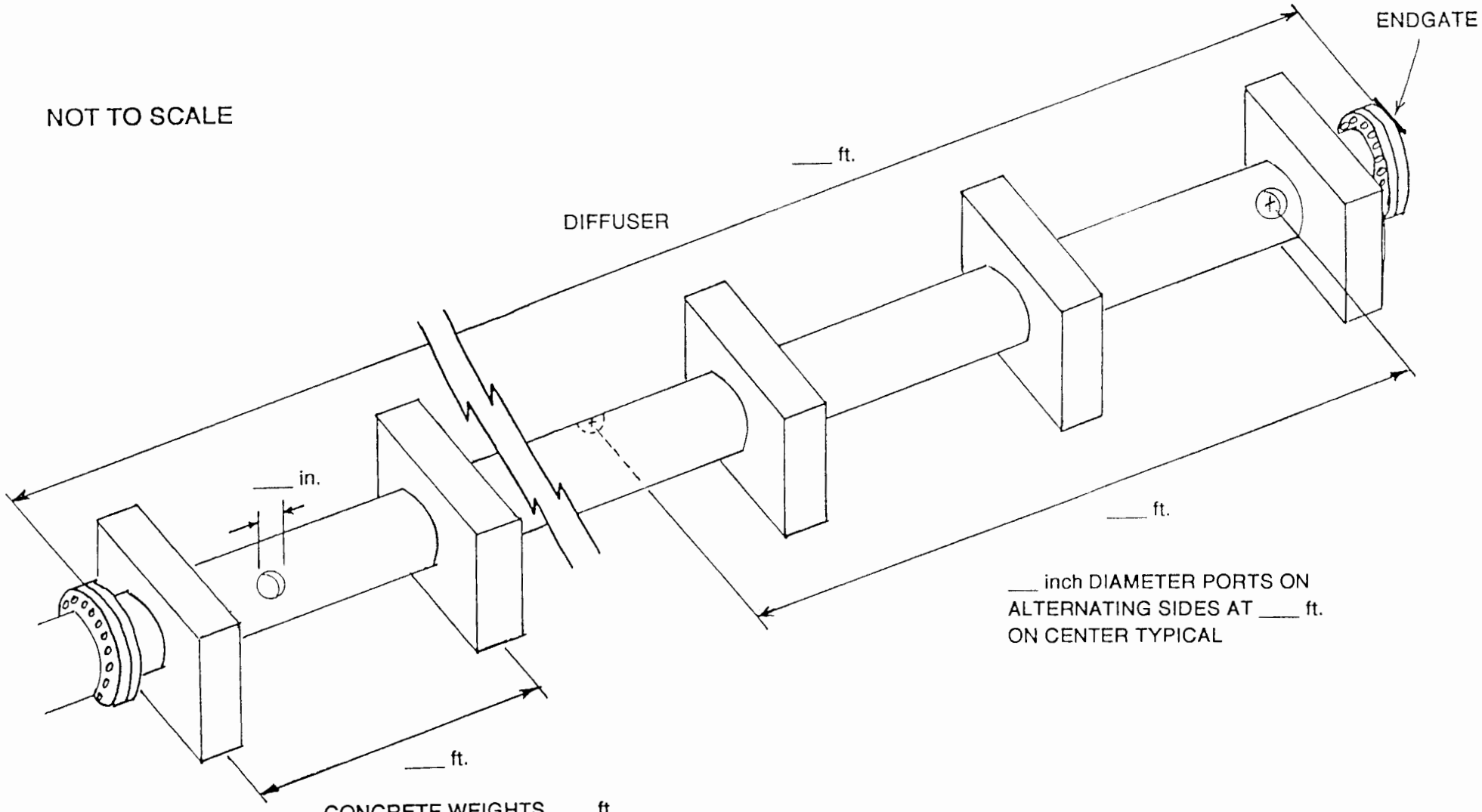


FIGURE 4
EXAMPLE OF OUTFALL DIFFUSER

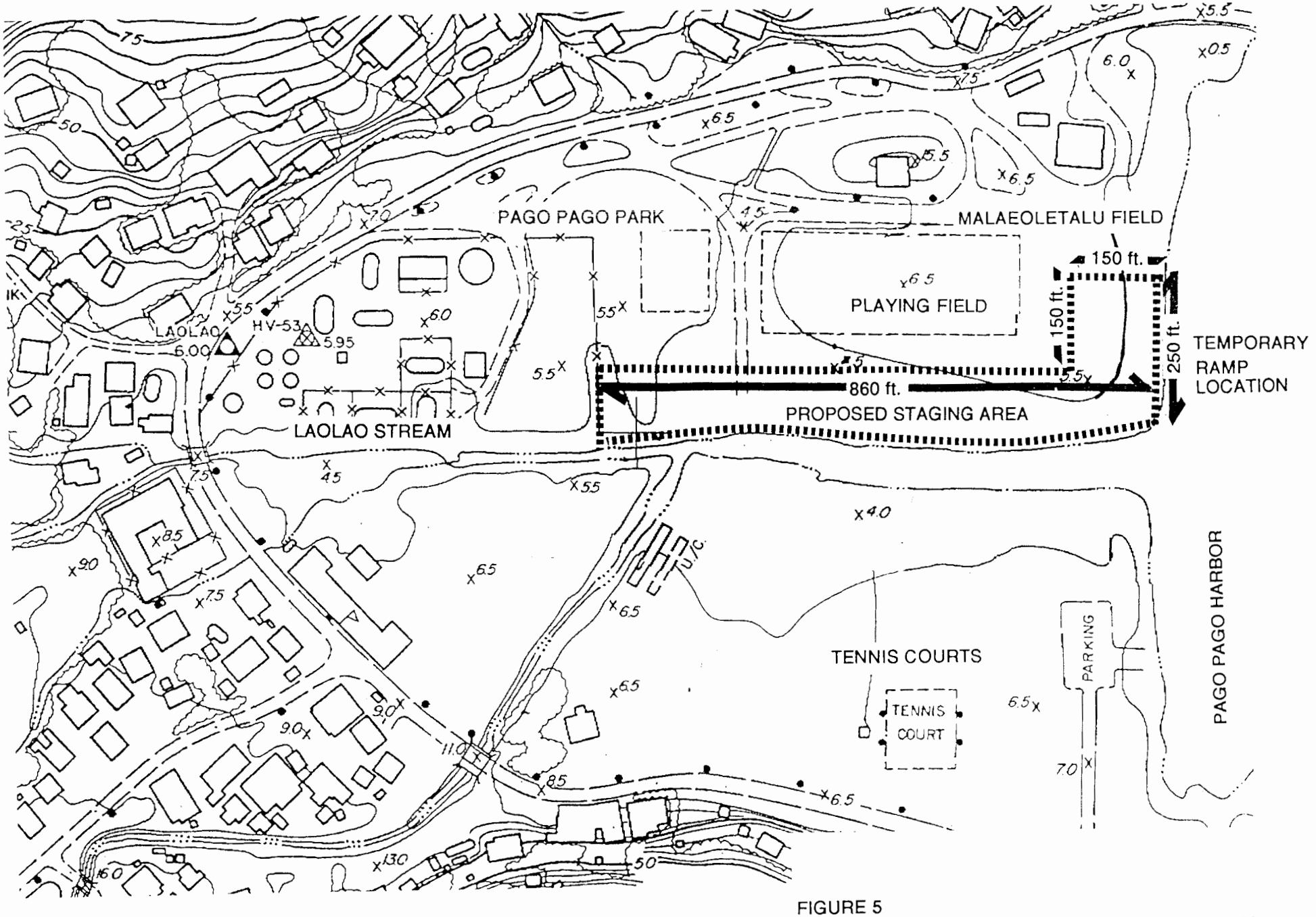


FIGURE 5
PAGO PAGO PARK CONSTRUCTION STAGING AREA

Cpy. to Phil Woods
to Mike Lee
7 JUN 1991 dlb

OFFICE OF THE GOVERNOR

American Samoa Government
Pago Pago, American Samoa 96799

Peter T. Coleman, Governor
Galea'i P. Poumele, Lt. Governor

Telephone (684) 633-4116
Fax: (684) 633-2269

May 21, 1991

Serial: 201

Maurice Callaghan
Star Kist Samoa
P.O. Box 468
Pago Pago, American Samoa 96799

Dear Mr. Callaghan:

The Environmental Quality Commission (EQC) has reviewed the Use Attainability and Site Specific Criteria Analysis for Pago Harbor by CH2M Hill. Our review and findings are based on the Environmental Quality Act, the Water Quality Standards (WQS), and technical merits of the study. The findings are as follows:

1. The uses of Pago Pago Harbor as stated in the WQS are not examined or discussed in relation to the biological or water quality data in any rigorous manner. The use of the harbor for mariculture is not discussed at all. The study did not address the causes of impairment of uses.

2. The study does not discuss background of natural levels of nutrients as compared to those from anthropogenic sources. The existing WQS provide for significant amounts of nutrient input from all sources.

3. Existing uses of Pago Pago Harbor are not now fully met as shown by fish kills and dissolved oxygen depletion likely related to nutrient input and eutrophication. According to local law, water quality standards cannot be relaxed when existing beneficial uses are not met.

4. The characterization of the middle harbor as a healthy ecosystem is not technically justified for several reasons.

   a) The determination that the outer harbor is a healthy ecosystem, and thus, so is the middle harbor because they are similar, is not substantiated.

b) The information presented in the report is not adequate to conclude that the middle harbor supports a healthy ecosystem. No references are provided to show that 20 percent live coral cover is indicative of a healthy ecosystem. By other standards, this would indicate a "poor habitat."

c) The data on benthic and human fish catches are about ten years old and thus of uncertain relevance to conditions today.

5. The biological evaluation of the harbor did not specify which species should be protected, which species could potentially exist if physical and chemical factors impairing uses were corrected, or the presence or absence of intolerant or sensitive species.

6. The report failed to fully demonstrate that widespread economic and social impact would occur if the water quality standards were not changed. Such impact must be demonstrated to warrant a change to WQS according to local law. Existing beneficial uses must be met for such a change, and these are not now being met.

The EQC has fully considered the recommendations on the WQS contained in the Use Attainability Study, but implementation of these recommendations is not possible due to the above legal and technical findings. Review of the engineering feasibility studies is ongoing, and responses to these will be forwarded to you in the immediate future.

Please feel free to contact me should you have any questions on this matter.

Sincerely,

William P Coleman

WILLIAM P. COLEMAN
Environmental Quality Commission

cc: EQC members
Norman Lovelace, USEPA

OFFICE OF THE GOVERNOR

American Samoa Government
Pago Pago, American Samoa 96799

Peter T. Coleman, Governor
Galea'i P. Poumele, Lt. Governor

Telephone (684) 633-4116
Fax: (684) 633-2269

May 21, 1991 Serial: 202

Mike Macready
Samoa Packing Co.
P.O. Box 957
Pago Pago, American Samoa 96799

Dear Mr. Macready:

The Environmental Quality Commission (EQC) has reviewed the Use Attainability and Site Specific Criteria Analysis for Pago Harbor by CH2M Hill. Our review and findings are based on the Environmental Quality Act, the Water Quality Standards (WQS), and technical merits of the study. The findings are as follows:

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Sincerely,

William P Coleman

WILLIAM P. COLEMAN
Environmental Quality Commission

cc: EQC members
Norman Lovelace, USEPA

Rec'd 5/6/91
My Copy to Mike

StarKist Samoa, Inc.

P.O. BOX 368 PAGO PAGO, AMERICAN SAMOA 96799

(684) 644-4231
FAX NO: (684) 644-2440

May 1, 1991

Mr. Norman Lovelace
OPINAP (E-4)
U. S. Environmental Protection Agency
Region 9
75 Hawthorne Street
San Francisco, CA 94105

Dear Mr. Lovelace:

Re: Selection of Disposal Method

In accordance with the requirements of its Consent Decree with the American Samoa Government, StarKist Samoa Inc. hereby notifies the Government and the High Court of American Samoa that the canneries (StarKist Samoa and Samoa Packing) plan to discharge their treated effluents jointly through a 7,000 foot marine pipeline to be constructed in the Pago Pago Harbor.

Based on the findings and recommendations contained in CH_2M Hill's engineering feasibility study dated March 1991, the canneries are confident that this selected disposal method will meet all applicable water quality standards at the edge of a government approved mixing zone.

Respectfully submitted,

STARKIST SAMOA, INC.

MAURICE W. CALLAGHAN
General Manager

MWC:tl

cc: B. Adams
N. Wei
R. A. Ward

TO: US EPA Region 9
High Court of American Samoa
American Samoa EQC
Office of the Attorney General
The Governor's Office

DRAFT

Gentlemen:

Re: Selection of Disposal Method

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Respectfully Submitted,

StarKist Samoa, Inc.

D:\samoa\letter.cd

CH2M HILL

M E M O R A N D U M

TO: United States Environmental Protection Agency
American Samoa Environmental Protection Agency

COPIES: Norman Wei/StarKist Seafood Company
James Cox/Van Camp Seafood Company

FROM: Steve Costa/CH2M HILL

DATE: 30 April 1991

SUBJECT: Meeting with EPA to Discuss Feasibility Study Results

PROJECT: PDX30702.PA

The purpose of this memorandum is to summarize the discussions during the meeting of Tuesday 23 April 1991 between EPA and StarKist. The meeting was held to address EPA and ASG comments/questions on the "Engineering and Environmental Feasibility Evaluation of Waste Disposal Alternatives" study and report prepared for StarKist Samoa, Inc. by CH2M HILL (March 1991). Participants at the meeting included:

▪ Sheila Wiegman	American Samoa Environmental Protection Agency (by telephone)
▪ Norman Lovelace	Environmental Protection Agency
▪ Pat Young	Environmental Protection Agency
▪ Andy Lincoff	Environmental Protection Agency
▪ Mike Lee	Environmental Protection Agency
▪ Norman Wei	StarKist Seafood Company
▪ Steve Costa	CH2M HILL/Emeryville

To open the meeting Norman Wei stated that both StarKist and Van Camp support and accept the findings and recommendations of the CH2M HILL study.

There were four primary areas of questions/concerns discussed at the meeting. A list of the areas of concern was developed at the end of the meeting as follows:

- Consideration of other water quality standards in addition to TN and TP. In particular the consideration of Chlorophyll-a which was addresses in the report prepared by Sea Engineering.

- Consideration of future plant expansion in modeling results. This essentially involves the inherent safety factor or conservatism in the modeling approaches. In particular the effect of higher effluent flows on the model results as well as

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potentially higher loadings is of concern to the agencies.

- Zone of mixing dimensions (size) and location (impact on fringing reef) are not consistent between the CH2M HILL and Sea Engineering reports. In particular the harbor entrance option developed by Sea Engineering represents a difference between the two reports.

- Risks involved in marine vs land routes are of concern. Apparent differences in cost of land route (Sea Engineering report reflects significantly less expensive land route) is not clear.

CONSIDERATION OF OTHER WATER QUALITY STANDARDS

The CH2M HILL report directly considered only the nutrient loadings in the modeling process and alternative location feasibility analysis. This was done on the basis of physical assumptions about internal consistency of the water quality standards as well as an evaluation of the other parameters involved. The water quality standards applying specifically to Pago Pago Harbor include:

• Total Nitrogen	200	µg/l
• Total Phosphorus	30	µg/l
• Chlorophyll-a	1	µg/l
• Light Penetration (1%)	65	feet
• Turbidity	0.75	NTU
• Dissolved Oxygen		
Saturation	70%	
Quantitative	5.0	mg/l
Natural Level < 5	Natural level	
• pH		
Range	6.5 to 8.6	
Natural Level	±0.2 units	

General water quality standards for American Samoa waters also include the following:

FROM CH2M HILL S.F. 04/30/91 15:30 P. 3

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- Substantially free from materials producing objectionable color, odor, or taste attributable to effluent discharge
- Substantially free from visible floating materials, grease, oil, scum, foam, or other floating material attributable to effluent discharge
- Substantially free from materials that will produce visible turbidity or settlement of objectionable deposits attributable to effluent discharge
- Fecal coliform not exceed limits provided in the water quality standards
- Temperature shall not deviate more than 1.5 °F from natural conditions, shall not fluctuate more than 1 °F/hr, and shall not exceed 85 °F due to influences other than natural
- Radioactivity as specified in the Water Quality Standards
- Toxic substances as specified in the Water Quality Standards
- Changes in geometry or flow that alters current patterns in a way to adversely affect existing biotic or sediment conditions
- Land derived erosion standards and control as described in the Water Quality Standards

None of the general water quality standards is likely to present a problem or require further discussion, except the temperature standard, because of the following factors: the wastefield plume is trapped below the surface, the effluent contains no toxic materials, the cannery waste is subjected to high strength waste segregation and DAF treatment, the effluent discharge represents an insignificant amount of water relative to the tidal prism, and the effluent plume is immediately diluted by a least 100 to 1 with receiving water. StarKist's effluent will meet the temperature standard at the confluence of a joint cannery outfall. The total effluent stream will be subject to some cooling during transit and have sufficient dilution (further cooling) to meet the standard at the edge of the mixing zone designed to meet the nutrient standards.

epamem./30Apr91(13:53)

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The modeling analysis was carried out on the basis that the specification of standards for nutrients (TN and TP) was consistent with desired standards for Chl-a. It is recognized that this may not be the case and the consideration of the Chl-a standard is discussed in more detail below. Except for times of high streamflow and nonpoint source runoff, the light penetration and turbidity is generally associated with Chl-a (biological productivity). Thus, these standards are also ultimately linked to the nutrient standards.

Review of historical data which reflects inner harbor discharge and pre-high strength waste segregation conditions indicates that dissolved oxygen has not presented a problem nor will it in the future. Moving the outfall and high strength waste segregation will not degrade dissolved oxygen in the harbor but should result in improved conditions in the inner harbor.

Chlorophyll-a, and thus turbidity, are difficult to model or predict. Sea Engineering provided an estimate of the impact of nutrient wastes on Chl-a concentrations for discharges at two distinct points in the harbor. CH2M HILL reviewed this evaluation and strongly disagree with the approach and results of the analysis done by Sea Engineering. Particular points of disagreement include, but are not limited to:

- Sea Engineering calculates the chlorophyll-a concentration using the relation:

$$C/Co = \exp(kt)$$

where:

C = concentration of chlorophyll-a at time t
Co = concentration of chlorophyll-a at time zero
k = net growth rate
t = residence time

CH2M HILL reviewers feel it is inappropriate to consider this as a batch process. This equation does not account for any flushing of plankton from the region being considered. The assumption is that you start with a closed system, the plankton grows for a period t with no removal by flushing (or other processes) but continuous input of nutrients. CH2M HILL staff think this is an inappropriate way to calculate chlorophyll-a concentrations in this case. Furthermore, this calculation was devised to evaluate "blooms" and

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does not directly address the average or median values as described in the water quality standards.

- The equation above for Chl-a concentration uses a residence time, t, developed in the Sea Engineering report. The report uses estimates of residence times based on those reported by M&E Pacific's Baseline Water Quality Study. These times are based on simple exchange calculations (which are actually only applicable to linear, plug flow, unidirectional processes) with no mixing or dispersion considerations. They are used as rough estimates of average residence times. They are applicable to order of magnitude estimates for large portions of the harbor. For more detailed investigations on smaller scales a more sophisticated techniques of calculating residence time is appropriate. CH2M HILL staff do not feel that the degree of sensitivity in calculations used in the Sea Engineering report is consistent with the simplified residence time calculations.

- The NPDES permit will regulate TN and TP. The link between these and chlorophyll-a is not direct, there are many other factors and processes at work in determining the chlorophyll-a concentrations. The available evidence indicates that the present Chl-a standard would may not be met even if the nutrient concentrations in the harbor were reduced to less than that found in the open coastal waters.

- The link between particular concentrations of chlorophyll-a and fish kills has not been documented in any quantitative way in the Sea Engineering report. Nor is any link between standards (median value) and potential for fish kills. The sensitivity of the calculations to initial assumptions on chlorophyll-a concentrations is not described.

- It is not generally possible to directly link nutrient concentrations to chlorophyll-a values, and thus fish kills. Therefore, any future change in permitted discharge levels based on a link between chlorophyll-a and nutrients would be somewhat arbitrary and not defensible. If one cannot establish a direct and quantitative cause

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and effect relationship then one should not recommend this factor be considered in outfall site selection.

- The HRI Waste Load Allocation Study indicates that plankton growth is phosphorus limited in the inner harbor. It is understood that the relationship between phosphorous and phytoplankton population dynamics is much more complex than that for nitrogen. Based on the HRI study it appears that Sea Engineering's approach is incorrect and the role of phosphorous should have been clearly addressed.

- Review of the historical data summarized in the Use Attainability and Site-Specific Criteria Analyses done by CH2M HILL, review of the model results, and consideration that the plume will be trapped below surface indicates that the Chl-a standard is likely to be met at the edge of the mixing zone. This is because there is an observable and documented difference in the relationship between nutrients and Chl-a at the surface and at depth. In addition, the suggested diffuser site is located in a region where net outward (oceanward) currents are expected. This is an important consideration in evaluating the water quality impacts of various outfall locations.

- The Sea Engineering report addresses a 98 percentile standard, a median standard, and a geometric mean standard for Chl-a. However, only the median standard is specified in the American Samoa Water Quality Standards. The Sea Engineering report has incorrectly applied the Pago Pago Harbor water quality standards to their predicted Site B (harbor entrance) mixing zone. Open Coastal Waters standards apply to a portion of that mixing zone as described on Figure III-6 of the Sea Engineering report. This point is discussed in more detail below.

CONSIDERATION OF FUTURE PLANT EXPANSIONS

The analysis done during the feasibility study that pertains to loading versus outfall location was based on the maximum expected loading, including anticipated future levels, of TN and TP. This value was then applied to a model that was designed and calibrated to predict long term average conditions. This is a

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conservative approach in that it predicts concentrations much higher than one would expect to observe. The model was run as if this maximum value for loadings was the average value over a long time period. The harbor responds very slowly to changes in loadings with 90 percent flushing in the inner harbor taking approximately 35 days based on model predictions calibrated with available field data. CH2M HILL believes this is quite conservative and the potential for future expansion is effectively considered twice: first in terms of the input loadings, and second in terms of the inherent large safety factor involved. CH2M HILL staff are confident that, after construction of an outfall with a pipeline of about 7000 feet, water quality monitoring results will show a sufficient capacity for any anticipated future growth in production at the canneries.

DETERMINATION OF THE ZONE OF MIXING

There were three areas under this general topic that were discussed at the meeting: the impact on the fringing reef, the differences between CH2M HILL's approach and Sea Engineering's approach, and the actual dimensions of the mixing zone proposed by CH2M Hill. In addition the potential problems of extending the outfall too far toward the end of the harbor were discussed. Each of these topics is summarized below.

Impact on the Fringing Reefs

Since the plume will generally be trapped below the 60 foot level the fringing reef will not be affected by the plume. Only when there is virtually no density gradient will the plume reach the surface. Under these conditions the initial dilution of the plume will be significantly higher than a trapped plume. This will minimize impacts on the reef. The increased initial dilution may be sufficient to reduce concentrations to those predicted for the edge of the mixing zone under trapped conditions after only initial dilution. This reduces the size of the effective mixing zone significantly and does not affect the fringing reef area.

The mixing zone has been designed to avoid involvement with the fringing reef. Although the mixing zone appears to be close to the reef it is only the planform (horizontal projection) area under worst case conditions that is described. Under most conditions the higher concentrations portions of the plume are submerged and trapped beneath the surface. Under surfacing conditions the increased initial dilutions reduce the plume concentrations.

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Differences in Approaches

The residence times presented by M&E Pacific and used by Sea Engineering are apparently meant to represent the "average" residence time. It should be noted that M&E Pacific developed these as residence times for water in the harbor, this is not necessarily the same as residence time of constituents within the water column.

Based on observed concentration data averaged over a long time period the harbor transport characteristics can be modeled as done by CH2M HILL. One result of such modeling is the development of flushing times. Figure 1 shows the 50 and 90 percent flushing times as a function of distance along the harbor (zero distance is a datum used in CH2M HILL's model and not the same as the zero point used by Sea Engineering). The 50 percent flushing time is the time required for half the water at a particular point to be replaced by "new" ocean water.

If the definition of residence time used by Sea Engineering implies the time required for complete exchange of water then the values used are far too small. If the definition implies the length of time required to replace half the water then the values used are too large. These relationships are shown on the attached Figure 1.

Sea Engineering calculates the average concentration of a region of the harbor using the relationship:

$$C = (L \times T)/V$$

where:

C = long term average concentration
L = load of constituent per day discharged
T = residence time of harbor or harbor segment
V = volume of harbor or harbor segment

This calculation implies that the residence time used represents the time to exchange all of the water in the harbor segment (this is consistent with the M&E Pacific treatment and numbers which are used by Sea Engineering for application of this equation). It is further implied that the process is a batch process, or a continuous and non-diffusive plug flow process, and not a continuous transport process in an enclosed embayment. If this was the intention the residence time used was too small. However, this appears to be balanced by not accounting for the fact that flushing is, in this case, a continuous process and not

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a batch process. The equation does not account for this. The end result of two apparent misapplications is an answer that is close to observed values for the existing discharge point. The effects of this on predictions for other conditions is not known.

The above equation can, and usually is, used to calculate a "residence time" of a constituent in the water column based on measured concentrations and known loadings. This implies a steady state or long term average condition. Changing the discharge point will change the value of the concentration (C). The prediction of this change is the point of the feasibility study. This will also change the calculated residence time of the constituent. Applying the residence time calculated with this equation for one discharge location (e.g. existing) to another location to calculate concentration is inconsistent with the equation and physically incorrect. Moving the outfall will change the flushing and levels of concentration and thus the "residence time" of the constituent. Thus, the equation should be used to calculate changes in residence times of constituents (not water) for various changes concentrations due to the same loadings at different locations in the harbor. CH2M HILL's position is that Sea Engineering misapplied the equation and used the incorrect residence time concepts. CH2M HILL staff do not think this equation can be applied as was done in the Sea Engineering report.

Sea Engineering analyzed two specific points based on measured current meter data. The assumption required here is that the currents measured at a point are representative of the entire area of the harbor for which the calculations are being done. This means, for the inner location considered by Sea Engineering, the current is assumed constant in speed and direction over a distance of 4200 feet (2100 feet in each direction) at the depth the plume is initially trapped. This is unduly conservative at best and physically unrealistic for this system. Since compliance and permit requirements will probably be based on median values of a number of measurements, the approach taken by CH2M HILL is considered more realistic and results in a smaller mixing zone.

CH2M HILL's approach was to determining a mixing zone was to look at present results as a function of distance along the harbor in terms of meeting overall, harborwide, TN and TP criteria. This was done with the wastefield transport model. The CH2M HILL study presented maximum load as a function of location. The maximum load at a particular location was defined as the load that would result in meeting the TN and TP criteria everywhere outside the source resolution of the model (less than 1000 feet and greater than 300 feet). Additional analysis was then done to estimate the

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geometry of the mixing zone in more detail at a point that appeared representative of the expected loading (middle harbor). A "generic" middle harbor mixing zone based on the presumption that, in general, the current pattern was random was developed.

Mixing Zone Size

The size of a mixing zone depends on the specific site at which the discharge is located. CH2M HILL considered a continuous range of locations but,for obvious reasons, did not evaluate mixing zone size at every possible location. However, CH2M HILL did provide an estimate of mixing zone size for a generic middle harbor discharge. The following points summarize the procedure and results of the estimate:

- The mixing zone boundaries discussed are the planform boundaries. The volume of water involved in the mixing will not extend from surface to bottom but generally remain submerged (based on model predictions). Furthermore, the mixing zone represents that area within which water quality standards may not be met at any given time; however, at any given time water quality standards are not necessarily exceeded everywhere in the mixing zone.

- The wastefield transport model cannot accurately predict the concentration of TN and TP immediately adjacent to the discharge point because of the nature of the model. However, using existing conditions (loading, outfall location, TN and TP data) the wastefield transport model (PT121) appears to have the ability to predict the depth averaged concentrations within a range of 300 to 1000 feet from the discharge point.

- Because of the method of analysis of the wastefield transport model results the long term average mixing zone in the middle harbor will be about 450 feet in radius (900 feet in diameter) in planform dimension. The zone will be vertically centered approximately 70 feet below the surface and have a thickness that does not extend from surface to bottom (Figure 2).

- The "worst case" mixing zone is represented by the condition of a continuous discharge at maximum expected loadings for a long period of time. This condition is unlikely but is used as a conservative worst case example. For such a case a subsequent dilution model (CDIFF) was used to provide an upper

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bound on mixing zone size as described in the report. The size (planform) of this mixing zone was calculated to be about 1300 feet in radius. However the zone will not be a circle but a fan shaped area which would not move shoreward of the (approximately) 60-foot contour as shown in Figure 2.

The mixing zone calculations were done for a particular effluent discharge rate and density. The final joint cannery effluent rate and density may be different. However, Froude similarity can be applied to design a diffuser that provides the same initial dilution. The base line length of the plume may be some what different, which will have a minor effect on calculated mixing zone size. However, the loadings used represented joint cannery estimates. This is the primary variable to determine mixing zone size given a particular diffuser performance level. Therefore, we do not expect our estimates of mixing zone size to change significantly during final design.

Harbor Entrance Locations

Neither CH2M HILL nor Sea Engineering extended their modeling effort to include the open coastal nearshore area. Both reports assume a "well flushed" area just seaward of the entrance. CH2M HILL used and ocean background level of 120 µg/l TN and 12.5 µg/l TP. Sea Engineering used somewhat less conservative numbers (100 and 9 µg/l , respectively).

The water quality standards for nearshore Open Coastal Waters are much more restrictive than for Pago Pago Harbor. The TN and TP standards are 150 and 15 µg/l, respectively. These standards appear to apply seaward of a line from Blunt's Point or Niuloa Point (this needs clarification) to Breaker's Point. Any discharge near the entrance needs to consider these standards in the definition of a mixing zone. The Sea Engineering proposed Site B would, even if meeting harbor standards, violate the open coastal standards (Figure 3). The abrupt transition in standards (concentrations of TN and TP) at the harbor entrance means that the discharge point must be far enough into the harbor so that concentrations at the harbor entrance are low enough to meet the open coastal water quality standards..

RELATIVE RISKS/ADVANTAGES OF MARINE VERSUS LAND ROUTES

The risks involved in the marine route are recognized in the report. There are also risks involved with the land route. The major reasons for selecting a marine route are:

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- Permitting - the land route will entail crossing the shoreline and fringing coral. This would involve blasting a trench and backfilling it. This would initiate a more complex permitting effort. Regardless of cost, the time involved would be a serious consideration since the project is on a very sensitive schedule with an important deadline. Not meeting the deadline could involve fines and/or plant shutdown.

- Scheduling - as indicated in the point immediately above, time is important. The chances of maintaining a tight construction schedule are better with a marine pipeline since there is less chance for disruptions once construction starts.

- Cost - a marine pipeline, for a joint outfall, appears to be less costly than a land route pipeline. Note that the land route estimate in the Sea Engineering report was for a short 10-inch PVC pipeline. It is unlikely that a 10-inch pipeline could be placed under the road at all culvert crossings. CH2M HILL does not recommend PVC for this application. Prices are based on Honolulu, Hawaii construction estimates. As described in the Sea Engineering report, this is a segment of the pipeline route and does not reflect the entire pipeline/outfall/diffuser cost. A joint pipeline would be larger than the 10-inch size discussed by Sea Engineering.

Precautions and design considerations to minimize risks of a marine route are discussed in the CH2M HILL report. The acquisition of side scan sonar data for pipeline location considerations is one of the recommendations that has been taken. The canneries are fully aware of the risks. The potential for damage from anchor damage from anchor drag can be minimized by p coordination with Coast Guard and NOS offices to implement notices and chart markings, and by pipeline design. CH2M HILL recommends the ability to repair a pipeline be considered in the design of the pipeline. The relative risks for the marine versus land routes do not seem to outweigh the relative advantages, particularly in this case where time constraints are tight.

In some instances, a pipeline break in a submarine outfall would be far less environmentally damaging than one in a land route pipeline. In the latter case a failure could threaten fringing reefs, disrupt traffic, and produce other objectionable effects.

SUBJECT DATE

SHEET OF

PROJECT NO.

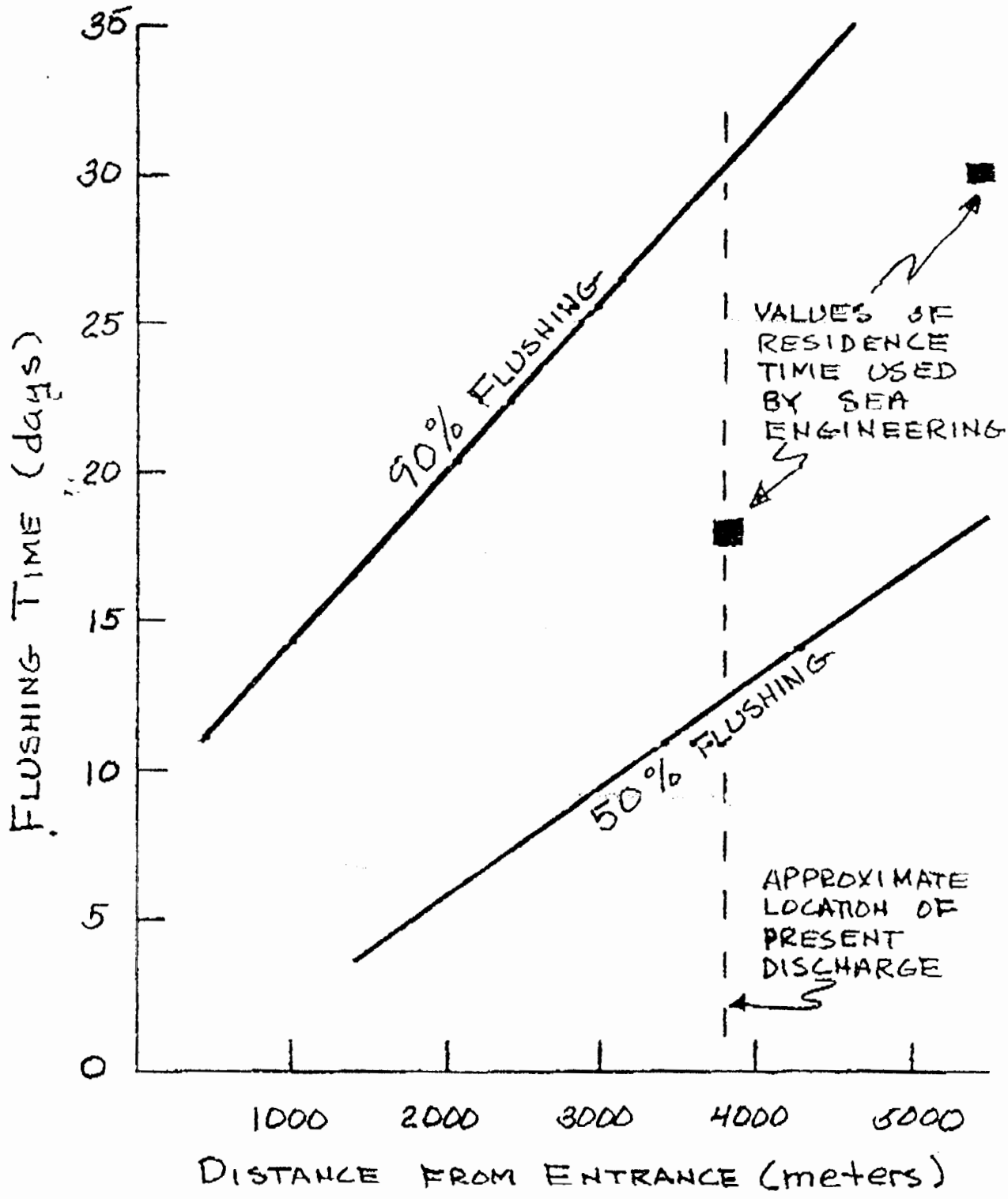


FIGURE 1. FLUSHING TIMES FOR PAGO PAGO HARBOR

SUBJECT DATE

SHEET OF

PROJECT NO

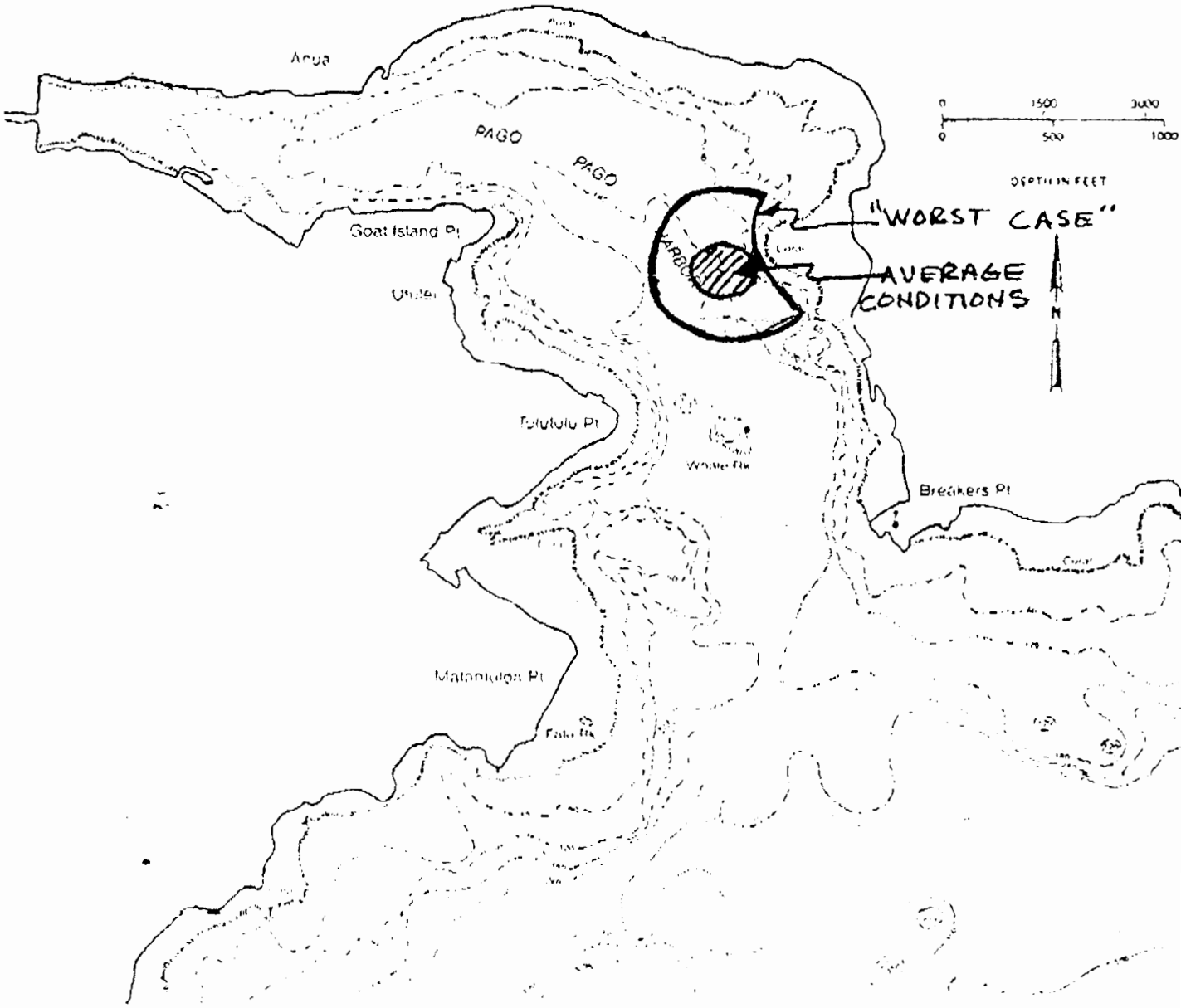
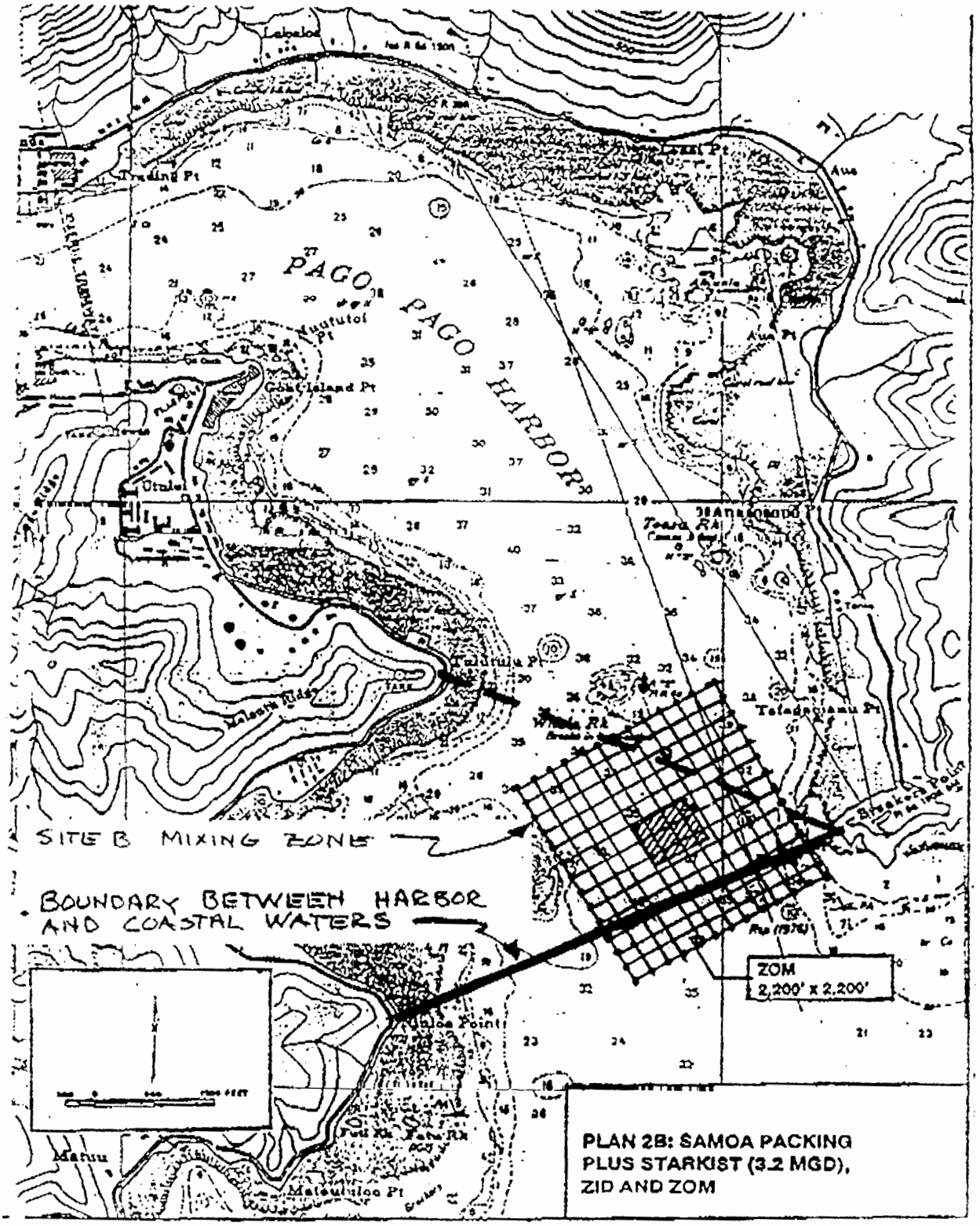


FIGURE 2. SCHEMATIC MIXING ZONE SIZES

CH2MHILL SUBJECT 8 DATE SHEET OF PROJECT NO.



FIGUE 3. SITE B PROPOSED MIXING ZONE AND BOUNDARY BETWEEN PAGO PAGO HARBOR AND OPEH COASTAL WATERS (after SEA ENGINEERING, 1991)

Copy to Mike Norm

Star-Kist Samoa, Inc.

P.O. BOX 368 PAGO PAGO, AMERICAN SAMOA 96799

(684) 644-4231
FAX NO: (684) 644-2440
TELEX: 782-509
ANSWERBACK: STARKIST SB

FACSIMILE TRANSMISSION

Date: March 8, 1991

FROM: Maurice W. Callaghan
Panafax Number: (684) 644-2440

Transmission #: _____ # Pages: 1 + 4 Classification: Urgent Please!!

To: Mr. Norman Lovelace

Location: OPINAP, U.S. ENVIRONMENTAL PROTECTION AGENCY, 75 HAWTHORNE ST. SAN FRANCISCO, CA.

Fax Number: (415) 744-1605

FAX MESSAGE

If you have not received all pages of this transmittal please call us at (684) 644-1835. Thank you.

StarKist SAMOA, Inc.

P.O. BOX 368 • PAGO PAGO • AMERICAN SAMOA 96799

March 7, 1991

Mr. Norman Lovelace
OPINAP
U.S. Environmental Protection Agency
75 Hawthorne Street
San Francisco, CA.

Dear Mr. Lovelace:

StarKist Samoa hereby requests that the U.S. Environmental Protection Agency extend the interim temperature limitation of 90°F in StarKist Samoa's NPDES permit to March 6, 1992.

The reason for this request is provided below:

At the present time, StarKist Samoa is meeting the interim temperature limit of 90°F. On March 8th 1991, American Samoa's water quality standard for temperature will go into effect under the plant's NPDES Permit. The maximum temperature limitation will be 85°F. StarKist Samoa, Inc. will not be able to meet this limitation at all times by this date.

In order to meet this new temperature limit, StarKist Samoa began the implementation of a temperature control management system about 6 months ago at a cost of $240,000. The system is briefly described below:

1. The scrubber water in the reduction plant will be recycled. This will eliminate about 200,000 gallons of scrubber water at over 95°F.

2. The boiler blowdown water and the can wash water will be routed to a new sump and processed through a new cooling tower which will cool the water temperature from 150°F to 95°F. The cooled water will then be discharged to the retention tank.

3. Cold thaw water will be retained in a holding tank fitted with the necessary pump and valve control system to enable it to feed cold thaw water into the treatment plant when temperature of the treatment plant exceeds a certain level.

This system is now 80 percent complete and commissioning is scheduled for early May 1991. Although this system is designed to achieve American Samoa's water quality standard for temperature,

A start-up period and extensive testing of full-scale operation are required. For this reason, StarKist Samoa requests that a variance be granted by the Environmental Quality Commission until March 6, 1992.

StarKist Samoa fully expects to meet the temperature standard by March 7, 1992.

StarKist Samoa, Inc. has submitted its application to American Samoa Government for variance from temperature requirements of the Section 24.02606 (a) (6), Water Quality Standards.

Sincerely,

STARKIST SAMOA, INC.

MAURICE W. CALLAGHAN
General Manager

/tl

cc: P. Faiai - EQC
R. A. Ward
N. Wei

StarKist Seafood Company

An Affiliate of H.J. Heinz Company

Heinz

Mike
FYI.

1 March 1990

Mr. Norman Lovelace
U.S. EPA Region 9
San Francisco, California

Dear Mr. Lovelace:

I am writing this letter in response to your proposal yesterday concerning new interim effluent limitations for StarKist Samoa under EPA's Administrative Order, pending successful negotiation of our Consent Decree with the American Samoan Government.

The following is a summary of my understanding of your proposal which you conveyed to me over the telephone yesterday:

1. Average monthly interim limitations for Total Nitrogen and Total Phosphorus are 1785 lbs/day and 170 lbs/day with a daily maximum of 2745 lbs/day and 320 lbs/day respectively. These limitations are to go into effect July 1, 1990 (The date on which high strength waste segregation begins) and last through to March 6, 1992. All other parameters will remain unchanged.

2. The above limitations may be adjusted <u>at EPA's discretion</u> based on a 3-month intensive sampling program that will begin July 1990. The sampling will include weekly monitoring of the precooker juice, press liquor and DAF influent and effluent for oil & grease, total phosphorus, total nitrogen, 5-day Biochemical Oxygen Demand, and flows.

3. In addition to the above limitations, StarKist will also be required to maintain a DAF removal efficiency of not less than 50 percent for nitrogen and phosphorus.

My comments on your proposal are as follows:

It is my understanding, based on earlier conversations with your assistant Pat Young, that for the period **preceding** completion of high strength waste segregation, StarKist Samoa will be required to meet the same effluent limitations that were in effect during the period beginning March 8, 1987 and lasting through March 7, 1988. In other words, there will be no effluent limitations on either phosphorus or nitrogen. The requirements of nitrogen and phosphorus will be monitoring and reporting only. As I stated to you in my letter of February 1, 1990, such requirements were

StarKist Seafood Company

originally developed by EPA for the period of time prior to waste segregation and are therefore fully consistent with our present waste characteristics. Pat Young informed me that this approach is acceptable to EPA. Please confirm your concurrence.

With respect to item 1 above, I have no problems with the numbers as long as there is provision for adjustment after high strength waste segregation. This leads me to item 2 above. I support the 3-month sampling program. I think it will inject some sense reality into the situation. However, I am very concerned with the "at EPA's discretion" clause. It is imperative that the interim numbers be re-evaluated and adjusted accordingly based on scientific evidence and facts. If the numbers are too low, they should be increased. If they are too high, they should be lowered.

With respect to item 3 above, I have major difficulties with the additional removal efficiency requirement for the following reasons. Your proposed limit of 50 percent appears to be too high. According to CH2M Hill's Joint Cannery Study, the removal efficiencies of the two canneries' DAF units are at 35 percent (please refer to the third paragraph on page 2-6 of the report). Given the well established fact that an inverse relationship generally exists between removal efficiency and influent concentrations, one would expect the DAF removal efficiency to stay close to 35 percent or lower after high strength waste segregation.

My suggestion is that we use CH2M Hill's 35 percent removal efficiency as a bench mark subject to revision after the 3-month monitoring study post-segregation. My earlier concern with the "at EPA's discretion" clause applies here too.

As we both know, agreement between StarKist and EPA on these new interim limitations is critical in our current negotiation with the American Samoa Government. We certainly appreciate the opportunity you have given us to present our approach in determining the interim limitations. Let's keep the dialogue going.

Yours very truly,

Norman S. Wei
Manager, Environmental Engineering

cc: J. Ciko, Jr.
M. Callaghan
R. Ward

D:\samoa\interim.epa

The historical phosphorus values are much lower at Van Camp than at Star-Kist. Again, laboratory testing may be the reason for this disparity. Comparison with the data collected for this study indicates that Star-Kist may be high and Van Camp low in their respective analyses for phosphorus. A further indication of this is the ratios between phosphorus and nitrogen in proteinaceous material. While one might expect a 6:1 N:P ratio, the ratio at Star-Kist was 4.4:1 and the ratio at Van Camp was 20:1. Fortuitously, in the composite waste stream the errors cancel each other out, and the N:P ratio for the combined canneries is close to expectations.

The removal efficiency of various constituents through the DAF in both canneries was calculated using data from several sources. The 1978 compliance monitoring reports written by EPA for both canneries provide the earliest data regarding removal efficiency for TSS, oil and grease, and BOD_5. Additional data have been collected by the canneries since the original reports were written.

Table 2-4 lists historical removal efficiency information for Star-Kist and Van Camp, respectively. Comparison of the data shows that approximately 90 percent removal of TSS and oil and grease, 50 percent removal of BOD_5, and 35 percent removal of TKN and total P is achieved across the DAF units. Reported removals for the two canneries agree reasonably well.

In an attempt to evaluate future cannery waste loads, a segregated stream sampling and flow monitoring program was implemented at both canneries during the site visit. This was necessary because only limited in-plant data were available prior to the start of the project. Sampling was conducted for the sources shown in Table 2-5. Excluding the DAF effluent samples, a total of 51 in-plant samples were taken--18 at Star-Kist and 33 at Van Camp.

Simultaneously with the in-plant flow monitoring program, a sampling program was conducted. Samples were generally taken at the same locations for which flows were taken, as designated in Table 2-6. Sampling results for Star-Kist and Van Camp are shown in Tables 2-6 and 2-7, respectively.

Table 2-8 offers a comparison of the effect of segregating press and precooker water (hereafter called high-strength wastes) at the Star-Kist and Van Camp canneries. To aid in the comparison, the Star-Kist cannery is assumed to have installed recycle thawing.

7 FEB 1991

AMERICAN SAMOA GOVERNMENT
PAGO PAGO, AMERICAN SAMOA 96799
OFFICE OF THE GOVERNOR
ENVIRONMENTAL PROTECTION AGENCY

In reply refer to:
Serial: 102

January 23, 1991

Maurice Callaghan
General Manager
Star Kist Samoa
P. O. Box 368
Pago Pago, American Samoa 96799

I would like to inform you on necessary reporting requirements for the Aemrican Samoa Government - Star Kist Consent Agreement concerning water quality improvements for Pago Pago Harbor. In order for ASG to determine compliance with the interim limits contained in the consent decree, you must continue to submit a monthly report with the results of analysis completed and a statement concerning any deviations from the interim limits contained in the consent decree. While the U.S. Environmental Protection Agency (USEPA) only requires quarterly reporting at this point, the consent agreement compliance is based on monthly results. Also, the High Court requires us to provide a report on compliance with the consent agreement every three months. The due dates for reports to the High Court do not correspond to the quarterly DMR due dates thus preventing us from having the necessary information. USEPA has informed me that submitting monthly reports on a monthly basis or along with your quarterly DMR will be adequate for their needs.

Please submit the monthly report for December as soon as possible. Please feel free to contact me or Sheila Wiegman of my staff if you have any questions on the above.

Sincerely,

Pati Faiai, Director
American Samoa Environmental
Protection Agency

cc: Pat Young, USEPA
Virginia Gibbons, Attorney General's Office
Enforcement Branch, ASEPA
Environmental Coordiantor, ASEPA

AMERICAN SAMOA ENVIRONMENTAL PROTECTION AGENCY

StarKist Samoa,

P.O. BOX 368 PAGO PAGO, AMERICAN SAMOA 96799

(684) 644-4231
FAX NO: (684) 644-2440

2 November 1990

Mr. Norman Lovelace (E-4)
U.S. Environmental Protection Agency
Office of Pacific Island and Native
American Programs
75 Hawthorne Street
San Francisco, CA 94105

Mr. Pati Faiai
American Samoa Environmental Quality Commission
American Samoa Government
Pago Pago, American Samoa

Gentlemen:

Enclosed is a copy of StarKist Samoa's Status Report on the engineering feasibility study as required under the Consent Decree.

We have made significant progress in the study. In fact, we have a team of five consultants on the island at this moment evaluating the feasibility of a marine pipeline and collecting sediment and water quality samples. We fully expect to complete the study and submit the final report to the parties on or before the stipulated date of March 31, 1991.

Based on our consultants' assessment of the different outfall locations, it is apparent that given the extremely stringent water quality standards, StarKist is now faced with the options of either constructing a multi-million dollar pipeline or terminating operations in American Samoa altogether.

We expect that there will be sufficient information in the final report for senior management to make a decision on or before May 31, 1991.

Sincerely,

STARKIST SAMOA, INC.

Maurice W. Callaghan
General Manager
Enclosure
cc: R. A. Ward/N. S. Wei

Engineering Feasibility Study

Status Report as of October 31, 1990

Submitted to :

The Environmental Quality Commission

and

The United States Environmental Protection Agency

by:

StarKist Samoa Inc.

Engineering Feasibility Study

Status Report as of October 15, 1990

The purpose of this status report is to provide a summary of progress and results of the Engineering Feasibility Study (herein after referred to as the Study) required under the Consent Decree between StarKist Samoa, Inc. and the American Samoa Government.

The objective of the Study is to evaluate the feasibility and relative merits of various outfall locations for the discharge of cannery wastewater into Pago Pago Harbor. This progress report covers the time period from the commencement of the work through October 15th, 1990.

The environmental consulting firm of CH_2M Hill has been retained by StarKist Samoa to conduct the Study.

The Study is organized into five major functional tasks and associated subtasks. Progress made under each of these tasks and subtasks is summarized below:

TASK 1. WATER QUALITY MODELING

1.1 Model Evaluation and Review

The model developed by Hydro Resources International for the Waste Load Allocation Study was reviewed and evaluated by CH_2M Hill. The specification of the boundary conditions for the nutrient transport portion of the model were found to be physically unrealistic and may lead to unreliable results under some conditions. The interpolation routine for non-point source loading also appears to be specified in a manner that could lead to unreliable predictions under certain conditions.

The analysis of the model results indicates that there is an inconsistency between results for the present and future cases that must be accounted for before the results are applied as guidance for setting WLAs or a TMDL for Pago Pago Harbor.

The following conclusions about the WLA model study results, approach, and execution were reached by StarKist's consultants:

[1] Two problems with the model code were discovered. The boundary condition for diffusive transport across the solid boundary of the landward end of the model was incorrectly formulated in the model code. The nonpoint source loading terms were incorrectly transformed from the input to calculation model configurations. The latter problem was

probably not significant to the results. The potential for the boundary condition specification effecting model results is significant.

[2] The model results have inconsistencies that can be explained based on the manner in which the boundary conditions were specified. The possible impact of these problems on the predictions made about the TMDL and WLAs is not known. The input files used during the modeling were not available, therefore the model could not be run with corrected boundary conditions and nonpoint source inputs.

[3] The spatial and temporal scales of the model are appropriate for a screening-level model, but the scale of the model is not sufficient to investigate short-term or small spatial responses of water column concentrations to effluent load variations. For example, mixing zone sizing and effects of peak loadings on a daily time scale cannot be addressed by the model.

[4] The calibration of the model using constant diffusivity and decay rates does not appear supportable from a physical perspective or from an examination of the available data. A different calibration approach would change the model predictions. The affect the calibration approach has not been examined.

Dr. Steve Costa (CH2M HILL) and Charles Chamberlin (HRI) met to [1] discuss the boundary condition problems found with the original HRI model and, [2] discuss the enhancements and changes made to the model and modeling approach by the CH2M HILL project staff. Dr. Chamberlin agreed that there was a flaw in the original model and also agreed that CH2M HILL's approach to the problem was reasonable.

An enhanced version of the original HRI model was developed by CH_2M Hill. The following types of runs have been made with the model (PT121):

- Diagnostic validation runs under a wide variety of input conditions have bee made to validate the model operation. The diagnostic test cases included runs with all transport processes inoperable to check the volume/continuity aspects of the model, with only advective fluxes operating to check the hydraulic and advective transport terms, with only diffusion operating to check diffusivity terms, with only decay rates operating, with a variety of input conditions including slug inputs and continuous inputs, and under other specific conditions to test various computational algorithms in the model.

- Calibration runs have been completed. The final calibration scheme selected is to use no decay rate, and different eddy diffusion coefficients in the inner and outer harbor areas. Calibration was done by using the same 1985 base case used by HRI and minimizing the differences between predicted and observed values considering both TN and TP. The result is a constant eddy diffusion coefficient for the inner harbor applied to both nutrients, and a constant eddy diffusion coefficient for the outer harbor applied to both nutrient concentrations. The diffusion coefficient in the outer harbor is about 4.3 times that in the inner harbor.

- Verification runs have been made using the 1986 and 1987 TP concentration data used by HRI for the same purpose. The agreement is satisfactory. The correct value to use for background TP values in the nearshore ocean is questionable. The uncertainties are being investigated. However, this is probably not a critical point.

- A series of runs for different loadings and for discharge locations in different parts of the harbor have been completed for TN and TP are currently being reviewed. A set of runs for simultaneous loadings in two parts of the harbor have been completed. All of the above results are being reviewed.

The enhanced water quality model for Pago Pago Harbor (PT121) has been run for different loadings and for discharge locations in different parts of the harbor have been completed for TN and TP. A set of runs for simultaneous loadings in two parts of the harbor have also been finished for TN and TP.

The preliminary results for TN and TP concentration contours show that the existing water quality standards for TP and TN cannot be met in the inner harbor unless the loadings are drastically reduced. Using the results of these model runs the maximum permissible loadings of TN and TP in the inner and middle harbor that meet the stringent ASG water quality standard were found.

A few additional runs for the outer harbor will be made in order to provide the maximum loadings for the outer harbor location. Using the data for each location, plots of maximum allowable loading to meet standards as a function of outfall location will be generated. This will be done for the hypothetical cases where the standards might be relaxed or made more stringent.

1.2 Field Sampling Program

Field operations in Pago Pago Harbor are scheduled for late October and early November of 1990. During this time a limited number of water quality samples will be collected. A field

sampling protocol has been prepared and will be made part of the final report.

TASK 2. SEDIMENT ANALYSIS

2.1 Nutrient Cycling Analysis

The original intent of the Study was to estimate the potential role of nutrient cycling in the inner harbor water and sediments. Since it is now apparent that an inner harbor outfall was probably not feasible under existing stringent water quality standards even with high strength waste segregation, this task was eliminated.

The present approach is to collect a minimum number of samples to look at the potential role of sediment nutrient recycling. The data collected will be sufficient only for a cursory and qualitative analysis of the potential order of magnitude importance of sediment nutrient release into the water column.

TASK 3. MIXING ZONE DETERMINATION

Model Dilution/Mixing Zone

The preliminary initial dilution modeling has been done in order to provide input in the evaluation of outfall location and diffuser design recommendations. Both UMERGE and UDKHDEN were used in this effort. The results indicate that an initial dilution of over 100:1 can be achieved at any of the proposed locations (assuming an inner harbor outfall would be located deeper than at present). A simple diffuser of 5 4-inch diameter ports spaced 15 feet apart and discharging horizontally appears to give good performance combined with simple design and low maintenance requirements.

The same modeling will be used to determine both the steady-state receiving water concentrations of TN and TP and the size of the mixing zone. The steady-state concentrations provide the receiving water characteristics, the initial dilution model combined with the steady-state concentrations provide the concentrations at the end of initial dilution. If the zone of initial dilution is not the same as the mixing zone, then some additional analysis of farfield dilution is required. This will be done by either using the EPA CDIFF model combined with M&E Pacific dye patch dispersion results, by using the PT121 model with a smaller grid spacing, or by using another appropriate analysis technique. The actual technique used depends on each specific case. The transport model (PT121) results provide a calculation of the volume of the mixing zone but not its specific shape.

The work under this task is closely related to that in Task 1 described above. The work on defining the details of the mixing zone geometries for different loadings and locations is currently

being conducted.

The initial modeling for the mixing zone definition is nearly finished and the next step of evaluating the effects of location and diffuser design is being conducted.

TASK 4. SEASONALITY OF OCEAN CURRENTS

Based on analysis of existing data, oceanographers at CH2M Hill have determined that:

- Current variability is essentially wind driven both in the nearshore ocean and in the outer harbor.
- Wind patterns are seasonal and only a limited number of cases need to be considered.
- The primary impact of wind driven variability on the evaluation of outfall location alternatives is on diffuser design as it affects plume trapping level.

The nature of the wind driven current variability is being considered in the evaluation of outfall locations. This factor favors outfalls in the middle and outer harbors about equally.

TASK 5. ENGINEERING EVALUATION

Geological/Geophysical Survey

It has been determined that there are probably no reliable existing charts or smooth sheets of the bathymetric features of Pago Pago Harbor. The published NOS nautical chart can only provide a guide to bathymetric features. It is not usable for design or engineering feasibility purposes. A team of five consultants from CH2M Hill are presently in American Samoa conducting bathymetry and side-scan sonar studies to determine the feasibility of laying a marine pipeline. These consultants are also collecting sediment and water quality samples from the harbor. Results from these field studies will be provided in the final report.

Cost and Schedule Estimates

An intermediate cost scenario for the land route has been developed. A preliminary cost comparison for different size pipes (6- to 18-inch diameter) has been completed. Refinement of the previous land route cost estimates are being done for additional comparison. More detailed cost/schedule information will be developed as necessary to evaluate outfall locations. These costs are undergoing review and will be incorporated in the final report.

Environmental Permitting

A meeting was held with the US Army Corps of Engineers' Pacific Ocean Division in Hawaii in July 1990. Based on the meeting, it was determined that a construction permit would be required from the Army Corps of Engineers to install a marine pipeline. The cannery would need to submit a brief environmental assessment report to the Corps outlining the type of environmental impacts anticipated by the construction activities. If there are no substantial environmental impact, the Corps can then issue a permit under its "Nationwide Permit Program" within 30 to 60 days. If there are significant environmental impact, then the Corps would require the cannery to apply for an individual construction permit which would require notice of hearings and review by other government agencies. This process would be more uncertain and take much longer to complete.

It was pointed out by the Corps' representative that if private citizen groups were to object to the pipeline for whatever reasons, public hearings would most likely have to be held and this process could drag on for months. Such a possibility would exist if certain environmental group were to object to the discharge of cannery wastes in a relatively pristine area (i.e. outer harbor).

In terms of local permits in American Samoa, a preliminary list of required permits has been supplied by ASG staff. CH2M Hill consultant aslo met with environmental planners at the Coastal Management Office to discuss permit requirements. The consultants will supply the Coastal Management Office with preliminary plans for the various pipeline options to enable the Office to identify specific permit requirements. This list of contacts will be used in the event that a pipeline is selected as the disposal alternative.

Conclusions

Significant progress is being made in the Study as indicated in this status report. The final report for the Study will be completed on or before the Consent Decree deadline of March 31, 1991. It is expected that the final report will contain sufficient information on the various disposal alternatives for StarKist management to select, by May 31, 1991, among the various available options which include termination of operation.

StarKist Samoa, Inc.

P.O. BOX 368 PAGO PAGO, AMERICAN SAMOA 96799

(684) 644-4231
FAX NO: (684) 644-2440

October 22, 1990

Mr. Norman Lovelace
OPINAP (E-4)
US Environmental Protection Agency Region 9
75 Hawthorne Street
San Francisco, CA 94105

Dear Mr. Lovelace:

We are in receipt of your letter of October 19, 1990 which outlines your agency's concerns regarding the monitoring requirements under the Administrative Order. We too are pleased that the high strength waste segregation has resulted in significant reduction in nutrient loadings to the harbor.

In future reports, we will identify the daily maximum values and calculate the monthly averages for the appropriate parameters. Please note that the daily flows reported were those of the effluent. The effluent flow at the plant is the same as the influent except for the addition of a small amount of coagulant and the removal of sludge.

The nitrogen values contained in all our Administrative Order reports were for Total Nitrogen (Kjeldahl plus nitrite/nitrate). We started analyzing for TN in August of 1990 in order to conform to the Administrative Order's requirements. Our latest Discharge Monitoring Report for the month of August 1990, submitted to your agency on September 26, indicates that the analyses were for Total Nitrogen.

We are aware of the Consent Decree's requirement for an interim written status report on the engineering feasibility study to be submitted within 3 months upon the Court's acceptance of the Decree. This status report will be submitted to the US EPA, the American Samoa Government and the High Court of American Samoa on or before November 2, 1990.

On the matter of Toxic Substance Monitoring Program, a report was submitted to your agency on March 30, 1990. An extra copy of this report is enclosed for your file. The next sampling event is scheduled to take place during the week of October 29, 1990 and the results will be forwarded to your agency and ASEQC as soon as they become available. Earlier monitoring had not been carried out because of the evidentiary hearing appeal process.

Sincerely,

STARKIST SAMOA, INC.

MAURICE W. CALLAGHAN
General Manager

/tl

cc: P. Faiai, ASEPA
Sheila Wiegman, ASEPA
Virginia Gibbons, Office of the Attorney General, ASG
J. Ciko
N. Wei
R. A. Ward

OCT-22-1990 15:30 FROM STARKIST SAMOA

my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

Yours truly,

STARKIST SAMOA, INC.

MAURICE W. CALLAGHAN
General Manager

/tl

cc: N. Wei
R. A. Ward

Star-Kist Samoa, Inc.

P.O. BOX 368 PAGO PAGO, AMERICAN SAMOA 96799

(684) 644-4231
FAX NO: (684) 644-2440
TELEX: 782-509
ANSWERBACK: STARKIST SB

March 30, 1990

Regional Administrator
Environmental Protection Agency
Region 9, Attn: W-1-1
1235 Mission Street
San Francisco, California 94103

file
EIA

Executive Secretary
Environmental Quality Commission
Government of American Samoa
Pago Pago, American Samoa 96799

Subject: Toxic Substance Monitoring Program
NPDES Permit No. AS0000019

StarKist Samoa hereby submits the following monitoring data as required under the Toxic Substance Monitoring Program of the above referenced NPDES Permit:

	Supply Water (Thaw Water)	Effluent
Cadmium	0.06	0.06
Chromium	0.20	0.12
Lead	0.70	0.40
Mercury	< 0.005	< 0.005
Zinc	0.21	0.43

All concentrations above are reported as milligrams per liter. Samples were collected on January 16, 1990 and analyzed by AECOS the week of February 5th.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on

OCT-23-1990 15:50 FROM STARKIST SAMOA TO 11415744160 P.04

TOTAL P.06

All Entries MUST be in Ball Point or Typed

REGISTERED NO. R 743-413-486

POSTMARK OF PAGO PAGO, AS MAR 30 1990 USPS

Post Office Completion

Reg. Fee	$4.40	Special Delivery	$
Handling Charge	$	Return Receipt	$
Postage	$ .25	Restricted Delivery	$
Received by			

Customer must declare Full value $

☐ With Postal Insurance ☐ Without Postal Insurance

$25,000 Domestic Ins. Limit

Customer Completion (Please Print)

FROM
STAR KIST SAMOA INC
P.O Box 368 PAGO PAGO
AM SAMOA 96771

TO
REGIONAL ADMINISTRATOR
ENVIRONMENTAL PROTECTION
AGENCY REGION 9. ATTN: W-1-1
1235 MISSION STREET
SAN FRANCISCO CA 94103

PS Form 3806, June 1986 RECEIPT FOR REGISTERED MAIL (Customer Copy)
(See Information on Reverse)

OCT 1990 Pat Copy to Mike

Star-Kist SAMOA, Inc.

P.O. Box 368 · Pago Pago · Tutuila Island · American Samoa

October 8, 1990

Mr. Norman Lovelace
OPINAP (E-4)
US Environmental Protection Agency Region 9
75 Hawthorne Street
San Francisco, CA 94105

Mr. Pati Faiai
American Samoa Environmental Quality Commission
Office of the Governor
American Samoa Government
Pago Pago, American Samoa 96799

Gentlemen:

Re: Monitoring Results for the Month of September 1990 under the U.S. EPA's Administrative Order to StarKist Samoa

Attached are StarKist Samoa's monitoring results for the month of September 1990 as required under US EPA's Administrative Order issued on June 18, 1990. Due to the intensive nature of the sampling requirements, many of the samples had to be sent to AECOS laboratory in Hawaii for analysis. This is the reason why StarKist Samoa was not able to submit all of its analytical results on or before the 7th day of the month following.

All the daily maximum and monthly average limitations and removal efficiency requirements for nitrogen and phosphorus were met. StarKist Samoa expects to continue to meet all daily maximum and monthly average limitations.

As General Manager of StarKist Samoa, I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

Sincerely,

Maurice Callaghan
General Manager

Attachment

ADMINISTRATIVE ORDER COMPLIANCE REPORT
September 1990

Total Phosphorus

Date Sept	Flow mgd	Inf. mg/l	Eff. mg/l	Inf. #/day	Eff. #/day	Percent Removal
4	1.8093	57.7	18.7	868	281	68%
7	2.6106	30.0	6.5	651	141	78%
11	1.9485	32.0	13.0	519	211	59%
14	1.8645	41.2	14.9	639	231	64%
18	1.6509	43.6	10.8	599	148	75%
21	1.6275	22.1	5.2	299	70	76%
25	1.7786	34.3	8.5	507	125	75%
28	1.8268	71.8	9.5	1091	145	87%
Average		41.6	10.9	646	169	

Monthly Av. 121 = 170 ↓ very close

difference w/ effluent flow rate?

Total Nitrogen

Date Sept	Flow mgd	Inf. mg/l	Eff. mg/l	Inf. #/day	Eff. #/day	Percent Removal
4	1.8093	134.5	60.3	2024	907	55%
7	2.6106	109.8	70.1	2383	1521	36%
11	1.9485	165.3	81.3	2678	1317	51%
14	1.8645	204.5	70.0	3171	1086	66%
18	1.6509	86.9	32.4	1193	445	63%
21	1.6275	221.3	85.4	2995	1156	61%
25	1.7786	112.1	72.9	1658	1078	35%
28	1.8268	173.7	68.9	2638	1047	60%
Average		151.0	67.7	2343	1070	

Total Suspended Solids (mg/l)

Date Sept	Inf. mg/l	Eff. mg/l	Press Liquor	Cooker Juice
4	1365.0	76.7	103,500	4,000
7	640.0	66.0	136,300	4,350
11	1035.0	91.5	95,500	5,350
14	710.0	74.0	147,900	2,100
18	865.0	98.0	122,700	1,000
21	1070.0	124.0	167,000	6,500
25	690.0	45.3	135,200	11,550
28	1410.0	88.5	173,900	8,050

	Total Phosphorus		Total Nitrogen	
Date Sept	Press Liquor	Cooker Juice	Press Liquor	Cooker Juice
4	1608.0	401.6	21343.3	6022.0
7	1524.4	413.2	16081.7	5909.9
11	755.3	321.3	14794.0	2299.9
14	1784.0	606.8	16859.9	2493.4
18	2022.0	238.8	16198.1	1716.4
21	764.5	393.2	15180.6	4509.3
25	616.2	335.1	19778.0	3671.7
28	630.5	318.7	13898.0	2721.3

Concentrations in mg/l

Oil and Grease

Date Sept	Samples	Inf. mg/l	Eff. mg/l	Press Liquor	Cooker Juice
4	8:00 am	780.0	1.3	74,000	4,300
	10:00 am	210.0	0.6	33,000	1,500
	noon	200.0	0.8	61,000	1,800
	2:00 pm	310.0	*	73,000	600
	Average	375.0	0.9	60,250	2,050
7	8:00 am	150.0	1.9	63,000	2,400
	10:00 am	380.0	1.4	66,000	2,000
	noon	280.0	0.9	20,000	2,700
	2:00 pm	250.0	0.7	50,000	1,400
	Average	265.0	1.2	49,750	2,125
11	8:00 am	1300.0	2.8	87,000	2,600
	10:00 am	270.0	2.0	96,000	1,200
	noon	640.0	3.6	98,000	2,100
	2:00 pm	330.0	5.2	120,000	1,300
	Average	635.0	3.4	100,250	1,800
14	8:00 am	570.0	3.0	69,000	2,100
	10:00 am	170.0	0.9	69,000	1,900
	noon	71.0	0.5	80,000	710
	2:00 pm	71.0	2.1	77,000	980
	Average	220.5	1.6	73,750	1,423
18	8:00 am	0.0	0.0	30,000	4,200
	10:00 am	0.0	0.0	54,000	1,400
	noon	0.0	0.0	62,000	** 68
	2:00 pm	0.0	0.0	44,000	** 17
	Average	0.0	0.0	47,500	2,800
21	8:00 am	154.2	17.2	85,000	12,000
	10:00 am	749.9	32.0	62,000	940
	noon	585.3	16.0	63,000	710
	2:00 pm	420.9	16.4	94,000	860
	Average	477.6	20.4	73,000	837
25	8:00 am	126.3	12.5	40,821	3,046
	10:00 am	177.2	6.7	54,475	1,493
	noon	120.1	9.3	99,984	2,559
	2:00 pm	205.4	15.2	79,463	11,568
	Average	157.3	10.9	68,686	4,666
28	8:00 am	449.1	13.8	41,570	773
	10:00 am	569.1	2.7	70,016	2,176
	noon	299.1	26.1	77,794	6,409
	2:00 pm	217.0	3.1	57,506	1,640
	Average	383.6	11.4	61,722	2,749

Concentrations for press liquor and cooker juice reported as mg/kg

* Sample bottle broken during transit to Hawaii.

* Outliers as reported by laboratory but not included in averages.

Date Sept	Daily Amount of high strenth wastes disposed by Astro (gallons) *
1	
2	
3	
4	73,100
5	67,600
6	68,000
7	69,500
8	73,300
9	
10	
11	
12	61,430
13	57,300
14	70,600
15	67,400
16	
17	
18	74,100
19	68,200
20	67,000
21	71,700
22	
23	
24	10,800
25	
26	75,000
27	55,400
28	72,700
29	
30	

* These figures are provided here because the plant experienced operational problems with the individual magnetic flow meters for the high strength waste streams. These problems have been corrected and individual flow figures will be supplied for October 1990.

Additional Oil & Grease Data (composite)

Sept	Inf. mg/l	Eff. mg/l
4	350	0.9
7	86	
11	620	2.7
14	150	0.7

18 OCT 1990

StarKist Seafood Company

Memorandum

October 16, 1990

Mr. Norman Lovelace
OPINAP (E-4)
US Environmental Protection Agency Region 9
75 Hawthorne Street
San Francisco, CA 94105

Mr. Pati Faiai
American Samoa Environmental Quality Commission
Office of the Governor
American Samoa Government
Pago Pago, American Samoa 96799

Gentlemen:

Re: Monitoring Results for the Month of September 1990 under the U.S. EPA's Administrative Order to StarKist Samoa

In StarKist Samoa's monitoring results for the month of September 1990 submitted earlier, the following influent and effluent data for oil and grease for September 18th were inadvertently left out:

September 18, 1990

Time of Sampling	Influent	Effluent
8:00 am	270.0 mg/l	6.3 mg/l
10:00 am	290.0 mg/l	20.0 mg/l
Noon	88.0 mg/l	26.0 mg/l
2:00 pm	280.0 mg/l	51.0 mg/l
Average	232.0 mg/l	25.8 mg/l

Please add these data to your record and accept my apologies for any inconvenience this may have caused you.

Sincerely,

Norman S. Wei
Manager, Environmental Engineering

cc: M. Callaghan

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
75 Hawthorne Street
San Francisco, CA 94105

MAY 30 1995

Father Henry L. Beauchamp, C.Ss.R.
Executive Board Member
Mayaguezanos por la Salud y el Ambiente, Inc.
Calle Caludio Carrero #293
El Mani
Mayaguez, Puerto Rico 00680

Dear Father Beauchamp:

Your letter to Ken Greenberg of our Permits and Compliance Branch, was referred to me for response. Attached please find the following information as per your request of May 23, 1995, pertaining to StarKist Samoa's NPDES Permit:

1. Copy of current NPDES Permit No. AS0000019, effective date October 27, 1992;

2. Statement of Basis for permit;

3. Summary of Discharge Monitoring Reports exceedances, November 1992 through January 1995;

4. Memo to File from Steve Costa, CH2M Hill, dated July 15, 1991, describing the joint cannery outfall project;

5. Findings of Violation and Order for Compliance, Docket No. IX-FY90-22, issued June 18, 1990, to StarKist Samoa for violations of its NPDES permit nitrogen limits, September 1989 - February 1990;

6. Letter to Maurice Callaghan, President and General Manger of StarKist Samoa, dated June 18, 1990, transmitting the above Administrative Order;

7. Letter to M. Callaghan, dated August 13, 1991, revising the interim effluent limits for nitrogen for the Administrative Order;

8. Letter to M. Callaghan, dated February 1992, amending the Administrative Order to allow use of the new outfall;

9. Letter to Barry Mills, StarKist Samoa General Manager, dated September 26, 1994, rescinding the Administrative Order.

For your information, no enforcement actions have been taken for exceedances of permit effluent limitations under the present permit.

Should you have any questions regarding the above information, please feel free to contact Pat Young, American Samoa Program Manager, at (415) 744-1594 or Mike Lee, NPDES Compliance Officer, at (415) 744-1592.

Sincerely,

James B. Branch

for Norman L. Lovelace, Chief
Office of Pacific Islands (E-4)

Enclosures

cc: Ken Greenberg

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
75 Hawthorne Street
San Francisco, CA 94105

MAY 30 1995

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SYMBOL	E-4	E-4	E-4			
SURNAME	[illegible]	[illegible]	[illegible]			
DATE	5/30/95	5/30/95	5/30/95			

U.S. EPA CONCURRENCES OFFICIAL FILE COPY

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
75 Hawthorne Street
San Francisco, CA 94105

FEB 24 1995

Barry Mills
General Manager
StarKist Samoa, Inc.
P.O. Box 368
Pago Pago, American Samoa 96799

Re: NPDES Inspection Report

Dear Mr. Mills:

On October 5, 1994 Mike Lee of my office performed a National Pollutant Discharge Elimination System (NPDES) inspection of the StarKist Samoa, Inc.'s tuna cannery. The inspection was performed to assess the cannery's conformance with its NPDES permit requirements. A copy of the inspection report has been enclosed for your information and a copy has been provided to the American Samoa Environmental Protection Agency.

As you are aware the NPDES permit requires several studies to be performed to determine the effects the discharge may be having on the receiving waters (Pago Pago Harbor) and verify outfall modeling predictions. As you are also aware and as indicated in the inspection report these studies have or are currently being performed. With regard to such items as the toxicity testing, priority pollutant scans, dye/tracer studies, sediment monitoring, eutrophication study, coral reef study, and model verification the inspection report only discusses these in general. As we have been doing we will continue to primarily deal with these studies and reports individually and/or combined as they are submitted for our review and comments. It appears that these studies are progressing satisfactorily.

With regard to conformance with required receiving water monitoring it appears that this area needs further attention as discussed in the inspection report to ensure submittal of the monitoring data/reports. With respect to the pollution prevention program a update needs to be submitted regarding the program's planned and proposed components. The permit requires annual updates on the pollution prevention program. Those pollution prevention program components which are noted in the inspection report are the fishmeal plant improvements, fishing vessel education, effluent and inplant wastestream heavy metals evaluation/followup and development of a spill prevention, control and countermeasure plan.

Please provide a written response within forty-five (45) days of the date of this letter which addresses our concerns as noted in

this letter and the inspection report. Please also provide a copy of your response to the ASEPA.

Thank you for your cooperation during the inspection of your facility. If you have any questions regarding this inspection report, please contact Mike Lee at (415) 744-1592 or Pat Young at (415) 744-1594.

Sincerely,

Norman L. Lovelace
Chief, Office of Pacific Island and
Native American Programs

Enclosure

cc: N. Wei, StarKist Samoa
S. Costa, CH2M Hill
T. Tausaga, ASEPA
S. Wiegman, ASEPA

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
75 Hawthorne Street
San Francisco, CA 94105

FEB 24 1995

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Please provide a written response within forty-five (45) days of the date of this letter which addresses our concerns as noted in

SYMBOL	E-4					
SURNAME	M. Lee					
DATE	2/24/95					

U.S. EPA CONCURRENCES OFFICIAL FILE COPY

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
75 Hawthorne Street
San Francisco, CA 94105

JAN 17 1995

Steven L. Costa
Project Manager
CH2M HILL
1111 Broadway, P.O. Box 12681
Oakland, CA 94604-2681

Re: Priority Pollutant Monitoring Data Review Comments
American Samoa Tuna Canneries (Oct. 93 & Feb. 94)

Dear Mr. Costa:

Please find enclosed our review comments of the Priority Pollutant Monitoring Data for the VCS Samoa Packing Company (AS0000027) and StarKist Samoa, Inc.(AS0000019). Our review covers effluent priority pollutant monitoring data collected in October 1993 and February 1994 submitted to us in September 1994.

As mentioned in the enclosure the review primarily focused on evaluation of appropriate methods, detection limits and QA/QC procedures. Although there are no significant discrepancies noted in the review there are some discrepancies noted relating to methods referenced, use of other methods with lower detection limits, sample documentation, etc.

Please review our findings and make the appropriate corrective actions which address the concerns noted in the review prior to the next priority pollutant monitoring. Please also provide a written response within thirty (30) days of the date of receipt of the letter regarding the review findings. If additional response time is necessary, please provide a written request for an extension to the 30-day response time.

If you have any questions regarding this matter, please contact Pat Young at (415) 744-1594 or Mike Lee at (415) 744-1592.

Sincerely,

Norman L. Lovelace
Chief, Office of Pacific Island
and Native American Programs

Enclosure
cc: Norman Wei, StarKist Samoa
James Cox, VCS Samoa Packing
Togipa Tausaga, ASEPA
Shmida Wiegman, ASEPA

SYMBOL					
SURNAME					
DATE					

U.S. EPA CONCURRENCES OFFICIAL FILE COPY

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
75 Hawthorne Street
San Francisco, CA 94105

SEP 26 1994

Barry Mills
General Manager
StarKist Samoa, Inc.
P.O. Box 368
Pago Pago, American Samoa 96799

Re: Administrative Order, Docket No. IX-FY90-22

Dear Mr. Mills:

This letter is in regard to the Administrative Order (AO) issued to StarKist Samoa, Inc. (StarKist) on June 18, 1990 for violations of its National Pollutant Discharge Elimination System (NPDES) Permit, No. AS0000019.

Specifically, in June, 1990, StarKist was issued the AO for violations of NPDES permit interim effluent limitations for total nitrogen through the failure to implement high strength waste segregation of its cannery effluent. The AO required StarKist to implement high strength waste segregation and disposal; implement an intensive monitoring program and submit reports; comply with newly established interim effluent limitations for total nitrogen and phosphorus; establish a compliance schedule for commencing and completing engineering study(s) and achieving compliance with water quality-based effluent limitations of its NPDES permit.

The AO was amended in October, 1991, to revise the interim effluent limitations for total nitrogen and to approve a variance to the American Samoa Water Quality Standards for temperature requirements of the StarKist NPDES permit. The AO was additionally amended in February, 1992, to allow use of the newly-constructed joint cannery outfall prior to issuance of its new NPDES permit. Construction of the joint cannery outfall (by StarKist & Samoa Packing) was the result of the engineering study's recommended alternative for achieving compliance with its water quality-based effluent limitations of its NPDES permit.

Since the issuance of the AO in June, 1990, StarKist has implemented high strength waste segregation and disposal in accordance with the AO requirements and its Ocean Dumping Permit OD-90-01, which was subsequently reissued in 1993 as OD-93-01. In February 1992, StarKist, in conjunction with VCS Samoa Packing Company, constructed a new joint cannery outfall which relocated the discharge point nearer to the outer Pago Pago Harbor. StarKist was also issued a new NPDES permit in October 1992, and has

demonstrated compliance with its permit effluent limitations for total nitrogen and phosphorus. StarKist has met all other requirements of the AO.

It has therefore been determined that StarKist has complied with the requirements and conditions established in the AO. The AO, Docket No. IX-FY90-22, issued to StarKist on June 18, 1992, is hereby rescinded.

If you have any questions regarding this matter, please contact Mike Lee or Pat Young, Office of Pacific Island and Native American Programs at (415) 744-1592 or (415) 744-1594, respectively.

Sincerely,

Alexis Strauss, deputy
for Harry Seraydarian
Director, Water Management Division

cc: Norman Wei, StarKist Seafood Company
Malaetasi Togafau, AS Attorney General
Togipa Tausaga, ASEPA
Sheila Wiegman, ASEPA

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
75 Hawthorne Street
San Francisco, CA 94105

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StarKist Samoa, Inc.
P.O. Box 368
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SYMBOL	E-4	E-4	E-4			
SURNAME	M Lee	[illegible]	[illegible]			
DATE	9/22/94	9/26/94	9/26/94			

U.S. EPA CONCURRENCES

OFFICIAL FILE COPY

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
75 Hawthorne Street
San Francisco, CA 94105

September 2, 1994

Norman Wei
Senior Manager
Environmental Engineering
StarKist Foods, Inc.
River Front Place
Newport, KY 41071

Re: Request for Reports Required by NPDES Permit AS0000019

Dear Mr. Wei:

We have reviewed the reports submitted to date, as required by StarKist Samoa, Inc.'s National Pollutant Discharge Elimination System (NPDES) Permit No. AS0000019. We would like to bring to your attention that we have not received the following reports:

1. **Bioassay Test Reports for August 1993 and February 1994.** This test is required to be conducted semi-annually. To date we have only received the report submitted in May 1993 for the test conducted in February 1993. The results of this test indicated high mortality and it was surmised the cause to be the high immediate dissolved oxygen demand of the effluent. Subsequently we agreed to modify the test protocol to accommodate this. As you know, the permit may be reopened for the imposition of water quality-based limits and/or whole effluent toxicity limits, or modified to include appropriate conditions or limits to address demonstrated effluent toxicity. Thus, we are very interested in the subsequent bioassay test results and whether further investigations on the causes and activities to reduce toxicity in the effluent are necessary.

2. **Priority Pollutant Scan Report for February 1994.** A priority pollutant scan is required yearly. To date we have only received a May 1993 report for the scan conducted in February 1993. For StarKist, the scan showed very high concentrations of silver in the effluent.

3. **Dye Study Report for October 1993.** Two dye studies were required to be completed in the first year of the permit and we have only received the results of the first study, conducted in June 1993.

4. **Sediment Monitoring Report for October 1993.** Sediment monitoring is required annually. We are in receipt of only one report which was done for the monitoring conducted in February 1993.

5. **Eutrophication Study Report for April 1994.** This study is required to be conducted only once during the permit, and a six-month extension had been granted for its completion, so that the field data could be collected during the same time as one of the dye studies. The six-month extension date has passed and we have not received the report.

6. **Coral Reef Video.** A final report for the first coral reef study was received in August 1993; however, we never received the video referenced in the report and which is also required by the permit.

7. **Model Verification Report for May 1994.** This report is required to be submitted annually, and the first report is to utilize the first year's receiving water data and results of the dye studies. We approved the plan for the model verification study in November 1993 but have not yet received the first report.

8. **Receiving Water Monitoring Reports.** We have not received these reports for the following months: November 1992; February, April, May through December 1993; and January through the present for 1994. Also, we noted that the log sheets for sample measurements of temperature, turbidity, etc., was only submitted for October 1992. The pH measurement was missing from the log. Also, please note that the laboratory analyses from AECOS do not contain ammonia measurements, which is a required parameter. Although the canneries have an arrangement with the American Samoa Environmental Protection Agency to conduct the receiving water monitoring, it is the responsibility of the permittees to insure that the monitoring is done, and to submit these reports to us on a quarterly basis. We request that the canneries provide us with the missing reports, and in the future, submit the available receiving water data to us quarterly, with the Discharge Monitoring Reports. We also note that the average time from the collection of the sample to the date of the AECOS report is about 3 months, with one report taking 5 months. This is an unacceptable delay in processing time.

It should be noted that failure of the permittee to perform and/or submit reports and studies as required by this permit constitutes a violation of the permit and is subject to civil penalties under the Clean Water Act. Whenever noncompliance is anticipated, notification should be given to USEPA and ASEPA, as well as an explanation and a schedule for performing the requirement.

Therefore, please provide a written response which clearly addresses completion and submittal of the reports and/or studies

referenced above, within 30 days of the date of receipt of this letter. Your written response should include explanations for noncompliance with the respective permit conditions as identified in this letter. In addition, this response should include a schedule for completing these reports and studies.

If you have any questions regarding this letter, please contact Pat Young, American Samoa Program Manager, at (415) 744-1594.

Sincerely,

Norman L. Lovelace
Chief
Office of Pacific Island and
Native American Programs (E-4)

cc: Barry Mills, StarKist Samoa, Inc.
Steve Costa, CH2MHill
Togipa Tausaga, ASEPA
Sheila Wiegman, ASEPA
Mike Lee, E-4

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
75 Hawthorne Street
San Francisco, CA 94105

January 22, 1993

Steven L. Costa
Project Manager
CH2M Hill
1111 Broadway
P.O. Box 12681
Oakland, CA 94604-2681

Re: Review of the Joint Cannery Outfall Sediment Monitoring and Coral Reef Draft Study Plans

Dear Steve:

We have reviewed the draft sediment monitoring and coral reef study plans submitted to us on January 6, 1993. Both studies are required by the canneries' NPDES permits. Generally both plans are acceptable, and address the objectives of the studies as outlined in the permits. Both studies appear to be well planned. We find that the use of the Mini-Ranger for locating sampling sites is an excellent idea.

However, we have the following comments and recommendations which we would appreciate being commented upon and/or addressed in the final plan:

Draft Sediment Monitoring Plan

1. Total Organic Carbon measurements are preferred over Total Volatile Solids (TVS) because it is a better indicator of sediment organic compounds.

2. Total grain size distribution measurements should not be optional as they are an important assessment of solids dispersal in the harbor (i.e., percent silt, clays, sands, etc.).

3. In addition to references mentioned in the plan, other reference documents should be consulted re: collection, storage, analyses, i.e, EPA's 301(h) QA/QC document (EPA 430/9-86-004) and the EPA/COE 1991 Evaluation of Dredged Materials Proposed for Ocean Disposal (EPA-503/8-91/001). If you do not have these documents, feel free to visit our office to review our copies.

4. Have sediment traps been considered? If not, why not? Sediment traps would enable one to determine deposition of new

material over time. Also, a van Veen sediment grab sampler is preferred over a Ponar sampler.

5. Will total and/or water soluble sulfides be measured? What methods will be used? (See 301(h) QA/QC document). Should ammonia also be measured since it is the form of nitrogen that is most readily utilized by phytoplankton and macroalage?

6. How will Eh be measured? (A copy of a suggested procedure is enclosed as Attachment 1.) At what depth will it be measured? If only one measurement will be taken we suggest it be at the 2 cm depth. However, a full vertical profile through the sediments is preferred.

7. Where will temperature and pH be measured? Will they be measured at the surface, 2 cm depth, and at other depths? Please explain the rationale and objectives for measuring pH, Eh and temperature at depth(s) chosen.

8. How will the sediment grab sampler and stainless steel bowls be cleaned between sampling events to minimize cross-contamination between stations?

9. Will only the surface sediments be photographed? If yes, why? We suggest that photographs also be taken of sediment cores as changes in color could then be correlated with other data re: Eh, particle size, hydrogen sulfide, etc.

10. We have no objection to the modification of the monitoring schedule proposed, i.e., having the first two sampling episodes during the first year of the study, six months apart. However, we recommend that the third sampling event occur 12 months after the second episode, versus 18 months as proposed in the study. We feel that the 18-month interval is too long after the second sampling event. Also, a 12-month interval would enable the sampling to take place during the same time as the first event. This should provide information to assist in determining the best season for the annual sampling in the future.

11. Compositing the sediment samples may greatly affect the hydrogen sulfide measurements. Perhaps separate discrete samples should be collected for hydrogen sulfide measurements before compositing.

12. We suggest that a minimum of 2 liters of sediment per station be collected and that excess sediment samples be archived in case there are problems with any of the measurements.

13. The final report on the study results submitted to USEPA and ASEPA should include the following: Introduction, Methods and

Materials, Results, Discussion and Recommendations, and Conclusions.

14. Table 2 on Sediment Chemical Analyses indicates standard methods numbers which are outdated. See 1989 edition of Standard Methods.

Draft Coral Reef Study Plan

The draft plan for the coral reef study is generally good. We especially find noteworthy the use of a Mini-Ranger for siting, use of permanent transects and the adequate number of stations to be surveyed, and the various depths at each station. Our review comments are as follows:

1. Benthic organisms included in the semi-quantitative data sets at each transect should be macroinvertebrates and macroalgae.

2. If possible, water quality sampling should be coordinated with the reef surveys so that any potential correlations between water quality and biological data can be noted. Water quality monitoring should be performed either on the same day or within a week of the coral reef surveys.

3. On page 5, end of the third paragraph, only five representative sites are specified where video records of reef flats will be taken. Where is the sixth representative site?

4. Will the marine ecologist who will be analyzing the videos also be involved in conducting the transects? Please provide a copy of his resume/experience in tropical marine waters.

5. Please describe in detail how the video transect records will be "analyzed and summarized" (see page 2 of the draft plan).

6. We recommend that all sites be visited at least once per year to ensure that the transect marker stakes are still present and/or whether any major changes to each site have occurred.

7. Please describe in detail the video equipment and methods to be used during the videotaping of each transet. This would include information describing:

   a. The camera(s) to be used and "line of resolution" per frame;

   b. Recommended swimming speed for each transect;

   c. Standardized distance from the bottom that will be used during videotaping and the taking of still pictures; and,

d. Any other revelant information.

8. In order to quantitatively document changes within and between the silts over time, we strongly recommend that at least one permanent square-meter quadrant be established along each transect line.

9. For additional guidance in modifying the design of the coral survey plans, please refer to the attached documents entitled: Effects of Sugar Mill Waste Discharge on Reef Coral Community Structure, Hamakua Coast, Island of Hawaii (Attachment 2) and Proposal for Long-Term Monitoring and Management Research on Coral Reefs (Attachment 3).

10. It might be worthwhile to investigate whether a chemical indicator exists in the cannery effluent (e.g., aluminum from the alum added to the wastewater treatment system) which can be measured in the sediment. This would assist in determining transport, dispersion, etc. of the effluent in the harbor.

11. The final report on the study results submitted to USEPA and ASEPA should include the following: Introduction, Methods and Materials, Results, Discussion and Recommendations, and Conclusions.

Also attached are the American Samoa Department of Marine and Wildlife Resources' (DMWR) comments on the sediment monitoring plan and the dye study plan (Attachment 4). We would appreciate your response (in writing) regarding our concerns raised above, and the comments provided by DMWR regarding the draft sediment monitoring plan and the dye study plan. Please call Pat Young at 415/744-1591 if you have any questions.

Sincerely,

James B. Brand

for Norman L. Lovelace, Chief
Office of Pacific Island and Native
American Programs (E-4)

Enclosures (4)

cc: Sheila Wiegman, American Samoa EPA
Jim Cox, Van Camp Seaffod Company, Inc.
Norman Wei, Star-Kist Seaffod Company

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
75 Hawthorne Street
San Francisco, Ca. 94105-3901

December 1, 1992

Steven L. Costa
Project Manager
CH2M Hill
1111 Broadway
P.O. Box 12681
Oakland, CA 94604-2681

Re: Review of the Joint Cannery Outfall Dye Study Plan

Dear Steve:

We reviewed the canneries' outfall dye study plan and also had Walter Frick of EPA's Office of Research and Development review the the plan. The plan is basically acceptable. However, Dr. Frick had several recommendations and concerns, which are detailed in the attached memo. One of his concerns was that the proposed plume measurement program might overestimate the dilution achieved and recommended a method to counteract this problem. He also had concerns regarding the modeling used for the mixing zone determination not factoring in background concentrations to establish effective dilution based on the discharge's interaction with the ambient water.

We would appreciate your addressing the concerns raised by Dr. Frick in the dye study plan and subsequent analyses.

Sincerely,

Pat Young

Pat Young
American Samoa Program Manager
Office of Pacific Island and Native
American Programs (E-4)

Enclosure

cc: Norman Wei, Star-Kist Seafood Company
James Cox, Van Camp Seafood Company
Pati Faiai, American Samoa EPA

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF RESEARCH AND DEVELOPMENT

ENVIRONMENTAL RESEARCH LABORATORY - NARRAGANSETT
HATFIELD MARINE SCIENCE CENTER
NEWPORT, OREGON 97365

November 25, 1992

PACIFIC ECOSYSTEMS BRANCH
TELEPHONE: (503) 867-4040

MEMORANDUM

SUBJECT: Review of Draft Dye Study Plan for Tuna Cannery NPDES Permits

FROM: Walter E. Frick
Physical & Chemical Processes Team

TO: Janet Hashimoto
Region IX

I have participated in two separate dye studies and know that Steve Costa is himself familiar with dye studies. Based on this experience and my readings of the draft dye study, I find the plan basically acceptable.

However, all parties should be aware of the limitations and pitfalls of dye study work. I think the study team should be able to locate and sample the plume in the nearfield, as described on page 7, though even this task can be difficult and time consuming. The method of then using drogues to follow the water parcel to make subsequent measurements is a fairly standard technique. Short of intensive and extensive monitoring throughout a large area, I do not know of a better way to track the plume.

Given, however, that the nearfield monitoring accurately depicts plume concentrations, most likely this measurement program will tend to overestimate the subsequent dilution achieved. I can think of three reasons to support this conclusion: 1) The depth of the water varies significantly in the vicinity of the diffuser. Because the water column in which the initial dye measurement is made will stretch as it moves into deeper water, the depth of the plume maximum will maintain its relative position, therefore sinking to a greater depth. Thus measurements at drogue depth will no longer represent the plume maximum. 2) The same effect may be accompanied by vertical current shear so that the location of the plume maximum will also be uncertain. 3) Internal wave motion might change the depth and location of the plume. Finally, if the drogue moves into shallower water there is always the danger of getting caught on the bottom.

Of course, attempts can be made to counteract this problem by taking excursions from the drogue location in the effort to find the local maximum. Since knowledge of what direction is perpendicular to the plume centerline will be uncertain, this technique will also suffer uncertainties. However, the existence and importance of the mixing zone makes other locations less relevant. My recommendation is that as much profiling be done along this boundary as possible, using the drogue crossover point as a guide for concentrating the measurement effort.

In addition to the dye study, I examined the Technical Memorandum "Site-specific Zone of Mixing Determination for the Joint Cannery Outfall Project, Pago Pago Harbor, American Samoa." Assuming the density profiles are representative of the conditions of concern, my own limited modeling resulted in initial similar dilution predictions. I have no knowledge about density gradients in tropical waters but do not find what is called a "stronger gradient" on page 12 very strong compared to gradients elsewhere in coastal and estuarine water. The conductivity and temperature measurement program proposed for the dye study should be used to help ameliorate this concern.

The modeling presented in the mixing zone determination study only establishes overall dilutions. It does not factor in the background concentration to establish effective dilution or concentrations based on the interaction of the discharge with existing polluted ambient water. The new EPA guidance on plume modeling "Dilution models for effluent discharges" (Baumgartner, Frick, Roberts, and Fox, 1992) makes such estimates possible. The water quality measurements for Pago Pago Harbor in recent years indicate that water quality standards are exceeded and are occasionally high enough so that, even when they are not exceeded, the presence of a source may cause exceedances near the mixing zone.

The dye program should also help establish whether flow patterns in Pago Pago Harbor are as anticipated in the dye study plan: inflow at the surface and outflow at depth. This is different from the pattern in many estuaries in which outflow generally occurs near the surface.

I hope that the contractor will address these concerns further in forthcoming analyses of the dye studies.

cc: David Young

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
75 Hawthorne Street
San Francisco, Ca. 94105-3901

In Reply
Refer To: W-5-1
Certified Mail:

Maurice Callaghan
Star-Kist Samoa, Inc.
P.O. Box 368
Pago Pago, Tutuila
American Samoa 96799

Dear Mr. Callaghan:

Enclosed is a copy of a National Pollutant Discharge Elimination System (NPDES) permit for the following discharger:

Star-Kist Samoa, Inc.
NPDES Permit No. AS0000019

The staff at the Environmental Protection Agency (EPA) has reviewed the NPDES permit application for these facility and has prepared draft permits, in accordance with the Clean Water Act. The EPA has also published public notices of its tentative decisions to issue permits to the above dischargers. After considering the expressed views of all interested persons and certification of the draft permits, the EPA, pursuant to 40 CFR 124, has prepared final permits which do not differ significantly from the draft permits.

During the public comment period, several comments were submitted to EPA on the proposed draft permits. Enclosed is EPA's response to these comments. Please see the enclosed statement "Response to Comments."

The NPDES permits are hereby issued upon the date of signature and shall become effective 33 days from the date of this cover letter, unless there is written request for an evidentiary hearing. Pursuant to 40 CFR 124.76, requests for an evidentiary hearing must state each of the legal or factual question alleged to be at issue and must demonstrate one of the following for each issue being raised in the hearing request: that the issue was raised during the public comment period; that the issue was not reasonably ascertainable during the public comment period; or the requester could not have reasonably anticipated the relevance or materiality of the issue during the comment period. Any request for an evidentiary hearing must be submitted within 33 days from the date of this cover letter to Steven Armsey, Regional Hearing Clerk (RC-1), at the above address.

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The EPA will routinely deny any evidentiary hearing request which is postmarked later than the 33rd day from the date of this cover letter. Also, the EPA will routinely deny any evidentiary hearing request which raises only legal issues. Any denial of a request for an evidentiary hearing may be appealed to the Administrator within 30 days from the date of notice of the denial. The requestor must exhaust all administrative review before seeking judicial review.

If you have any questions regarding the procedures outlined above, please call Doug Liden at (415) 744-1921 or Pat Young at (415) 744-1591.

Sincerely,

Terry Oda, Chief
Permits Issuance Section

Enclosure

cc:
Pati Faiai, ASEPA
Norman Lovelace, USEPA
Henry Sesepasara, Dep. of Marine and Wildlife Resources
Norman Wei, Star-Kist, Inc.
Jim Cox, VCS Samoa Packing Co.
Steve Costa, CH2MHill

SYMBOL	W-5-1	E-4	E-4	W-1		
SURNAME	DLiden				for HS	
DATE	9/22/92	9/23/92	9/25/92	9/24/92		

U.S. EPA CONCURRENCES OFFICIAL FILE COPY

ROUTING AND TRANSMITTAL SLIP

Date 9/22/92

TO: (Name, office symbol, room number, building, Agency/Post)	Initials	Date
1. ~~Pat Young~~ Pat Young / ~~M. Lee~~ / N. Lovelace	NL	
2. TERRY ODA for sig	JO	9/23
3. ~~BILL PIERCE~~	WP	9/25
4. ~~HARRY SECANDARIA FOR SIG~~		
5. CECILIA LAUDE FOR MAILING		

	Action		File		Note and Return
	Approval		For Clearance		Per Conversation
	As Requested		For Correction		Prepare Reply
	Circulate		For Your Information		See Me
	Comment		Investigate		Signature
	Coordination		Justify		

REMARKS CANNERY PERMITS - STAR-KIST
Cecilia MAKE SURE THEY ARE DATED BEFORE SENDING. (1ST PAGE OF PERMIT)

Harry — These are excellent permits - significant issues are addressed nutrient loads, O&M of treat plant, poll prev. Toxicity isn't apparent, which is reasonable to expect, so permit requires monitoring only.

ECORD of approvals, concurrences, disposals, es, and similar actions

cy/Post)	Room No.—Bldg. W-5-1
	Phone No. 1921

OPTIONAL FORM 41 (Rev. 7-76)
Prescribed by GSA
FPMR (41 CFR) 101-11.206

~~Bill~~ - WP
Here they are. 2 excellent and comprehensive Cannery permits. Covers effluent and extensive water quality monitoring and studies; pollution prevention, BMP's, etc.

JMO 9/23

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
75 Hawthorne Street
San Francisco, Ca. 94105-3901

24 SEP 1992

In Reply
Refer To: W-5-1
Certified Mail:

Maurice Callaghan
Star-Kist Samoa, Inc.
P.O. Box 368
Pago Pago, Tutuila
American Samoa 96799

Dear Mr. Callaghan:

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During the public comment period, several comments were submitted to EPA on the proposed draft permits. Enclosed is EPA's response to these comments. Please see the enclosed statement "Response to Comments."

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Sincerely,

Terry Oda, Chief
Permits Issuance Section

Enclosure

cc:
Pati Faiai, ASEPA
Norman Lovelace, USEPA
Henry Sesepasara, Dep. of Marine and Wildlife Resources
Norman Wei, Star-Kist, Inc.
Jim Cox, VCS Samoa Packing Co.
Steve Costa, CH2MHill

Response to Comments

VCS Samoa Packing Company
NPDES Permit No. AS0000027

Star Kist Samoa, Inc.
NPDES Permit No. AS0000019

Comments on the draft permits for these facilities were received from the dischargers through their consultant, CH2MHill, on April 22, 1992. These comments pertained to both permits and will be addressed together. One comment was also received from Department of Marine and Wildlife Resources. The response to that comment is found under Section F.

Section A. Effluent Limits and Monitoring Requirements

1. Monitoring for Total Nitrogen (TN) and Total Phosphorus (TP)

   The canneries' comments related to the monitoring schedule in the draft permit for monthly averages for TN and TP which provided the option of counting non-production day discharges by requiring seven consecutive days of monitoring (six days following the monitoring of a non-production day). It was suggested that this approach was overly conservative, expensive, and that a weighted average procedure be used in calculating production and non-production day loadings for monthly averages.

   Response: The method proposed in the draft permit for monitoring and calculating monthly averages for TN and TP is straight-forward (i.e. all sampling days are totaled and averaged and does not use weighted averages) and yet still allows the canneries to account for non-production days in order to lower their monthly average if necessary. Thus, the monitoring requirement will stand as is.

   Should the canneries consistently comply with their TN and TP limits and should the monitoring data show that the discharge is not significantly affecting the water quality in the harbor or causing receiving water quality violations, the permit may be modified to incorporate a "weighted average" method of measuring compliance with the limitations. The numerical limitations themselves shall not be made any less stringent.

2. Monitoring Requirements for Total Residual Chlorine (TRC)

   The canneries commented that the TRC limit did not account for quenching effects on TRC as it travels through the outfall. They requested that procedures be developed to test these effects and the results used to determine if a

compliance problem with TRC standards in the receiving waters exists. Additionally, guidance was requested from USEPA on acceptable analytical procedures and instrumentation for measuring such low levels of TRC.

Response: The USEPA's Environmental Support Branch (ESB) was consulted and based on their recommendation, the TRC monitoring requirement has been removed from the permit. In ESB's opinion, the quenching effect and high organic content of the effluent, as well as the salinity of the effluent and receiving waters, would likely result in a negligible amount of TRC discharged into the harbor. This permit may be reopened for the inclusion of such a monitoring requirement and a limitation should an approved EPA method be developed and conditions indicate that TRC is present in the effluent.

3. Monitoring Requirements for pH

As requested, the condition regarding monitoring requirements for pH which was included in the previous permits will be retained in the present permits.

4. Total Nitrogen (TN) and Total Phosphorus (TP) Combined Loading

The canneries requested that total allowable loading for TN and TP in the mixing zone be used as the criterion for determining violations of permit conditions for these parameters. Under such an arrangement there would be no violation unless the total loading for both canneries was exceeded.

Response. Although the canneries share a joint outfall and zone of mixing, each cannery is being issued its own NPDES permit, and thus is responsible for meeting the limitations described in its individual permit. For enforcement purposes, each permit must stand as an independent and enforceable contract. The "bubble approach", was employed in these permits by allowing the canneries to effectively determine their own limitations by allocating the total end-of-pipe limitations for nutrients.

Section B. Discharge Specifications

The canneries expressed concern that the receiving water monitoring discharge "shall not reveal" specifications for certain parameters was vague, and that the permits implied that the canneries would be held responsible for violations of water quality if the monitoring revealed any of the listed items, without consideration of other pollutant sources such as nonpoint sources, stream runoff, etc.

Response. While we agree that the canneries should not be held responsible for ambient excursions above water quality standards that are in no way linked to the canneries' discharge, the canneries are responsible for providing proof that their discharges are not responsible for such excursions. Such clarifying language has been added to the permit.

Section C. Protected and Prohibited Uses

The canneries felt that the permit language should specify that this section applied to their discharge as they should not be held responsible for other parties engaging in prohibited uses or compromising the protected uses of the harbor.

Response. The canneries are not held responsible for another party engaging in prohibited uses. Such language clarifying the canneries' responsibilities has been added.

Section D. Toxicity

The canneries requested that the language of the first sentence of Part 3 (Toxicity Reopener) to modified to add the word "materially", so that it would read, "Should any of the monitoring indicate that the discharge causes, has reasonable potential to cause, or contributes **materially** to an excursion above a water quality criteria,...."

Response. The language in the proposed permit is a direct implementation of American Samoa's water quality standards. The language shall remain as stated.

Section E. Receiving Water Quality Monitoring Program

The canneries requested that the permit include the possibility of modification/elimination of monitoring stations, with appropriate review, after the first year of monitoring. They felt that if the first year of monitoring indicated that water quality standards were being met throughout the harbor, then only those stations in and at the edge of the mixing zone would be needed to monitor compliance.

Response. The number and location of stations is important to assess the cause of a water quality exceedance and to assess farfield dilution. Therefore, a greater number of stations is beneficial both to the regulators and to the canneries. The number and location of sampling stations shall remain as stated.

Section F. Dye or Tracer Studies

The canneries suggested that the dates for these studies be determined during development of the study plans so that the studies would be conducted at the appropriate time, during the two distinct oceanographic seasons. They also suggested that the second study requirement be contingent upon an assessment of the first study's results.

Response. We agree with the rationale behind determining the date of the dye study during the development of the study plan. However, the date must be approved by ASEPA and USEPA and is to occur no later than six months after the issuance of this permit.

A second study shall be required regardless of the results of the first study. The purpose of these studies is to evaluate the two extreme conditions (i.e. no current and a current towards the coral reef.) One study would not be enough to ascertain two such conditions.

Department of Marine and Wildlife Resources recommended that the "new" water quality sampling stations be determined after the results of dye/tracer studies are obtained because "the results may show differential plume dispersal which would be useful in sample site selection."

Response: The purpose of the new sites are to determine compliance with the water quality standards at the applicable locations (either within or at the boundary of the mixing zone). The "new" sites are therefore established at those locations. The permit does include a reopener clause for the inclusion of additional monitoring stations should the results of any of the studies or monitoring program warrant it.

Section G. Sediment Monitoring

The canneries felt that yearly sediment sample studies may not be necessary and suggested that the results of the first two years of monitoring be assessed and the necessity of annual sampling be determined at that time.

Response. We agree with this suggestion and the permit language has be revised accordingly.

Section H. Eutrophication Study

As per the canneries' comment, the phrase "phytoplankton species" has been clarified to "phytoplankton **communities**".

Section I. Coral Reef Survey

The canneries suggested less frequent coral reef surveys be undertaken in order to detect meaningful differences and that a revised study plan should be made after the first survey, which would specify the timing of the subsequent surveys.

Response. The intent of this requirement was to provide baseline data and two subsequent surveys for comparison over the period of the permits (5 years). Thus, the first survey should be done as stated (within the first year of permit issuance) and the next study should be performed within two years of the first study and biannually thereafter.

Section J. Verification of Model Predictions

The canneries' suggestion requiring a study plan be approved to verify model predictions will be incorporated in the permit. This will ensure coordination between all parties and that all needs are met meaningfully.

STATEMENT OF BASIS

Star-Kist Samoa, Inc.
P.O. Box 368
Pago Pago, Tutuila
American Samoa 96799

I. Description of Facility

The applicant operates a tuna cannery located on Tutuila Island, American Samoa. Process discharges from the cannery enter Pago Pago Harbor at 14 deg. 17 min. 01 sec. South latitude and 170 deg. 40 min. 02 sec. West longitude. The cannery receives whole tuna which is processed into canned tuna and dried fish meal. Waste streams from this operation consist mainly of fish waste, fresh water, and sea water which are treated by Dissolved Air Floatation process. The DAF sludge and the high strength waste (pre-cooker condensate, press juice, fish meal plant wash water, etc.) are barged to sea for disposal. Approximately 402 tons of fish are processed per day. The resulting discharge to Pago Pago Harbor has been a maximum monthly average of 1.68 MGD and a long-term average of 1.40 MGD.

Section 24.0206 (c)(2) of the American Samoa water quality standards states that "Pago Pago Harbor has been designated by the American Samoa Government to be developed into a transhipment center for the South Pacific. Recognizing its unique position as an embayment where water quality has been degraded from the natural condition, the EQC has established a separate set of standards for Pago Pago Harbor." A trienniel review of American Samoa water quality standards was begun in 1987 and the results of that review were adopted in 1990. Section 24.0207 (c) specifies the standards that apply specifically to Pago Pago Harbor.

Administrative orders were issued by EPA in June 1990 to both Star-Kist Samoa and Samoa Packing Company for violations of water quality-based effluent limits of their respective 1987 NPDES permits. The orders established interim effluent limits and a schedule for compliance with water quality-based effluent limits by March 7, 1992. Concurrently, the American Samoa Government (ASG) also issued consent decrees mirroring EPA's compliance orders, with stipulated penalties for failure to meet interim effluent limits and compliance schedule deadlines.

Both canneries were required by the orders and consent decrees to segregate high strength waste streams and dispose of these wastes and DAF sludge at a designated ocean disposal site beginning in August 1990. Feasibilility studies were also required to be conducted by both canneries for alternatives by which they could achieve compliance with their NPDES permit effluent limits and ASG water quality standards for their remaining discharge into the harbor. The canneries chose to construct a 7,000-foot joint outfall which extends into the outer harbor. The new outfall will be jointly operated by both canneries for discharge of their effluent.

The two canneries also applied for a mixing zone consistent with the requirements set forth in Section 24.0208 of the American Samoa Water Quality Standards. The mixing zone requested extends approximately 1300 feet in radius from the discharge point. The mixing zone was approved by American Samoa Environmental Quality Commission (ASEQC) on November 27, 1991.

Discharge in compliance with this NPDES permit should ensure achievement of all applicable water quality standards. These standards are designed to prevent degradation of water quality. Therefore, compliance with this NPDES permit should prevent any "unreasonable degradation" of the marine environment, and in accordance with section 403(c) of the Clean Water Act, an NPDES permit may be issued.

II. Effluent Limitations

Discharges from fish processing facilities are not subject to any effective EPA effluent limitations guidelines. Therefore, permit requirements were established using best professional judgment and specific water quality standards in order to ensure protection of the beneficial uses of the receiving waters.

A. pH

The Best Practicable Technology (BPT) limit for pH is "within the range of 6.0 to 9.0." However, water quality standards listed under 24.0207 (c)(7) state: "The pH range shall be 6.5 to 8.6 and be within 0.2 pH units of that which would occur naturally." Because the water quality standards are more stringent, and because the mixing zone application states that "other water quality standards (beside total nitrogen, total phosphorus and temperature) will be met within the zone of mixing (e.g. pH, fecal coliform)..." the more stringent standard will apply as the limit.

B. Temperature

Water quality standards specify a temperature limit of 85°

F which is to apply to water at the edge of the mixing zone. It is the best professional judgement of this permit writer, that the water will cool at least 10° from the point it enters the discharge pipe to the edge of the mixing zone. Furthermore, modeling studies were performed by the canneries' consultant assuming the effluent was 85° F and 90° F with no significant difference in dilution rates. Therefore, the permit limit contains a 90° F monthly average and a 95° F daily maximum.

C. Oil and Grease

40 CFR 408.140 sets the BPT limit for oil and grease at a daily maximum of 2.1 lbs/1000 lbs of seafood processed and a monthly average of 0.84 lbs/1000 lbs of seafood processed. Limits for oil and grease were calculated by multiplying the BPT limits stated above, by the average daily production level of 402 tons seafood processed/day. Thus the daily maximum for oil and grease is set at 1,688 lbs/day and the monthly average at 675 lbs/day.

D. Total Suspended Solids

Limits were set for Total Suspended Solids (TSS) using the same rationale detailed in Section C (Oil and Grease). 40 CFR 408.140 sets the BPT limit for TSS at a daily maximum of 8.3 lbs/1000 lbs of seafood processed and a monthly average of 3.3 lbs/1000 lbs of seafood processed. Limits for TSS were calculated by multiplying the BPT limits stated above, by the average daily production level of 402 tons seafood processed/day. Thus the daily maximum for TSS is set at 6,673 lbs/day and the monthly average at 2,653 lbs/day.

E. Total Nitrogen

The mixing zone analysis performed by the canneries' consultant, CH2MHill, indicates that the mixing zone can assimilate 60,000 lbs. of total nitrogen per month. Assuming a 30-day month, an average of 2,000 lbs. of total nitrogen/day can be discharged between the two canneries. The two canneries have agreed between themselves to each assume a portion of this average. Star-Kist will assume 1,200 lbs/day as a monthly average limit for total nitrogen.

The canneries are required to sample twice/week for total nitrogen on production days. Averaging only these samples will yield a number that assumes weekend values are equal to production days. The canneries have claimed that they discharge significantly less nutrients on the weekends. Therefore, should the permittee wish to monitor the effluent on a non-production day(s), the permittee must monitor for the six consecutive days following the non-

production day on which the first sample was taken. The average of all samples taken during that month will determine compliance with the "monthly average". This requirement will ensure that the monitoring is representative of the discharge, and if the canneries are in compliance with their monthly average limits, the mixing zone's capacity of 60,000 lbs/month of total nitrogen will not be exceeded.

StarKist's daily maximum effluent limit for total nitrogen was 2,440 lbs/day as stated in EPA's letter of October 30, 1991, amending its Administrative Order. Samoa Packing Company's daily maximum limit was 1,595 lbs/day, as set in EPA's Administrative Order of June 18, 1990. These limits were initially to be retained in the new permits. However, the canneries expressed a desire to allocate the total of 4,035 lbs/day between themselves. Since the combined number is the same, the canneries were permitted to do so. StarKist agreed to accept a limit of 2,100 lbs/day, and Samoa Packing Company agreed to a limit of 1,935 lbs/day.

The canneries have claimed that total nitrogen and total phosphorus levels in the effluent have no significant correlation to production levels, and their monitoring data supports such a statement (See Appendix B, "Technical Memorandum for Site-Specific Zone of Mixing Determination for Joint Cannery Outfall Project", CH2M Hill, August 26, 1991). Therefore these effluents limits for total nitrogen and total phosphorus do not limit the canneries' production levels.

F. Total Phosphorus

Limits were set for total phosphorus using the same rationale as that detailed in Section E (Total Nitrogen). The total assimilative capacity of the zone of mixing was caculated by CH2MHill to be a monthly average of 400 lbs. of total phosphorus/day. This total was divided between the two canneries and StarKist has agreed to assume a montly average limit of 192 lbs. of total phophorus/day.

The combined total of daily maximum limits set in the Administrative Orders was 580 lbs. of total phosphorus/day and will be retained in the current permits. The canneries agreed to reapportion their share of the total. StarKist will assume a daily maximum of 309 lbs. of total phosphorus/day.

G. Toxicity

Section 24.0208 (b)(5) of the American Samoa water quality standards states, "Those water quality parameters which are subject to zone of mixing are chlorophyll a, light

penetration depth, nutrients, pH, temperature, turbidity, and fecal coliform. Determination of effluent limits for toxic substances must comply with 24.0207 (a) (8)(A)-(E) and 24.0207 (a)(9)..."

Section 24.0207 (a)(8)(A) states, "All effluents containing materials attributable to the activities of man shall be considered harmful and not permissible until acceptable bioassay tests have shown otherwise."

Section 24.0207 (a)(8)(C) states, "The survival of test organisms in discharge waters shall not be less than that for water from the same water body in areas unaffected by sewage, industrial wastes, or other activities of man..."

In its permit application, Star-Kist Samoa reported that "No toxic pollutants or hazardous substances present in discharge from existing outfall 001 or from proposed joint cannery outfall." However, the reported level of ammonia in the effluent as indicated in the permit application greatly exceeds national criteria for acute toxicity in marine waters at a pH above 6.7. The average pH of the outer harbor is 8.5. Also, reported levels of zinc and lead exceed the acute criteria, and mercury, cadmium and chromium exceed chronic criteria. Numerical limitations and/or monitoring requirements have been placed in this permit on all the known toxic constituents of the effluent. However, since the degree of toxicity of the whole effluent remains unknown, a monitoring requirement for chronic toxicity has been included in this permit.

The water quality standards state at Section 24.0207 (a)(8)(C), "As a minimum, compliance with the standard as stated in the previous sentence shall be evaluated with a 96-hour bioassay or short-term method for estimating chronic toxicity."

The permittee is required to conduct a semi-annual 96-hr static renewal acute bioassays on composite effluent samples using the white shrimp, Penaeus vannamei postlarvae. The white shrimp is a warm-water species that is currently being used in acute bioassays performed in labs in Hawaii.

The permittee is also required to conduct a priority pollutant scan yearly in conjunction with the bioassay.

H. Ammonia

The canneries have requested that they be exempt from the acute toxicity requirement within a mixing zone. The ASEQC approved this request. Little technical guidance exists, however, to define a mixing zone in marine waters that prevents lethality to passing organisms. The

technical support document for the canneries' zone of mixing application cites a few alternatives, but none seems appropriate to this situation.

CH2MHill proposed to use an 80:1 dilution. This dilution, according to their modeling, occurs 30 seconds after the effluent leaves the pipe. The area associated with an 80:1 dilution is approximately 12 meters. They claim that such a dilution will ensure no lethality to passing organisms.

EPA National Water Quality Criteria for un-ionized ammonia is 0.233 mg/l for marine waters. This value is the Criterion Maximum Concentration (CMC). Multiplying this 0.233 by 80 yields 18.64 mg/l. Referencing the manual "Tables of the fraction of Ammonia in the Undissociated form... for ph 6 to 9, temperature 0-30°C, TDS 0-300 mg/l and salinity 5-35 g/kg," by H.P. Skarheim of the University of California, Berkeley, College of Engineering, and using a pH value of 8.5, temperature of 29 °C, and salinity 35 g/kg (all characteristics of harbor waters), the un-ionized fraction of ammonia is 14 percent. Therefore the ammonia limit for the canneries is established at 133 mg/l.

I. Metals

Significant initial dilution should ensure no toxicity from metals within the zone of mixing. However, because metal readings in Pago Pago Harbor have historically been high, the canneries shall continue to monitor annually for cadmium, chromium, lead, mercury, and zinc. Under the Pollution Prevention Program, the canneries are also required to conduct a study in order to determine the source of the metals in the effluent and to examine ways of reducing those metals.

J. Total Residual Chlorine (TRC)

Section 24.0207(a)(12) states that total residual chlorine in discharge waters shall not exceed 20 ug/l. Table 3 in the application for a zone of mixing indicates that the canneries are able to meet the TRC standard at the end of the pipe. However, since the effluent has never been tested for TRC in support of such a statement, and since the canneries do chlorinate their process water, there is reasonable potential to believe the effluent may exceed the TRC standard. A limit and monitoring requirement has therefore been included in this permit.

Because the effluent has never been tested, the permit limit of 20 ug/l will not be effective until one year from the effective date of this permit. This will allow the permittee time to modify operations or install

dechlorination facilities if they are unable to meet the current limit.

K. Pago Pago Harbor Monitoring Program

Because the discharge point has been moved to a less degraded portion of the harbor, a monitoring program has been designed to assess the environmental impacts of the canneries' discharge on the entire harbor, and to ensure compliance with the water quality standards. Compliance with water quality standards for chlorophyll a, light penetration depth, and visible floating materials is to be determined throughout the mixing zone (at monitoring stations 8, 8a, 14-18). Compliance with turbidity, dissolved oxygen is to be determined outside the Zone of Initial Dilution (ZID) (at monitoring stations 8, 8a, 15-18). Compliance with the Total Phosphorus and Total Nitrogen and Temperature is to be determined outside the Zone of Mixing (ZOM) (at monitoring stations 15-18). The constituents of the program are as follows:

1. Quantitative Data

   Temperature, pH, dissolved oxygen, total suspended solids, light penetration, turbidity, salinity, chlorophyll a, total nitrogen, total phosphorus, and total ammonia are all measured to ensure compliance with numerical limits of the receiving water.

2. Dye or Tracer Studies

   Dye or tracer studies should provide useful information for better understanding the fate of the plume, which, according to CH2MHill's modeling, should remain submerged below 60 feet. The plan for conducting these studies and reporting the information shall be submitted by the canneries to the ASEPA and EPA for approval before the studies are performed.

3. Model Verification

   The permittee is required to verify the models used to predict the mixing zones using results of the dye studies, effluent monitoring data, and ambient water quality data.

4. Eutrophication Study

   Eutrophication of the harbor is of great concern because of the extremely high amounts of nutrients in the effluent. The study proposed shall examine algal-nutrient relationships of the harbor.

5. Sediment Monitoring

Sediment monitoring is conducted to determine the character of the sediments in relation to long-term high nutrient discharge by the canneries in the harbor and if harbor recovery will be affected by resuspension of the nutrients.

6. Coral Reef Survey

A coral reef marks one edge of the mixing zone. Because of its close proximity to the outfall, there may be effects on the local coral community. Possible effects should be analyzed through a survey that utilizes the coral reef survey performed in the 1991 Use Attainability Analysis as baseline data. The survey should be performed once after a year from the effective date of the permit and every two years thereafter. Should the survey reveal significant degradation of the coral community, subsequent analysis may be required in order to determine more accurately the causes of the degradation.

L. Wastewater Treatment System Evaluation

The permittee should be continuously seeking ways to improve the quality of its effluent. In order to foster that search, the permit includes a requirement to hire an independent consultant to examine the plant and provide a report on possible improvements. The permittee is then required to implement those improvements unless it can be shown, to the satisfaction of ASEPA and EPA, that the recommendations are economically infeasible or technically impossible.

The guidance in the permit for conducting this evaluation was derived from a study performed by CH2MHill on Samoa Packing Company's wastewater treatment system in June, 1991.

M. Pollution Prevention Program

Often the most significant way to reduce the amount of pollutants in the effluent is to stop them at the source. In developing a Pollution Prevention Program, the permittee must examine ways to ensure that a minimum amount of pollutants are entering the harbor as well as a minimum amount of wastewater. The pollution prevention program shall also examine ways to reduce the amount of oil illegally dumped in the harbor by tuna vessels. Finally, it shall include an analyses on the high metal concentrations in the effluent to determine the source(s) and ways to reduce current levels.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
75 Hawthorne Street
San Francisco, Ca. 94105-3901

24 MAR 1992

In Reply
Refer To: W-5-1

Maurice Callaghan
General Manager
Star-Kist Samoa, Inc.
P.O. Box 368
Pago Pago, American Samoa 96799

Dear Mr. Callaghan:

Enclosed is a copy of a public notice of the proposed National Pollutant Discharge Elimination System (NPDES) permit for your company:

Star-Kist Samoa, Inc.
NPDES Permit No. AS0000019

Also enclosed is a copy of the proposed permit. Comments on the proposed permit, or a request for a public hearing, may be submitted to this office at the above address within thirty (30) days following the date of the public notice (3-25-92). If the Regional Administrator finds a significant degree of public interest exists, a public hearing shall be held in accordance with 40 CFR 124.12. If no public hearing is held, the permits will be issued shortly after the expiration date of the 30-day comment period.

If you have any questions regarding the proposed permits, please contact Doug Liden at (415) 744-1921.

Sincerely,

Terry Oda, Chief
Permits Issuance Section

Enclosures

cc: Pati Faiai, Director, ASEPA
Steven Costa, CH2M Hill

Printed on Recycled Paper

Permit No. AS0000019

AUTHORIZATION TO DISCHARGE UNDER THE

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provision of the Federal Water Pollution Control Act, as amended (33 U.S.C. 1251 et seq.; the "Act"),

Star-Kist Samoa, Inc.
P.O. Box 368
Pago Pago, Tutuila
American Samoa 96799

is authorized to discharge tuna processing wastewater from the cannery located at Pago Pago, American Samoa from outfall Discharge Serial No. 001:

Latitude:	14 deg.	17 min.	01 sec.	S
Longitude:	170 deg.	40 min.	02 sec.	W

to receiving waters named: Pago Pago Harbor in accordance with the effluent limitations, monitoring requirements, and other conditions set forth in Sections A through G hereof.

This permit shall become effective on _____.

This permit and the authorization to discharge shall expire at midnight, _____.

Signed this _____ day of _____.

For the Regional Administrator

Harry Seraydarian
Director
Water Management Division

A. EFFLUENT LIMITS AND MONITORING REQUIREMENTS

1. During the period beginning with the effective date of this permit and lasting through the expiration date of this permit, the permittee is authorized to discharge from Outfall 001.

The effluent shall be sampled prior to its comingling with effluent from the other can.

Such discharges shall be limited and monitored by the permittee as specified below:[1]

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS		MONITORING REQUIREMENTS	
	30-DAY AVG.	DAILY MAX.	MEASUREMENT FREQUENCY	SAMPLE TYPE
FLOW (MGD)	--	2.9	CONTINUOUS	RECORDER
BIOCHEMICAL OGYGEN DEMAND (5-DAY)	[6]	[6]	TWICE/MONTH	COMPOSITE
SUSPENDED SOLIDS (lbs/day)	2653	6673	TWICE/WEEK	COMPOSITE
OIL AND GREASE (lbs/day)	675	1688	TWICE/WEEK	GRAB[2]
TOTAL PHOSPHORUS (lbs/day)	192	309	[3]	COMPOSITE
TOTAL NITROGEN (lbs/day)	1200	2100	[3]	COMPOSITE
ACUTE TOXICITY	--	[4]	ONCE/6 MONTHS	COMPOSITE
TOTAL AMMONIA (mg/l)	--	133	ONCE/WEEK	COMPOSITE
TEMPERATURE (°F)	90	95	CONTINUOUS	CONTINUOUS
TOTAL RESIDUAL CHLORINE (mg/l)	--	0.02[5]	ONCE/WEEK	GRAB
TOTAL CADMIUM (mg/l)	[6]	[6]	ONCE/6 MONTHS	COMPOSITE
TOTAL CHROMIUM (mg/l)	"	"	"	"
TOTAL LEAD (mg/l)	"	"	"	"
TOTAL MERCURY (mg/l)	"	"	"	"
TOTAL ZINC (mg/l)	"	"	"	"
pH	--	[7]	CONTINUOUS	CONTINUOUS

NOTES:

(1) Where discharge monitoring data is reported as "below detection limit", both the detection limit obtained and the analytical method used shall be included on the monthly discharge monitoring report (DMR).

(2) Each oil and grease sample shall consist of four individual grab samples ("sub-samples") which shall be taken at even intervals during each production period in which samples are taken. Each sub-sample shall be separately analyzed and the mean value of the four sub-samples, shall be reported for daily maximum and monthly average.

(3) Permittee is required to sample twice/week on production days. Should the permittee wish to monitor the effluent on a non-production day(s), the permittee must monitor for the six consecutive days following the non-production day on which the first sample was taken. The average of all samples taken during that month will determine compliance with the "monthly average".

(4) See Section D "Toxicity" for monitoring requirements.

(5) Permit limit is effective one year from the effective date of this permit. Monitoring requirements effective immediately. Analytical results for total residual chlorine below 0.05 mg/l may be reported as "Not Quantifiable." This permit may be modified to change this level of quantification if more information becomes available.

(6) No limit set at this time. Monitoring and reporting only.

(7) The pH is limited between 6.5 and 8.6 standard units.

B. DISCHARGE SPECIFICATIONS

Samples taken at monitoring stations 8, 8a, 14, 15, 16, 17 and 18 in the receiving water shall not reveal any of the following in accordance with American Samoa Water Quality Standards:

1. Chlorophyll a levels in excess of 1.0 ug/l;

2. Light penetration depth less than 65 feet;

3. Objectionable color, odor, or taste, either alone or in combinations, or in the biota;

4. Visible floating materials, grease, oil, scum, foam, and other floating material; and,

5. Materials that will produce visible turbidity or settle to form objectionable deposits.

Samples taken at monitoring stations 8, 8a, 15, 16, 17, 18 in the receiving water (those stations outside the zone of initial dilution (ZID)) shall not reveal any of the following in accordance with American Samoa Water Quality Standards:

1. Dissolved oxygen (DO) concentration less than 5.0 mg/L; or 70% saturation;

2. Turbidity in excess of 0.75 nephelometric turbidity units; and,

3. Toxicity to aquatic life.

Samples taken at monitoring stations 15, 16, 17, and 18 in the receiving water (those stations outside the zone of mixing (ZOM)) shall not reveal the any of the following in accordance with American Samoa Water Quality Standards:

1. A temperature more than 1.5 degrees Fahrenheit from conditions that would occur naturally;

2. A level of total nitrogen in excess of 200 ug/l; and,

3. A level of total phosphorous in excess of 30 ug/l.

C. PROTECTED AND PROHIBITED USES

1. The protected uses of Pago Pago Harbor are as follows:

   a. Recreational and subsistence fishing;
   b. Boat-launching ramps and designated mooring areas;
   c. Subsistence food gathering, e.g. shellfish harvesting;
   d. Aesthetic enjoyment;
   e. Whole and limited body-contact recreation, e.g. swimming, snorkeling, surfing and scuba diving.
   f. Support and propagation of marine life;
   g. Industrial water supply;
   h. Mari-culture development;
   i. Normal harbor activities; e.g. ship movements, docking, loading and unloading, marine railways and floating drydocks; and
   j. Scientific investigation.

2. Prohibited uses include but are not limited to:

   a. Dumping or discharge of solid waste;
   b. Animal pens over or adjacent to any shoreline;
   c. Dredging and filling activities, except when permitted by the American Samoa Environmental Quality Commission (ASEQC) in accordance with the Environmental Quality Act (Title 24, American Samoa Code); AND
   d. Radioactive waste discharges; and
   e. Discharge of oil sludge, oil refuse, fuel oil, or bilge water, or any other waste water from any vessel or unpermitted shoreside facility.

D. TOXICITY

1. Proposed Effluent Biomonitoring

Beginning 90 days after the effective date of this permit, the permittee shall conduct, or have a contract laboratory conduct, semi-annual 96-hr. static renewal acute bioassays on composite effluent samples according to the methods described in Methods for Measuring the Acute Toxicity of Effluents to Freshwater and Marine Organisms (Fourth Edition EPA/600/4-90/027) using the white shrimp, Penaeus vannamei postlarvae. Tests shall be conducted using a ≤ 0.5 dilution series (ie., 100%, 25%, 12.5%, 6.25%, 3.13%, 1.56%).

Use probit analysis to calculate the LC50 and 95% confidence intervals. Use Analysis of Variance and Dunnett's multiple comparison test to calculate the No Observed Effect Concentrations (NOECs). These results will be reported on the permittee's Discharge Monitoring Reports (DMR's).

2. Priority Pollutant Scan

The permittee shall have a priority pollutant scan of the effluent conducted concurrent with the bioassays required above. The results of shall be submitted to the USEPA and ASEPA within 4 months of the effective date of the permit and yearly thereafter.

3. Toxicity Reopener

Should any of the monitoring indicate that the discharge causes, has reasonable potential to cause, or contributes to an excursion above a water quality criteria, the permit may be reopened for the imposition of water quality-based limits and/or whole effluent toxicity limits. Also, this permit may be modified, in accordance with the requirements set forth at 40 CFR 122.44 and 124.14, to include appropriate conditions or limits to address demonstrated effluent toxicity, or to implement any EPA-approved new state water quality standards or testing methods applicable to effluent toxicity.

E. RECEIVING WATER QUALITY MONITORING PROGRAM

To determine compliance with water quality standards, the receiving water quality monitoring program must document water quality at the outfall, at areas near the zone of initial dilution (ZID) and zone of mixing (ZOM) boundaries, at areas beyond these zones where discharge impacts might reasonably be expected, and at reference/control areas. The permittee, cooperatively with Samoa Packing Co., shall perform or cause to be performed, water quality monitoring at stations along the shoreline and offshore at regular frequencies as detailed below.

Should any monitoring reveal, in the judgement of either ASEPA or EPA, that the water quality, coral reef, or overall biological health of the harbor is being impaired as a result of the new outfall discharge, either agency may at any time prohibit further discharge.

All water quality samples should be collected and processed according to the protocols found in EPA's guidance document entitled, Quality Assurance and Quality Control (QA/QC) for 301(h) Monitoring Programs: Guidance on Field and Laboratory Methods (EPA, 1987a). Monitoring reports shall be submitted to EPA on a quarterly basis.

Monitoring stations shall be designated and located as shown (also see Figures 1 and 2):

Offshore Station	Vicinity	Location	Coordinates Latitude	Longitude
5	Transition Zone			
6	Outer harbor	Central		
7	Outer harbor	East, South		
8	Outer harbor	East		
8a	Middle harbor	East		
9	Middle harbor	East		
9a	Middle harbor	East		
10	Middle harbor	West		
11	Inner harbor	Center, East		
11a	Inner harbor	Center, East		
12	Inner harbor	Center		
13	Inner harbor	Center, West		
14	Middle harbor	Diffuser		
15	Middle harbor	ZOM Edge, North		
16	Middle harbor	ZOM Edge, West		
17	Middle harbor	ZOM Edge, East		
18	Outer harbor	ZOM Edge, South		

It is recommended that the stations be located using the sextant angle resection positioning method or a positioning system which affords an equivalent degree of accuracy and precision. Other means may be used if, in the judgment of ASEPA and EPA Region 9, they are of sufficient accuracy and precision to allow reoccupation of the stations within plus or minus six (6) meters.

The following shall constitute the Water Quality Monitoring Program as shown:

Parameter	Units	Sample Stations	Sample Type	Frequency
Temperature	°F	all	grab	monthly
pH		"	"	"
Dissolved Oxygen	mg/l	"	"	"
Suspended Solids	mg/l	"	"	"
Light Penetration	ft	"	"	"
Turbidity	NTU	"	"	"
Salinity	ppt	"	"	"
Chlorophyll a	ug/l	"	"	"

Total Nitrogen	ug/l	"	"	"
Total Phosphorus	ug/l	"	"	"
Total Ammonia	ug/l	"	"	"

Measurements should be taken at three depths for each location: 1 meter above the bottom, 1 meter below the surface, and at mid-depth.

F. DYE OR TRACER STUDIES

Within one week of the effective date of this permit, the permittee shall submit a plan to the ASEPA and EPA to perform dye and/or tracer studies in order to better understand the fate of the effluent plume. The permittee shall perform these studies twice for one year (once during each of the two primary seasons of the year) and submit its findings 30 days after conducting each study. The first study shall be performed within a month after receiving approval from the ASEPA.

G. SEDIMENT MONITORING

Sediment monitoring is conducted to determine the character of the sediments in relation to long-term high nutrient discharge by the permittee in the harbor and if harbor recovery will be affected by resuspension of the nutrients.

The permittee, cooperatively with Samoa Packing Co., shall undertake a yearly sediment monitoring program in Pago Pago Harbor in order to assess the concentration of nutrient and organic components, the distribution of stored nutrients, the size of the nutrient reservoir and the rate of accumulation of nutrients. Seven sites shall be located within Pago Pago Harbor and analyzed for total nitrogen, total phosphorus, percent organics, percent solids, bulk density, oxidation-reduction potential and sulfides. Three sites shall be located in inner Pago Pago Harbor and four sites shall be located in the outer harbor. These sites and monitoring plan shall be submitted within three months of the effective date of the permit for approval by ASEPA and EPA. Thereafter, these sites shall be approved annually by the anniversary date of the effective date of the permit. A report of the sediment monitoring program findings shall be submitted to the ASEPA and EPA 90 days after completion of sampling.

H. EUTROPHICATION STUDY

The permittee cooperatively with Samoa Packing Co., shall complete a study in which a direct assessment of the algal-nutrient relationships in Pago Pago Harbor is obtained. This study shall include construction of algal-nutrient response curves for a range of nitrogen-to-phosphorus ratios, nitrogen and phosphorus levels, salinity levels, and phytoplankton species. This study is not intended to be exhaustive in nature, but to provide information on phytoplankton dynamics

in Pago Pago Harbor. The study may be partially completed utilizing data from past and future water quality and sediment montiroing programs and/or may be conducted in conjuunction with these programs as possible.

A proposed study design shall be submitted to ASEPA and EPA for approval within six months of the effective date of the permit. The study shall be completed and report submitted to ASEPA and EPA within one year of the effective date of the permit.

I. CORAL REEF SURVEY

Within six months of the effective date of this NPDES permit, the permittee, in cooperation with Samoa Packing Co., shall submit a field study design for approval by ASEPA and EPA Region 9 to assess the potential impacts of the discharge on the nearby coral reef. The study shall include coral reef transects which shall conform to locations found on Figure 4 in the USE ATTAINABLILITY AND SITE-SPECIFIC CRITERIA ANALYSES; PAGO PAGO HARBOR, AMERICAN SAMOA, FINAL REPORT (CH2M Hill, March 15, 1991). The intent of this annual survey is to detect significant differences, if any, from the database information found in the above-cited document. Videos shall be submitted to both the USEPA and ASEPA. Guidance for designing such surveys is provided in the "Design of 301(h) Monitoring Programs for Municipal Wastewater Discharges to Marine Waters," November 1982, EPA #430/0-82-010 (pages 70-71). In addition, the discharger should consult "Ecological Impacts of Sewage Discharges on Coral Reef Communities," September 1983, EPA #430/9-83-010, for further information. The study shall be conducted within one year of the effective date of this permit and every two years thereafter.

J. VERIFICATION OF MODELING PREDICTIONS

Within three months after both dye studies have been completed, the permittee, cooperatively with Samoa Packing Co., shall utilize the results from the monitoring data and from the dye studies to verify the models used in the determination of the mixing zones (the 30-second dilution zone, the ZID, and the ZOM). A report summarizing renewed predictions of dilution rates and the size, location, and movement of the plume based on the calibrated models shall be submitted to the USEPA and ASEPA. Also, through the use of an appropriate model and one year's worth of ambient data, the permittee shall examine the effects of BOD_5 in the effluent on Dissolved Oxygen (DO) in the receiving water.

K. WASTEWATER TREATMENT SYSTEM EVALUATION

The permittee shall retain an independent consultant(s) to conduct a complete diagnostic evaluation of the wastewater treatment system. The purpose of the evaluation is to review

current plant operations and equipment and to identify possible modifications in order to decrease pollutant loads, specifically of nitrogen and phosphorus, to the harbor.

The evaluation shall identify all the components of the wastewater treatment system. Nitrogen, phosphorus, total suspended solids, oil and grease loadings from each waste stream of the Dissolved Air Flotation (DAF) influent (thaw-water, spray-cooling, plant-washdown) shall be determined. Methods for reducing the amount of wastewater and the pollutant loadings of the components of the DAF influent shall be examined.

The DAF equipment shall be reviewed to determine its effectiveness. The report should examine the working order of the equipment and the existing system controls. The report shall compare the design parameters of the DAF system with the average and maximum operating values for air-to-solids ratio (lb air:lb solids), solids loading ($lb/ft_2/hr$), and hydraulic loading (gpm/ft^2).

Current chemical treatment shall be analyzed to determine effective dosages. Jar and pilot DAF chemical coagulating testing shall be performed using at least three coagulants. Reduction in nitrogen and phosphorous, and total suspended solids shall be reported for each chemical tested and compared to current treatment.

In conclusion, the report shall list in order of importance all recommended improvements to the system, and estimate the cost of each improvement.

This study shall be performed and a report submitted to the ASEPA, and the EPA within one year of the effective date of this permit and again by the expiration date of this permit. The permittee shall submit for approval by ASEPA and EPA, within sixty days of completing the report, a schedule for implementing the recommended improvements. Should the permittee view some of the improvements economically infeasible or technically impossible, the report should substantiate those views.

If such a study has been performed during the year preceding the effective date of this permit, the permittee is not required to have the first study performed. The permittee must, however submit an implementation schedule within sixty days of the effective date of this permit. One year from the effective date of this permit, and annually thereafter, a report shall be submitted documenting the progress made in implementing these recommendations.

L. POLLUTION PREVENTION PROGRAM

1. Within six months of the effective date of this permit, the permittee shall develop and implement a Pollution Prevention Program. The purpose of the program is to evaluate and implement methods of reducing or eliminating

pollutants listed under section A of this permit from the outfall, stormwater drain(s), plant-site runoff, sludge disposal and fishing vessels. A component of this plan will be a water conservation program.

2. The permittee shall review all facility components or systems (including storage areas; in-plant transfer, process and handling areas; loading and unloading operations; and sludge and waste disposal areas) where these pollutants are generated, stored or handled to evaluate methods for reducing the release of these pollutants to the harbor. In performing such an evaluation, the permittee shall consider ways of preventing fish scraps, oil and grease, etc., from entering the wastewater streams and shall consider typical industry practices such as employee training, inspections and records, preventive maintenance, and good housekeeping. In addition, the permittee may consider structural measures (such as secondary containment devices) where appropriate.

3. The permittee shall retain an independent consultant(s) to determine the source of the high levels of metals (Cadmium, Chromium, Lead, Mercury, and Zinc) in the cannery's effluent, and shall examine methods to reduce the current levels. Such an analyis shall be submitted to the ASEPA and USEPA for approval within six months of the effective date of this permit.

4. The Pollution Prevention Program shall also evaluate ways of preventing fishing vessels from discharging engine oil into the harbor. Such a plan shall explore options such as accepting used oil for burning in the cannery's boilers or for recycling, issuing a multi-lingual statement to each fishing vessel outlining the regulations against illegal dumping, and establishing a company policy that would prohibit the canneries from purchasing tuna from any vessel found responsible for discharging oil.

5. The Pollution Prevention Program shall be documented in narrative form and shall include any necessary pilot plans, drawings or maps. Other documents already prepared for the facility such as a Safety Manual or a Spill Prevention, Control and Countermeasure (SPCC) plan may be used as part of the program and may be incorporated by reference. The Pollution Prevention plan shall be submitted to ASEPA and EPA within six months of the effective date of this permit and a copy shall be maintained at the facility and annual reports submitted documenting program progress.

M. DEFINITIONS

1. "Ambient conditions" means the existing conditions in the surrounding waters not influenced by the discharger's effluent.

2. "Bypass" means the intentional diversion of waste streams from any portion of a treatment facility whose operation is necessary to maintain compliance with the terms and conditions of this permit.

3. "Whole-effluent toxicity" is the aggregate toxic effect of an effluent measured directly with a "toxicity test".

4. "Composite sample" means, for flow rate measurements, the arithmetic mean of no fewer than eight individual measurements taken at equal intervals for 24 hours or for the duration of the discharge, whichever is shorter.

   "Composite sample" means, for other than flow rate measurement,

   a. A combination of at least eight individual portions obtained at equal time intervals for 24 hours, or the duration of the discharge, whichever is shorter. The volume of each individual portion shall be directly proportional to the discharge flow rate at the time of sampling.

   OR

   b. A combination of at least eight individual portions of equal volume obtained over a 24-hour period. The time interval will vary such that the volume of wastewater discharged between samplings remains constant.

   The compositing period shall equal the specified sampling period, or 24 hours, if no period is specified.

5. "Daily discharge" means:

   a. For flow rate measurement, the average flow rate measured during a calendar day or during any 24-hour period reasonably representative of the calendar day for purposes of sampling.

   b. For pollutant measurements, the concentration or mass emission rate measured during a calendar day or during any 24-hour period reasonably representative of the calendar day for purposes of sampling.

6. "Daily maximum" limit means the maximum acceptable "daily discharge". For pollutant measurements, unless otherwise specified, the results to be compared to the "daily maximum" limit are based on "composite samples."

7. "Duly authorized representative" is one whose:

   a. Authorization is made in writing by a principal executive officer or ranking elected official;

   b. Authorization specifies either an individual or a position having responsibility for the overall

operation of the regulated facility or activity, such as the position of plant manager, operator of a well or a well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company. (A duly authorized representative may thus be either a named individual or any individual occupying a named position.); and

c. Written authorization is submitted to the ASEPA and EPA. If an authorization becomes no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements must be submitted to ASEPA and EPA prior to or together with any reports, information, or other applications to be signed by an authorized representative.

8. "Grab sample" is defined as any individual sample collected in a short period of time not exceeding 15 minutes. "Grab samples" shall be collected during normal peak loading conditions for the parameter of interest, which may or may not be during hydraulic peaks. It is used primarily in determining compliance with "daily maximum" limits.

9. "Hazardous substance" means any substance designated under 40 CFR 116 pursuant to Section 311 of the Clean Water Act.

10. "Heavy metals" are, for the purposes of this permit, arsenic, cadmium, chromium, copper, lead, mercury, nickel, silver, and zinc.

11. "Indirect discharger" means a non-domestic discharger introducing pollutants into a publicly owned treatment and disposal system.

12. "Initial dilution" is the process which results in the rapid and irreversible turbulent mixing of wastewater with ocean water around the point of discharge.

    For a submerged buoyant discharge, characteristics of most municipal wastes that are released from the submarine outfalls, the momentum of the discharge and its initial buoyancy act together to produce turbulent mixing. Initial dilution in this case is completed when the diluting wastewater ceases to rise in the water column and first begins to spread horizontally.

    Numerically, initial dilution is expressed as the ratio of the volume of discharged effluent plus ambient water entrained during the process of initial dilution to the volume of discharged effluent.

13. "Mass emission rate" is obtained from the following

calculations for any calendar day:

$$\text{Mass emission rate (lb/day)} = 8.345/N \sum_{i=1}^{N} Qi\ Ci$$

$$\text{Mass emission rate (kg/day)} = 3.785/N \sum_{i=1}^{N} Qi\ Ci$$

in which 'N' is the number of samples analyzed in any calendar day. 'Qi' and 'Ci' are the flow rate (MGD) and the concentration (mg/L), respectively, which are associated with each of the 'N' grab samples which may be taken in any calendar day. If a composite sample is taken, 'Ci' is the concentration measured in the composite sample and 'Qi' is the average flow rate occurring during the period over which samples are composited.

The daily concentration of all constituents shall be determined from the flow-weighted average of the same constituents in the combined waste stream as follows:

$$\text{Daily concentration} = 1/Qt \sum_{i=1}^{N} Qi\ Ci$$

in which 'N' is the number of component waste streams. 'Qi' and 'Ci' are the flow rate (MGD) and the constituent concentration (mg/L), respectively, which are associated with each of the 'N' waste streams. 'Qt' is the total flow rate of the combined waste streams.

14. "Monthly average" is the arithmetic mean of daily concentrations, or of daily "mass emission rates", over the specified monthly period:

$$\text{Average} = 1/N \sum_{i=1}^{N} Xi$$

in which 'N' is the number of days samples were analyzed during the period and 'Xi' is either the constituent concentration (mg/L) or mass emission rate (kg/day or lb/day) for each sampled day.

15. "100-year frequency flood" means a flood of unusually large magnitude and which is characterized by its infrequent occurrence.

16. "Open coastal waters" means marine waters bounded by 100 fathom (183 m; 600 ft) depth contour and the shoreline excluding bays named in section 24.0206(c)(2)-(4) of the American Samoa water quality standards.

17. "Overflow" means the intentional or unintentional diversion of flow from the collection and transport systems, including the pumping facilities.

18. "Pesticides" are, for purposes of this permit, those six constituents referred to in 40 CFR 125.58(m) (demeton, guthion, malathion, mirex, methoxychlor, and parathion).

19. "Pollutant-free wastewater" means infiltration and inflow, cooling waters, and condensates which are essentially free of pollutants.

20. "Priority pollutants" are those constituents referred to in 40 CFR 401.15 and listed in the EPA NPDES Application Form 2C, pp. V-3 through V-9.

21. "Severe property damage" means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a "bypass" or "overflow." It does not mean economic loss by delays in production.

22. "Sludge" means the solid, semi-liquid suspension of solids, residues, screenings, grit, scum and precipitates separated from, or created in wastewater by the unit processes of a treatment system. It also includes, but is not limited to, all supernatant, filtrate, centrate, decantate, and thickener overflow/underflow in the solids handling parts of the wastewater treatment system.

23. "Toxic pollutant" means any pollutant listed as toxic under Section 307(a)(1) of the Clean Water Act or under 40 CFR 122, Appendix D. Violation of the maximum daily discharge limitations are subject to the 24-hour reporting requirement (section P.13.f).

24. "Toxicity test" is the means to determine the toxicity of a chemical or an effluent using living organisms. A toxicity test measures the degree of response of an exposed test organism to a specific chemical or effluent.

25. "Toxic unit chronic" is the reciprocal of the effluent dilution that causes no unacceptable effect on the test organisms by the end of the chronic exposure period.

26. "Upset" means any exceptional incident in which there is unintentional and temporary noncompliance with effluent limitations in the permit because of factors beyond the reasonable control of the discharger. It does not include noncompliance caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, careless or improper operation, or those problems the discharger should have foreseen.

27. "Waste", "waste discharge", "discharge of waste", and "discharge" are used interchangeably in this permit. The requirements of this permit are applicable to the entire volume of water, and the material therein, which is disposed of to marine waters.

28. "Weekly average" is the arithmetic mean of daily concentrations, or of daily mass emission rates, over the specified weekly period:

$$\text{Average} = 1/N \sum_{i=1}^{N} Xi$$

in which 'N' is the number of days samples were analyzed during the period and 'Xi' is either the constituent concentration (mg/L) or "mass emission rate" (kg/day or lb/day) for each sampled day.

29. "Zone of initial dilution" (ZID) means the region of initial mixing surrounding or adjacent to the end of the outfall pipe or diffuser ports, providing that the ZID may not be larger than allowed by mixing zone restrictions in applicable water quality standards [40 CFR 125.58(w)]. For purposes of designating monitoring stations, the region within a horizontal distance equal to a specified water depth (usually depth of outfall or average depth of diffuser) from any point of the diffuser or end of the outfall and the water column above and below that region, including the underlying seabed.

30. "Zone of mixing" (ZOM) means limited areas around outfalls and other facilities approved by ASEQC with the concurrence of EPA to allow for the initial dilution of waste discharges [American Samoa Water Quality Standards].

N. QUALITY ASSURANCE/QUALITY CONTROL

All waste material sampling procedures, analytical protocols, and quality assurance/quality control procedures shall be performed in accordance with guidelines specified by EPA. The following references shall be used by the permittee where appropriate:

1. EPA, 40 CFR 136, Guidelines Establishing Test Procedures for the Analysis of Pollutants Under the Clean Water Act;

2. Tetra Tech, Inc. 1985. Summary of the U.S. EPA-approved methods and other guidance for 301(h) monitoring variables. Final program document prepared for the Marine Operations Division, Office of Marine and Estuarine Protection, U.S. Environmental Protection Agency. EPA Contract No. 68-01-693. Tetra Tech, Inc., Bellevue, WA; and

3. Tetra Tech, Inc. 1986. Quality assurance and quality control guidance for 301(h) monitoring programs. Final program document prepared for the Marine Operations Division, Office of Marine and Estuarine Protection, U.S. Environmental Protection Agency. EPA Contract No. 68-01-3968. Tetra Tech, Inc., Bellevue, WA.

O. REPORTING

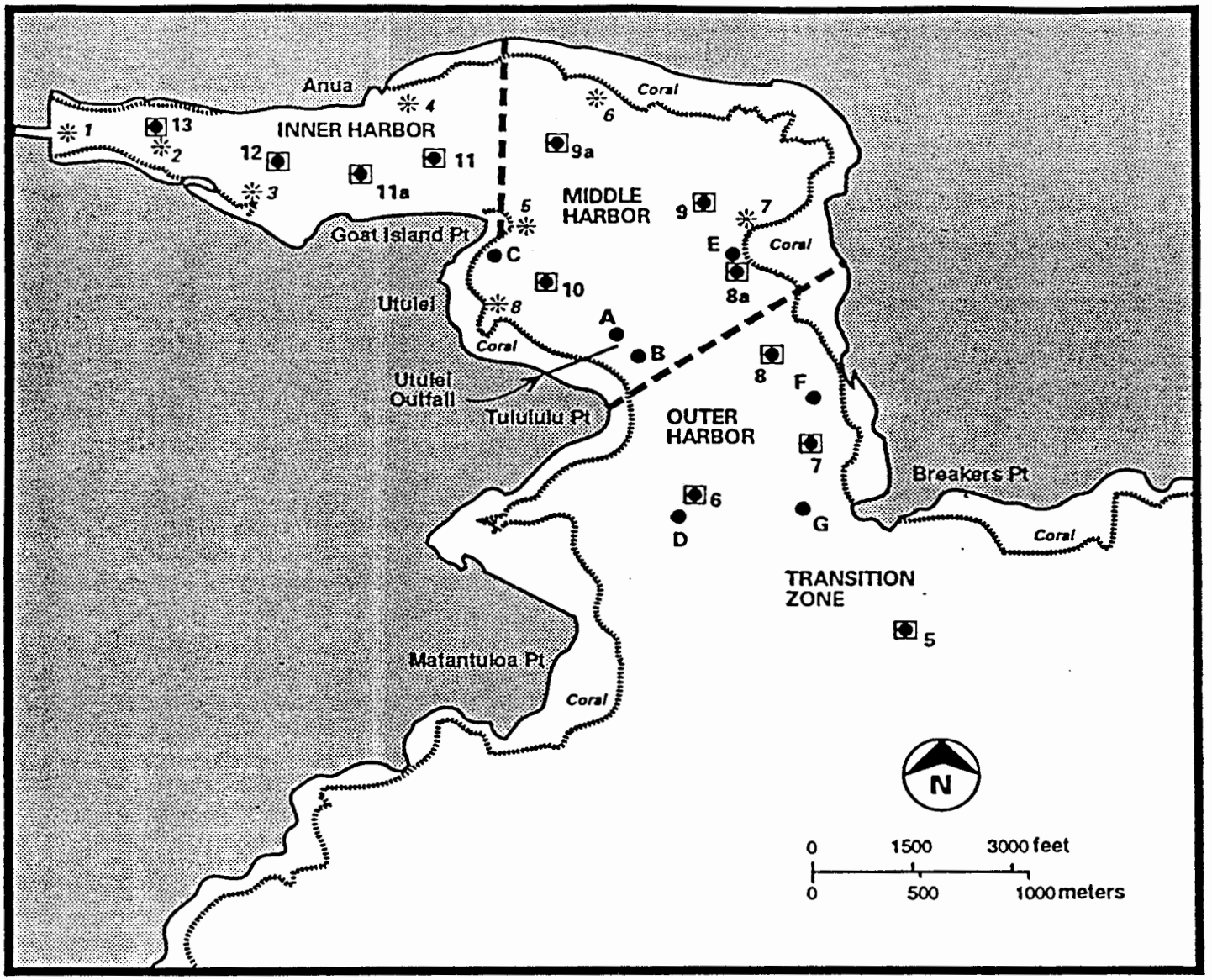
Monitoring results obtained during the previous 3 months shall be summarized for each month and submitted quarterly on forms to be supplied by EPA, to the extent that the information reported may be entered on the forms. The results of all monitoring required by this permit shall be sumitted in such a format as to allow direct comparison with the limitations and requirements of this permit. Monitoring reports shall be postmarked no later than the 28th day of the month following the completed reporting period. The first report is due 4 months after the effective date of this permit. Signed copies of these and all other reports required herein shall be submitted to the EPA Regional Administrator and the Government of American Samoa at the following addresses:

Regional Administrator
Environmental Protection Agency
Region 9, Attn: Office of Pacific Island and
Native American Programs (E-4)
75 Hawthorne Street
San Francisco, CA 94105

Director
American Samoa Environmental Protection Agency
Office of the Governor
Pago Pago, American Samoa 96799

P. EPA REGION IX STANDARD CONDITIONS

See attachment.



LEGEND

- ASG Sampling Station
- Utulei WWTP Station
- CH2M HILL Field Measurement Station (1/19/91)

FIGURE 2. LOCATION OF WATER QUALITY STATIONS IN PAGO PAGO HARBOR

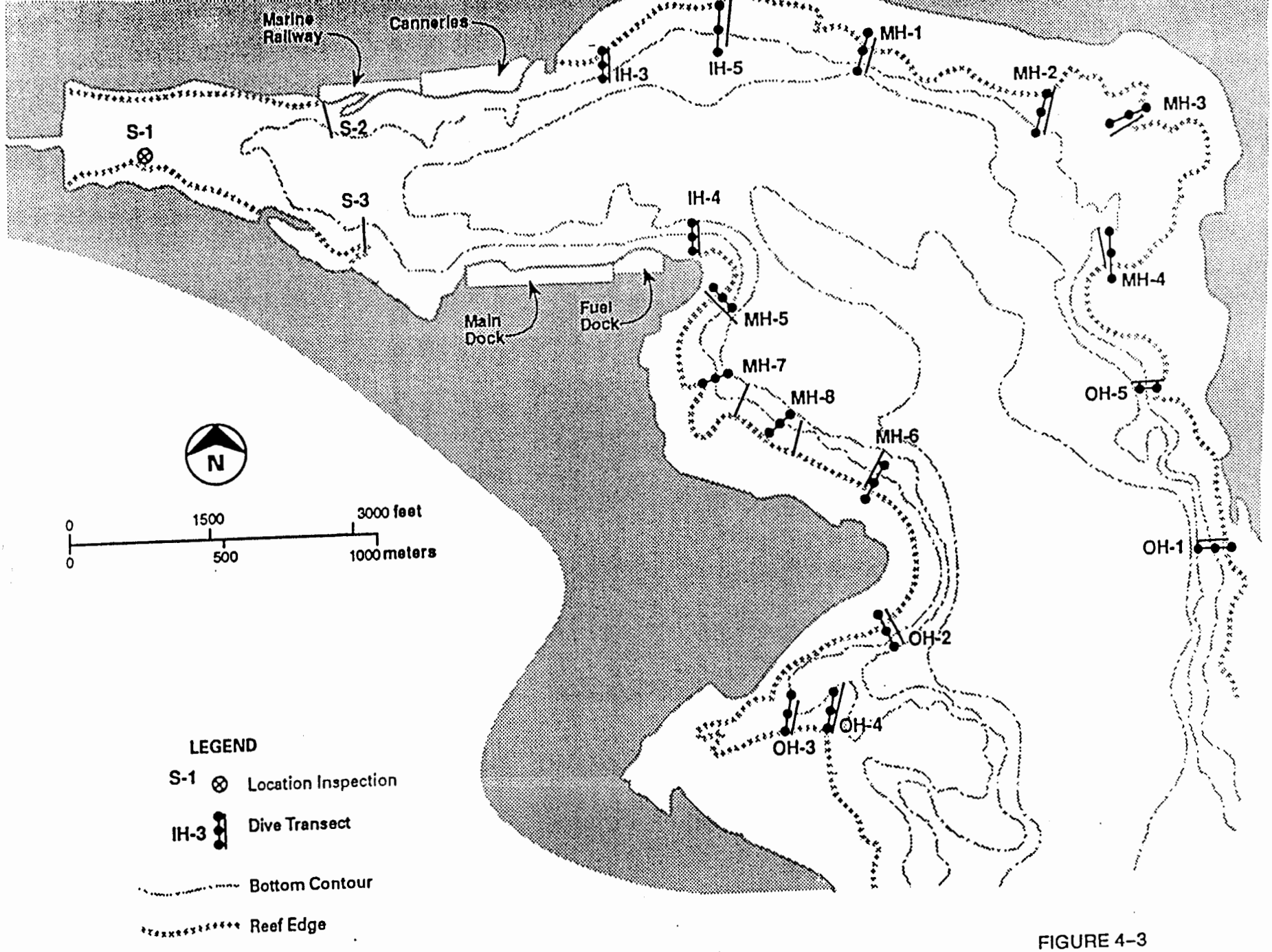


FIGURE 4-3

Coral Reef Transects from 1991 "Use Attainability Analysis", CH2M Hi

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
75 Hawthorne Street
San Francisco, Ca. 94105-3901

February 13, 1992

Norman Wei
Senior Manager
Environmental Engineering
Star-Kist Seafood Company
180 East Ocean Blvd.
Long Beach, CA 90802

Dear Mr. Wei:

This is in regard to your questions on the February 11, 1992 amendment to EPA's administrative order, which allows Star-Kist Samoa to test and utilize the new joint cannery outfall until issuance of the new NPDES permit for this outfall.

The sampling requirements for pH is stated in the amendment as being a grab sample and you pointed out that Star-Kist presently utilizes a recorder and that its present permit indicates the sampling type to be continuous. We have discussed your concerns and agree that the sampling type for pH should be continuous.

The oil and grease sampling method which is indicated as "grab (calculated)" should be done as indicated in the original administrative order, under the Order for Compliance Section, 4(c), as follows:

> ...each oil and grease sample shall consist of four individual grab samples ("sub-samples") which shall be taken at even intervals during each production period in which samples are taken. Each sub-sample shall be separately analyzed. The results of each sub-sample, and the mean value of the four sub-samples, shall be reported for daily maximum and monthly average (in mg./l).

This change in sampling methodology for oil and grease was to apply to oil and grease monitoring beyond the initial 90 days of required intensive monitoring after the effective date of the Order. You indicated that it was your understanding that this method was to be used only for the intensive monitoring regime and that Star-Kist went back to its previous sampling and analysis method for oil and grease after the 90-day intensive monitoring period. This method is analysis of a composite sample made up of individual samples taken every hour during a production period. We feel that this method is not acceptable due to the oil and grease which remain in the individual sampling bottles after the contents of these bottles are poured into a single container to make up the composite sample. We feel the method outlined above gives a more

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accurate measure of oil and grease in the effluent over a production period and that this is the method that should be used for sampling and analysis of oil and grease. This sampling method will be included in the new permit.

Should you have any further questions, please give me a call.

Sincerely,

Pat Young
American Samoa Program Manager

cc: Maurice W. Callaghan, Star-Kist Samoa, Inc.
William Coleman, ASEQC
Pati Faiai, ASEPA
Sheila Wiegman, ASEPA
Virigina Gibbons, ASAG
Steve Costa, CH2MHill

bc: Doug Liden, USEPA
Mike Lee, USEPA

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
75 Hawthorne Street
San Francisco, Ca. 94105-3901

11 FEB 1992

CERTIFIED MAIL NO. P 057 506 640
Return Receipt Requested

Maurice W. Callaghan
General Manager
Star-Kist Samoa, Inc.
P.O. Box 368
Pago Pago, American Samoa 96799

Re: Amendment to Existing Administrative Order Allowing Use of Newly Constructed Outfall

Dear Mr. Callaghan:

This is in reference to our Administrative Order, Docket No. IX-FY90-22, issued to Star-Kist Samoa, Inc. on June 18, 1990.

In their January 23, 1992 letter, Jim Cox of Van Camp Seafood Co., Inc. and Norman Wei, Star-Kist Seafood Company, requested authorization for the canneries to test out and begin discharging from the recently-constructed joint cannery outfall in Pago Pago Harbor prior to formal issuance of VCS Samoa Packing's and Star-Kist Samoa's new NPDES permits. These new permits will allow for the discharge of cannery wastewater through the new joint cannery outfall. Their letter also requested that Star-Kist Samoa be allowed temporary use of its existing outfall (Outfall 001) in the event that problems develop preventing the physical use of the new joint outfall.

Authorization is being requested to begin discharging from the new outfall beginning on February 10, 1992. This is prior to the March 7, 1992 deadline established by the existing Administrative Order, by which Star-Kist's effluent is required to meet the effluent limits based on American Samoa water quality standards. In the event there are malfunctions with the new outfall and equipment, Star-Kist Samoa would like to maintain the option of utilizing its existing outfall (Outfall 001) for discharge of effluent until these problems with the new outfall can be corrected.

During the development of these draft NPDES permits, U.S. Environmental Protection Agency (USEPA) staff have been in close communication with the canneries' staffs and consultants and with the American Samoa Environmental Protection Agency (ASEPA) staff to clarify and discuss our various concerns regarding the new

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permits. Star-Kist Samoa's draft NPDES permit will soon be undergoing public review and comment, and at the earliest, is not anticipated to become effective until April.

Given the early completion of the new joint cannery outfall and that issuance of the new NPDES permit is not anticipated until April, after the existing NPDES permit's water quality compliance deadline, we have determined that early utilization of the new outfall is in the interest of improving the water quality of Pago Pago Harbor.

Based on the above considerations, the Order for Compliance Section of the Administrative Order, Docket No. IX-FY90-22, is hereby amended to include the following provisions:

15. **Effective February 10, 1992, respondent is authorized to begin discharging effluent from the new joint cannery outfall. The initial period of discharge shall be for test purposes and shall be governed by the following paragraph.**

16. **For testing purposes, respondent shall notify ASEPA, USEPA and the American Samoa Attorney General (ASAG), 24 hours prior to commencing any discharge from the new joint cannery outfall for test purposes. Respondent shall also notify the above-mentioned parties 24 hours prior to cessation of testing operations. Respondent shall provide a written report within 10 days of completing testing operations. The report shall include, but not be limited to, duration of testing period, daily volume of discharge from the new joint outfall and/or discharge from the present outfall during the test period, and noted deficiencies and corrective actions taken and/or planned as a result of testing operations.**

17. **Twenty-four hours prior to start-up of regular discharge from the new joint outfall, respondent shall notify ASEPA, USEPA and ASAG in writing, of when it will begin utilizing the new joint outfall and cease discharging from its present outfall (Outfall 001). At the start-up of regular discharges from the new joint outfall, respondent will cease discharging from its present outfall (Outfall 001).**

18. **Discharge from the new joint outfall shall be subject to the effluent limitations, monitoring and reporting requirements as presented in Attachment 1, which is hereby incorporated into and made a part of this Order. Effluent limitations and monitoring and reporting requirements shall become effective upon the commencement of discharging from the new joint outfall. Except as stated in the Order for Com-**

pliance, all other terms and conditions of respondent's present NPDES Permit, AS0000019, shall remain in effect until issuance of its new permit for the joint outfall.

19. For discharge from the new joint outfall, respondent shall submit a monthly report on the sampling and analyses identified in Attachment 1 by no later than the 15th day of the month following the month in which the samples were taken. This report shall be signed by a responsible company official certifying its accuracy.

20. Respondent is authorized to discharge effluent from its present outfall (Outfall 001) should problems develop with the new joint outfall which requires it being shut down for repair. Effluent from Outfall 001 is subject to terms and conditions of respondent's NPDES Permit No. AS0000019 and the terms of this Order and subsequent amendments. This authorization is effective as long as NPDES Permit No. AS0000019, as issued by EPA on February 3, 1987, is in effect, after which respondent must cease utilization of Outfall 001, seal the outfall with a blind flange and certify to ASEPA, USEPA and ASAG that this outfall has been effectively decommissioned. Such certification must be submitted within 30 days of the last effective day of NPDES Permit No. AS0000019.

22. Respondent shall notify ASEPA, USEPA and ASAG in writing, 24 hours in advance of when it intends to utilize the present outfall (Outfall 001) under situations outlined in Paragraph 20 above. Respondent shall detail the problems encountered, a schedule of repair, and when the new outfall will be back in service.

23. This Order shall expire upon the effective date of respondent's new NPDES permit for the joint outfall and upon written determination by EPA that the respondent has demonstrated, to the satisfaction of the ASEPA and USEPA, compliance with its water quality-based effluent limits and addressed all requirements of the Order. However, this Order may be modified if there are substantial delays before the new NPDES permit becomes effective.

Any violation of the terms of Order IX-FY90-22 as amended by this letter or any violation of Section 301(a) of the Act could subject Star-Kist Samoa, Inc. to a civil action for appropriate relief pursuant to Section 309(b) of the Act [33 U.S.C. Section 1319(d)] and/or civil penalties under Section 309(d) of the Act [33 U.S.C. Section 1319(d)]. In addition, Section 309(c)(1) of the Act [33 U.S.C. Section 1319(c)(1)] provides that a willful or

negligent violation shall be punished by a fine of not less than $2,500 or more than $25,000 per day of violation or imprisonment for not more than one year, or both.

If you have any questions in relation to this matter, please contact Pat Young at (415) 744-1591 or Doug Liden at (415) 744-1921.

Sincerely,

Alexis Strauss

for Harry Seraydarian
Director, Water Management Division

Attachment

cc: William Coleman, ASEQC
Pati Faiai, ASEPA
Sheila Wiegman, ASEPA
Virginia Gibbons, ASAG
Jim Cox, Van Camp Seafood Co., Inc.
Norman Wei, StarKist Seafood Company
Steve Costa, CH2MHill

TACHMENT 1

STAR-KIST SAMOA, INC.
EFFLUENT LIMITS AND MONITORING REQUIREMENTS FOR THE JOINT CANNERY OUTFALL

Effluent shall be sampled prior to its entry into the joint cannery outfall. Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS	**DISCHARGE LIMITATIONS** 30-DAY AVG.	DAILY MAX.	**MONITORING REQUIREMENTS** MEASUREMENT FREQUENCY	SAMPLE TYPE
FLOW (mgd)	---	2.9	Continuous	Recorder
SUSPENDED SOLIDS (lbs/day)	2653	6673	Twice/week	Composite
OIL AND GREASE (lbs/day)	675	1688	Twice/week	Grab (Calculated)
TOTAL PHOSPHORUS (lbs/day)	192	309	Twice/week*	Composite
TOTAL NITROGEN (lbs/day)	1200	2100	Twice/week*	Composite
TOTAL AMMONIA (mg/l)	--	133	Once/week	Composite
TEMPERATURE (F)	90	95	Continuous	Continuous
pH	---	**	Continuous	Grab

* Sampling is required twice/week on production days. Should the permittee wish to monitor the effluent on a non-production day(s), the permittee must monitor for the six consecutive days following the non-production day on which the first sample was taken. The average of all samples taken during that month will determine compliance with the "monthly average".

** The pH is limited between 6.5 and 8.6 standard units.

REPORTING: Discharge data obtained during the previous month shall be summarized and reported monthly and should be submitted no later than the 15th day of the following month.

January 23, 1992

Pat Young
American Samoa Program Manager (E-4)
U.S. EPA Region 9
75 Hawthorne Street
San Francisco, CA 94105

Dear Pat:

The canneries (StarKist Samoa, Inc. and Samoa Packing) are planning to commence pumping their treated effluent through the newly installed joint marine pipeline during the week of February 10th. This mode of discharge will continue through to March 7th and beyond unless there are mechanical problems with the pumping system in which case the existing outfalls will be utilized until the problem is corrected.

In view of the fact that the NPDES permits will not likely be issued in time for the March 7, 1992 deadline, the canneries hereby request permission to test out and utilize the new pipeline sytem starting the week of February 10, 1992.

The canneries understand that the proposed new NPDES limits will be in effect when the new pipeline is used. The existing interim limits will apply when the existing outfalls are utilized.

We thank you for your assistance in helping to expedite this matter.

Sincerely,

STARKIST SEAFOOD COMPANY

Norman S. Wei
Senior Manager
Environmental Engineering

VAN CAMP SEAFOOD CO., INC.

James L. Cox
Director
Engineering and Environmental Affairs

cc: M. Macready - Samoa Packing
M. Callahan - StarKist Samoa, Inc.

TOTAL P.01

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
75 Hawthorne Street
San Francisco, Ca. 94105

13 AUG 1991

Maurice W. Callaghan
General Manager
StarKist Samoa, Inc.
P.O. Box 368
Pago Pago, American Samoa 96799

Re: Revision of Interim Effluent Limits for Nitrogen for the EPA Administrative Order Issued to StarKist Samoa, Inc.

Dear Mr. Callaghan:

We are in receipt of correspondence from you and Norman Wei requesting the U.S. Environmental Protection Agency (USEPA) consider modifying the interim effluent limits for nitrogen presently established under the USEPA's Administrative Order, Docket No. IX-FY90-22, issued June 18, 1990 to StarKist Samoa, Inc. You requested that USEPA consider rescinding the 35 percent removal efficiency requirement of the Dissolved Air Flotation (DAF) wastewater treatment system which is used in calculating the monthly interim effluent limits of nitrogen and phosphorus for your cannery's wastewater discharge as permitted under the National Pollutant and Discharge Elimination System (NPDES) Permit No. AS0000019. The basis for your request was as follows:

- Your review of the influent and effluent data since high-strength waste segregation began in August of 1990 shows that the removal efficiency of the DAF cell for nitrogen decreases as the influent concentration decreases. The monthly average loadings for nitrogen has decreased substantially since August.

- Your analysis of the nitrogen shows that 66-76 percent of the influent nitrogen is in soluble form, thus you maintain that consistent attainment of the 35 percent removal rate is not possible with a DAF unit.

- StarKist is attempting to decrease its influent loadings through implementation of a source reduction

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program. Due to the recent penalties incurred for violations of its IEL for nitrogen calculated utilizing the 35% removal rate, StarKist may eliminate this program if the 35% removal rate is not rescinded to avoid future penalties.

Under the Order for Compliance, Section 4(e), the Administrative Order allows for adjusting StarKist's National Pollutant Discharge Elimination System (NPDES) permit's interim effluent limits for nitrogen and phosphorus at EPA's sole discretion after EPA reviewed the first three months of data after high-strength waste segregation. Our review of the data at that time did not compel us to change these limits. However, based on your request and our review of the monitoring data from August 1990 through May 1991 we are revising the interim effluent limits for nitrogen to utilize a DAF efficiency rate of 25%, a monthly average limit of 1675 lbs./day and a daily maximum limit of 2440 lbs./day (see below).

Our review of the data to date shows a definite trend over the 9 months since high-strength waste segregation of a decrease in StarKist's influent loadings, both in lbs. of nitrogen/day and lbs. of nitrogen/ton of fish processed. However, we cannot ascertain if there is a **direct correlation** between the decrease in loadings and the reduction in the DAF efficiency. Some of the data over the last three months show a few negative removal rates as well as some very low rates (below 15 percent) which significantly contributed to the monthly average and daily maximum effluent limit violations. It is also our observation that removal rates are not consistent; for example, influent loads ranging from 1400 lbs./day to 1600 lbs./day have shown removal rates of 4, 10, 34, 41, 50, 57 percent. Based on these inconsistencies, we question if the lower removal rates, especially the reported negative rates, are partially attributable to operational or sampling problems. We also note that Samoa Packing's influent loadings have decreased somewhat over the months, yet they are maintaining a constant removal rate of 74%. Based on the above observations, we feel that a modification of the interim effluent limits for nitrogen is warranted but not elimination of the DAF efficiency rate.

Thus, effective as of August 1, 1991, USEPA hereby modifies its Administrative Order issued on June 18, 1990 to StarKist Samoa, Inc. (Docket No. IX-FY90-22), by revising Section 3 of the Order for Compliance as follows (changes are in bold):

(a) Monthly Average of Total Nitrogen (lbs./day): The lesser of i) **1675** lbs/day, OR, ii) (Monthly Average Total Nitrogen Influent [lbs./day]) x (**0.75**).

(b) Daily Maximum of Total Nitrogen (lbs./day): The lesser of: i) **2440** lbs./day, OR, ii (Daily Maximum Total Nitrogen Influent [lbs./day]) x (**0.75**).

The new fixed interim effluent limits were calculated using the standard deviations for the effluent data from August 1990 through May 1991. The new monthly average limit is one standard deviation plus the average of the monthly effluent averages. The new daily maximum limit is two standard deviations plus the average of the daily values.

The 25% efficiency rate is one standard deviation less than the average removal efficiency rate over the last five months, the average calculated by excluding removal rates below 10%.

The Administrative Order is also modified to add two additional conditions under Section 3 of the Order for Compliance as follows:

13. Respondent shall commence, as soon as possible, an analysis of its DAF process to assess and maximize its removal efficiency rate for both nitrogen and phosphorus. The results of this analysis shall be implemented as soon as possible and a report of this analysis and results of the implementation shall be submitted to EPA and ASEQC, in writing, no later than November 1, 1991.

14. No later than August 31, 1991, Respondent shall document its present nitrogen and phosphorus source reduction activities, providing information on the activities implemented, when implemented and future activities scheduled, and the effects of these activities on influent loadings.

Should you have any questions regarding the new interim effluent limits and conditions to the Administrative Order, please contact Pat Young at (415) 744-1591.

Sincerely,

Harry Seraydarian
Director, Water Management Division

cc: Pati Faiai, Director, ASEPA
Virginia Gibbons, AS Office of the Attorney General
American Samoa High Court
Norman Wei, StarKist Seafoods, Inc.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
75 Hawthorne Street
San Francisco, Ca. 94105

June 20, 1991

Maurice Callaghan
General Manager
Star-Kist Samoa
P.O. Box 468
Pago Pago, American Samoa 96799

Dear Mr. Callaghan:

In recent conversations with you and your staff, we discussed the upcoming National Pollution Discharge Elimination System (NPDES) permit application which your company is required to submit 180 days prior to the expiration of your present NPDES permit (AS0000027). Based on these conversations and your letter of May 1, 1991, it is our understanding that Star-Kist Samoa and VCS Samoa Packing will be constructing a new joint marine outfall approximately 7,000 feet from the canneries toward the mouth of Pago Pago Harbor in order to meet American Samoa water quality standards by March 3, 1992. Thus new NPDES permits for both canneries' discharge from the new outfall will be required. In our discussions with you, we committed to following up with further guidance on applying for a joint outfall NPDES permit application, monitoring requirements, effluent limits and determination of violations and liability, etc.

Issuance of an NPDES permit by the U.S. Environmental Protection Agency (USEPA) for the joint outfall must be preceded by the granting of a zone of mixing by the American Samoa environmental Quality Commission (ASEQC), which must also be approved by USEPA. Thus we urge you to submit your zone of mixing application to the ASEQC and us as soon as possible. After obtaining a zone of mixing, each cannery should submit a separate NPDES permit application for its discharge into the joint pipeline at least 180 days prior to March 3, 1992. (We suggest submitting the application to us at the earliest date possible.) Based on the USEPA's analysis of the data in each permit application, past Discharge Monitoring Reports (DMR's) and other appropriate data, USEPA will issue a separate NPDES permit to each

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cannery which will establish separate effluent discharge limits for each cannery at a point prior to the effluent's entry into the joint pipeline.

Each cannery will be responsible for monitoring and complying with its effluent limits at the point of entry into the pipeline. The permits will establish joint and severable responsibility of the canneries for achieving water quality standards in Pago Pago Harbor. They will also require implementation of an ambient monitoring program to measure the impact of the discharge on Pago Pago Harbor and insure that water quality standards are being met. The permits will not specify who will carry out the ambient monitoring program and will leave that up to the canneries. Again, both canneries will be jointly and severably responsible for carrying out the ambient monitoring program.

Water quality violations will be assessed utilizing data from the water quality monitoring program and the canneries' individual DMR's. Legally, both canneries will be liable and subject to enforcement action for any water quality standards violations which occur from the outfall discharge. As a matter of allocating responsibility for water quality standard violations between the canneries, USEPA, and thus the canneries, will generally consider the nature of each cannery's discharge. In the case where only one cannery's effluent exceeds its effluent discharge limits and the monitoring data shows violation of the relevant water quality standards, the determination of responsibility can be clearly made. If both canneries have violations of their effluent limits and water quality violations also occur, then both canneries are properly responsible. If neither cannery has effluent limit violations but water quality violations still occur, both canneries are still responsible.

We hope the above information is helpful. As we had discussed, we reviewed other NPDES permits issued for joint outfalls to see if they would be useful in giving you some idea of the joint responsibilities which can be imposed. Copies of these permits are included. In these particular cases, a joint agency was established with an NPDES permit for the joint outfall in addition to separate permits for each discharger). However, we do not have copies of the legal agreements among the agencies outlining their obligations and responsibilities to the overall joint agency established. We suggest you contact these agencies directly for such information.

Also enclosed are copies of the NPDES application forms (Form 1C and 2C) for your use.

We urge you and your staff to stay in close contact with our office and the ASEPA regarding local and federal requirements. Your applications should be submitted as early as possible to

give our agencies time to review them and request more information if necessary. Should you or your staff have any further questions, please contact Pat Young, (415) 744-1591 or Mike Lee, (415) 744-1592.

Sincerely,

Norman L. Lovelace
Chief, Office of Pacific Island
and Native American Programs

Enclosures

cc: Pati Faiai, ASEPA (w/o enclosures)
Sheila Wiegman, ASEPA
Norman Wei, Star-Kist
Steve Costa, CH2MHill

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
75 Hawthorne Street
San Francisco, Ca. 94105

March 26, 1991

Maurice Callaghan
General Manager
Star-Kist Samoa, Inc.
P.O. Box 368
Pago Pago, American Samoa 96799

Re: Interim Effluent Limits for the EPA Administrative Order Issued to Star-Kist Samoa, Inc.

Dear Mr. Callaghan:

This letter is in regard to the U.S. Environmental Protection Agency's (USEPA) Administrative Order, Docket No. IX-FY90-22, issued June 18, 1990, to Star-Kist Samoa, Inc.

Under the Order for Compliance, Section 4(e), the Administrative Order allows for adjusting Star-Kist's National Pollutant Discharge Elimination System (NPDES) permit's interim effluent limits (IELs) for nitrogen and phosphorus. This modification could be made "...**at EPA's sole discretion...**" after analysis of data collected during the first three months of segregation and ocean disposal of high-strength cannery waste. Our analysis of the compliance data submitted shows that Star-Kist is meeting the existing IELs with very few exceptions, thus we do not believe that adjusting the existing IELs is necessary.

In its December 19, 1990 letter to USEPA, Star-Kist Seafood Company put forth an argument, based on actual field data, that because there was a much lower percentage removal of total phosphorus (36.5%) due to high strength waste (HSW) segregation than was used in caculating the present IEL (60%), an adjustment of its phosphorus IELs was justified. While we acknowledge that the assumptions which were utilized to calculate the IELs could be slightly adjusted based on the data obtained from actual HSW segregation and DAF processes, our review of the compliance record shows that Star-Kist is achieving the existing IELs with very few exceptions. Thus, in the interest of maximizing the improvements in water quality of Pago Pago Harbor, we find no compelling reason to change the existing IELs for nitrogen and phosphorus and the existing IELs for nitrogen and phosphorus established by the Administrative Order remain unchanged.

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Should you have any questions regarding this matter, please feel free to call Pat Young at (415) 744-1591.

Sincerely,

Keith Takata

Harry Seraydarian
Director, Water Management Division

cc: William Coleman, ASEQC
Pati Faiai, ASEPA
Virginia Gibbons, AS Attorney General's Office

Mike

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
75 Hawthorne Street
San Francisco, Ca. 94105

October 19, 1990

VIA FAX

Mr. Maurice Callaghan
General Manager
Star-Kist Samoa, Inc.
P.O. Box 368
Pago Pago, American Samoa 96799

Dear Mr. Callaghan:

We are in receipt of your company's intensive monitoring reports for the months of August and September, 1990 for your cannery's waste streams as required by the Administrative Order issued by the U.S. Environmental Protection Agency on June 18, 1990 and the Consent Decree in Civil Action No. 66-90, issued by the High Court of American Samoa on August 3, 1990. In general we are pleased that the monitoring results show a significant decrease in nutrient loading to the harbor as a result of the institution of high strength waste segregation and disposal and DAF treatment of cannery effluent.

According to the administrative order, the three-month intensive monitoring regime requires composite samples to be collected twice weekly for the following waste streams: precooker juice, presswater, DAF influent and DAF effluent. The flow of each sample of these waste streams is to be reported and each waste stream sample is to be analyzed for the following parameters: total nitrogen, total phosphorus, total suspended solids, and oil and grease. Additionally, the daily maximum and monthly average of each parameter should be reported.

In general the reports submitted are complete; however, for certain parameters and waste streams, the daily maximum and monthly averages were not reported (see enclosed chart) as required. While the data already submitted will enable us to calculate the daily maximum and monthly averages, future reports should clearly specify these figues (especially for total nitrogen and total phosphorus for the DAF effluent.) Additionally, the daily flows reported for either the influent or effluent for the months of August and September were not labled "influent" or "effluent", thus one set of flows is missing. (We assume the flows reported were effluent flows.) Please provide us with the missing flow data and clarify whether the reported flows were effluent or influent. If this data are not available, we would appreciate a written explanation.

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While the nitrogen values reported are labeled as total nitrogen (TN), your latest Discharge Monitoring Reports indicate the effluent was only analyzed for total Kjeldahl nitrogen (TKN). Are the waste streams for the intensive monitoring program being analyzed for TN or only TKN? If samples are actually being analyzed for only TKN, this should be clarified for the reports already submitted and corrected for future reports, as the administrative order requires analysis for TN (nitrite/nitrate plus Kjeldahl).

As you may recall, the purpose of the intensive three-month monitoring after the institution of high-strength waste segregation and disposal is to collect data to evaluate its effectiveness and the efficiency removal rate of the Dissolved Air Flotation (DAF) process. At its discretion, EPA will utilize this data to make any necessary adjustments in the DAF removal efficiency rate (and therefore the interim effluent limits for nitrogen and phosphorus). Thus it is of utmost importance that the most accurate and complete data be submitted.

Also, as a reminder, the adminstrative order requires Star-Kist to submit to EPA and the American Samoa Environmental Quality Commission interim written status reports regarding its engineering feasibility study or studies on alternatives for achievement of its NPDES permit final effluent limits. Such reports should be submitted no less often than once every three months. If such a report for the first three months of the administrative order has already been sent to us, please disregard this notice, otherwise please let us know when to expect it, and, if there is a delay, the reason for the delay.

In a related matter, review of the reports submitted by your company as required by your NPDES Permit No. AS0000019 shows that no reports have been submitted to EPA as part of Star-Kist's Toxic Substance Monitoring Program. As specified in Part I.A.6 of the permit, twice yearly, beginning March 8, 1987 through March 7, 1992, cannery supply water and effluent must be analyzed for cadmium, chromium, lead, mercury and zinc. To date, we should have received at least seven such reports but have received none. Thus, within 15 days of receipt of this letter, please provide us with these reports, or if these reports are not available, a written explanation as to why they are not available. Additionally, if no toxic substance monitoring has been done within the past six months, such monitoring should be done within the next two months and results submitted to EPA as well as a schedule for future monitoring every six months.

If you have any questions, please contact Pat Young at (415) 744-1591 or Mike Lee at (415) 744-1592.

Sincerely,

Norman L. Lovelace
Chief, Office of Pacific Island
and Native American Programs

Enclosure

cc: Pati Faiai, ASEPA
Sheila Wiegman, ASEPA
Virginia Gibbons, Office of the Attorney General, ASG
Norman Wei, Star-Kist Seafood Company

SUMMARY OF DATA REPORTED/NOT REPORTED BY STAR-KIST SAMOA, INC.
AS REQUIRED BY EPA ADMINISTRATIVE ORDER AND ASG CONSENT DECREE

PARAMETER	PRECOOKER		PRESSWATER		DAF INFLUENT		DAF EFFLUENT	
	Aug.	Sep.	Aug.	Sep.	Aug.	Sep.	Aug.	Sep.
TOTAL NITROGEN								
Each Day's Sample	X	X	X	X	X	X	X	X
Daily Maximum	O	O	O	O	O	O	O	O
Monthly Average	O	O	O	O	X	X	X	X
TOTAL PHOSPHORUS								
Each Day's Sample	X	X	X	X	X	X	X	X
Daily Maximum	O	O	O	O	O	O	O	O
Monthly Average	O	O	O	O	X	X	X	X
TOTAL SUSPENDED SOLIDS								
Each Day's Sample	X	X	X	X	X	X	X	X
Daily Maximum	O	O	O	O	O	O	O	O
Monthly Average	O	O	O	O	O	O	O	O
OIL AND GREASE								
Each Day's Sample	X	X	X	X	X	X	X	X
Daily Maximum	O	O	O	O	O	O	O	O
Monthly Average	O	O	O	O	O	O	O	O
DAILY FLOWS								
Each Day's Sample	X	X	X	X	?	?	?	?
Daily Maximum	O	O	O	O	O	X	O	O
Monthly Average	O	O	O	O	O	X	O	O

X = data reported
0 = data not reported

? = Flow rates were reported but not specified as to influent or effluent flow.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 9
1235 MISSION STREET
SAN FRANCISCO, CA 94103

CERTIFIED MAIL NO. P 057 506 656
RETURN RECEIPT REQUESTED

JUN 18 1990

Mr. Maurice W. Callaghan
President and General Manager
Star-Kist Samoa, Inc.
P.O. Box 368
Pago Pago, American Samoa 96799

Dear Mr. Callaghan:

Enclosed is an Administrative Order issued to the Star-Kist Samoa, Inc.'s tuna cannery by me under Section 309 of the Clean Water Act (the "Act") for violations of its National Pollutant Discharge Elimination System (NPDES) Permit No. AS0000019. Specifically, Star-Kist Samoa, Inc. has violated interim effluent limitations for total nitrogen through the failure to implement high strength waste segregation of its cannery effluent.

This Order, which is effective upon receipt, seeks to remedy the violations by requiring Star-Kist Samoa, Inc. to comply with the implementation of high strength waste segregation of its cannery effluent, as specified in the Order, and comply with newly established interim effluent limitations for total nitrogen and total phosphorus.

The Order also requires Star-Kist Samoa, Inc. to implement a three-month intensive monitoring program after implementation of high strength waste segregation and to submit reports on the results of the monitoring program. The intensive monitoring program requires the monitoring of several waste streams along with a requirement that monitoring reports be submitted no later than seven (7) days after the last day of each month in which data is collected. This reporting requirement presumes that the necessary laboratory analysis will be performed in American Samoa. If, for some reason, the laboratory analysis cannot be performed in American Samoa, then, based upon appropriate documentation submitted to EPA, reasonable extensions to the 7-day reporting requirement will be made. Based on the results of the monitoring program treatment plant removal efficiencies may be adjusted and interim effluent limitations changed in accordance with conditions specified in the Order.

In addition, the Order establishes compliance dates for commencement and completion of an engineering study(s) by Star-Kist Samoa, Inc. to achieve compliance with water quality-based final effluent limitations of its NPDES permit. The Order also estab-

lishes compliance dates for completing its selected alternative and demonstrating compliance with final effluent limitations of the permit.

Any violations of the terms of the enclosed Order or violations of NPDES Permit No. AS0000019 could subject Star-Kist Samoa, Inc. to a civil action for appropriate relief pursuant to Section 309(b) and/or civil penalties under Section 309(d) or administrative penalties under Section 309(g) of the Act. In addition, Section 309(c) of the Act provides that negligent violations shall be punished by a fine of not less than $2,500 nor more than $25,000 per day of violation, or imprisonment for not more than one year, or both, and willful violations shall be punished by a fine of not less than $5,000 nor more than $50,000 per day of violation, or imprisonment for not more than three years, or both.

If you have any questions regarding this matter, please contact Mike Lee at (415)556-5059 or Pat Young (415)556-5069, Office of Pacific Island and Native American Programs, or Ann Nutt (415)556-5981, Office of Regional Counsel.

Sincerely,

for Harry Seraydarian
Director
Water Management Divison

Enclosure

cc: Pati Faiai, ASEPA
V. Gibbons, AS OAG

CERTIFIED MAIL NO. P 057 506 656
RETURN RECEIPT REQUESTED

Mr. Maurice W. Callaghan
President and General Manager
Star-Kist Samoa, Inc.
P.O. Box 368
Pago Pago, American Samoa 96799

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SYMBOL	E-4	E-4	RC-4			
SURNAME						
DATE	6/11/90	6/11/90	6/11/90	6/14/90		

U.S. EPA CONCURRENCES OFFICIAL FILE COPY

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Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.
1. ☑ Show to whom delivered, date, and addressee's address. *(Extra charge)*
2. ☐ Restricted Delivery *(Extra charge)*

3. Article Addressed to:
Maurice Callaghan
Starkist Samoa, Inc.
P.O. Box 368
Pago Pago, Am. Samoa
96799

4. Article Number
P-057-506-656

Type of Service:
☐ Registered ☐ Insured
☑ Certified ☐ COD
☐ Express Mail ☐ Return Receipt for Merchandise

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature — Address
X Maumuna

6. Signature — Agent
X

7. Date of Delivery
6/27/90

8. Addressee's Address *(ONLY if requested and fee paid)*

PS Form **3811**, Mar. 1988 ★ U.S.G.P.O. 1988-212-865 DOMESTIC RETURN RECEIPT

P 057 506 656

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NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL
(See Reverse)

Sent to Maurice Callaghan	
Street and No. Starkist Samoa, Inc.	
P.O., State and ZIP Code P.O. Box 368, Pago Pago, Am. Samoa 96799	
Postage	$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt showing to whom and Date Delivered	
Return Receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	$
Postmark or Date	

PS Form 3800, June 1985

lishes compliance dates for completing its selected alternative and demonstrating compliance with final effluent limitations of the permit.

Any violations of the terms of the enclosed Order or violations of NPDES Permit No. AS0000019 could subject Star-Kist Samoa, Inc. to a civil action for appropriate relief pursuant to Section 309(b) and/or civil penalties under Section 309(d) or administrative penalties under Section 309(g) of the Act. In addition, Section 309(c) of the Act provides that negligent violations shall be punished by a fine of not less than $2,500 nor more than $25,000 per day of violation, or imprisonment for not more than one year, or both, and willful violations shall be punished by a fine of not less than $5,000 nor more than $50,000 per day of violation, or imprisonment for not more than three years, or both.

If you have any questions regarding this matter, please contact Mike Lee at (415)556-5059 or Pat Young (415)556-5069, Office of Pacific Island and Native American Programs, or Ann Nutt (415)556-5981, Office of Regional Counsel.

Sincerely,

Harry Seraydarian
Director
Water Management Divison

Enclosure

cc: Pati Faiai, ASEPA
V. Gibbons, AS OAG

UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
REGION 9

IN THE MATTER OF: STAR-KIST SAMOA, INC. Pago Pago, American Samoa Proceedings Under Sections 308(a) and 309(a) of the Clean Water Act, as amended, 33 U.S.C. §§ 1318(a) and 1319(a).	)	Docket No. IX-FY90-22 FINDINGS OF VIOLATION AND ORDER FOR COMPLIANCE

STATUTORY AUTHORITY

The following Findings are made and Order issued pursuant to the authority vested in the Administrator of the Environmental Protection Agency ("EPA") by Sections 308(a) and 309(a) of the Clean Water Act ("CWA"), 33 U.S.C. §§ 1318(a) and 1319(a). The Administrator has delegated these authorities to the Regional Administrator of EPA Region 9, who has in turn delegated them to the Director of the Water Management Division of EPA Region 9, who hereby makes these Findings of Violation and issues this Order for Compliance.

FINDINGS OF VIOLATION

1. Star-Kist Samoa, Inc. ("Respondent"), a person within the meaning of Section 502(5) of the Act, 33 U.S.C. §1362(5), owns and operates a tuna cannery located at Pago Pago, American Samoa, which is a point source that discharges pollutants into Pago Pago Harbor, a water of the United States, all within the

respective definitions established in Section 502(5) of the Act, 33 U.S.C. §1362(5), Respondent is therefore subject to the provisions of the Act, 33 U.S.C. §1251 et seq.

2. Section 301(a) of the Act, 33 U.S.C. §1311(a), provides that except as in compliance with certain specified sections of the Act, including Section 402, "the discharge of any pollutant by any person shall be unlawful." Section 402 of the Act, 33 U.S.C. §1342, authorizes EPA to issue a National Pollutant Discharge Elimination System ("NPDES") permit allowing for the discharge of pollutants into waters of the United States. Compliance with Section 301(a) of the Act therefore requires, inter alia, compliance with a valid NPDES permit.

3. EPA, under the authority of Section 402(b) of the Act, issued NPDES Permit No. ASOOOOO19 (the "Permit") to Star-Kist Samoa, Inc. on February 3, 1987, to become effective on March 8, 1987 and to expire on March 7, 1992. On February 27, 1987, Respondent sought an evidentiary hearing on certain of the provisions of the permit, including the requirement that Respondent come into compliance with the interim effluent limitations for nitrogen and phosphorus set forth in the permit. The Regional Administrator denied Respondent's request for an evidentiary hearing on this issue and Respondent appealed to the Administrator. On September 26, 1989, the Administrator denied Respondent's appeal and ruled that the interim effluent limits set forth in the permit for nitrogen and phosphorus were to become effective immediately. On October 25, 1989 Respondent

served its Petition for Reconsideration of the Administrator's Order, and on November 3, 1989 the Chief Judicial Officer denied Respondent's Petition.

4. Condition I.A.2.a. of the Permit allows Respondent to discharge a daily maximum 4,300 lbs./day and a monthly average of of 2,200 lbs./day of nitrogen. Monitoring of such discharge is required twice weekly.

5. Respondent has violated Section 301(a) of the Act, 33 U.S.C. § 1311(a), by violating Condition I.A.2.a. of the Permit in that Respondent discharged the amounts of nitrogen set forth in Appendix A annexed hereto and made a part hereof on each date set forth in Appendix A.

6. On the basis of the facts specified in paragraphs 1 through 5 above, the Director of the Water Management Division of EPA Region 9 hereby finds Respondent in violation of Sections 301(a) and 402 of the Act, 33 U.S.C. §§ 1311(a) and 1318.

ORDER FOR COMPLIANCE

Based on the foregoing Findings, and considering the potential environmental and human health effects of the violation, EPA has determined that compliance in accordance with the following requirements is reasonable. Pursuant to the authority of Sections 308 and 309 of the Act, 33 U.S.C. §§ 1318 AND 1319, IT IS HEREBY ORDERED that Respondent comply with the following requirements:

1. Not later than July 31, 1990, Respondent shall install all necessary equipment for and implement a system capable of segregating and removing all Dissolved Air Flotation sludge,

press water and pre-cooker juice (i.e., those wastes that are high in nitrogen and phosphorus) from present cannery effluent (hereinafter referred to as "High Strength Waste Segregation").

2. Not later than July 31, 1990, Respondent shall segregate and remove all such high strength wastes from its effluent, shall barge all such high strength wastes to the designated ocean dump site, as identified in 55 Federal Register 3948 (Feb. 6, 1990) and shall dump such high strength wastes at that ocean dump site. Thereafter, Respondent shall no longer dispose of said effluent through its NPDES permitted point source, i.e., Outfall Serial No. 001.

3. Respondent shall, no later than August 1, 1990, achieve and thereafter maintain compliance with the following interim effluent limits for nitrogen and phosphorus and shall remain in compliance with these interim effluent limits at all times until March 6, 1992:

(a) Monthly Average of Total Nitrogen (lbs./day): The lesser of i) 1,785 lbs./day, OR ii) (Monthly Average Total Nitrogen Influent [lbs./day]) x (0.65).

(b) Daily Maximum of Total Nitrogen (lbs./day): The lesser of: i) 2,745 lbs./day, OR, ii) (Daily Maximum Total Nitrogen Influent [lbs./day]) x (0.65).

(c) Monthly Average of Total Phosphorus (lbs./day): The lesser of: i) 170 lbs./day, OR, ii) (Monthly Average Total Phosphorus Influent [lbs./day]) x (0.65).

(d) Daily Maximum of Total Phosphorus (lbs./day): The lesser of: i) 320 lbs./day, OR, ii) (Daily Maximum Total Phosphorus Influent [lbs./day]) x (0.65).

4. Monitoring Requirements and Adjustment of Interim Effluent Limits for Nitrogen and Phosphorus

(a) Commencing on August 1, 1990 and continuing through the earlier of October 31, 1990 or that date which is three consecutive months after the commencement of High Strength Waste Segregation, Respondent shall collect, twice weekly, composite samples (as such term is defined in Respondent's NPDES permit) of each of the following waste streams: (i) precooker juice, (ii) presswater, (iii) DAF influent and (iv) DAF effluent. Monitoring must be conducted using only those test procedures allowed under Respondent's NPDES permit.

(b) Each of the waste stream composite samples identified in subparagraph (a) shall be analyzed twice weekly for the following parameters. Analysis for each parameter shall be performed in the manner specified in Respondent's NPDES permit, with the exception of oil and grease, which shall be sampled and analyzed in the manner specified below.

i) Total nitrogen (daily maximum and monthly average in mg./l);

ii) Total phosphorus (daily maximum and monthly average in mg./l);

iii) Total Suspended Solids (daily maximum and monthly average in mg./l); and

iv) Daily Flows (daily maximum and monthly average in MGD).

(c) Commencing on August 1, 1990 and continuing through the earlier of October 31, 1990, or that date which is three consecutive months after the commencement of High Strength Waste Segregation, Respondent shall monitor each of the waste streams identified in subparagraph (a) for oil and grease as follows: each oil and grease sample shall consist of four individual grab samples ("sub-samples") which shall be taken at even intervals during each production period in which samples are taken. Each sub-sample shall be separately analyzed. The results of each sub-sample, and the mean value of the four sub-samples, shall be reported for daily maximum and monthly average (in mg./l).

(d) Respondent shall submit a monthly report providing the results of the sampling and analyses identified above to the American Samoa Environmental Quality Commission (ASEQC) and the United States Environmental Protection Agency (EPA) no later than seven (7) days after the last day of each month in which data has been collected. The report shall be signed by a responsible corporate officer, who shall certify the accuracy of its contents in the manner set forth herein.

(e) The formulas for the calculation of interim effluent limits for nitrogen and phosphorus set forth in paragraph 1 above utilize a Dissolved Air Flotation (DAF) removal efficiency rate of 35%. This removal efficiency

rate (and therefore the interim effluent limitation) may be adjusted, at EPA's sole discretion, after analysis of the data collected pursuant to subparagraphs (a) and (b) above.

(f) Except as expressly provided for in subparagraphs (a) through (c) above, all monitoring, sampling and reporting required by this Order shall be performed pursuant to and in accordance with Respondent's NPDES permit.

5. Respondent shall commence, as soon as possible, an engineering feasibility study or studies to assess the viable and potentially feasible alternatives for achievement of its NPDES permit final effluent limits based on the American Samoa Water Quality Standards ("water quality-based effluent limits"). Such study or studies shall be completed no later than March 31, 1991. Respondent shall provide EPA and ASEQC with interim written status reports regarding the progress and findings of such studies as such information becomes available, but no less often than once every three months.

6. Not later than May 31, 1991, Respondent shall notify EPA and ASEQC, in writing, of its selected method or combination of methods for achieving compliance with its water quality-based effluent limits (the "selected alternative").

7. Not later than March 5, 1992, Respondent shall complete all actions necessary to meet its water quality-based effluent limits under the selected alternative.

8. Not later than March 7, 1992, Respondent shall achieve compliance with its water quality-based effluent limits.

9. If Respondent fails to meet any compliance deadline or interim effluent limitation set forth herein, Respondent shall file a written noncompliance report with EPA and ASEQC within ten days of the missed deadline or exceeded limit. The report shall specifically describe the impact of the event, provide a summary of the reasons for or explanation regarding the event, the anticipated time of non-compliance, and the measures to be taken to prevent or minimize the impact of the event.

10. All applications, certifications and reports submitted pursuant to this Order shall be signed by a principal executive officer of Respondent and shall include the following statement:

> I certify under penalty of law that this document and all attachments are prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, I certify that the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

11. Nothing contained in this Order shall affect Respondent's continuing obligation to comply with the Clean Water Act and with each and every term and condition of its Permit. This Order is not and shall not be interpreted to be an NPDES Permit under Section 402 of the Act, 33 U.S.C § 1342, nor shall compliance with this Order be deemed to be compliance with the Permit.

12. All submissions required by this Order shall be mailed to the following addressees:

U.S. Environmental Protection Agency, Region 9
Office of Pacific Island and Native American Programs
1235 Mission Street
San Francisco, CA 94103
Attention: Norman L. Lovelace (E-4)

American Samoa Environmental Quality Commission
Office of the Governor
American Samoa Government
Pago Pago, American Samoa 96799
Attention: Pati Faiai

Date: JUN 18 1990

for Harry Seraydarian
Director
Water Management Division
U.S. EPA, Region 9
1235 Mission Street
San Francisco, CA 94103

APPENDIX A

SUMMARY OF DISCHARGE MONITORING REPORTS

Name of Discharger: Star-Kist Samoa, Inc.
NPDES Permit No.: AS0000019
Reporting Period: September, 1989 through February, 1990

Permit Condition	Effluent Constituents	Effluent Limitation	Month and Yr.	Value(s) Reported in Violation
A.2.a	Total Nitrogen	2200 lbs/day Monthly Average	Oct. 89	3044
			Nov. 89	3468
			Dec. 89	3287
			Jan. 90	3147
			Feb. 90	2770
		4300 lbs/day Daily Maximum	Oct. 89	4544.7
			Nov. 89	4310.6
			Dec. 89	4704, 5051
			Jan. 90	4322

UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
REGION 9

IN THE MATTER OF:	)	
	)	Docket No. IX-FY90-22
STAR-KIST SAMOA, INC. Pago Pago, American Samoa	)	
	)	
Proceedings Under Sections 308(a) and 309(a) of the Clean Water Act, as amended, 33 U.S.C. §§ 1318(a) and 1319(a).	)	FINDINGS OF VIOLATION AND ORDER FOR COMPLIANCE

STATUTORY AUTHORITY

The following Findings are made and Order issued pursuant to the authority vested in the Administrator of the Environmental Protection Agency ("EPA") by Sections 308(a) and 309(a) of the Clean Water Act ("CWA"), 33 U.S.C. §§ 1318(a) and 1319(a). The Administrator has delegated these authorities to the Regional Administrator of EPA Region 9, who has in turn delegated them to the Director of the Water Management Division of EPA Region 9, who hereby makes these Findings of Violation and issues this Order for Compliance.

FINDINGS OF VIOLATION

1. Star-Kist Samoa, Inc. ("Respondent"), a person within the meaning of Section 502(5) of the Act, 33 U.S.C. §1362(5), owns and operates a tuna cannery located at Pago Pago, American Samoa, which is a point source that discharges pollutants into Pago Pago Harbor, a water of the United States, all within the

CONCURRENCES								
SYMBOL	E-4	E-4	E-4	RC-4	w/			
SURNAME								
DATE	6/11/90	6/11/90	6/11/90	6/11/90	6/11/90			

EPA Form 1320-1 (12-70) OFFICIAL FILE COPY

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
215 Fremont Street
San Francisco, Ca. 94105

August 21, 1989

Mr. Maurice Callaghan
General Manager
Star-Kist Samoa, Inc.
P.O. Box 368
Pago Pago, American Samoa 96799

Dear Mr. Callaghan:

On February 23, 1989, Mike Lee of my office performed an inspection of the Star-Kist Samoa, Inc. (Star-Kist) tuna cannery's wastewater treatment facility. The purpose of the inspection was to assess Star-Kist's compliance with National Pollutant Discharge Elimination System (NPDES) permit requirements. The inspection report discusses some noted effluent limitation deficiencies at the Star-Kist facility. A copy of the inspection report has been enclosed for your review.

As noted in the inspection report the Star-Kist facility has frequently exceeded NPDES permit effluent limitations for temperature, oil & grease, and pH during the period of September, 1988 through May, 1989. Although durations were relatively short as in the case of temperature exceedances, they reflect violations of the daily maximum effluent limitations when reviewed on the monthly discharge monitoring reports. Continued exceedances has put Star-Kist in significant noncompliance with its NPDES permit for temperature. Therefore, please respond in writing within forty-five (45) days of the date of receipt of this letter as to the actions you have taken or will take to eliminate these deficiencies. Failure to respond to effluent violations may result in further actions by EPA. Please send a copy of your response to the American Samoa Environmental Protection Agency.

Thank you for your cooperation during our inspection. Should you require additional information concerning the inspection, please contact Mike Lee at (415) 974-8208.

Sincerely,

Norman L. Lovelace
Chief
Office of Pacific Island and Native
American Programs

Enclosure

cc: Pati Faiai, ASG EQC
Sheila Wiegman, ASEPA

UNITED STA S ENVIRONMENTAL PROTECTION AGE

21 AUG 1989

Mr. Maurice Callaghan
General Manager
Star-Kist Samoa, Inc.
P.O. Box 368
Pago Pago, American Samoa 96799

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CONCURRENCES								
SYMBOL	E-4	E-4						
SURNAME	Lee	gyoung						
DATE	8/3/89	8/21/89						

EPA Form 1320-1 (12-70)

OFFICIAL FILE COPY

*U.S. GPO : 1986-179-329

Thank you for your cooperation during our inspection. Should you require additional information concerning the inspection, please contact Mike Lee at (415) 974-8208.

Sincerely,

ORIGINAL SIGNED BY

Norman L. Lovelace
Chief
Office of Pacific Island and Native
American Programs

Enclosure

cc: Pati Faiai, ASG EQC
Sheila Wiegman, ASEPA

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Mr. Jeffrey R. Naumann
Manager Environmental Engineering
Star-Kist Foods, Inc.
180 East Ocean Boulevard
Long Beach, CA 90802-4797

Re: Star-Kist Samoa Outfall Diameter Enlargement
NPDES Permit No. AS0000019

Dear Mr. Naumann:

This letter is in response to your request for EPA to allow Star-Kist to modify its outfall by increasing the diameter of the outfall pipe from 10 inches to 12 inches to alleviate existing flow back-surging problems associated with the outfall.

EPA does not have any problems with the proposed modification provided the modification is as proposed in your April 17, 1989 letter to EPA, that production does not exceed its NPDES permit production limit of 500 tons/day, and meets with ASEPA approval. Please submit a copy of the final design plans for the outfall and construction schedule to us and ASEPA.

If you have any further questions regarding this matter, please contact Pat Young at (415) 974-8270 or Mike Lee at (415) 974-8208.

Sincerely,

Norman L. Lovelace
Chief
Office of Pacific Island and Native American Programs

cc: Pati Faiai, ASG EQC
Sheila Weigman, ASEPA
Albert Cropley, GM, Star-Kist Samoa

CONCURRENCES

SYMBOL	E-4	E-4	E-4				
SURNAME	Lee	pyoung	Lovelace				
DATE	7/25/89	7/26/89	7/27/89				

EPA Form 1320-1 (12-70) OFFICIAL FILE COPY

*U.S. GPO : 1986-159-329

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
215 Fremont Street
San Francisco, Ca. 94105

JUL 1989

Mr. Jeffrey R. Naumann
Manager Environmental Engineering
Star-Kist Foods, Inc.
180 East Ocean Boulevard
Long Beach, CA 90802-4797

Re: Star-Kist Samoa Outfall Diameter Enlargement
NPDES Permit No. AS0000019

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Sincerely,

Norman L. Lovelace
Chief
Office of Pacific Island and Native American Programs

cc: Pati Faiai, ASG EQC
Sheila Weigman, ASEPA
Albert Cropley, GM, Star-Kist Samoa

JOINT NOTICE OF PROPOSED ACTION

BY THE

U.S. ENVIRONMENTAL PROTECTION AGENCY
Region 9
215 Fremont Street
San Francisco, CA 94105

Contact Person: Danny Collier (W-1-1)
Telephone: (415) 974-7432

On Applications for a National Pollutant Discharge Elimination System Permits to Discharge Pollutants to Waters of the United States

ENVIRONMENTAL QUALITY COMMISSION
American Samoa Government
Pago Pago, American Samoa 96799

Contact Person: Pati Faiai

On Applications for Certification for Compliance with Applicable Effluent Limitations and Appropriate Requirements of Territory Law

Public Notice No. AS-86-1-W

The Environmental Protection Agency (EPA), Region 9, San Francisco, California and the American Samoa Environmental Quality Commission, Pago Pago, Ameriacn Samoa are jointly issuing the following notice of proposed action under the Clean Water Act.

The Environmental Protection Agency, San Francisco, California has received complete applications for National Pollution Discharge Elimination System (NPDES) permits and has prepared tentative determinations regarding the permits.

On the basis of preliminary review of the requirements of the Clean Water Act as amended, and implementing regulations, the Regional Administrator, Environmental Protection Agency, Region 9, proposes to issue NPDES permits to discharge to the following applicants, subject to certain effluent limitations and special conditions:

Star-Kist Samoa, Inc.
P.O. Box 368
Pago Pago, American Samoa 96799
NPDES Permit No. AS0000019

and

Samoa Packing Company, Inc.
P.O. Box 957
Pago Pago, American Samoa 96799
NPDES Permit No. AS0000027

Star-Kist Samoa and Samoa Packing Company operate tuna canneries on Tutuila Island, American Samoa. The canneries receive whole tuna which is processed into canned tuna and dried fish meal. Waste streams from these canneries consist mainly of fish waste, fresh water, and sea water which are treated by the Dissolved Air Flotation (DAF) process. The process waste streams from both canneries are discharged into Pago Pago Harbor.

Under proposed permit conditions, both canneries are required to meet proposed interim and final effluent limits for temperature, suspended solids, oil and grease, pH, nitrogen and phosphorus.

The proposed permits require that both canneries shall meet stringent final effluent limits that are based on American Samoa Water Quality Standards for Pago Pago Harbor.

The ADMINISTRATIVE RECORDS for the DRAFT PERMITS, which includes the APPLICATIONS, DRAFT PERMITS, FACT SHEETS, and all data sent by the applicants for the PERMITS, are available for public inspection. The ADMINISTRATIVE RECORDS may be viewed Monday through Friday from 9:00 am until 4:00 pm at the EPA address below. A copy of these documents may be obtained by calling Patrick Chan, Permit Records Controller at (415) 974-9526 or by writing to :

U.S. Environmental Protection Agency, Region 9
Attn: Patrick Chan, PRC (W-5-1)
215 Fremont Street
San Francisco, CA 94105

All comments upon or objections to the DRAFT PERMITS and requests for a PUBLIC HEARING, pursuant to 40 CFR 124.12, must be sent or delivered in writing to Patrick Chan at the address shown above within 30 days of the date of this notice. An extension of the 30 day comment period may be granted if the request for an extension adequately explains why more time is required to prepare comments.

A Copy of the applications, draft permits and fact sheets is also available for public review Monday through Friday from 8:00 am to 4:00 pm at the following office:

Environmental Quality Commission
American Samoa Government
Pago Pago, American Samoa 96799

Contact Person: Pati Faiai

The Environmental Quality Commission is reviewing the DRAFT PERMITS and may:

1. certify the DRAFT PERMITS without comment; or
2. certify the DRAFT PERMITS and impose conditions more stringent than those contained therein; or
3. deny the certification of the DRAFT PERMITS.

Requests for a PPUBLIC HEARING must state the nature of the issues proposed to be raised in the hearing., Pursuant to 40 CFR 124.12, the Regional Administrator shall hold a PUBLIC HEARING if she finds, on the basis of requests, a significant degree of public interest in the DRAFT PERMITS. If the Regional Administrator decides to hold a public hearing, a public notice of the date, time and place of the hearing will be made at least 30 days prior to the hearing. Any person may provide written or oral statements and data pertaining to the DRAFT PERMITS at the public hearing.

If the DRAFT PERMITS become final, and there are no appeals, discharge from and operation of the identified facilities may proceed or continue, subject to the conditions of the permits and other applicabnle permits and legal requirements.

A final decision to set the conditions and to issue the FINAL PERMITS, or to deny the APPLICATIONS for the permits, shall be made after all comments have been considered. Notice of the final decision for the permits shall be sent to each person who has sent or delivered written comments or requested notice of the final permits decision. The decision for the permits will become effective 30 days from the date of issuance unless:

1. a later effective date is specified in the decision; or
2. an evidentiary hearing is requested prusuant to 40 CFR 124.74. Any person may send or deliver, in writing, a request for an evidentiary hearing. Requests for an evidentiary hearing must state each legal or factual question alleged to be at issue, and its relevance to the permit decision. If the request is sent or delivered by a person other than the applicant, the person will simultaneously send a copy of the request to the applicant. A request for an evidentiary hearing must be sent or delivered to Patrick Chan at the address shown above within 33 days following the mailing of the final decision. If an evidentiary hearing is granted, applicable provisions of the permits will be stayed pending the outcome of the hearing; or
3. there are no comments requesting a change to the DRAFT PERMITS, in which case the final decision for the permits shall become effective immediately upon issuance.

Please bring the foregoing to the attention of all persons you know would be interested in this matter.

August 28, 1986

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Danny or Sheila
File

19 AUG 1986

Nancy Boone, Director
Office of Territorial Liaison
Office of Territorial and International Affairs
Department of Interior
Washington, D.C. 20240

Dear Nancy,

Enclosed are copies of the public notices and assorted supporting information for the ocean dumping and wastewater discharge permits we are proposing to issue for the two tuna canneries in American Samoa. The public notices are scheduled to be published on August 28, 1986 in the Samoa News and San Francisco Chronicle. We are expecting the notices will generate some interest, particularly with the canneries.

Please let me know if you have any comments or suggestions you wish to make on the proposed permits. I realize the permits are written in "permitese" so they may be difficult to follow. So, feel free to call me if you have any questions.

Sincerely,

Original signed by:
NORMAN LOVELACE

Norman L. Lovelace, Chief
Office of Territorial Programs

Enclosures

CONCURRENCES

SYMBOL	OTP/LL	W-5-3	W-5-3					
SURNAME	Lovelace	Cotter	BURKHART for EKLUND					
DATE	8/18/86	8/18/86	8/18/86					

EPA Form 1320-1 (12-70) OFFICIAL FILE COPY

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Environmental Protection Agency
Region 1X
215 Fremont St.
San Francisco, CA. 94105

0 4 JUN 1986

Gregory L. Deering
President and General Manager
Star-Kist Samoa, Inc.
P.O. Box 368
Pago Pago, American Samoa 96799

RE: Review of Discharge Monitoring Reports under
NPDES No. AS0000019 and OD 79-01/02 Special

Dear Mr. Deering:

Thank you for your timely and consistent submittal of discharge monitoring reports (DMRs) for the above-referenced facility. We have reviewed the DMRs for the period of December, 1985 through Febuary, 1986. Our findings are the following:

NPDES No. AS0000019 Average and maximum flow rates continued to exceed the rate the permit is based on during the period reviewed. We realize you have applied for a new permit that will address higher production rates, and our office is working to expedite issuance of this permit. We did note that the temperature and total suspended solids effluent limitations were exceeded in December, 1985. Your explanation and corrective measures taken reflect efforts to achieve and maintain compliance with permit requirements.

OD 79-01/02 Special Evaluation of the DMR results show that the characteristic ranges for phosphorus, nitrogen, and pH were exceeded. All the parameters that require monitoring listed in Special Conditon 9.a. were not included in the DMR. Please provide this in the future.

If you have any questions on our findings or if we can be of further assistance, please contact Danny Collier at (415) 974-7432.

Sincerely

Original signed by:
NORMAN LOVELACE

Norman L. Lovelace
Chief
Office of Territorial Programs

				CONCURRENCES				
SYMBOL	W-1							
SURNAME	cc: Pati Faiai, ASEPA Wiegman			Lovelace				
DATE	6/2/86			6/4/86				

EPA Form 1320-1 (12-70) OFFICIAL FILE COPY

Star-Kist Foods, Inc.
NOTE NEW ADDRESS - 180 EAST OCEAN BLVD - LONG BEACH CA 90802

582 TUNA STREET
TERMINAL ISLAND, CALIFORNIA 90731
(213) 548-4411

June 11, 1986

Madonna Narvaez, Water Management Division
Permits & Pretreatment Section
EPA Region IX
215 Fremont Street
San Francisco, CA 94105

Subject: COMMENTS TO PROPOSED DRAFT NPDES PERMIT

Dear Ms. Narvaez:

As the EPA is aware the ASG and the canners are engaged in a joint study with CH_2M Hill of the alternatives for reducing nutrient inputs into Pago Pago Harbor. The final Draft Report has been issued and is due for joint review at a meeting of the Principles in the near future. It is our understanding that ASG has kept EPA aware of the content and development of this study. We therefore believe that the outcome of the study should be reflected in the Permit Requirements and specifically we feel we must object to the inclusion of Permit Parameters and Conditions which this 18 month study has shown to be unobtainable on a practical basis. Therefore our comments in this letter reflect the findings of the CH_2M Hill study.

We have reviewed the Preliminary Draft Fact Sheet and Preliminary Draft NPDES Permit. Following are our comments relative to those documents.

FACT SHEET

Description of Discharge

At the time the application was made for renewal, Star-Kist production averaged about 300 tons of fish per day resulting in a total discharge of 1.44 mgd average. Since that time production has increased to an average of 360 tons per day commonly approaching 400 to 410 tons per day, and is planned to increase to 500 tons within the next year. Consequently waste water flow has also increased so that production day flow is typically 1.8 to 1.9 mgd, and flows in excess of 2.0 mgd are not uncommon. We would request that the Fact Sheet be modified to reflect the increased flow.

Effluent Limitations

1. The proposed interim limits to be met within six months can not realistically be met in that we expect that design and approval for the project to segregate and store high strength waste materials for ocean dumping will take at least three months. We further expect a period of twelve months to be required for ordering of materials, shipment, construction,

and placing the equipment into service. We do not believe this can procede until the canners, the ASG, the EPA and our consultant agree that ocean dumping of high strength wastes is a reasonable alternative towards attainment of the water quality standards in Pago Harbor. We would request that the time allowed to attain any interim limits be extended to 15 months, assuming that agreement on the study can be reached in the next three months.

Calculation of Effluent Limits

1. Star-Kist Samoa applied for net value credits for some parameters in the application in that we feel they are significant, particularly for direct discharge of non-process wastes, such as scrubber water, retort water, refrigeration cooling water, and other clean streams that have little or no contaminations, typically a net of less than 20 mg/l TSS, BOD, etc. Star-Kist and other canners have been granted permits to allow separate discharge of non-process streams at all our other locations. It is well known that treatment efficiency decreases as the hydraulic loading to a treatment plant increases. Star-Kist has completed a detailed study (attached) of this situation at our Puerto Rico cannery which demonstrates that net discharge of pollutants, such as suspended solids and oil and grease, decreases when low strength wastes are diverted to a separate outfall than if they were sent to the treatment facility, since the additional hydraulic load results in a lower removal rate. Analyses of the non-process flows show that they are very dilute and we feel that the amounts of nitrogen and phosphorus in these streams are not "significant", nor would they contribute to an aggravated violation of water quality standards for those parameters if discharged without treatment. On the contrary, we would argue that separate discharge of the dilute flows would lead to lower overall mass emissions of nitrogen and phosphorus to the harbor than combined treatment of these streams. There would also be a reduction in odors and corrosive effects in the process waste system due to reduced temperature with diversion of the non-process streams to outfall 002. We would therefore request that EPA allow non-process wastes to be diverted to an outfall 002. Since we can not control much of the storm flow contributed to the storm drain we would request that storm water not be monitored by Star-Kist, nor included in this permit.

2. The elevated temperature of some of the non-process streams would not meet water quality standards and would require a temperature mixing zone under present water quality standards. We do not feel that their inclusion in the treatment stream is of any benefit in attainment of water quality standards since the proximity of the two outfalls would have the same effect on ambient water temperature as one combined discharge. We should add that the use of sea water, which is typically 83°F. to 85°F., makes attainment of the proposed 85°F. limitation for process discharge impossible. We would, therefore,

request that the 90°F limit be retained. Even potable water used in the process is relatively warm in American Samoa compared to water temperatures commonly found in the United States.

3. The maximum and monthly average flows listed in the Fact Sheet taken from the Application used data from 1983 through 1984. Current average production day flows are typically 1.8 to 1.9 approaching 2.0 mgd due to the increased production. We would request that the flow figures be updated in the Fact Sheet and draft permit to 1.18 average and 2.0 maximum for process waste after diversion of non-process to outfall 002.

Final Limits Based on Water Quality Standards

1. The CH_2M-Hill study has established that the canners will not be able to meet the harbor water quality standards for nitrogen and phosphorus of 0.2 and 0.03 mg/l, respectively, at the end of the pipe no matter what form of treatment or removal of the wastes is exercised short of total removal of all wastes from Pago Pago Harbor. However, as we mentioned at the May 30 meeting, the water quality standards for oceanic waters are more stringent than those in Pago Harbor, and were not in compliance on the basis of data available, making any waste discharge no more in compliance with the standards than Pago Harbor. The 1979 M & E Pacific survey that was used to develop the water quality standards found that the median of surface samples taken in oceanic waters were not in compliance with the present oceanic water standard for phosphorus and for chlorophyll, and the "not to exceed 10% and 2% standards" were out of compliance for total phosphorus, total nitrogen, and chlorophyll. These samples were taken before ocean dumping of sludge commenced.

2. Star-Kist will not be able to meet the temperature limits of 85°F. maximum, as discussed earlier, and would ask that the 90°F. limit be retained, The pH range of 6.5 to 8.6 is unattainable without addition of caustic chemicals to the effluent to raise the pH from its normal range of 6.0 to 6.5. We therefore ask that reconsideration be given to provide more reasonable temperature and pH limits in the permit and to include the 1% deviation clause.

3. The Fact Sheet states that the permit may be re-opened and modified to include new limits if a zone of mixing is approved by the ASG. However, attainment of a mixing zone in any body of water in American Samoa is exceedingly difficult since any relavent water body does not now meet the standards and could not be used for dilution. So that the water quality standards would need changing in order to obtain any zone of mixing for almost any discharge.

Interim Limits

1. As outlined above, we would therefore ask that the schedule of compliance be expanded to allow fifteen months to meet the interim limits.

Calculation of Interim Limits

1. We would question the applicably of including BOD as a limit in the renewed permit in that the original EPA guidelines included BOD as a parameter but found that after several years of DAF treatment that the technology could not reliably meet the guidelines; and in the late 1970's BOD was dropped as an EPA parameter.

2. The data used in calculating the interim limits for BOD, TN and TP were taken from the permit application, which was written during a time when the cannery was processing an average of 300 tons per day. Presently Star-Kist Samoa is packing up to 400 plus tons per day and plans to be above 450 tons per day, up to 500 tons, within the next year. We would therefore request that the interim limits be upgraded to reflect the increased production at 500 tons rather than the 300 ton level by multiplying the proposed limit by a 500/300 factor, as shown on the attached Appendix B.

Schedule of Compliance

As mentioned above, the CH_2M-Hill study has established that a mixing zone after high strength wastes barging is not attainable, in that the water quality standard formula for determining mixing is too restrictive.

pH

We would request that EPA reconsider its decision to not allow the 1% pH deviation in the permit as mentioned above.

Storm Water Limits

We would request that the limits for storm water be deleted in that a substantial portion of the storm water comes from outside of the plant boundaries, including the public roadway adjacent to the plant and property to the east of Star-Kist since we have little control over the quality of water from those sources.

DRAFT PERMIT

Page 2.

Star-Kist Samoa has operated under a pH limitation of 6.0 to 9.0 since treatment was instituted many years, and has complied more

than 99% of the time. The waste typically has a pH from 6.0 to 7.0. The proposed standards for pH of 6.5 to 8.6 can not be met without chemical addition. In retaining the present BPCT (now equal to BCT) limits for the tuna industry the EPA determined that further pH adjustment was not warranted, and have specified the range of 6.0 to 9.0, which Star-Kist can normally adhere to. We do not feel that addition of caustic chemicals is desirable or necessary to slightly change the pH of the waste water in order to conform the water quality standard. Further, not allowing the 1% deviation from pH to be granted to Star-Kist is not reasonable in that it guarantees that a significant number of violations will occur since no chemical control system is 100% reliable, particularly in an environment such as American Samoa. We would request that we be given a pH range of 6.0 to 9.0. Further, we would ask that the 1% deviation rule be included in any pH limitation.

Page 3.

DAF treatment reliably removes TSS and oil and grease but can do nothing to remove soluble BOD, which is a large proportion of the BOD in tuna cannery waste water. We feel that adding BOD limitations to the permit creates an unnecessary burden that we cannot comply with. You will recall that the original EPA guidelines included BOD as a parameter but found that after several years of DAF treatment that the technology could not reliably meet the guidelines; and in the late 1970's BOD was dropped as an EPA parameter. The other limitation of suspended solids, oil and grease, and possibly total nitrogen and total phosphorus, adequately require Star-Kist to perform treatment as desired by the ASG and EPA. We would therefore ask that BOD be removed as a parameter in this permit. In addition, the proposed limits for nitrogen and phosphorus were based upon the application data in which the plant was processing an average of 300 tons of fish per day. Since that time production has increased to nearly 400 tons and is planned to go to more than 450 tons within the next year. We would therefore, ask that any limitations not based directly on tonnage be increased to reflect 500 tons per day, as shown in Appendix B. As discussed earlier we would request that these limits commence 15 months after the effective date of the permit.

Page 4.

The CH$_2$M-Hill study has demonstrated that there is a high probability that water quality standards can be met by the removal of high strength wastes and that a mixing zone cannot be achieved for cannery discharges. It proposes a two year monitoring period to establish compliance or otherwise following high strength waste removal. During this time the need for further action by the canners or changes to the water quality standards (as described in Section VI(H) of the Samoa Water Quality Standards) would be evaluated. We therefore believe that specification of further permit limitations is not appropriate at present and therefore request deletion of Page 4. The proposed limits to meet water quality

standards can not be met and will require a mixing zone. These parameters are temperature, total nitrogen, and total phosphorus and pH. The ASG has told us that they will not require a mixing zone if the whole harbor water quality standards are met, which we hope will result from ocean dumping of high strength wastes. Any further requirements for loading reductions beyond the interim limits should be changed to reflect the fact that it will take at least 15 months to begin ocean dumping once agreement is reached between the ASG, EPA and canners. A period of at least two years would then be required to determine whether the interim measures lead to attainment of the water quality standards. Therefore, we would request that the permit limits for nitrogen and phosphorus equal to water quality standards be deleted.

Page 5.

As mentioned for the Fact Sheet the net discharge for pollutants into the harbor will decrease overall with direct discharge of the non-process flows in that the additional hydraulic flow to the DAF due to low strength wastes decreases treatment efficiency which results in a net increase in wastes compared with direct discharge. We have been allowed to direct discharge non-process flows at all other cannery locations and would request that this be allowed in Samoa. We would, therefore, request that the permit limits for outfall 002 be written to include non-process flows reflect net values, and include limitations only for temperature, pH, oil and grease, and turbidity.

Page 6, Paragraph 5(e)(i).

We would request for the reasons given previously that storm water be deleted and the samples of non-process effluent be taken during periods of no rainfall. Star-Kist is a food plant and we would not expect there to be any significant concentrations of heavy metals from its waste water. We would therefore request that requirement to monitor for these materials be deleted.

Page 6, Paragraph 5(e)(ii).

The proposed requirement to monitor bottom sediment near the cannery outfall and at a controlled location for heavy metals seems inappropriate in that we do not expect there to be any heavy metals discharged from the outfalls. As there is a large amount of boat traffic in the harbor, particularly near the dock and marine railway, we would expect to find some heavy metals in that area due to cleaning of the vessel bottoms at the marine railway. We therefore ask that this monitoring requirement be deleted in the permit.

Page 7

Because of the time required to achieve ocean dumping of high strength wastes the schedule of compliance should be changed to reflect the following:

Paragraph B(1)(a) - Some time would be required inorder to achieve the pH and temperature limits beyond the effective date of the permit if they can not be altered to make them attainable.

Paragraph B(1)(b) - Ocean dumping of high strength waste will take fifteen months beyond the effective date of the permit.

Paragraph B(1)(c) - This date would move up to fifteen months plus fifteen days.

Paragraph B(1)(d) - As mentioned above we would request that the limits in I(A)(3) be deleted from the permit.

Paragraph B(1)(e) - Since these effluent limits are not attainable we would request that this item be deleted from the schedule of compliance.

Paragraph B(1)(f) - The CH_2M-Hill study suggests that harbor water quality will be in compliance after following the canners compliance with the permit limitations in IA(2).

We appreciate this opportunity to address the proposed draft permit and hope our comments are helpful in developing an NPDES permit that is reasonable. Please call me at (213) 590-3873 if you have any questions on our comments.

Sincerely,

Jeffrey R. Naumann
Manager Environmental Engineering

JRN/le
Attch.
cc: D. Ballands
A. Cropley
R. Hetzler
F. Hackman - Ralston
P. Faiai - ASG
N. Lovelace - EPA

JRN-SCPD

APPENDIX B

STAR-KIST SAMOA, INC. NPDES No. AS0000019
Calculation of interim limits at 500 tons/day

The proposed draft NPDES permit was written using data from the application, based upon monitoring during 1983-1984. During this period tuna production averaged 300 tons/day. In order to develop a permit for 500 tons/day, the EPA's proposed interim limits should be increased by multiplying them by 500/300 = 1.67.

Parameter	EPA Proposed Limits (lb/day)		Increased for 500 Tons/day (lb/day)	
	Average	Maximum	Average	Maximum
BOD	16,000	33,000	26,720	55,100
Total Nitrogen	1,300	2,600	2,171	4,342
Total Phosphorus	260	450	434	751

APPENDIX A

SK CARIBE SCRUBBER - MWTC

The effect on total TSS loading to Mayaguez Bay if SKC's scrubber water is diverted from MWTC to SKC's Outfall 002:

Data from November 1984 through June 1985 at MWTC shows that (1) effluent TSS increases as flow increases; and, (2) that removal efficiency % decreases as flow increases for any given level of solids loading to the DAF treatment system.

Average total influent to MWTC for the period examined (n = 47 days over the period November 1984 - June 1985)

Q = 3.490 mgd
TSS $\simeq$ 32,180 kg/day = 70,957 lb/day

Scrubber water from SKC is $\sim$300 gpm over 24 hours per day
Q = 300 x 60 x 24 = 0.432 mgd

Analyses of SKC's scrubber water shows following:

(1)	Bay water intake	TSS = 75 mg/l	(Average, n=15)
(2)	Effluent	TSS = 98 mg/l	" "
	Net increase	TSS = 23 mg/l	" "

Net TSS pickup from scrubbing of dryer gases = (0.432)(8.34)(23) = 83 lb/day on average

Examination of TSS removal efficiency vs flow at MWTC, which treats the process waste waters from SKC and other local tuna canners, shows that efficienty decreases as flow increases. At average influent TSS loading of 32,180 kg/day the least squares regression plot yields:

Removal = 1.022 - 0.0292 Q, where removal is decimal percent, and flow, Q, is in mgd.

For a decrease in flow equivalent to diverting the SKC scrubber water ($\sim$0.43 mgd), the change in removal % would be from:

(at 3.49 mgd): R = 1.022 - 0.0292 (3.49) = 0.9201, to (at 3.49 - 0.43 = 3.06 mgd):

R = 1.022 - 0.0292 (3.06) = 0.9326

The expected decrease in TSS from MWTC due to diversion of the SKC scrubber would be:

32,180 (0.9326-0,9201) = 402 kg/day = 887 lb/day

Therefore, the net decrease in TSS discharged to Mayaguez Bay, after removing the SKC scrubber water, would be:

887-83 = 804 lbs/day

MWTC TSS REMOVAL

DATE	FLOW	INFL. Kg/d	EFFL. (mg/l)	(Kg/d)	REMOVAL %
11/1/84	3,882	35,163	164	2407	93.2
11/6	2,079	10,385	188	1477	85.8
11/8	2,907	27,335	158	1736	93.6
11/13	3,547	39,336	177	2373	94.0
11/15	3,325	26,247	252	3167	87.9
11/20	3,281	26,103	200	2480	90.5
11/21	2,050	28,915	126	976	96.6
11/27	3,389	47,331	234	2998	93.7
11/29	3,688	34,653	236	3290	90.5
12/4	3,408	38,337	196	2525	93.4
12/6	3,340	36,971	184	2323	93.7
12/11	3,488	42,148	211	2782	93.4
12/13	3,466	28,187	144	1887	93.5
12/18	3,718	41,506	222	3120	92.5
12/20	3,073	34,336	174	2021	94.1
1/8/85	2,622	13,861	172	1705	87.7
1/10	2,619	37,285	216	2138	94.3
1/15	3,799	32,013	274	3935	87.7
1/17	4,012	29,554	176	2669	91.0
1/22	3,467	18,180	192	2516	86.2
1/24	3,514	32,293	177	2351	92.7
1/29	3,611	35,321	170	2320	93.4
1/31	3,619	37,100	240	3283	91.2
2/5	3,560	41,119	176	2368	94.2
2/7	3,653	29,936	176	2430	91.9
2/12	3,336	51,219	190	2396	95.3
2/14	3,260	31,696	172	2120	93.3
2/19	4,059	37,375	172	2640	92.9
2/21	3,934	53,394	205	3048	94.3
2/26	3.972	38,957	178	2673	93.1
2/28	2,748	27,708	170	1766	93.6
3/5	3,790	27,382	204	2880	89.5
3/7	2,891	36,929	252	2754	92.5
3/12	3,675	33,166	164	2278	93.1
3/14	3,535	32,793	292	3902	88.1
3/19	3,592	20,446	238	3232	84.2
3/21	3,003	16,121	136	1464	90.9
3/26	4,196	25,885	158	2506	90.3
3/28	3,907	33,474	170	2511	92.5
4/4	1,730	33,001	134	876	97.3
4/9	3,839	31,162	234	3396	89.1
4/11	3,668	31,504	194	2690	91.5
4/16	3,706	35,976	174	2437	93.2
4/18	3,489	22,633	115	1517	93.3
4/23	3,877	42,329	208	3048	92.8
4/25	3,958	39,142	190	2843	92.7
4/30	3,993	27,610	152	2294	91.7
5/2	1,632	33,481	120	740	97.8
5/7	4,268	34,209	173	2791	91.8

(CONTINUED)

(CONTINUED)
MWTC TSS REMOVAL

DATE	FLOW	INFL. Kg/d	EFFL. (mg/l)	(Kg/d)	REMOVAL %
5/9	3,964	34,061	212	3177	90.7
5/14	4,291	26,152	156	2530	90.3
5/16	3,731	28,876	222	3131	89.2
5/21	3,582	19,743	129	1747	91.2
5/23	3,804	27,653	166	2387	91.4
5/28	3,396	32,465	214	2747	91.5
5/30	3,499	24,603	170	2249	90.9
6/4	2,953	33,499	167	1864	94.4
6/6	2,729	25,664	218	2249	91.2
6/11	3,705	36,520	186	2605	92.7
6/13	3,793	22,204	138	1979	91.1
6/18	3,196	22,699	152	1836	91.9
6/20	3,757	32,479	180	2670	91.8
6/25	4,306	25,057	172	2780	88.9
6/27	3,461	29,444	202	2643	91.0

MWTC TSS REMOVAL
FOR INFLUENT TSS 25,000 to 30,000 KG/DAY , n = 17

INDEPENDENT VARIABLE Q(mgd) (Xi)	$(Xi-\bar{X})$	(Xi^2)	DEPENDENT VARIABLE Removal (Yi)	$(Yi-\bar{Y})$	$(Yi)^2$	(XiYi)	$(Xi-\bar{X})^2$	$(Yi-\bar{Y})^2$
2.907	-0.607	8.451	0.936	0.023	0.876	2.721	0.368	0.00053
3.325	- .189	11.056	.879	- .034	.773	2.923	.036	.00116
3.281	- .233	10.765	.905	- .008	.819	2.969	.054	.00006
2.050	-1.464	4.203	.966	.503	.933	1.980	2.143	.00281
3.466	- .048	12.013	.935	.022	.874	3.241	.002	.00048
4.012	.498	16.096	.910	- .003	.828	3.651	.248	.00001
3.653	.139	13.344	.919	.006	.845	3.357	.019	.00004
2.748	- .766	7.552	.936	.023	.876	2.572	.587	.00053
3.790	.276	14.364	.895	- .018	.801	3.392	.076	.00032
4.196	.682	17.606	.903	- .010	.815	3.789	.465	.00010
3.993	.479	15.944	.917	.004	.841	3.662	.229	.00002
4.291	.777	18.413	.903	- .010	.815	3.875	.604	.00010
3.731	.217	13.920	.892	- .021	.796	3.328	.047	.00044
3.804	.290	14.470	.914	.001	.835	3.477	.084	-0-
2.729	- .785	7.447	.912	- .001	.832	2.489	.616	-0-
4.306	.792	18.542	.889	- .024	.790	3.828	.627	.00058
3.461	- .053	11.979	.910	- .003	.828	3.150	.003	.00001
Σ 59.746		215.865	15.521		14.177	54.404	6.208	.00719
$\bar{X}$ =3.514		12.698	$\bar{Y}$ = 0.913		0.834	3.200	0.365	.00042

25,000 - 30,000 kg/day

$$\Sigma(Xi - \bar{X})^2 = \Sigma x^2_{\lambda} - \frac{(\Sigma Xi)^2}{k}$$

$$= 215.865 - \frac{(59.746)^2}{17} = 5.889$$

$$\sum_{1}^{17} Xi - \bar{x})Yi = \sum_{1}^{17} XiYi - \frac{\Sigma Xi \, \Sigma Yi}{k}$$

$$= 54.404 - \frac{(59.746)(15.521)}{17} = -0.144$$

$$b = \frac{\Sigma(Xi - \bar{x})Yi}{\Sigma(Xi - \bar{x})^2} = \frac{-0.144}{5.889} = -$$

$$a = \bar{y} - b\,\bar{x} = 0.913 - (-.0245)(3.514)$$
$$= 0.999$$

Removal = 0.999 - 0.0245 (Q)

MWTC TSS REMOVAL
FOR INFLUENT TSS 30,000 to 35,000 KG/DAY , n = 18

INDEPENDENT VARIABLE Q (mgd) (Xi)	$(Xi)^2$	DEPENDENT VARIABLE REMOVAL EFFICIENTY (Yi)	(Xi Yi)
3.688	13.601	0.905	3.338
3.073	9.443	.941	2.892
3.799	14.432	.877	3.332
3.514	12.348	.927	3.257
3.260	10.628	.933	3.042
3.673	13.491	.931	3.420
3.535	12.496	.881	3.114
3.907	15.265	.925	3.614
4.033	16.265	.922	3.718
1.730	2.993	.973	1.683
3.839	14.738	.891	3.421
3.668	13.454	.915	3.356
1.632	2.663	.978	1.596
4.268	18.216	.918	3.918
3.964	15.713	.907	3.595
3.396	11.533	.915	3.107
2.953	8.720	.944	2.788
3.757	14.115	.918	3.449
Σ61.689	220.114	Σ16.601	56.640
$\bar{X}$ = 3.427	12.229	$\bar{Y}$ = 0.922	3.147

30,000 - 35,000

$$\Sigma(Xi - \bar{X})^2 = \Sigma Xi^2 - \frac{(\Sigma Xi)^2}{k} = 220,114 - \frac{(61.689)^2}{18}$$

$$= 8,696$$

$$\Sigma(Xi - \bar{X})Yi = \Sigma XiYi - \frac{\Sigma Xi \ \Sigma Yi}{k}$$

$$= 56,640 - \frac{(61,689)(16,601)}{18} = -0.254$$

$$b = \frac{\Sigma(Xi - \bar{X})(Yi)}{\Sigma(Xi-\bar{X})^2} = \frac{-0.254}{8.696} = -0.0292$$

$$a = \bar{Y} - b\bar{X} = 0.922 - (-.0292)(3.427) = 1.022$$

Removal = 1.022 - 0.0292 Q

MWTC TSS REMOVAL
FOR INFLUENT TSS 35,000 TO 40,000 KG/DAY , n = 12

INDEPENDENT VARIABLE Q (mgd) (Xi)	$(Xi)^2$	DEPENDENT VARIABLE REMOVAL EFFICIENCY (Yi)	Xi Yi
3.882	15.070	0.932	3.618
3.547	12.581	.940	3.334
3.408	11.614	.934	3.183
3.340	11.156	.937	3.130
2.619	6.859	.943	2.470
3.611	13.039	.934	3.373
3.619	13.097	.912	3.301
4.059	16.475	.929	3.771
3.972	15.777	.931	3.698
2.891	8.358	.925	2.674
3.706	13.734	.932	3.454
3.958	15.666	.927	3.669
Σ 42.612	153.426	Σ = 11.176	39.675
$\bar{X}$ = 3.551	12.786	$\bar{Y}$ = 0.931	3.306

35,000 - 40,000 kg/day

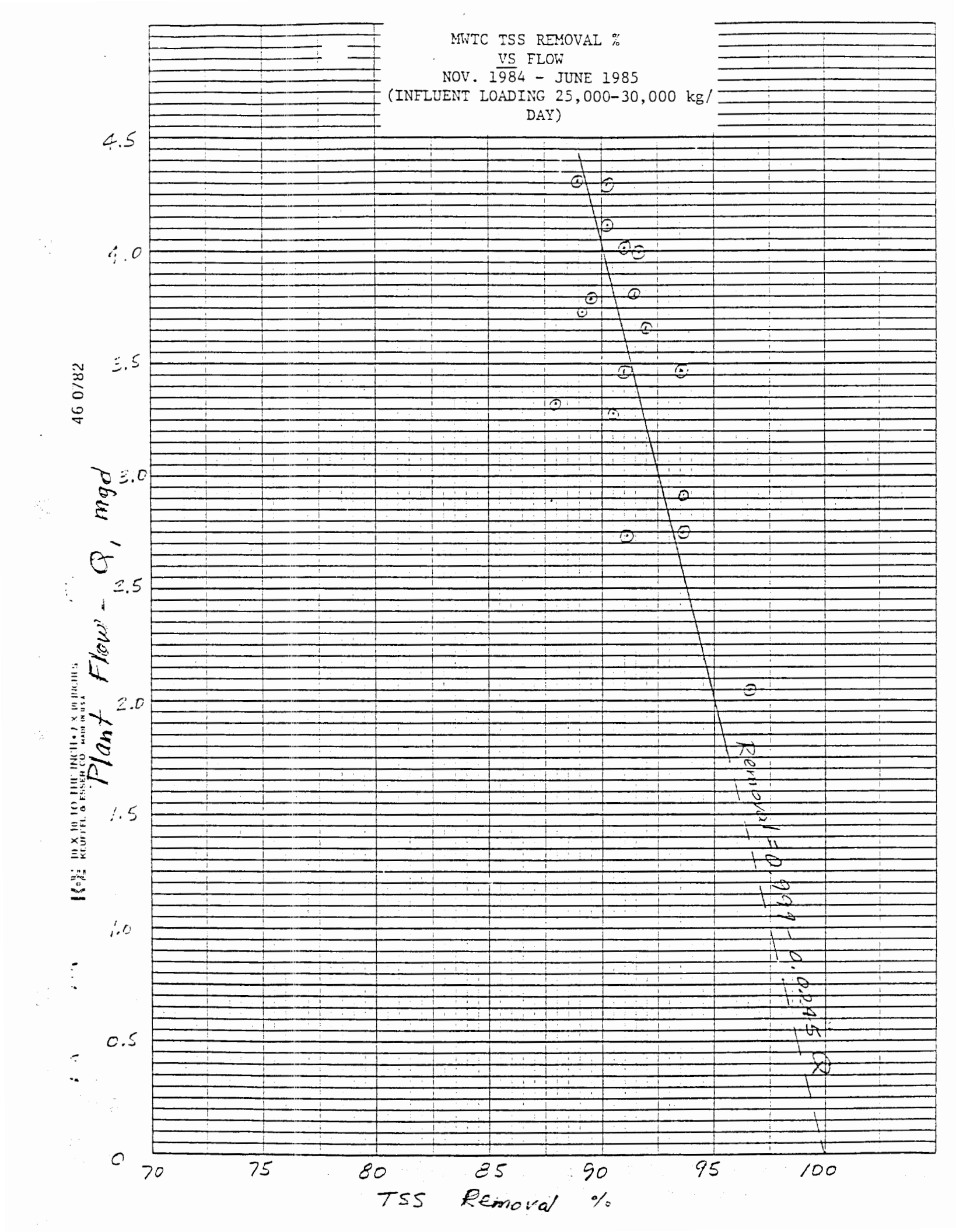
$$\Sigma(Xi - \bar{X})^2 = \Sigma Xi^2 - \frac{(\Sigma Xi)^2}{k} = 153,426 - \frac{(42,612)^2}{12}$$
$$= 2,111$$

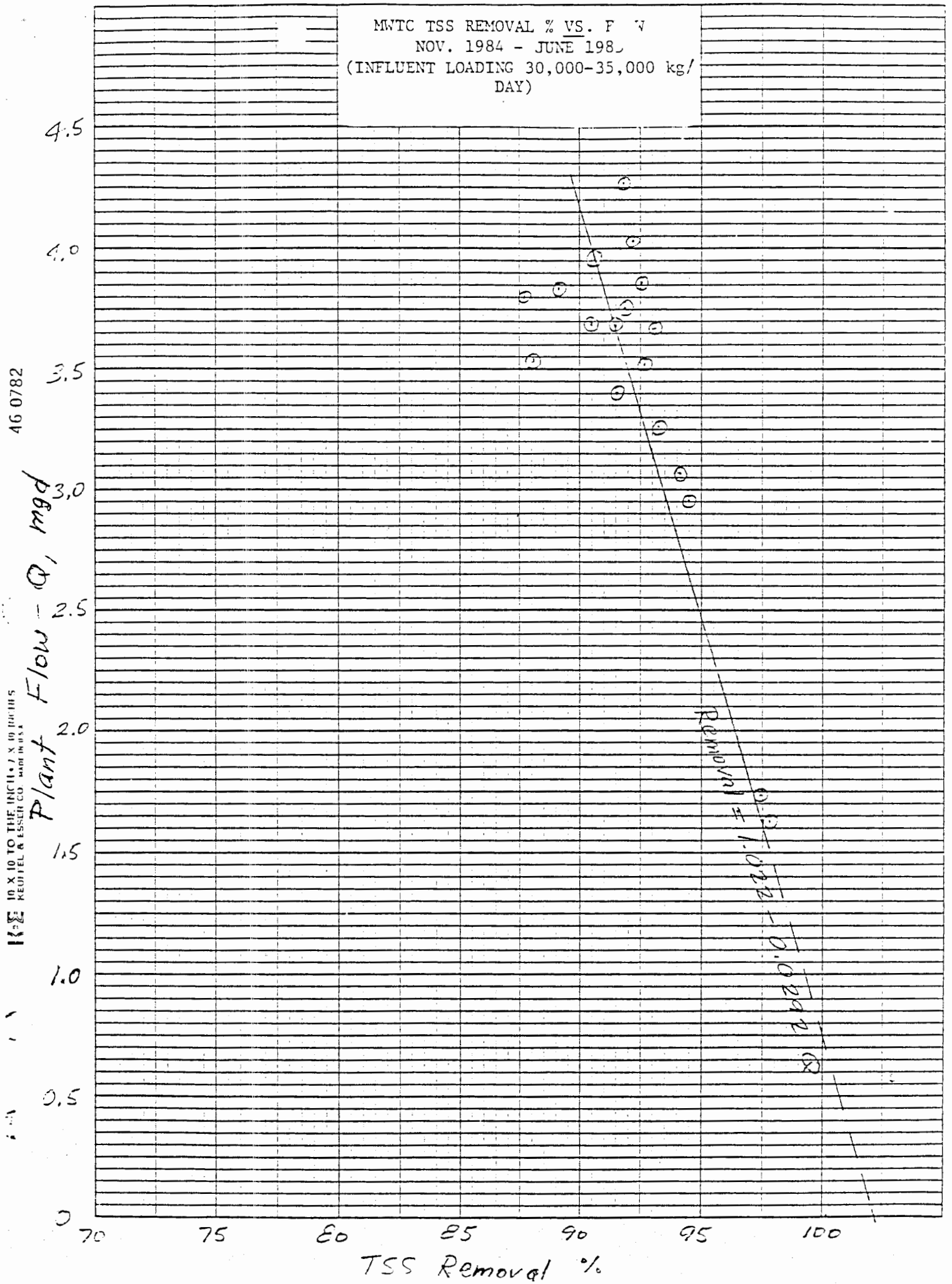
$$\Sigma(Xi - \bar{X})Yi = \Sigma XiYi - \frac{\Sigma Xi \ \Sigma Yi}{k}$$
$$= 39.675 - \frac{(42.612)(11.176)}{12} = 0.0110$$

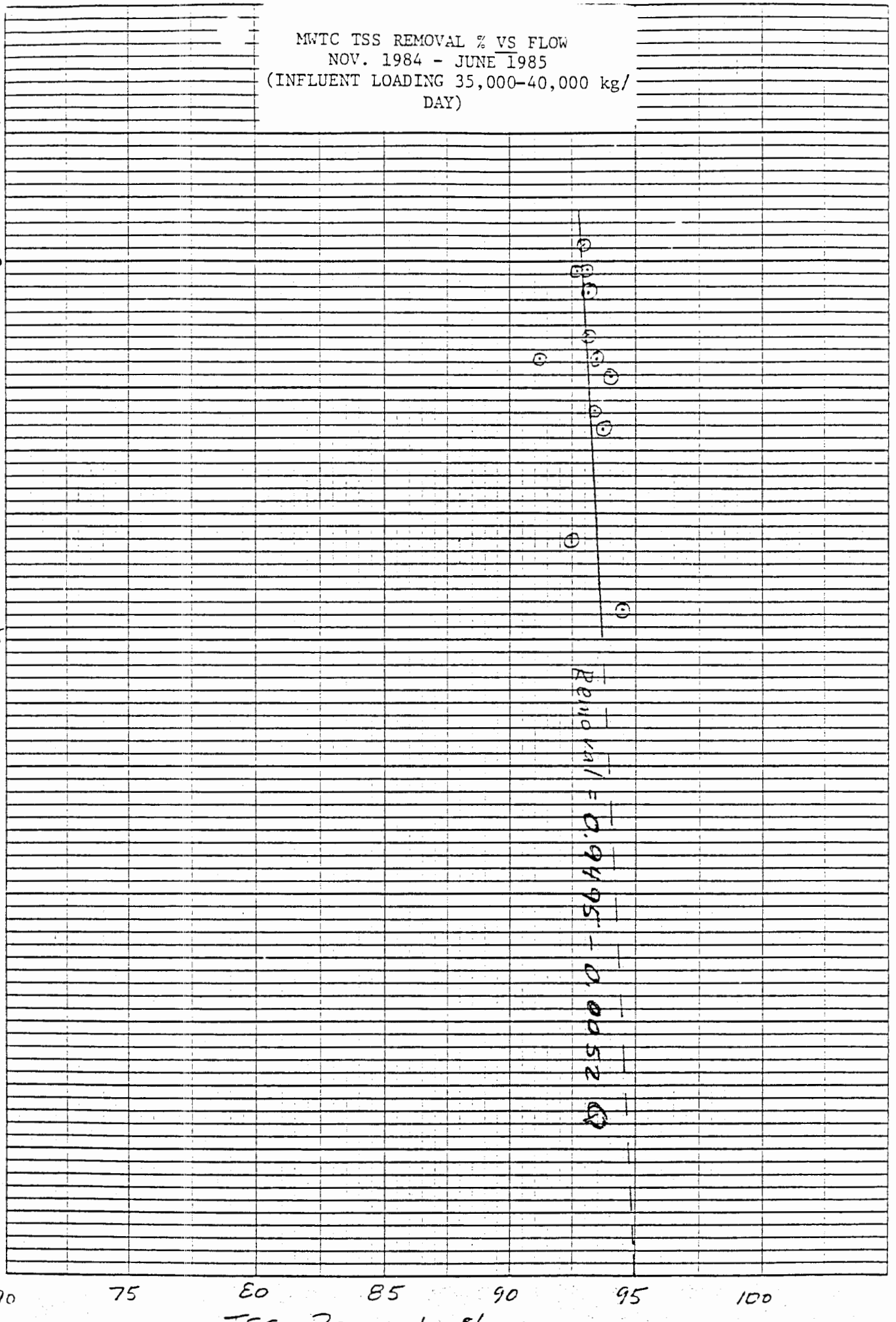
$$b = \frac{\Sigma(Xi - \bar{X})Yi}{\Sigma(Xi-\bar{X})^2} = \frac{-0.0110}{2.11} = -0.0052$$

$$a = \bar{Y} - b\bar{x} = 0.931 - (-.0052)(3.551) = 0.9495$$

Removal = 0.9495 - 0.0052 Q


MWTC TSS REMOVAL %
VS FLOW
NOV. 1984 - JUNE 1985
(INFLUENT LOADING 25,000-30,000 kg/
DAY)
Plant Flow - Q_1 mgd
TSS Removal %
$R_{emoval} = 0.99 - 0.045 Q_1$
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0
70
75
80
85
90
95
100
46 0782
KEUFFEL & ESSER CO. MADE IN U.S.A.


MWTC TSS REMOVAL % VS. F W
NOV. 1984 - JUNE 198
(INFLUENT LOADING 30,000-35,000 kg/
DAY)
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0
Plant Flow - Q, mgd
70
75
80
85
90
95
100
TSS Removal %
Removal = 1.022 - 0.0222 Q
46 0782
10 X 10 TO THE INCH • 5 X 10 INCHES
KEUFFEL & ESSER CO. MADE IN U.S.A.


MWTC TSS REMOVAL % VS FLOW
NOV. 1984 - JUNE 1985
(INFLUENT LOADING 35,000-40,000 kg/ DAY)
Plant Flow - Q, mgd
TSS Removal, %
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0
70
75
80
85
90
95
100
Removal = 0.0495 - 0.00052 Q

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
215 Fremont Street
San Francisco, Ca. 94105

13 MAY 1986

Ms. Phyllis Coven
Attorney-at-Law
Office of the Attorney General
American Samoa Government
Pago Pago, American Samoa 96799

Dear Ms. Coven:

This letter is a follow-up to your recent conversation with Gail Cooper of our Office of Regional Counsel. We felt that it would be useful to provide you with further clarification of our position on the proposed ocean dumping of fish wastes from American Samoa's tuna canneries. The issue at hand is the ocean disposal of fish scraps that are normally processed into fish meal. As you described, these fish wastes are "pure" fish wastes, i.e., fish parts to which nothing has been added.

As you know, under section 102(d) of the Marine Protection, Research, and Sanctuaries Act (MPRSA), pure fish wastes are generally excluded from the permit requirements of ocean dumping. The exclusion of MPRSA does not apply, however, in those instances where dumping takes place in harbors or other enclosed waters or where EPA has determined that disposal would pose a health or environmental endangerment at a particular site.

From the information we have received from the canneries and the American Samoa Environmental Protection Agency (ASEPA), we currently have no reason to believe these fish wastes would fall within either category. Our previous actions on the question of disposal of fish scraps, through letters and cables to ASEPA and the canneries, were based on this understanding. I have enclosed copies of cables and a letter to ASEPA and Ralston Purina (Samoa Packing) in which we stated our position on the matter.

While we have no plans to permit these wastes at this time, it is possible that selection of a particular site could cause the wastes to fall outside the section 102(d) exclusion. We encourage you to work with the parties involved to select an appropriate site. A binding arrangement to that effect would be optimal. If the American Samoa Government concludes

the site is problematical, or if there is a change in the content of the material to be dumped, we would then reconsider the necessity of applying the permitting provisions of the MPRSA.

You should be aware that we are proceeding to issue an MPRSA permit for the canneries waste originating from the DAF treatment units and other process wastes. The important distinction to be made between those wastes and the pure fish discussed here, is that the waste to be permitted under MPRSA are not pure fish wastes. They have undergone processing and contain additives.

Sincerely,

Norman L. Lovelace
Chief
Office of Territorial Programs

Enclosure

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Environmental Protection Agency
Region 1X
215 Fremont St.
San Francisco, CA. 94105

03 APR 1986

Gregory L. Deering
President and General Manager
Star-Kist Samoa, Inc.
P.O. Box 368
Pago Pago, American Samoa 96799

RE: Review of Discharge Monitoring Reports under NPDES No. AS0000019 and OD 79-01/02 Special

Dear Mr. Deering:

Thank you for your timely and consistent submittal of discharge monitoring reports (DMRs) for the above-referenced facility. We have reviewed the DMRs for the period of September through November, 1985. Our findings are the following:

NPDES No. AS0000019 Temperature exceedances through the reviewing period along with your explanation and corrective action were noted. Suspended solids and oil and grease levels continued to be discharged in amounts greater than those allowed in the permit. Flow rates also remain higher than the 1.2 MGD the permit is based on. We realize the exceedances are due to increased production leading to high influent loading, but they do represent violations of your present permit. As your permit renewal is still undergoing review in our office, no action is being considered at this time.

OD 79-01/02 Special The amounts of the sludge parameters reported were within the characteristic ranges described in Special Condition d.1. of the permit. All the parameters that required monitoring listed in Special Condition 9.a. were not included in the DMR submitted. According to Special Condition 9.b. of the permit, analysis of the parameters listed in Special Condition 9.a. and a bioassay (96 hr LC_{50}) are required when there is a change in plant capacity. Since the plant capacity has increased in the last year, the monitoring requirements in Special Condition 9.b. should have been provided to our agency. The monitoring requirements in Special condition 9.b. will not be asked for at this time, but until a new permit is issued please provide the quarterly testing required under Special Condition 9.a.

CONCURRENCES								
SYMBOL	W-1-1	OTP W-1-1						
SURNAME	Wiegman	Colker						
DATE	4/2/86	4/2/86						

EPA Form 1320-1 (12-70) OFFICIAL FILE COPY

If you have any questions on our findings or if we can be of further assistance, please contact Danny Collier at (415) 974-7432.

Sincerely

Original signed by
NORMAN LOVELACE
Norman L. Lovelace
Chief
Office of Territorial Programs

cc: Pati Faiai, AS EOC

Orig. mailed 4/03/86.
"L"

RECEIVED
U.S. EPA
REGION 9
COMM. CENTER

'86 MAR 27 P3:27

WU INFOMASTER

EPA REG 9 SFO

016364I086 1823EST
01 INTL TDWX SAN FRANCISCO, CA
INT PATI FAIAI
EXECUTIVE SECRETARY
ASEPA
OFFICE OF THE GOVERNOR
AMERICAN SAMOA GOVERNMENT
(VIA RCA) PAGO PAGO, AMERICAN SAMOA 96799

IN TELEPHONE COVERSATION WITH JEFF NAUMANN OF STAR KIST SEA FOODS IN MARCH 26, 1986 WE APPROVED HIS REQUEST TO ALLOW STAR KIST SAMOA TO DUMP FISH SCRAPS WASTES INTO OCEAN. OUR APPROVAL IS FOR ONE WEEK OF DUMPING UNTIL FISH MEAL DRYER AT PLANT IS OPERATIONAL. APPROVAL BASED UPON FISH WASTE EXCLUSION IN MARINE PROTECTION RESEARCH AND SANCTUARIES ACT. NAUMANN TO NOTIFY EPA/ASG OR ASEPA WHEN DRYER BACK ON LINE. ALSO TO CONTACT GOVERNORS OFFICE OR ASEPA FOR LOCATION OF DUMP SITE.

VAN CAMP ALSO NOTIFIED AND ADVISED TO CONTACT GOVERNORS OFFICE OR ASEPA FOR DUMP SITE LOCATION IF DUMPING NEEDED. NEW INFORMATION IS THAT VAN CAMP DRYER IS MARGINALLY WORKING, DUMPING FISH SCRAPS IS A CONTINGENCY. ASSURED BY VAN CAMP THAT EFFORTS BEING TAKEN TO RESTORE DRYER.

NORMAN LOVELACE
EPA REGION 9
215 FREMONT ST.
SAN FRANCISCO, CA 94105

ACCEPTED
00001

1-PC

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Environmental Protection Agency
Region 1X
215 Fremont St.
San Francisco, CA. 94105

27 JAN 1986

American Samoa Tuna Cannery Inspections

Norman L. Lovelace
Chief, Office of Territorial Programs W-1-1

Anthony Resnik
Program Support Branch W-2

The Office of Territorial Programs (OTP) has informally requested, through Anthony Resnik, that SAIC travel to American Samoa with the purpose of conducting diagnostic inspections/ compliance evaluations of the territories two tuna canneries (Samoa Packing Co. and Star Kist Samoa).

Both canneries are now discharging wastewater from dissolved air flotation treatment processes, through outfalls into Pago Pago Harbor, under NPDES permits that expired in March 1985. EPA is about to issue new permits to both canneries which will require enventual compliance with American Samoa's water quality standards. We expect SAIC's inspections of the facilities to produce information that may be useful in the event EPA has to (in the future) take enforcement actions against the canneries for violation of the new permits.

As an aside to SAIC's inspections, we would like the American Samoa Environmental Quality Commission's inspectors to be in a position to gain additional skills in inspection techniques and procedures from SAIC.

Danny Collier and I are scheduling his mid-year program evaluation for the week of April 6, 1986. If at all possible, we would like for SAIC to schedule its inspection during the same period.

cc: Frank M. Covington
Director, WMD

Ken Bigos
Chief, Program Support Branch

Orig. & cc's hand carried 1/28/86. "L"

CONCURRENCES								
SYMBOL	OTP W-1-1							
SURNAME	Collier							
DATE	1/28/86							

EPA Form 1320-1 (12-70) OFFICIAL FILE COPY

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

DEC 18 1985

Gregory L. Deering
President and General Manager
Star-Kist Samoa, Inc.
P.O. Box 368
Pago Pago, American Samoa 96799

RE: Review of Discharge Monitoring Reports under
NPDES No. AS0000019

Dear Mr. Deering:

Thank you for your timely and consistent submittal of discharge monitoring reports (DMRs) for the above-referenced facility. We have reviewed the DMRs for the period of June through August, 1985. We found the exceedances you noted and have taken your explanations into consideration. Though the exceedances are generally due to increased flow rate being treated, they are violations of the present permit which is still in effect. As you did apply for a new permit in a timely manner, no action is contemplated at this time. Aspects of your permit application are still being considered by our office, but we are working toward issuance of the new permit. We also noted the sludge leakage incidents in June and August of 1985. We appreciate your prompt notification and immediate corrective measures.

If you have any auestions on our findings or if we can be of further assistance, please contact Danny Collier at (415) 974-7432.

Sincerely

ORIGINAL SIGNED BY
DANNY COLLIER

Norman L. Lovelace
Chief
Office of Territorial Programs

cc: Pati Faiai, AS EOC

CONCURRENCES								
SYMBOL	W-1-1	OTP W-1-1						
SURNAME	Wiegman	Collier for Lovelace						
DATE	12/18/85	12/18/85						

EPA Form 1320-1 (12-70) OFFICIAL FILE COPY

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
215 Fremont Street
San Francisco, Ca. 94105

APR 3 1985

Mr. Ralph Fulgham
Environmental Quality Coordinator
Environmental Quality Commission
Office of the Governor
American Samoa Government
Pago Pago, American Samoa 96799

Dear Mr. Fulgham:

We have attempted to use the information you submitted so that we may assist the Environmental Quality Commission (EQC) in the PLUME modeling for the zone-of mixing applications for the Territory's tuna canneries and Utulei Wastewater Treatment Plant. We have found that modeling the initial dilution with PLUME to aid in the evaluation of a mixing zone application for the canneries was not useful. This is based upon the information you provided, the Territory's existing water quality standards, our conversations with you, and the current status of the water quality of Pago Pago Harbor.

The information we have reviewed indicates that the existing water quality of the inner harbor violates the water quality standards. Dilution of the effluent from the canneries with existing ambient harbor water would not help to reduce the concentrations of effluent pollutants to comply with the standards.

Many of the documents available to us (e.g., Oceanographic Study, CH2M Hill, 1984; Draft Joint Study of Fish Cannery Wastewater Effluent Loading Reduction at Pago Pago Harbor, American Samoa, CH2M Hill, 11/84), which discusses the existing conditions of the harbor, suggest that the current degraded condition of the harbor water is due in large part to the combined effluents of the canneries. The canneries are reported to contribute up to 97% of the total nitrogen and 96% of the total phosphorus loadings to the harbor. Our general conclusion is that a substantial reduction in loadings and/or a change in discharge locations will be necessary for the harbor water quality to eventually stabilize at a point at or near water quality standards. In the absence of such a change in existing conditions, the current ambient conditions cannot be expected to improve appreciably over time and a PLUME analysis is of little value. A PLUME analysis could potentially be of some worth if it were based upon ambient water quality predictions

resulting from substantial changes in cannery discharge characteristics.

Taking all factors into consideration along with the fact that dilution of the effluent in a zone-of-mixing by water which already violates the standards is of no benefit to water quality in the harbor: we agree with you in that no zone-of-mixing should be granted to the canneries.

To require the canneries to comply with the standards is undoubtedly a very difficult choice for the EQC. However, we should be able to work together to reduce the burden on them considering the current economic climate of the Territory.

The zone-of-mixing application for the Utulei Wastewater Treatment Plant is a different matter. The nutrient loadings from Utulei have not been found to contribute significantly to water quality degradation in the harbor. Then too, inputs to the outer harbor are different from the inputs to the inner harbor. With this and other information as a basis we have done a PLUME model for Utulei which I have enclosed for your review.

After you have discussed this situation with the EQC and have reviewed the PLUME information for Utulei, please contact us so that we may collectively decide how the NPDES permits should be written for the tuna canneries.

Sincerely,

Norman L. Lovelace
Chief
Office of Territorial Programs

Enclosure

cc: Ward Conaway
Department of Public Works

UNITE STATES ENVIRONMENTAL PROTEC. ON AGENCY

DATE APR 5 1985

SUBJECT PLUME Modeling Results for Canneries and the Utulei STP Discharges

FROM Paul Gjording
Environmental Engineer

TO Ralph Fulgham
Environmental Quality Coordinator, American Samoa Government

The attached computer printouts show the PLUME results for the canneries and Utulei. Each run synopsizes the input conditions, and presents the resulting average dilution.

These PLUME runs represent modeling of the following conditions:

Run #	Input Conditions Modeled
1	0.063 cms = 2.2 cfs discharge 16.5 ppt salintiy, 25.2°C effluent 10" port at 85' depth Ambient salinity and temperature as recorded in August 1982 at Station 1 in the CH2M Hill "Oceanographic Studies in Support of American Samoa Wastewater Facilities Planning", April 1984. Represents Star-Kist Samoa discharge Dilution = 70
2	0.019 cms = 0.43 MGD discharge 0.0 ppt salinity, 26.6°C effluent 6" port at 85' depth Ambient salinity and temp as in Run #1 Represents Samoa Packing discharge Dilution = 150
3	0.057 cms = 1.3 MGD discharge 0.0 ppt salinty, 27.8°C effluent 12" port at 140' depth Ambient salinity and temperature as recorded on 7/11/79 at Station 10 in the M&E Pacific "Baseline Water Quality Survey in American Samoa", October 1979 Represents DPW Utulei discharge Dilution = 300

The final diameter of the plume when it reaches the surface is shown under DIA on the printout.

Run #	Final Plume diameter (m)
1	9.1
2	8.22
3	13.25

Run - 1

Star Kist

UNIVERSAL DATA FILE: "DF.DAT

AMERICAN SAMOA TUNA CANNERIES

0 1 0

0.063	1	0.254	0.0	26.
0.0	0.0	0.0		
10	16.5	25.2		
0.	35.0	27.5		
3.	35.5	27.4		
6.	35.5	27.4		
9.	35.5	27.4		
12.	35.6	27.3		
15.	35.7	27.3		
18.	35.8	27.3		
21.	35.8	27.2		
24.	35.8	27.2		
27.	35.8	27.1		

28.8

UPLUME VERSION 1.0 APRIL 19 Run #1 Starkist

CASE I.D. AMERICAN SAMOA TUNA CANNERIES

PRINTOUT INTERVAL = 3. (DEFAULT)

INITIAL TEMPERATURE OF THE PLUME = 25.20 DEGREES CENTIGRADE
INITIAL SALINITY OF THE PLUME = 16.50 PPT
INITIAL DENSITY OF THE PLUME = 1.00943 GM/CC
DISCHARGE VELOCITY = 1.243 M/S
FROUDE NUMBER = 6.7

DEPTH (M)	SALIN (PPT)	TEMP (C)	SIGMAT
0.00	35.00	27.50	22.58
3.00	35.50	27.40	22.99
6.00	35.50	27.40	22.99
9.00	35.50	27.40	22.99
12.00	35.60	27.30	23.10
15.00	35.70	27.30	23.17
18.00	35.80	27.30	23.25
21.00	35.80	27.20	23.28
24.00	35.80	27.20	23.28
27.00	35.80	27.10	23.31

TOTAL EFFLUENT FLOW = 0.0630 CMS
NUMBER OF PORTS = 1
PORT DIAMETER = 0.254 M
PORT SPACING = 1000.0 M(DEFAULT)
VERTICAL PORT ANGLE FROM HORIZONTAL = 0.0 DEGREES
PORT DEPTH = 26.00 M

T (SEC)	S (M)	X (M)	Z (M)	DIA (M)	H (M)	THETA (DEG)	FLUX-AVE DILUTION
4.62	4.26	3.86	24.46	1.31	1.54	46.5	6.24
10.29	7.16	5.36	21.99	2.20	4.01	67.6	14.10
17.01	10.11	6.25	19.18	3.11	6.82	76.1	25.09
24.48	13.08	6.85	16.27	4.03	9.73	80.1	38.30
32.51	15.99	7.30	13.39	4.93	12.61	82.0	52.14
41.32	18.89	7.67	10.52	5.82	15.48	82.9	65.35
51.28	21.77	8.03	7.66	6.71	18.34	82.9	
62.72	24.66	8.38	4.79	7.60	21.21	82.8	
75.78	27.55	8.75	1.93	8.49	24.07	82.1	
88.88	29.55	9.22	0.00	9.10	26.00	46.4	

COMPUTATIONS CEASE: PLUME SURFACES

TRAPPING LEVEL = 9.29 M BELOW WATER SURFACE.
AVERAGE DILUTION = 70.1

Run # 2
Samoa Docking

UNIVERSAL DATA F. .E: UPLUME.DAT

[redacted] Tuna Canneries

0 1 0

0.019	1	0.152	0.0	26.
0.0	0.0	0.0		
10	0.0	26.6		
0.	35.0	27.5		
3.	35.5	27.4		
6.	35.5	27.4		
9.	35.5	27.4		
12.	35.6	27.3		
15.	35.7	27.3		
18.	35.8	27.3		
21.	35.8	27.2		
24.	35.8	27.2		
27.	35.8	27.1		

UPLUME VERSION 1.0 APRIL 1984 Run #- Samoa Packing

CASE I.D. [redacted] Cannery

PRINTOUT INTERVAL = 3. (DEFAULT)

INITIAL TEMPERATURE OF THE PLUME	=	26.60	DEGREES CENTIGRADE
INITIAL SALINITY OF THE PLUME	=	0.00	PPT
INITIAL DENSITY OF THE PLUME	=	0.99668	GM/CC
DISCHARGE VELOCITY	=	1.047	M/S
FROUDE NUMBER	=	5.2	

DEPTH (M)	SALIN (PPT)	TEMP (C)	SIGMAT
0.00	35.00	27.50	22.58
3.00	35.50	27.40	22.99
6.00	35.50	27.40	22.99
9.00	35.50	27.40	22.99
12.00	35.60	27.30	23.10
15.00	35.70	27.30	23.17
18.00	35.80	27.30	23.25
21.00	35.80	27.20	23.28
24.00	35.80	27.20	23.28
27.00	35.80	27.10	23.31

TOTAL EFFLUENT FLOW	=	0.0190	CMS
NUMBER OF PORTS	=	1	
PORT DIAMETER	=	0.152	M
PORT SPACING	=	1000.0	M(DEFAULT)
VERTICAL PORT ANGLE FROM HORIZONTAL	=	0.0	DEGREES
PORT DEPTH	=	26.00	M

T (SEC)	S (M)	X (M)	Z (M)	DIA (M)	H (M)	THETA (DEG)	FLUX-AVE DILUTION
5.24	3.67	2.57	23.71	1.13	2.29	70.6	12.86
12.03	6.66	3.22	20.79	2.05	5.21	81.5	35.03
19.72	9.58	3.56	17.90	2.95	8.10	84.8	64.10
28.62	12.58	3.79	14.90	3.88	11.10	86.2	98.98
38.60	15.59	3.97	11.90	4.80	14.10	86.9	134.49
50.06	18.59	4.13	8.90	5.73	17.10	86.9	
63.92	21.60	4.30	5.90	6.65	20.10	86.6	
80.81	24.61	4.49	2.90	7.58	23.10	86.1	
98.47	26.68	4.76	0.86	8.22	25.14	0.0	

COMPUTATIONS CEASE: PLUME TRAJECTORY IS HORIZONTAL

TRAPPING LEVEL = 10.04 M BELOW WATER SURFACE.
AVERAGE DILUTION = 153.5

Run # 3 Utulei

UNIVERSAL DATA FILE: UPLUME.DAT

```
UTULEI
 0 1 0
      0.057          1       0.305        0.0        42.
        0.0        0.0         0.0
         15        0.0        27.8
         0.       33.2        28.2
         3.       33.4        28.1
         6.       33.4        28.0
         9.       33.5        28.0
        12.       33.5        28.0
        15.       33.5        28.0
        18.       33.5        28.0
        21.       33.5        28.0
        24.       33.5        28.0
        27.       33.5        28.0
        30.       33.5        28.0
        33.       33.5        28.0
        36.       33.5        28.0
        39.       33.5        28.0
        42.       33.5        28.0
```

UPLUME VERSION 1.0 APRIL 984 Run # : Utulei

CASE I.D. UTULEI

PRINTOUT INTERVAL = 3. (DEFAULT)

= 9.0 F

INITIAL TEMPERATURE OF THE PLUME = 27.80 DEGREES CENTIGRADE
INITIAL SALINITY OF THE PLUME = 0.00 PPT
INITIAL DENSITY OF THE PLUME = 0.99635 GM/CC
DISCHARGE VELOCITY = 0.780 M/S
FROUDE NUMBER = 2.9

DEPTH (M)	SALIN (PPT)	TEMP (C)	SIGMAT
0.00	33.20	28.20	21.00
3.00	33.40	28.10	21.18
6.00	33.40	28.00	21.22
9.00	33.50	28.00	21.29
12.00	33.50	28.00	21.29
15.00	33.50	28.00	21.29
18.00	33.50	28.00	21.29
21.00	33.50	28.00	21.29
24.00	33.50	28.00	21.29
27.00	33.50	28.00	21.29
30.00	33.50	28.00	21.29
33.00	33.50	28.00	21.29
36.00	33.50	28.00	21.29
39.00	33.50	28.00	21.29
42.00	33.50	28.00	21.29

= 1,376 9

TOTAL EFFLUENT FLOW = 0.0570 CMS
NUMBER OF PORTS = 1
PORT DIAMETER = 0.305 M = 12"
PORT SPACING = 1000.0 M(DEFAULT)
VERTICAL PORT ANGLE FROM HORIZONTAL = 0.0 DEGREES
PORT DEPTH = 42.00 M = 140 ft

T (SEC)	S (M)	X (M)	Z (M)	DIA (M)	H (M)	THETA (DEG)	FLUX-AVE DILUTION
4.73	4.13	2.44	38.77	1.27	3.23	72.3	7.54
9.78	7.21	3.08	35.77	2.22	6.23	81.6	18.99
15.51	10.23	3.43	32.76	3.15	9.24	84.7	34.05
21.82	13.24	3.66	29.76	4.08	12.24	86.3	52.37
28.60	16.25	3.83	26.76	5.00	15.24	87.2	73.67
35.81	19.25	3.96	23.76	5.93	18.24	87.7	97.77
43.41	22.25	4.07	20.76	6.85	21.24	88.1	124.50
51.35	25.25	4.16	17.76	7.78	24.24	88.4	153.76
59.61	28.25	4.24	14.76	8.70	27.24	88.6	185.43
68.17	31.26	4.30	11.76	9.63	30.24	88.8	219.42
77.01	34.26	4.36	8.76	10.55	33.24	89.0	255.62
86.19	37.26	4.41	5.76	11.47	36.24	89.0	286.84
96.02	40.26	4.46	2.76	12.40	39.24	89.0	
106.13	43.02	4.51	0.00	13.25	42.00	88.8	

COMPUTATIONS CEASE: PLUME SURFACES

TRAPPING LEVEL = 4.51 M BELOW WATER SURFACE.
AVERAGE DILUTION = 297.1

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

DATE: MAR 07 1985

SUBJECT: PLUME Analysis Request from Government of American Samoa for Tuna Cannery Mixing Zone Applications.

FROM: Paul S. Gjording
Environmental Engineer

TO: Danny Collier
Project Officer, American Samoa

THRU: Ken Sutherland
Chief, Permits and Pretreatment Section

THRU: William H. Pierce
Chief, Permits and Compliance Branch

On February 11, 1985, I received informally from you the attached letter from Ralph Fulgham requesting assistance with PLUME modeling for the zone of mixing applications he had received form Star-Kist Samoa, Inc., Samoa Packing Co., and the ASG-Utulei Sewage Treatment Plant. In this memo, I would like to summarize my discussions concerning this topic, and my conclusions regarding the mixing zone and modeling. Since there has been no discussion of the Utulei STP application, I will address only the canneries here.

On February 12, 1985 we discussed the cannery mixing zone applications with Ralph Fulgham of American Samoa Government by conference call. This discussion included Pati Faiai of American Samoa Government, Mr. Fulgham, Mr. Collier, and myself. Mr. Fulgham raised the concern that the water quality of the harbor violates the water quality standards at this time. This condition implies that dilution of cannery effluent with the ambient harbor water could not help to reduce the concentrations of effluent pollutants to comply with the water quality standards. In actuality, the only possible way in which water quality standards might be met at the edge of a zone of mixing would be for the effluent to be of higher quality than the water quality standards. Given this situation, the four of us agreed that modeling the initial dilution with PLUME to aid in the evaluation of a mixing zone application, as required by the adopted water quality standards for American Samoa, was not useful.

Furthermore, based on the following existing conditions in the harbor, we agreed that the canneries should receive no zone of mixing, and that their effluent should comply with the water quality standards at the point of discharge until such time as the harbor waters no longer violate the water quality standards:

1) The water quality standards of concern to the cannery (Total Nitrogen and Total Phosphorus) currently are not met in the inner harbor where the canneries discharge.
2) Dilution of the effluent in a zone of mixing by water which already violates the water quality standards is of no benefit to water quality in the harbor.
3) The current degraded condition of the harbor waters is due in large part to the combined effluents of the two tuna canneries. The canneries contribute up to 97% of the total nitrogen and 96% of the total phosphorus input to the harbor.

Attachment

Permit No. AS0000019

AUTHORIZATION TO DISCHARGE UNDER THE
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provisions of the Federal Water Pollution Control Act, as amended, (33 USC 1251 et seq; the "Act"), Star-Kist Samoa, Inc., is authorized to discharge from Star-Kist Samoa tuna cannery located at Pago Pago, Tutuila Island, American Samoa 96799, Outfall Discharge Serial No. 001 (tuna processing wastewater) Latitude 14°16'20"S Longitude 170°41'10"W to receiving waters of Pago Pago Harbor in accordance with effluent limitations, monitoring requirements, and other conditions set forth in Parts I, II and III hereof.

This permit shall become effective on May 8, 1980.

This permit and the authorization to discharge shall expire at midnight, March 31, 1985.

Signed this 8th day of April, 1980.

Modified April 21, 1980 to include the correct (attached) limits.

For the Regional Administrator

Clyde B. Eller

Clyde B. Eller
Director
Enforcement Division

Danny,

A production increase at Star Kist would be a violation without a modification

Andy 4/84

Part I.

A. Effluent Limitations and Monitoring Requirements (based on a maximum production rate of 210 tons/day of seafood processed and an approximate flow rate of 1.2 MGD (0.53 cubic meters per second)).

1. During the period beginning with the effective date of this permit and lasting through March 31, 1985, the permittee is authorized to discharge from Outfall Serial No. 001 (tuna processing wastewater).

a. Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations				Monitoring Requirements	
	kg/day (lbs/day)		kg/kkg of seafood (lbs/1000 lbs of seafood)			
	30-Day Average	Daily Maximum	30-Day Average	Daily Maximum	Measurement Frequency	Sample Type
Flow m^3/Day MGD	-	-	-	-	Continuous	Continuous
Temperature	-	-	-	90°F	Continuous	Continuous
BOD_5	-	-	-	-	Once Monthly	Composite
Total Suspended Solids	630 (1386)	1540 (3500)	3.3 (3.3)	-	Twice Weekly	Composite
*Oil and **Grease	154 (350)	406 (882)	0.84 (0.84)	-	Twice Weekly	Discrete
**Total Nitrogen (Kjeldahl+Nitrate +Nitrite)	-	-	-	-	Once Monthly	Composite
**Total Phosphorus	-	-	-	-	Once Monthly	Composite

*The test procedure for the analysis of oil and grease shall comply with the method described in the manual of "Methods for Chemical Analysis of Water and Wastes," 1974, EPA, Methods Development and Quality Assurance Research Laboratory, page 229 (with written EPA approval for non-substantive changes) or an alternate procedure approved in accordance with the procedures specified in regulations published pursuant to Section 304(h) of the Act.

**Samples hall be taken concurrently.

Yellow

Part II

A. MANAGEMENT REQUIREMENTS

1. Change in Discharge

All discharges authorized herein shall be consistent with the terms and conditions of this permit. The discharge of any pollutant identified in this permit more frequently than or at a level in excess of that authorized shall constitute a violation of the permit. Any anticipated facility expansions, production increases or process modifications which will result in new, different, or increased discharges of pollutants must be reported by submission of a new NPDES application or, if such changes will not violate the effluent limitations specified in this permit, by notice to the permit issuing authority of such changes. Following such notice, the permit may be modified to specify and limit any pollutants not previously limited.

2. Noncompliance Notification

If, for any reason, the permittee does not comply with or will be unable to comply with any daily maximum effluent limitation specified in this permit, the permittee shall provide the Regional Administrator and the State with the following information, in writing, within five (5) days of becoming aware of such condition:

a. A description of the discharge and cause of noncompliance; and

b. The period of noncompliance, including exact dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate and prevent recurrence of the noncomplying discharge.

3. Facilities Operation

The permittee shall at all times maintain in good working order and operate as efficiently as possible all treatment or control facilities or systems installed or used by the permittee to achieve compliance with the terms and conditions of this permit.

U States Environmental Protection Agency
Washington, D. C. 20460

EPA NPDES Compliance Inspection Report

Form Approved
OMB No. 2040-0003
Approval Expires 7-31-85

Section A: National Data System Coding

Transaction Code	NPDES	yr/mo/day	Inspection Type	Inspector	Fac Type
1 N 2 5	3 A S 0 0 0 0 0 1 9 11	12 9 0 1 1 1 3 17	18 C	19 R	20 2

Remarks

21 66

Reserved	Facility Evaluation Rating	BI	QA	Reserved
67 69	70 3	71 N	72 N	73 74 75 80

Section B: Facility Data

Name and Location of Facility Inspected	Entry Time	Permit Effective Date
StarKist Samoa, Inc. Pago Pago, Tutuila American Samoa	X AM ☐ PM 11:00	3-8-87
	Exit Time/Date 12:20 pm/11-13-90	Permit Expiration Date 3-7-92

Name(s) of On-Site Representative(s)	Title(s)	Phone No(s)
Robert Higgins	WWTS Supervisor	

Name, Address of Responsible Official	Title	
Maurice Callaghan StarKist Samoa, Inc. P.O. Box 368, Pago Pago, A.S.	General Manager	
	Phone No.	Contacted X Yes ☐ No

Section C: Areas Evaluated During Inspection

(S = Satisfactory, M = Marginal, U = Unsatisfactory, N = Not Evaluated)

S	Permit	S	Flow Measurement	N	Pretreatment	S	Operations & Maintenance
S	Records/Reports	N	Laboratory	S	Compliance Schedules	N	Sludge Disposal
S	Facility Site Review	S	Effluent/Receiving Waters	M	Self-Monitoring Program		Other:

Section D: Summary of Findings/Comments *(Attach additional sheets if necessary)*

See Attached Inspection Report

Name(s) and Signature(s) of Inspector(s)	Agency/Office/Telephone	Date
Michael J. Lee	EPA Region 9 415-744-1592	9-17-91
Signature of Reviewer	Agency/Office	Date

Regulatory Office Use Only

Action Taken	Date	Compliance Status
		☐ Noncompliance ☐ Compliance

EPA Form 3560-3 (Rev. 3-85) Previous editions are obsolete.

NPDES INSPECTION REPORT
STARKIST SAMOA, INC.

On November 13, 1990 the EPA conducted an inspection of the StarKist Samoa, Inc. (StarKist) tuna cannery, Tuluila Island, American Samoa.

The cannery receives whole tuna which is processed into canned tuna and dried fish meal. Waste streams from the cannery consist mainly of fish wastes, fresh water, press water, pre-cooker juice and sea water. The fish wastes, fresh water, press water, pre-cooker juice are treated by the cannery's waste treatment plant. The sea water is used as a once through thaw water and does not pass through the DAF treatment unit. The treatment plant consist mainly of a dissolved air flotation unit that utilizes polymers and coagulant (alum) to enhance solids recovery. Effluent from the DAF treatment facility is discharged to Pago Pago Harbor via a pipe line which extends directly out from the cannery. Sludge from the DAF treatment facility and high strength wastes (press water and pre-cooker juice) are barged to a designated ocean disposal site which is regulated separately under an ocean dumping permit, No. OD 90-02. The ocean disposal site is approximately 5.5 miles southwest of Pago Pago Harbor. Both canneries (StarKist and Samoa Packing) utilize the same ocean dumping site and vessel to dispose sludge.

The cannery has a daily tuna processing capacity of about 500 tons/day. The cannery averaged approximately 396 tons/day for the month of November, 1990. The effluent flowmeter indicated a flow of about 2.7 MGD at the time of the inspection. The cannery averaged approximately 1.68 MGD for the month of November, 1990. The effluent temperature meter indicated a temperature of 85 F and a pH of 7.5 at the time of the inspection.

StarKist's NPDES permit was issued in March, 1987. Both canneries (Samoa Packing and StarKist) sought an evidentiary hearing on certain of the provisions of the permit, including the requirement regarding compliance with the interim effluent limitatons for nitrogen and phosphorus of the permit. In September, 1989 the canneries appeal was denied by EPA and ruled that the interim effluent limits set forth in the permit for nitrogen and phosphorus were effective immediately and put the canneries in non-compliance with their permits. Although the canneries sought an appeal it was denied in November, 1989. Although Samoa Packing decided to file a petition for review by the Ninth Cir

cuit Court of Appeals in February, 1990, it did not appear that a favorable decision would be forth coming. As a result settlements were negotiated with EPA and the American Samoa government.

On June 18, 1990, EPA issued an administrative order, Docket No. IX-FY91-22, to StarKist for violations of its NPDES permit interim effuent limitations for nitrogen and phosphorus. The order required StarKist to install all necessary equipment and implement high strength waste segregation by July 31, 1990. The order also established new interim effluent limitations for nitrogen and phosphorus, required a three month intensive monitoring program, commencement of an engineering feasibility study for alternatives to comply with NPDES permit final effluent limitations, select an alternative, and comply with NPDES permit final effluent limitations.

The American Samoa Government also issued an consent decree to StarKist in August, 1990. The requirements of the American Samoa consent decree and EPA administrative order are the same with the exception that the American Samoa consent decree required a penalty payment for past violations of water quality standards and includes stipulated penalties in the event of violations of the interim effluent limitations and the compliance schedule.

During the site inspection the wastewater treatment facility appeared to be operating satisfactory. The dissolve air flotation (DAF) treatment unit appeared in satisfactory condition. However, a close inspection of the DAF unit was not performed due to the facility's practice of spraying a masking agent over the DAF unit for odor control. StarKist indicated that they performed an operation and maintenance inspection on the DAF unit in June/July, 1990 and corrected any problems which were discovered.

High strength waste segregation was being implemented as required by the order. StarKist is utilizing a 250,000 gallon storage tank for its high strength wastes (press water and precooker juice). The high strength waste streams are metered to determine volumes. The DAF sludge is stored in a separate storage tank. The high strength waste segregation is performed by the storage and ultimate disposal, by barging, of the high strength wastes along with the DAF sludge to the ocean dumping site.

StarKist indicated during the inspection that they had completed the intensive monitoring of the high strength wastes for October and submitted data to EPA. StarKist was required to perform a three month (August-October) intensive monitoring program

of the high strength wastes. Based upon the review of the intensive monitoring data EPA would consider adjustment of the ef fluent limitations for nitrogen and phosphorus. During the three month intensive monitoring period there were two violations of the interim effluent limitations. A monthly average violation in August for phosphorus and daily maximum violation in October for nitrogen were reported.

Although there were two violations of the interim effluent limitations during the three month intensive monitoring program it was determined that adjustments to the interim effluent limitations for nitrogen and phosphorus were not necessary and limitations would remain the same as presented in the AO. However, StarKist has reported monthly average violations of interim effluent limitations for nitrogen in March, April and May, 1991. There have also been two each daily maximum violations for nitrogen in March and April, 1991.

As part of the AO requirements StarKist is to complete an engineering feasibility study to assess the viable alternatives to achieve compliance with its NPDES permit final effluent limits. At the time of the inspection StarKist indicated that they had contracted with CH2M Hill for the feasibility study and expected to complete and submit the study as required in March, 1991. EPA received the engineering study in March, 1991. Based on discussions and review of the StarKist and Samoa Packing feasibility studies it appears that a joint outfall for the canneries will be the recommended alternative.

During the inspection the stormwater monitoring was discussed. StarKist has two discharge points, 001 and 002. The stormwater discharge is designated as 002 and has not been monitored in accordance with its NPDES permit requirements. StarKist indicated that the stormwater pipe discharged under the wharf and may be difficult to monitor. However, StarKist indicated that they would assess the situation and develop a monitoring point to comply with the NPDES permit. StarKist has started monitoring and reporting stormwater data (temperature, turbidity, and O&G) as of March, 1991.

Stormwater at the facility is collected a by system of ground catchments and routed to the stormwater discharge pipe which discharges under the wharf. There are number of stormwater catchments and it is difficult to verify exactly where each one leads due to the layout and age of the facility.

Inspection of the effluent flow appeared normal for the tuna cannery. Flow, temperature, and pH are continuously monitored at the effluent station just prior to discharge. Flow, temperature, and pH instrumentation is calibrated in-house on a two week schedule according to StarKist representatives.

StarKist indicated that efforts were in progress to install a cooling water tower to control effluent temperatures. Effluent limits for temperature will change from 90F to 85F in March, 1991. StarKist indicated that they anticipate installation of the cooling water tower by early March, 1991 to comply with the new temperature limits of its permit.

ENVIRONMENTAL PROTECTION AGENCY
REGION 9

OFFICE OF PACIFIC ISLAND AND NATIVE AMERICAN PROGRAMS

NPDES INSPECTION REPORT

PERMITTEE: Star-Kist Samoa, Inc.

FACILITY: Star-Kist Tuna Cannery

DATE OF INSPECTION: February 23, 1989

INSPECTION PARTICIPANTS:

EPA: Mike Lee
ASEPA: Tony Tausaga
FACILITY: Robert Higgins

REPORT PREPARED BY: Mike Lee

DATE OF REPORT: July 17, 1989

United States Environmental Protection Agency
Washington, D. C. 20460

EPA NPDES Compliance Inspection Report

Form Approved
OMB No. 2040-0003
Approval Expires 7-31-85

Section A: National Data System Coding

Transaction Code	NPDES	yr/mo/day	Inspection Type	Inspector	Fac Type
1 N 2 5	3 AS 0 0 0 0 0 1 9 11	12 8 9 0 2 2 3 17	18 C	19 R	20 2

Remarks

21 66

Reserved	Facility Evaluation Rating	BI	QA	Reserved
67 69	70 3	71 N	72 N	73 74 75 80

Section B: Facility Data

Name and Location of Facility Inspected	Entry Time ☒ AM ☐ PM	Permit Effective Date
STAR-KIST SAMOA INC. PAGO PAGO, TUTUILA AMERICAN SAMOA	10:00	3/8/87
	Exit Time/Date 12:00pm 2/23/89	Permit Expiration Date 3/7/92

Name(s) of On-Site Representative(s)	Title(s)	Phone No(s)
ROBERT HIGGINS	WWTS SUPERVISOR	

Name, Address of Responsible Official	Title	
MAURICE CALLAGHAN STAR-KIST SAMOA, INC. P.O. Box 368 PAGO PAGO, AMERICAN SAMOA	GENERAL MANAGER	
	Phone No.	Contacted ☐ Yes ☒ No

Section C: Areas Evaluated During Inspection

(S = Satisfactory, M = Marginal, U = Unsatisfactory, N = Not Evaluated)

S	Permit	S	Flow Measurement	N	Pretreatment	S	Operations & Maintenance
S	Records/Reports	N	Laboratory	NA	Compliance Schedules	N	Sludge Disposal
S	Facility Site Review	U	Effluent/Receiving Waters	S	Self-Monitoring Program		Other:

Section D: Summary of Findings/Comments *(Attach additional sheets if necessary)*

SEE ATTACHMENT A

Name(s) and Signature(s) of Inspector(s)	Agency/Office/Telephone	Date
Michael J. Lee MICHAEL J. LEE	EPA REG. 9 415-974-8208	7/17/89
Signature of Reviewer	Agency/Office	Date

Regulatory Office Use Only

Action Taken	Date	Compliance Status
		☐ Noncompliance ☐ Compliance

EPA Form 3560-3 (Rev. 3-85) Previous editions are obsolete.

ATTACHMENT A

SECTION D: FINDINGS/COMMENTS

On February 23, 1989 the EPA conducted an inspection of the Star-Kist Samoa, Inc.(Star-Kist) tuna cannery, NPDES Permit No. AS0000019. Star-Kist was issued an NPDES permit on March 8, 1987. Star-Kist operates the tuna cannery located on Tutuila Island, American Samoa.

The cannery receives whole tuna which is processed into canned tuna and dried fish meal. Waste streams from the cannery consist mainly of fish waste, fresh water, and sea water which are treated by the cannery's waste treatment plant. The plant's main treatment unit is a dissolved air flotation (DAF) unit that utilizes polymers/chemicals to enhance solids recovery. Effluent from the DAF is discharged into Pago Pago Harbor. The DAF sludge is discharged at a designated ocean disposal site and is regulated separately under an ocean disposal permit. The cannery is currently averaging approximately 1.30 MGD effluent flow with tuna production averaging about 375 tons/day based on review of the discharge monitoring reports (DMR).

Although Star-Kist was issued a NPDES permit in March, 1987 Star-Kist has been granted an evidentiary hearing by EPA. As a result various provisions of the permit have been stayed pending the outcome of the hearing. EPA Region 9 is currently awaiting response from EPA Headquarters on this matter.

During the site inspection the wastewater treatment plant appeared to be operating satisfactorily. A brief review of effluent monitoring instrumentation indicated a flow of 1400 gpm (2.0 MGD), pH of 7.3, and a temperature of 89F at the time of inspection. Composite samples were also taken with the assistance of Star-Kist personnel. A copy of the test results are attached (Attachment B).

A review of Star-Kist's most recently submitted DMRs from September, 1988 through May, 1989 indicates excedances of effluent limitations for temperature, pH, and oil & grease. Star-Kist has attributed temperature exceedances to less than adequate boiler supply water causing more frequent boiler blow downs. The pH exceedances appear partly the result of alum pump problems and fish rack waste streams. Oil and grease (lbs./1000 lbs.) exceedances are unclear according to permittee.

Although daily maximum temperature exceedances have been of short durations the daily maximum limit has been exceeded for the last nine consecutive months (September, 1988 through May, 1989). Oil and grease (lbs/1000 lbs) monthly average effluent limits have been exceeded five of nine months for the same abovementioned time period. These two effluent parameters need to be addressed and brought into compliance with effluent limitations of the NPDES permit as soon as possible. It appears that a higher quality water source may need to be provided for boiler operation to reduce daily maximum effluent temperatures or recirculation of water to effluent prior to discharge. Star-Kist mentioned they were looking into alternative sources of supply water for the boiler. Oil and grease exceedances need to be addressed also. As pointed out in the submitted DMRs the lbs/day oil and grease limit is in compliance with permit limits but the effluent is having problems meeting the lbs./1000 lbs. limit for oil and grease. However, both lbs/day and lbs/1000 lbs limits were exceeded in May, 1989. This may require finer tuning of the wastewater treatment plant's process controls or even the production process to ensure compliance with effluent limitations.

ATTACHMENT B

Wastewater Analysis Report

Kennedy/Jenks/Chilton, Laboratory Division
303 Second Street, Tenth Floor North
San Francisco, CA 94107
415-362-6065

For U.S. Environmental Protection Agency
Attention Mr. Peter Husby
Address 215 Fremont Street
San Francisco, CA 94105

Received 03/17/89
Reported 04/07/89

Lab. No. 891965

Source Sample I.D.: Starkist Effluent
Station No. 6104
American Samoa Canneried
Project

Date Collected 02/23/89 Date Analyzed 03/27-30/89

Time Collected 1600

Collected by EPA personnel

Analysis	Units	Analytical Results	Det.Lim.
Ammonia Nitrogen(N)(1)	mg/L	110	0.1
Total Kjeldahl Nitrogen(N)(2)	mg/L	210	0.2
Total Phosphate (P)(3)	mg/L	21	0.05

Comments: (1)Analysis by EPA Method 350.2, Distillation, Titrimetric.
(2)Analysis by EPA Method 351.3, Digestion, Distillation, Titrimetric.
(3)Analysis by EPA Method 365.2, Colorimetric Ascorbic Acid, Single Reagent.
Work Authorization: EPA Contract No. 9S0461NTSE
Delivery Order: 89-01

Analyst DB Manager Leverett D. Smith

This report applies only to the sample investigated and is not necessarily indicative of the quality of apparently identical or similar samples. The liability of the laboratory is limited to the amount paid for the report by the issuee. The issuee assumes all liability for the further distribution of this report or its contents and by making such distribution agrees to hold the laboratory harmless against all claims of whatever nature arising from the contents hereof.

Water Analysis Report

Kennedy/Jenks/Chilton, Laboratory Division
303 Second Street, Tenth Floor North
San Francisco, CA 94107
415-362-6065

For U.S. Environmental Protection Agency
Attn Mr. Peter Husby
Address 215 Fremont Street
San Francisco, CA 94105

Received 03/17/89
Reported 04/07/89

Lab. No. 891964

Source Sample I.D.: Starkist Effluent
Station No. 6103
American Samoa Canneried
Project

Date Collected 02/23/89 Date Analyzed 03/20-22/89

Time Collected 1600

Collected by EPA personnel

Analysis	Units	Analytical Results	Det.Lim.
Arsenic (As)(2)	mg/L	0.08	0.01
Beryllium (Be)(1)	mg/L	<0.002	0.002
Cadmium (Cd)(1)	mg/L	0.022	0.003
Total Chromium (Cr) (1)	mg/L	<0.005	0.005
Copper (Cu)(1)	mg/L	0.008	0.007
Lead (Pb)(2)	mg/L	<0.01	0.01
Mercury (Hg)(3)	mg/L	0.0002	0.0002
Nickel (Ni)(1)	mg/L	0.018	0.01
Selenium (Se)(2)	mg/L	0.055	0.01
Silver (Ag)(1)	mg/L	<0.01	0.01
Zinc (Zn)(1)	mg/L	0.26	0.003

Comments: (1)Analysis by inductively coupled argon plasma emission spectroscopy. (2)Analysis by atomic absorption spectrophotometry. (3)Analysis by cold-vapor atomic absorption spectrophotometry. Results reported in milligrams per liter.
Work Authorization: EPA Contract No. 9S0461NTSE
Delivery Order: 89-01

Analyst MW,TK Manager Everett L. Smith

This report applies only to the sample investigated and is not necessarily indicative of the quality of apparently identical or similar samples. The liability of the laboratory is limited to the amount paid for the report by the issuee. The issuee assumes all liability for the further distribution of this report or its contents and by making such distribution agrees to

AMERICAN SAMOA GOVERNMENT
PAGO PAGO, AMERICAN SAMOA 96799
GOVERNOR's OFFICE

In reply refer to:

January 30, 1984

Mr. Danny Collier
Project Officer
Office of Territorial Programs
Environmental Protection Agency
Region IX
215 Fremont Street
San Francisco, California 94105

Dear Danny:

Attached is the Annual Compliance Monitoring Inspection Reports for Van Camp Seafood Company of American Samoa and Star Kist. I apologize for the lateness of these reports. The change of staff which occurred in September and the preparation of these reports by a new staff person contributed to its lateness.

If you have any questions or concerns, please contact me.

Sincerely,

Pati Faiai, Executive Secretary
Environmental Quality Commission

cc: Environmental Quality Coord.
File

Attachments:

AMERICAN SAMOA GOVERNMENT
PAGO PAGO, AMERICAN SAMOA 96799
DEPARTMENT OF PUBLIC WORKS

In reply refer to:

November 18, 1982

Mr. Danny Collier
EPA Region IX
215 Fremont Street
San Francisco, California 94105

Danny:

Enclosed is a copy of the compliance monitoring survey conducted at Star Kist Samoa at the beginning of September 1982. As stated in the report this facility was not functioning very well at the time and will probably violate their permit limits for TSS for the month of September.

I have already met with them while I was writing the report and plan to hand carry a copy of the report to them. I have questioned the way in which they do their monitoring. It seems that during sampling days it was routine practice to reduce the flow during the eight hour period. The present plant engineer has stopped this practice about six months or/so ago as he felt the monitoring results may not be truely indicative of average plant performance. Although it is suppose to officially stopped you can see on some of the sampling days it still occurs.

The plant engineer seems to be truely concerned and the new General Manager has at least expressed that he is also concerned. I plan to make at least monthly visits there to monitor their procedure for a while as their discharge characteristics impact on the facility plan alternatives and water quality standards.

I'll let you know some time in January if there seems to be progress.

Sincerely,

Paul Liebendorfer

Paul Liebendorfer

Enclosures:

sent copy to Permits Br. 11/32

COMPLIANCE MONITORING

AND

WASTE WATER TREATMENT EVALUATION

AT

STAR KIST SAMOA, INC.
PAGO PAGO, AMERICAN SAMOA

August 30 thru September 2, 1982

Environmental Quality Commission
American Samoa Government
Pago Pago, American Samoa

Introduction

The Environmental Quality Commission of the American Samoa Government conducted a compliance monitoring survey at the Star Kist Samoa Inc. cannery located on Tutuila Island, American Samoa on August 30 thru September 2, 1982. Approximately .845 MGD of effluent were released daily during this monitoring period from the dissolved air floatation (DAF) system which treats all the industrial wastewater from this processing plant.

The NPDES permit, AS0000019, became effective May 8, 1980. Applicable effluent limitations are listed on Table I.

The fish processing operation and wastewater treatment facilities have previously been described in detail by NEIC (EPA 330/2-78-017). Modification to the facility since that report consist primarily of the addition of rotary screens in the sump prior to the DAF system. However, just prior to this inspection the bearings on the screen shaft froze and it was not operational during the inspection.

Inspection Report

A walk through inspection of the facility was conducted by the E.Q.C. Environmental Programs coordinator. The EQC inspectors were accompanied by Star Kist Plant engineering personnel and the wastewater treatment plant operator, at which time the calibration of the monitoring equipment was checked.

The volume of effluent released daily is measured at a 9 inch Parshall flume located just after the discharge is released from the DAF cell. At the time of the inspection the flow recorder was not functioning properly. Their records indicated that approximately six months prior to this inspection they felt this recorder would need to be replaced and placed an order for a new recorder. Two months prior to the inspection the recorder broke but the replacement had not arrived yet. They have been manually measuring the depth of flow in the flume every hour to determine the flow rate.

This matter was immediately taken up with the general manager of the facility who than contacted their Long Beach office to determine the delay. It was stated that they had been trying to obtain a new recorder but had been unable to do so to the present. They were informed that technically they werein violation of their permit which required continous flow monitoring. A review of their records indicated that their method appeared to provide a close approximation of the flow.

However they were told that they must have a continous flow monitoring recorder in place in the immediate future or they would be considered to be in violation of their permit. As of the writing of this report they have located and installed a recorder and therefore have complied with this condition and a citation will not be issued.

The calibration of their pH and temperature recorders was checked and these instruments were found to be recording accurately.

Sampling Procedures

Grab samples for determination of biological oxygen demand (BOD) and total suspended Solids (TSS) were collected hourly from the treatment plant influent and effluent from 8:00 a.m. until 3:00 p.m. on each sample day by the E.Q.C. inspection personnel. These samples grab samples were composited proportionally to the flow into one sample at the time of collection. Simultaneously, flow proportioned grab samples were composited by Star Kist personnel. Grab samples for determination of oil and grease were taken separately at 9:00 a.m., 12:00 noon, and 3:00 p.m. by both EQC and Star Kist personnel. Chain of custody procedures were maintained and all samples were kept in ice coolers during collection and transfer to the laboratory.

Sludge from the treatment plant is pumped into a boat and hauled out to sea for disposal at a designated ocean disposal site. An evaluation of this site was performed during the month of July by the Institute for Marine and Coastal studies and a report on that study should be available later this year.

TABLE I

Effluent limitations and monitoring requirements (based on a maximum production rate of 210 tons/day of seafood processed and an approximate flow rate of 1.2 MGD (0.53 cubic meters per second).

1. During the period beginning with the effective date of this permit and lasting through March 31, 1985, the permittee is authorized to discharge from Outfall Serial No. 001 (tuna processing wastewater).

   A. Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations				Measurement	Sample Type
	kg/day 30-day Average	(lbs/day) Daily Maximum	kg/kkg of seafood (lbs/1000 lbs of seafood) 30-day Average	Daily Maximum	Frequency	
Flow m^3/Day MGD	-	-	-	-	Continuous	Continuous
Temperature	-	-	-	-	Continuous	Continuous
BOD_5	-	-	-	-	Once Monthly	Composite
Total suspended solids	630 (1386)	1540 (3500)	3.3	-	Twice weekly	Composite
*Oil and **Grease	154 (350)	406 (882)	0.84 (0.84)	-	Twice weekly	Composite
**Total Nitrogen (Kjeldahl+Nitrate +Nitrite)	-	-	-	-	Once monthly	composite
**Total Phosphorus		-	-	-	Once monthly	composite

*The test procedure for the analysis of oil and grease shall comply with the method described in the manual of "Methods for Chemical Analysis of Water and Wastes," 1974, EPA, Methods Development and Quality Assurance Research Laboratory, page 229 (with written EPA approval for non-substantive changes) or an alternate procedure approved in accordance with the procedures specified in regulations published pursuant to Section 304(h) of the Act.

**Samples shall be taken concurrently.

TABLE 2

August 31, 1982

Sample Time	Flow	Volume Composited	Temperature °F EQC	SK	pH	Color
8:30 a.m.	.63 (440)	220	86	82	6.9	Lt. brown
9:00 a.m.	.65 (455)	228	84	85	6.8	" "
10:00 a.m.	.63 (440)	220	84	85	7.0	" "
11:00 a.m.	.65 (455)	228	82	85	7.0	" "
12:00 noon	.65 (455)	228	83	85	6.9	" "
1:00 p.m.	.58(400)	200	85	86	6.9	" "
2:00 p.m.	.65 (455)	228	82	85	6.8	" "
3:00 p.m.	.67 (470)	235	84	84	6.8	" "
Sept. 1, 1982						
8:00 a.m.	.61 (427)	214	84	85	6.6	Lt. brown
9:00 a.m.	.65 (455)	228	84	85	6.8	" "
10:00 a.m.	.49 (343)	171	84	85	6.6	" "
11:00 a.m.	.61 (427)	214	84	85	6.6	" "
12:00 noon	.54 (378)	189	84	85	6.7	" "
1:00 p.m.	.65 (455)	228	84	85	6.7	" "
2:00 p.m.	.65 (455)	228	84	85	6.7	" "
3:00 p.m.	.77 (539)	270	82	85	6.5	" "
Sept. 2, 1982						
8:00 a.m.	.65 (455)	228	84	83	6.9	Lt. brown
9:00 a.m.	.63 (440)	220	82	83	6.9	" "
10:00 a.m.	.79 (550)	275	82	83	6.7	" "
11:00 a.m.	.86 (602)	301	82	83	6.7	dark brown
12:00 noon	.67 (469)	235	82	83	6.7	dark brown
1:00 p.m.	.96 (672)	236	82	83	6.9	dark brown
2:00 p.m.	.79 (550)	275	81	82	6.9	dark brown
3:00 p.m.	.81 (567)	284	81	81	6.9	dark brown

TABLE 3

COMPARISON OF SPLIT SAMPLE DATA

BOD_5

Date	Sample Composite	EQC Analysis	SK Analysis	Ratio S.K./EQC
Aug. 31	EQC Influent	1140	5550	4.86
Sept. 1	EQC Influent	1170	8150	6.96
Sept. 2	EQC Influent	1200	7952	8.29
Aug. 31	S.K. Influent	1080	6550	6.06
Sept. 1	S.K. Influent	1260	7200	5.71
Sept. 2	S.K. Influent	1200	9850	8.21
Aug. 31	E.Q.C. Effluent	960	1986	2.07
Sept. 1	E.Q.C. Effluent	840	2460	2.93
Sept. 2	E.Q.C. Effluent	1020	2440	2.39
Aug. 31	S.K. Effluent	780	2066	2.65
Sept. 1	S.K. Effluent	840	2166	2.58
Sept. 2	S.K. Effluent	1170	2610	2.23

Table 4

COMPARISON OF SPLIT SAMPLE DATA

Date	Sample Composite	Total suspended Solids EQC Analysis (mg/l)	S.K. Analysis (mg/l)	Ratio SK/EQC
Aug. 31	EQC Influent	1,040	1,530	1.47
Sept. 1	EQC Influent	1,580	1,820	1.15
Sept. 7	EQC Influent	1,964	2,260	1.15
Aug. 31	S.K. Influent	1,175	1,370	1.17
Sept. 1	S.K. Influent	1,460	2,200	1.51
Sept. 2	S.K. Influent	1,624	2,965	1.83
Aug. 31	EQC. Effluent	248	170	.69
Sept. 1	EQC Effleunt	240	228	.95
Sept. 2	EQC Effluent	302	428	1.42
Aug. 31	S.K. Effluent	382	156	.41
Sept. 1	S.K. Effluent	372	318	.85
Sept. 2	S.K. Effluent	372	436	1.17

TABLE 5

COMPARISON OF SIMULTANEOUSLY COLLECTED OIL AND GREASE SAMPLES

Date	Sample	Time	EQC Analysis (mg/l)	S.K. Analysis (mg/l)	Ratio SK/EQC
Aug. 31	Influent	12:00 noon	96	318.4	3.32
Sept. 1	Influent	12:00 noon	329	637.0	1.94
Sept. 2	Influent	12:00 noon	235	752.2	3.20
Aug. 31	Effluent	9:00 a.m.	15	20.0	1.33
		12:00 noon	13	21.2	1.63
		3:00 p.m.	25	43.6	1.74
		Average	18	28	
Sept. 1	Effluent	9:00 a.m.	49	29.3	.60
		12:00 noon	35	32.4	.93
		3:00 p.m.	97	37.5	.39
		Average	60	33	
Sept. 2	Effluent	9:00 a.m.	21	27.4	1.30
		12:00 noon	51	31.8	.62
		3:00 p.m.	83	43.1	.52
		Average	51	34.1	

Table 6

NUTRIENT ANALYSIS

Date	Sample	Analysis	Concentration (mg/l)
Aug. 31	Influent	TKN	395
	Effluent	TKN	252
	Influent	TP	112
	Effluent	TP	60
Sept. 1	Influent	TKN	492
	Effluent	TKN	343
	Influent	TP	99
	Effluent	TP	70.5
Sept. 2	Influent	TKN	468
	Effluent	TKN	337
	Influent	TP	110
	Effluent	TP	66

All nutrient data supplied by Star Kist as E.Q.C. does not have lab capability to run these analysis.

TABLE 7

WASTEWATER TREATMENT PLANT EFFICIENCIES - STAR KIST SAMOA, INC.

Pago Pago, American Samoa - August 31 thru Sept. 2, 1982

Date	Fish Processed (Ton)	BOD(mg/l) Influent	BOD(mg/l) Effluent	% BOD Removed	TSS(mg/l) Influent	TSS(mg/l) Effluent	%TSS Removal	Oil & Grease (mg/l) Influent	Oil & Grease (mg/l) Effluent	O&G % Removal
Aug. 31	Confidential	3580	1448	59	1279	236	81	207	23	89
Sept. 1		4445	1576	64	1765	290	83	483	47	90
Sept. 2		5550	1810	67	2203	384	82	493	43	91

Note: Concentrations based on average of all reported data.

TABLE 8

SUMMARY OF EFFLUENT QUALITY

Date	Flow (MGD)	BOD(mg/1)	TSS(mg/1)	N(mg/1)	P(mg/1)	O&G (mg/1)
8/31	.773	1448	236	252	60	23
9/1	.930	1576	290	242	71	47
9/2	.833	1876	384	337	66	43

Daily loading (permit restricted)

Date	TSS Total #	TSS #/1000#	O&G Total #	O&G #/1000#
8/31	1521	3.3	147	0.32
9/1	2249	4.8	364	0.78
9/2	2668	5.6	298	0.62
Avg.	2146	4.56	269	0.57
Permit	1386 Avg.	3.3	350 Avg.	0.84
	3500 Max		882 Max.	

Data Analysis

Table 2 is a synopsis of all the sampling data collected during the survey.

Table 3 is a comparison between the BOD_5 results as analysized by the EQC lab and the Star Kist lab. There appears to be a significant difference between these values with Star Kist reporting two to eight times the concentrations as that found by EQC. As this is not a permit limited contaminant immediate follow up to determine these differences has not be done. A determination of possible causes for these differences will be looked into during the first quarater FY83 inspection.

Table 4 is a comparison between the total suspended solids results as reported by the two labs. The average variation between the results is not significant enough to indicate anything more than random difference between samples.

Table 5 compares the Oil and Grease analysis performed by both labs. These results are from individually collected grap samples and therefore direct comparison of these results cannot be used to indicate the accuracy of the analytical procedures. However, as there is reasonably good comparison bewteen the average results it can be assumed that the analytical procedures used are acceptable and the removal efficiencies of the facility are relatively consistant.

Table 6 is a tabulation of the nitrogen and Phosphorous results performed by the Star Kist labs. The EQC is presently not capable of performing these tests.

Table 7 is a composite tabulation of all the results and compares the treatment plant removal efficiencies for the days during the monitoring period.

Table 8 is a sumaary of the effluent quality during the monitoring period and compares the actual limited effluent characteristics with the permit conditions. It can be seen that during the monitoring period the facility was discharging significantly greater quantities of solids than the average daily permit limits although at no time did they exceed the maximum daily permit limitations. The facility was revisited during early November inorder to determine the causes as their DMR's do not indicate any problems.

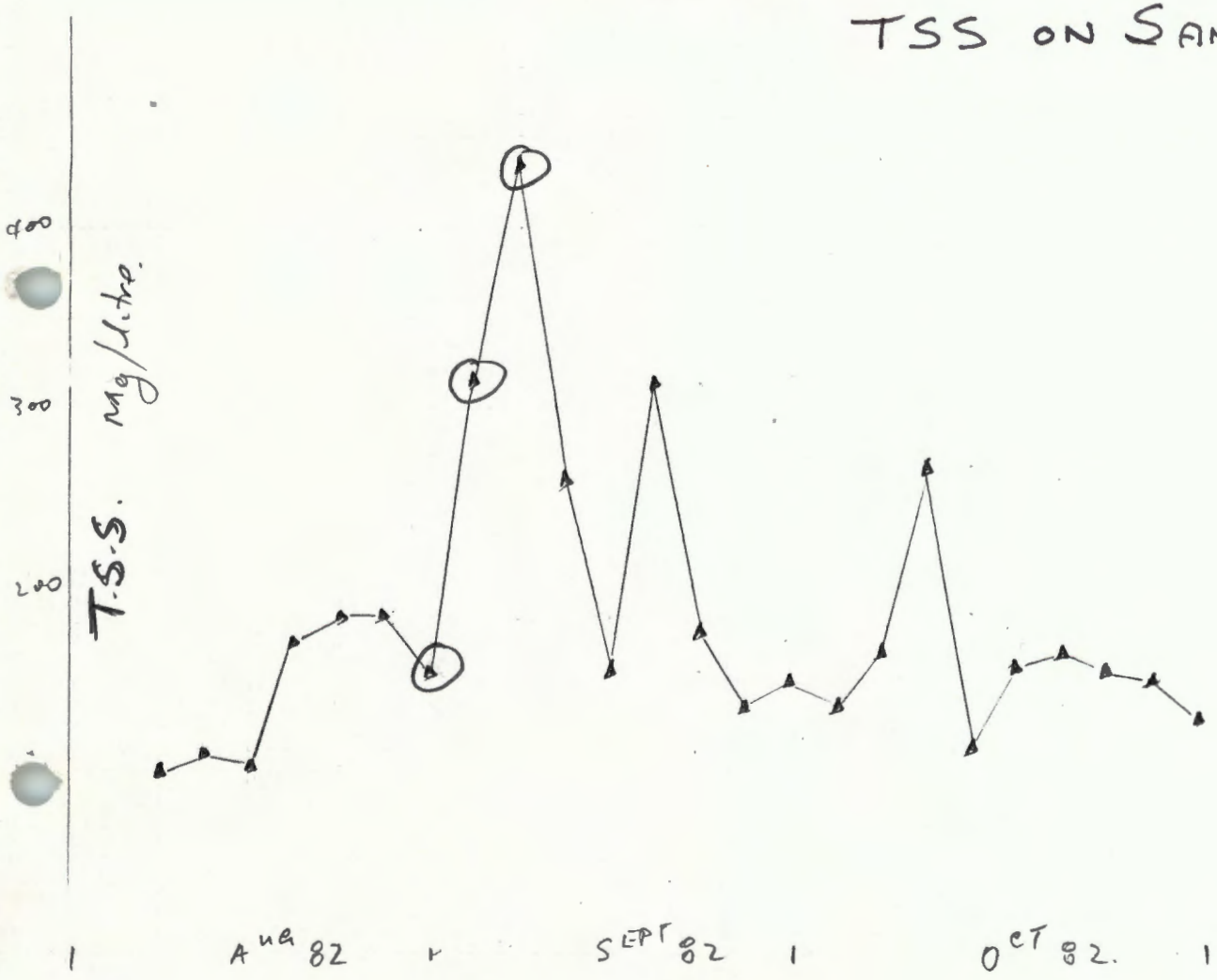
As was stated earlier their roto screens were not functioning properly during this monitoring period which permitted substantially higher solids loading to the DAF cell than normal. In addition the week prior to sampling the DAF unit experienced some mechanical problems. Both of the above would result in a greater concentration of solids being built up in the unit which would result in lower removals.

Attached is a graph prepared by Star Kist plant engineering showing the concentration of TSS in the discharge for the months of August, September and October 1982. The three monitoring day from this survey are circuled on the graph. All the data has not be reduced yet but it appears their TSS discharge may have violated their permit during the month of September. As can be seen from the graph they still are getting TSS spikes but the operation appears to be stablishing.

It is the intent of EQC to perform monthly inspections at least thru the next quarter to assure the operation has stablized and the facility is consistantly producing an acceptable equality effluent.

Graph I

TSS on Sampling Days



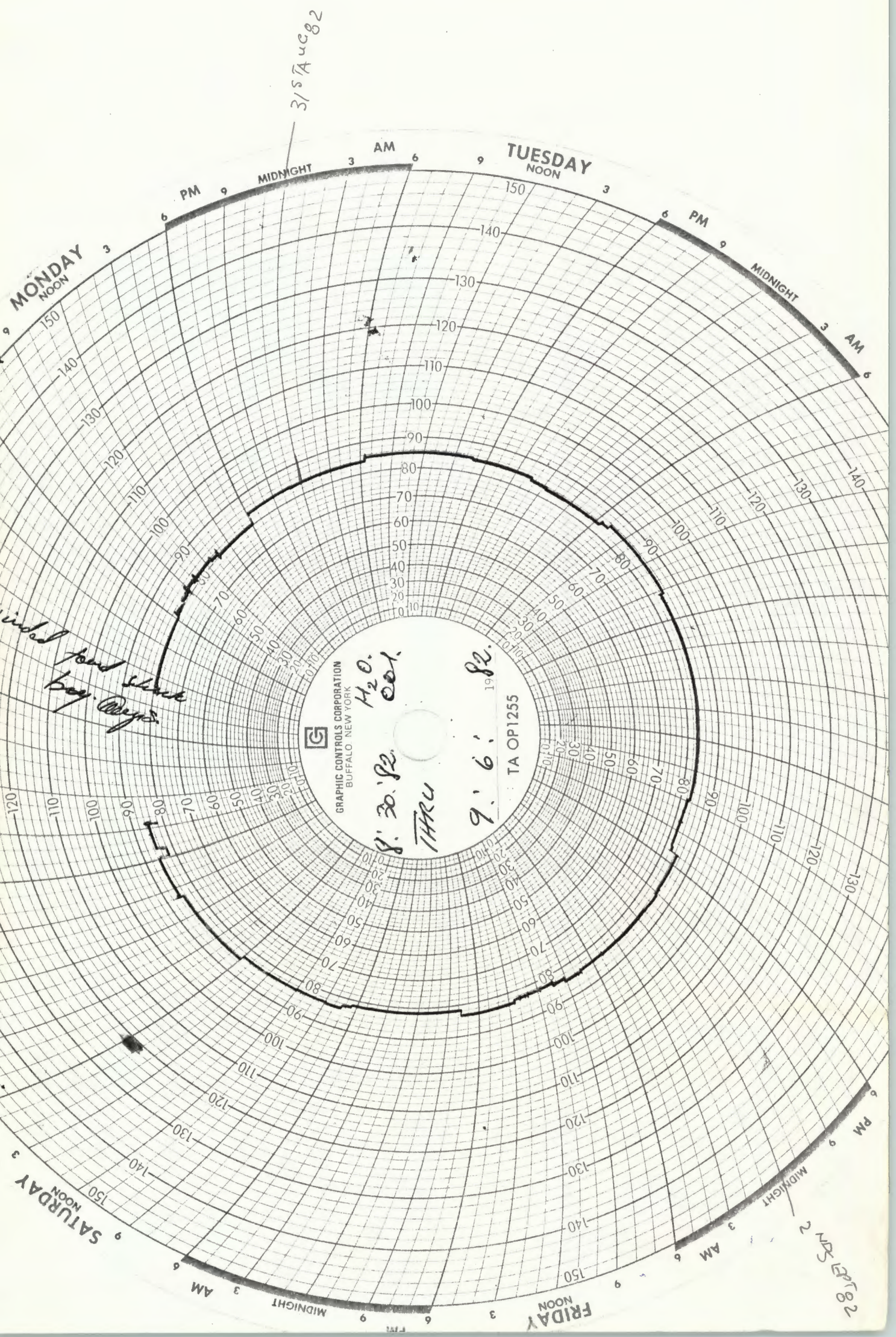
EATON Cutler-Hammer®

DATE

REF

TEMPERATURE CHARTS. STARKIST SAMOA OUTFALL.

FOR PERIOD 30TH AUG 82 to 6TH SEPT 82.



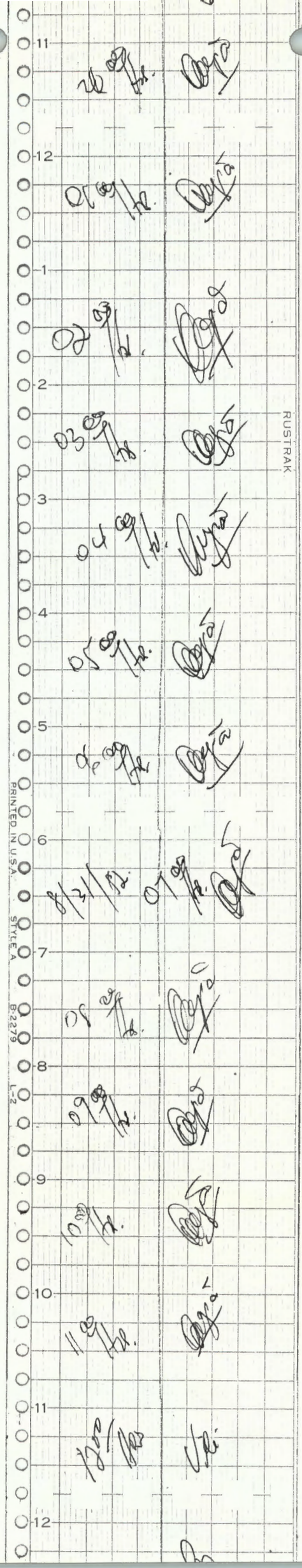
31ST AUG 82

PH CHART

FOR STARKIST

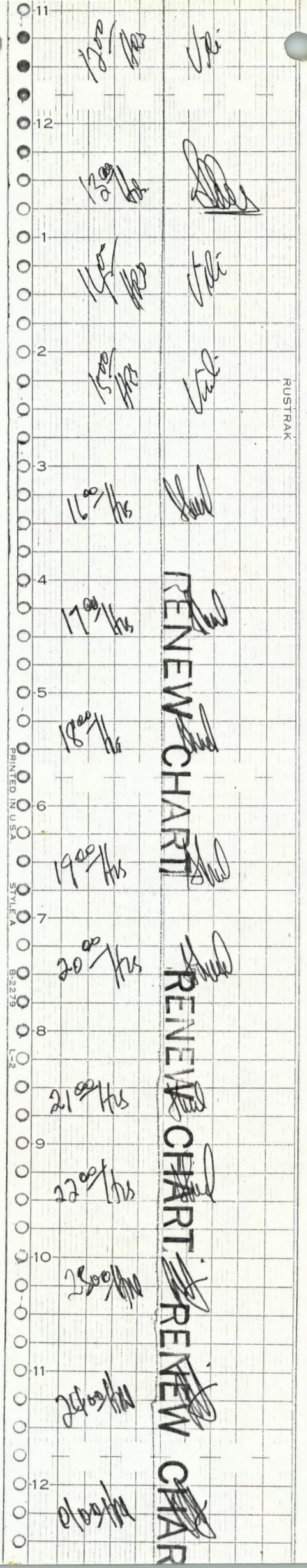
SAMOA OUTFALL

LINE



31ST AUG 82

31ST AUG 82



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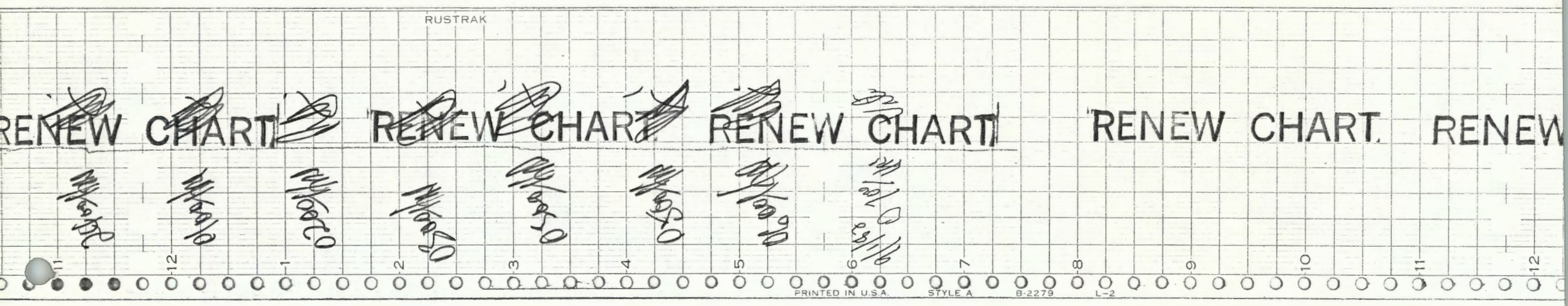
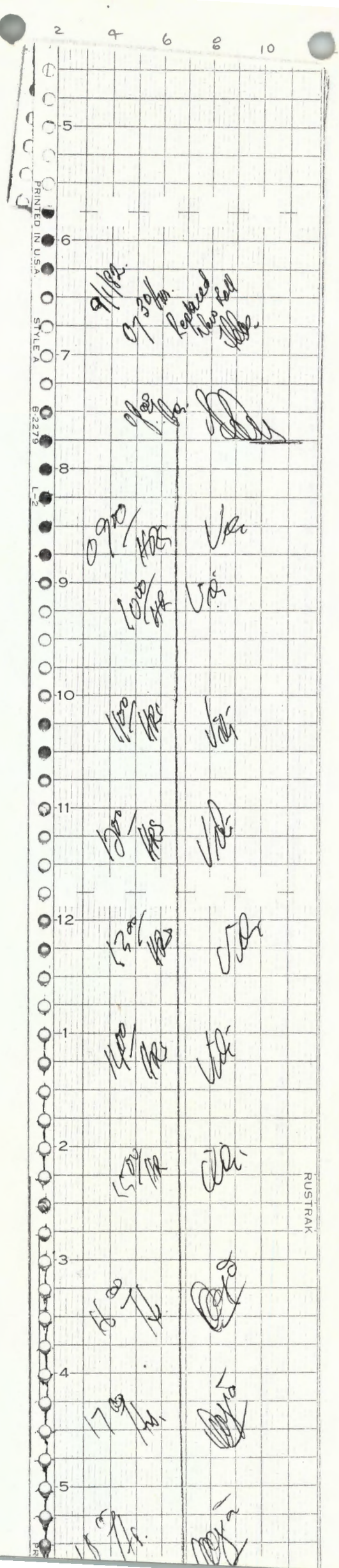


1ST SEPT 82

1ST SEPT 82



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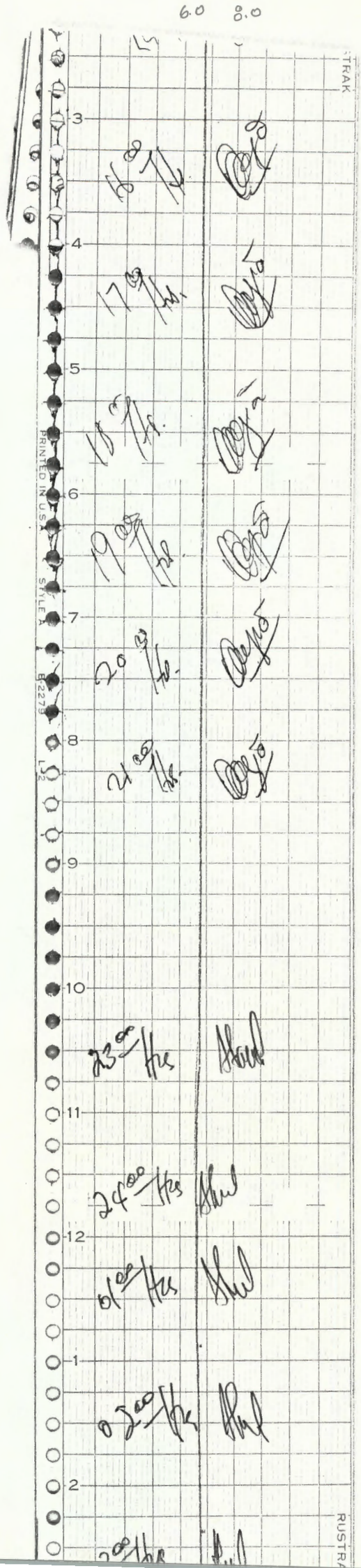

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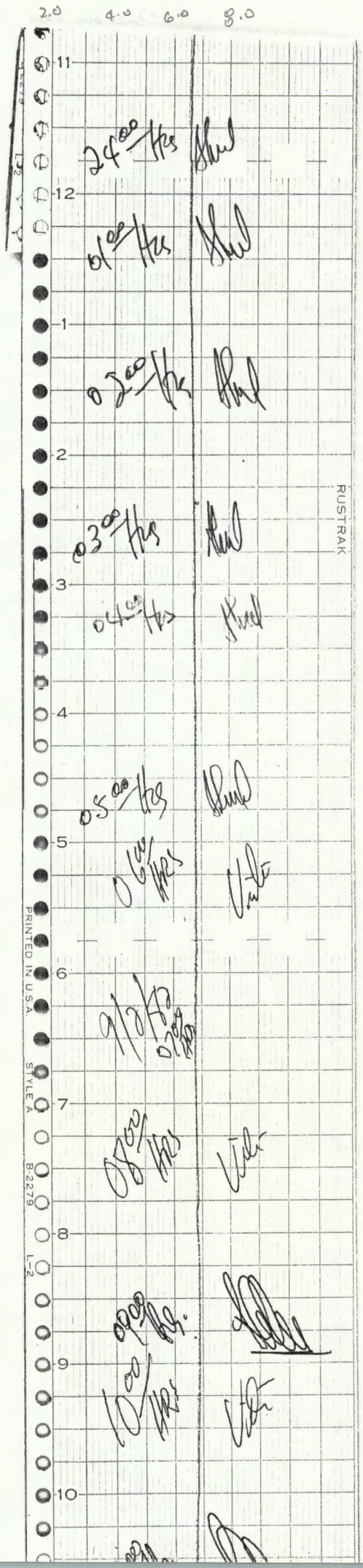
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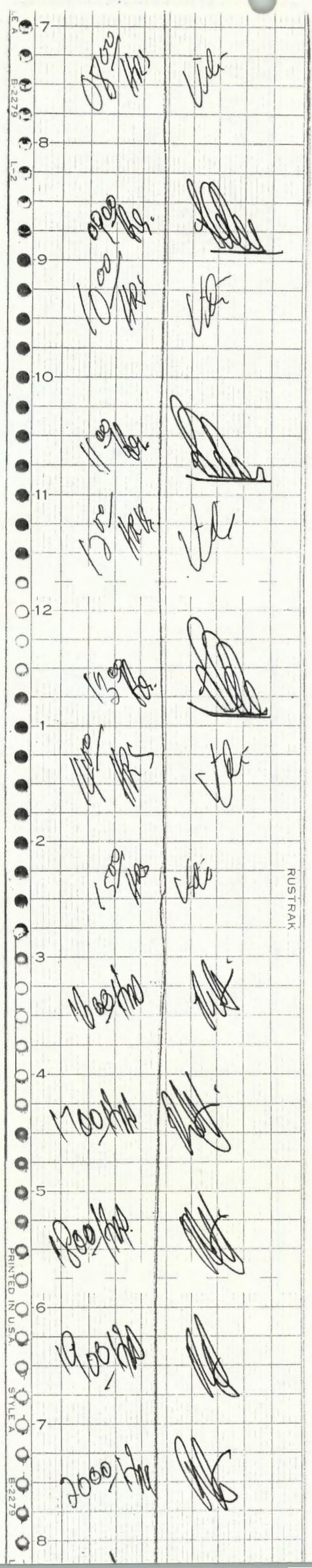

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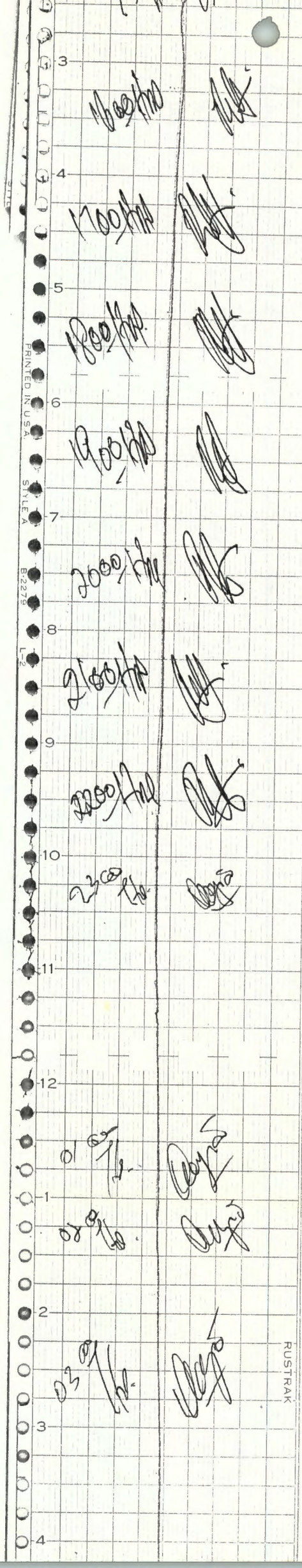

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STAR-KIST SAMOA, INC. – WASTE WATER TREATMENT LOG

DATE	LEVEL	AGITATE	PARSHALL	pH	WATER	FLOCK	AIR	LEVEL	BACK	LEVEL	ROTARY	SUMP	AUX.	AIR	
8/31/02	46 1/16"		836030 700	7.1	84°F	VERY THICK	3.0	14.0	49	14 1/2"	Out	OK	Wet	120	
HOUR	ALUM TANK	ALUM TANK	FLOW	READ.	TEMP.	CONDITION	INJECT	SURGE	PRESSURE	POLY. TANK	SCREEN	PUMP	GENERATOR	PRESS	
01 00	45 15/16"	Blood	836080 700	7.1	84°F	Getting wet.	3.0	15.5	49	17"	—	/	/	120.	
02 00	45 3/4"	/	636150 700	7.1	84°F	/	3.0	15.8	49	22 1/2"	—	/	/	120.	
03 00	45 1/2"	/	836167 700	7.1	84°F	moving wet	3.0	15.5	49	3"	—	/	/	122.	
04 00	45 3/16"	/	836209 700	7.1	84°F	/	3.5	15.5	49	7"	—	—	—	120	
05 00	45"	/	836243 700	7.0	84°F	/	3.5	14.5	49	11 1/2"	/	—	/	120.	
06 00	44 7/8"	/	836272 610	7.0	84°F	/	3.5	13.0	50	15 1/8"	/	/	/	120.	
07 00	44 3/4"	/	836325 455	6.9	84°F	/	3.5	12.5	54	18 1/2"	—	/	/	120.	
08 00	Off	—	836352 0	7.7	85°F	—	—	12.0	Off	Off	—	—	—	120	

Remarks: 23 20/hrs. Added one and half inches ring on every risers need to push down the rubbish Also clean air injection straine. 23 45/hrs Started the Grit Pumps for cleaning the bottom of the D.A.F cell. Also increased the flow 600 up to 700 G.P.M. cause Surge tank level is getting high. 24 10/hrs Rechecked air injection straine and clean. 01 05/hrs. Re clean the bottom of the D.A.F cell. Also rechecked S. Pumps found ok. just still spraying. Also removed off one half inche ring from every risers. 02 15/hrs. Mixed 1 1/2 bbl of Polymer chemical

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STAR-KIST SAMOA, INC. – WASTE WATER TREATMENT LOG

DATE	LEVEL	AGITATE	PARSHALL	pH	WATER	FLOCK	AIR	LEVEL	BACK	LEVEL	ROTARY	SUMP	AUX.	AIR	
8/31/82	44 3/4"		836352	6.8	85°F	Moving		12.0	OK	18 1/2"	Out	OK.	out	120.	Reserve tank
HOUR	ALUM TANK	ALUM TANK	FLOW	READ.	TEMP.	CONDITION (log)	3.5 INJECT	SURGE	PRESSURE	POLY. TANK	SCREEN	PUMP	GENERATOR	PRESS	Started 10 10 Hrs.
09 00	44 5/8"	Blown	836384 450 (37)	6.8	85°F	✓	3.5	12.0	56	Mix	—	✓	✓	120.	Stop 10 22 Hrs.
10 00	44 1/2"	✓	836421 430 (35)	6.8	85°F	✓	3.5	12.5	57	6 1/2"	—	✓	✓	120.	7'.
11 00	44 3/8"	—	836456 455	6.9	85°F	✓	3.0	12.3	58	10 1/2"	—	—	—	120	
12 00	44 1/8"	—	836492 450	7.0	85°F	—	3.0	12.0	56	12 3/8"	—	—	—	120	M.V. Nisimoa
13 00	44"	Blown	836525 400	6.9	85	—	3.0	11.5	57	16 1/2"	—	—	—	120.	Arr. 11-10 Hrs.
14 00	43 7/8"	—	836559 455	6.8	85°F	—	3.0	11.8	58	19 7/8"	—	—	—	120	
15 00	43 5/8"	—	836590 459	6.8	85°F	—	3.0	12.8	~~Mix~~ 5.8	Mix	—	—	—	121	
16 00 Hrs	43 3/8"	"	836621 455	6.8	84°F	Good	3.0	13.0	60.	6 1/4"	Out	#9 ok	Out	121.	

Remarks. 07 49 Hrs. Turned off the Plant Air injection nepple it was block. 08 05 Hrs. Started on the Plant after cleaning the nepple. 08 30 Hrs. E.P.A Started sampling of water 09 00 Hrs. Crank oil and Grease and took to the lab. 11 45 Hrs – Still clean the Grinding.

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STAR-KIST SAMOA, INC. – WASTE WATER TREATMENT LOG

DATE	LEVEL	AGITATE	PARSHALL	pH	WATER	FLOCK	AIR	LEVEL	BACK	LEVEL	ROTARY	#9 SUMP	AUX.	AIR
8/31/82	43 3/8"	Blown	836621 455	7.8	84°F	Good	3.0	13.0	60	6 1/4"	Out	ok	Out	121
HOUR	ALUM TANK	ALUM TANK	FLOW	READ.	TEMP.	CONDITION	INJECT	SURGE	PRESSURE	POLY. TANK	SCREEN	PUMP	GENERATOR	PRESS
17 00 Hrs	43 1/8"	"	836652 400	7.8	84°F	"	3.0	13.0	50	9 3/8"	"	"	"	120.
18 00 Hrs	42 7/8"	"	836683 658	7.9	84°F	"	3.0	12.5	53	12 1/2"	"	"	"	123
19 00 Hrs	42 5/8"	"	836704 650	7.9	84°F	"	3.0	12.0	53	15 5/8"	"	"	"	122.
20 00 Hrs	42 3/8"	"	836752 650	6.9	84°F	"	3.0	12.5	53	18 3/4"	"	"	"	121.
21 00 Hrs	42 1/8"	"	836845 650	6.9	84°F	"	3.0	12.0	50	21 7/8"	"	"	"	120.
22 00 Hrs	42"	"	836882 600	6.9	84°F	"	3.0	11.5	51	Mix	"	"	"	120.
2300 Hrs	41 7/8"	Blown!	839927 698.	6.9	85°F	–	3.5	15.0	54.	Still Mix	Repair.	#9 ok	–	120.
24 00 Hrs	41 5/8"	–	839980 850	6.8	84°F	–	3.5	15.4	48	3 1/2"	–	–	–	120.

Remarks:- 15 00 Hrs E.P.A. Sampling today, Grab the Composite And Oil and Crease for Lab testing, 15 25 Hrs Checked both chemicals, And Clean the Air injection Strainer, Out Sludge line Cut off By Welding-men Do not Load Vessel Misimoa Until New line Finish, 16 10 Hrs Start Clean Around the Launder By Using Water Hose, 16 40 Hrs Clean the Strainer Again, 18 25 Hrs Checked #9 S. Pump found ok, R. screen in Repair. 19 15 Hrs Clean the Strainer, 21 20 Hrs Start Mix 1 1/2 lbs of Polymer,

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STAR-KIST SAMOA, INC. – WASTE WATER TREATMENT LOG

DATE 9/31/82	LEVEL 41 5/8"	ROTATE Blown.	PARSHALL 839980 850	PH 6.8	WATER 82°F	FLOCK Good Moving.	AIR 3.5	LEVEL 15.4	BACK 48.	LEVEL 5 1/2"	ROTARY Repear.	SUMP #9 ok	AUX. out.	AIR 120.	R. Tank.
HOUR	ALUM TANK	ALUM TANK	FLOW	READ.	TEMP.	CONDITION	INJECT	SURGE	PRESSURE	POLY. TANK	SCREEN	PUMP	GENERATOR	PRESS	
0100 Hrs	41 3/8"	"	837034 850	6.7	83°F	–	3.5	15.8	47.	7 1/8"	"	#9 ok	"	120.	Start Load or 00 Hrs
0200 Hrs	41 1/8"	Blown!	837093 850.	6.7	83°F	Thick.	3.5	16.0	44.	10 1/4"	"	"	"	120.	Finish. 02 14 Hrs
0300 Hrs	40"	"	837144 900.	6.8	83°F	–	3.5	16.4	44.	13 1/8"	"	"	out	121.	Total. 7'
0400 Hrs	40 7/8"	"	837205 1000.	6.6	83°F	–	3.5	16.8	45.	16 1/2"	"	#9 ok	"	122.	
0500 Hrs	40 5/8"	Blown!	837263 900.	6.7	83°F	Good Moving.	3.5	15.8	45.	19 1/4"	"	"	"	122.	
0600 Hrs	40 3/8"		837318 850.	6.7	83°F	–	3.5	15.2	47.	Mix	"	#9 on!	out	122.	
0700 Hrs	40 1/4"	Blown	837376 850	6.7	83°F	–	3.5	11.0	58	6 1/2"	–	–	–	122.	
0800 Hrs	40 3/8"	–	837413 ~~214~~ 428	6.6	86°F	–	3.0	11.8	58	11"	–	–	–	120	

Remarks:- 23 00 Hrs Start check the old Plant. the water Still Process. Also check the injection air Strainer and clean. 24 18 Hrs Check the Sump Pump # Still working in Automatic the new Screen in Repear. 02 00 Hrs clean the air Strainer. Reset the flow to be 800 G.P.M. 02 16 Hrs Check the P.H. and check the Sump Pump. refill the oil for #7 Process Pumps. 06 00 Hrs Start mix the Polymer. 06 26 Hrs clean up the Plant. and clean the air Strainer. 08 00 Hrs. Starting the test from E.P.A. Also still Clean the Air injection.

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STAR-KIST SAMOA, INC. – WASTE WATER TREATMENT LOG

H/Sq in

DATE	LEVEL	AGITATE	PARSHALL	pH	WATER	FLOCK	AIR	LEVEL	BACK	LEVEL	ROTARY	SUMP	AUX.	AIR	
9/1/82	40 3/8"	Blower	837413 ~~428~~	6.6	86°F	Good	3.0	11.8	58	11.8 7"	Ok	S.#9	Out	120	Sludge
HOUR	ALUM TANK	ALUM TANK	FLOW	READ.	TEMP.	~~CONDITION~~ Moving	INJECT	SURGE	PRESSURE	POLY. TANK	SCREEN	~~PUMP~~ Ok	GENERATOR	PRESS	tank to
09 00 Hrs	40 1/8"	"	455.	6.6	85°F	Good.	3.0	11.1	58	14½.	Repair	"	"	P.S.I. 120	R. Tank.
10 00 Hrs	39 7/8	Blower	343.	6.6	85°F	"	3.0	11.0	50	16½	"	"	"	120	7'
11 00 Hrs	39 3/4"	"	427	6.6	85°F	"	3.0	11.0	55	19"	"	"	"	120	Start 12 26 Hrs.
12 00 Hrs	39 1/2"	—	378	6.7	85°F	—	3.0	11.0	55	14½	"	"	"	120	Finish – 12 40 Hr
13 00 Hrs	39 3/8"	—	837551 ~~228~~ 455	6.7	85°F	—	3.0	11.0	56	5½"	"	"	"	119	
14 00 Hrs	39 1/4"	—	83715 ~~228~~ 455	6.7	85°F	—	3.0	14.3	57	7 1/8"	"	"	"	119	
15 00 Hrs	39 1/8"	—	83756 ~~270~~ 540	6.7	85°F	—	3.0	14.0	57	10"	—	"	"	120	
16 00 Hrs	39 1/16"	—	837695 750	6.8	85°F	"	3.0	15.5	60	13"	—	—	—	120	

Remarks. 08 00 Hrs Start Samping the E.P.A. Also Our Sample too. & the Airinjection still Clean. Almost ever 15 mins.

15 25 Hrs. Increased the Flow 500 up to 700 Surge level Oil & Grease is getting full. (~~15 30 Hrs~~) Also changed #7 Process Pump #7 Sept. 1st 1982 from #6. need to repacking #7 Process Pump.

15 40 Hrs. Checked S. Pump found ok. just still spray.

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STAR-KIST SAMOA, INC. – WASTE WATER TREATMENT LOG

DATE 9/1/82	LEVEL 38 15/16"	AGITATE	PARSHALL 837695	pH	WATER	FLOCK	AIR	LEVEL	BACK	LEVEL	ROTARY	SUMP	AUX.	AIR	
9 HOUR	ALUM TANK	ALUM TANK	FLOW 750	6.8 READ.	85°F TEMP.	CONDITION	3.5 INJECT	15.5 SURGE	60 PRESSURE	13" POLY. TANK	ok SCREEN	#9 PUMP ok	out GENERATOR	120 PRESS	
17 00	38 3/4"	Blower	837743 680	6.8	85°F	Moving (good)	3.5	16.0	65	17½"	—	/	/	120.	
18 00	38 9/16"	/	837796 610	6.8	85°F	/	3.5	16.5	64	21"	9 —	/	/	120	
19 00	38 5/16"	/	837839 740	6.9	85°F	/	3.5	15.8	50	4½"	19 —	/	/	120.	
20 00	38 1/16"	/	837884 710	6.9	84°F	/	3.5	15.5	48	8 7/8"	280 —	/	/	120.	
21 00	37 15/16"	/	837933 500	6.9	84°F	/	3.5	14.8	65	12½"	—	/	/	120	
22 00	37 11/16"	/	837963 600	6.9	84°F	/	3.5	14.5	60	16¼"	—	/	/	120	
23 00 Hrs.	36 7/8"	Blower	837943 550	6.9	84°F	Good	3.5	14.0	55	19 3/8"	ok	#9 on	Out of order	116.	
24 00 Hrs.	36 5/8"	"	837942 550	6.9	84°F	"	3.5	14.0	55	Mix	"	"	"	116.	

Remarks 16 15 Hrs. Reclear air injection strainer. Also refill oil to #6. Process Pump.
17 20 Hrs. Rechecked S. Pump found still working in Automatic. ~~Screen, in g~~
Fish still spraying. 18 08 Hrs Increased the Flow 610 up to 800 Cy. P. M.
Surge Tank is geting full. Also mix 1½ lbs of Polymer chemical.
21 08 Hrs. Re clear air injection strainer. Also fish still spray.

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SKS 2-0719 (11-77)

STAR-KIST SAMOA, INC. – WASTE WATER TREATMENT LOG

DATE	LEVEL	AGITATE	PARSHALL	PH	WATER	FLOCK	AIR	LEVEL	BACK	LEVEL	ROTARY	SUMP	AUX.	AIR	
9.2.82	36 5/8"	Blown	837944 550	6.9	84°F	Good	3.5	14.0	54	Mix	OK	#9 OK	Out	116.	Reserve Tank Start Pump 02 15 Hrs
HOUR	ALUM TANK	ALUM TANK	FLOW	READ.	TEMP.	CONDITION	INJECT	SURGE	PRESSURE	POLY. TANK	SCREEN Repair	PUMP	GENERATOR	PRESS	
01 00	36 7/16"	"	837944 550	6.9	84°F	"	3.5	14.8	55	4 3/8"	"	"	"	116.	Finish
02 00	36 1/4"	"	837944 560	6.9	84°F	"	3.5	15.8	54	7 1/2"	"	"	"	120.	R. Tank. 7'
03 00	35 15/16"	"	837944 780	6.9	84°F	"	3.5	16.5	55	10 5/8"	"	"	"	120.	Start – 07 45 Hrs
04 00	35 3/4"	"	837944 800	6.9	84°F	Thick	3.5	17.0	41	13 3/4"	"	"	"	120.	Finish – 08 05 Hrs
05 00	35 9/16"	"	837944 840	6.8	84°F	"	3.5	17.5	42	16 7/8"	"	"	"	120.	
06 00	35 5/16"	—	837945 805	6.8	84°F	—	3.5	17.0	37	18"	✓	—	—	120	
07 00	35 1/2"	—	83745 805	6.8	85°F	—	3.5	18.0	37	Mix	—	—	—	120	
08 00	35 3/8"	—	837945 455	6.9		—	3.0	17.5	68	5"	—	—	—	120	

Remarks: 23 10 Hrs Reset both chemicals, also clean the air injection strainer 24 30 Hrs Start mix 1 1/2 lbs of Polymer chemical, #9 still working in automatic, R. Screen in Repair, 01 30 Hrs clean the strainer again 02 45 Hrs Increase again the flow into 700 cause surge level getting High, 16.5, 03 25 Hrs Heavy Rain start falling, also Fish still. Spraying, 04 15 Hrs Reclean the strainer, and Rechecked #9 Stainless found ok, 07 35 Hrs Reduce the flow to 455.

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9-2-82.

STAR-KIST SAMOA, INC. – WASTE WATER TREATMENT LOG

DATE	LEVEL	AGITATE	PARSHALL	pH	WATER	FLOCK	AIR	LEVEL	BACK	LEVEL	ROTARY	SUMP	AUX.	AIR	
2 Sept 82	35 3/8	Blown	455	6.9	83°F	getting	3.0	17.5	68	5"	Repair	#9	Out.	120	R. Tank.
HOUR	ALUM TANK	ALUM TANK	FLOW	READ.	TEMP.	CONDITION Thick	INJECT	SURGE	PRESSURE	POLY. TANK	SCREEN	PUMP	GENERATOR	PRESS	12 25 Hrs 7'
09 00 Hrs	35 1/4"	Blown	440	6.9	83°F	–	4.0	16.3	65	8 1/2	–	–	–	120	Finish 12 45
10 00 Hrs	35 1/8"	–	550	6.9	83°F	–	4.0	15.5 ~~15 1/2~~"	60	11 1/2"	–	–	–	120	R. Tank.
11 00 Hrs	35"	–	602	6.7	83°F	–	4.0	15.8	58	14 7/8"	–	–	–	120	Start Reload. 15 33 Hrs.
12 00 Hrs	34 7/8	–	469	6.7	83°F	–	4.5	16.5	50	17 1/8	–	–	–	120	Finish.
13 00 Hrs	34 5/8"	–	672.	6.9	83°F.	–	4.0	17.8	55	19 1/8"	–	–	–	120	Total. 7'
14 00 Hrs	3 1/2"	–	564 ~~282~~	6.9	82°F	–	4.0	15.0	55	21 7/8"	–	–	–	120	
15 00 Hrs	34 3/8"	Blown.	8880 ~~700.~~	6.9	83°F	Good.	3.5	12.4	51.	27 1/2"	Repair.	#9 ok	out.	119.	
1600 Hrs	34 1/4"	–	700.	6.7	83°F	–	3.5	12.4	53.	2 3/8"	–	#9 ok	–	119.	

Remarks... 07 30 Hrs Reduced the flow to 455 – 08 00 Hrs – Start Sampling of the E.P.A. 08 10 Hrs – Lole Still Clean the Circulation – Until the Sample will be finish. Increased the flow to 600 at 10 00 Hrs. due to a Heavy H_2O Water. Surge Tank level is 15.5 Reading. By Toc. (Last day EPA Survey). 13 00 Hrs. The outfall flow is up to 672 and the surge tank is full and overflow down to DAF cause increasing the flow. Start mix the Polymer. also 15 35 Hrs. Checked the old Plant. Start clean the air Strain.

[signature]

SKS 2-0719 (11-77)

9-2-82

STAR-KIST SAMOA, INC. – WASTE WATER TREATMENT LOG

DATE	LEVEL	AGITATE	PARSHALL	PH	WATER	BLOCK	AIR	LEVEL	BACK	LEVEL	ROTARY	PUMP	GENERATOR	AIR	
2-8-82	32 1/2"	Blown!	700.	6.7	83°F	Good	3.5	12.2	53.	2 3/8"	ok/ bad.	#9 ON	out.	119.	L. Tank.
HOUR	ALUM TANK	ALUM TANK	FLOW	READ.	TEMP.	CONDITION	INJECT	SURGE	PRESSURE	POLY. TANK	SCREEN	PUMP	GENERATOR	PRESS	
1700	34 1/8"	–	700.	6.7	83°F	–	3.5	11.4	55.	4 1/8"	–	#9 ok	–	118.	
1800	33 7/8"	Blown!	800.	6.6	83°F	–	3.5	11.6	52.	7 1/4"	–	–	–	118.	
1900	33 5/8"	–	600.	6.6	83°F	–	3.5	11.0	47.	10 1/2"	ok	#9 ok	–	122.	
2000	33 7/16"	–	600.	6.6	85°F	–	3.5	9.2	49.	13 3/8"	–	–	–	122.	
2100	33 1/2"	Blown.	700.	6.5	85°F	–	3.5	8.4	48.	16 1/16"	–	#9 on!	out.	121.	
2200hr	33 15/16"	–	500.	6.5	85°F	–	3.5	7.2	49.	19"	–	#9 ok	–	120.	
23rd	33 3/4"	–	650	6.6	85°F	Very Thick	3.5	8.0	49	22"	+	/	–	120.	
24th	33 9/16"	–	650	6.6	85°F	–	3.5	9.5	48	3 5/8"	/	/	/	120	

Remarks :- 1609 hrs check the Sump Pump #9 still working in Automatic. the Screen still Reject. Clean the injection air Strainer. also reset the flow to be 700 G.P.M. also clean up the Plant. 1625 hrs. 1700 hrs check the old Plant. 1800 hrs the New Screen "good" coming in. also Clean the air Strainer. Refill the oil for #7 Process Pumps. Clean the air Strainer. also Reset the flow to be 800. G.P.M. 2000 hrs. 2107 hrs Check the Sump Pump #9 still working in Automatic. 2200 hrs check the old Petn. Tahuata. Start the water still Process. Reset the flow to be 600 G.P.M. 23 hrs. Mix 1 1/2 lbs. of Sodium

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
75 Hawthorne Street
San Francisco, CA 94105

SEP 26 1994

4-copies of letter.

Barry Mills
General Manager
StarKist Samoa, Inc.
P.O. Box 368
Pago Pago, American Samoa 96799

Re: Administrative Order, Docket No. IX-FY90-22

Dear Mr. Mills:

This letter is in regard to the Administrative Order (AO) issued to StarKist Samoa, Inc. (StarKist) on June 18, 1990 for violations of its National Pollutant Discharge Elimination System (NPDES) Permit, No. AS0000019.

Specifically, in June, 1990, StarKist was issued the AO for violations of NPDES permit interim effluent limitations for total nitrogen through the failure to implement high strength waste segregation of its cannery effluent. The AO required StarKist to implement high strength waste segregation and disposal; implement an intensive monitoring program and submit reports; comply with newly established interim effluent limitations for total nitrogen and phosphorus; establish a compliance schedule for commencing and completing engineering study(s) and achieving compliance with water quality-based effluent limitations of its NPDES permit.

The AO was amended in October, 1991, to revise the interim effluent limitations for total nitrogen and to approve a variance to the American Samoa Water Quality Standards for temperature requirements of the StarKist NPDES permit. The AO was additionally amended in February, 1992, to allow use of the newly-constructed joint cannery outfall prior to issuance of its new NPDES permit. Construction of the joint cannery outfall (by StarKist & Samoa Packing) was the result of the engineering study's recommended alternative for achieving compliance with its water quality-based effluent limitations of its NPDES permit.

Since the issuance of the AO in June, 1990, StarKist has implemented high strength waste segregation and disposal in accordance with the AO requirements and its Ocean Dumping Permit OD-90-01, which was subsequently reissued in 1993 as OD-93-01. In February 1992, StarKist, in conjunction with VCS Samoa Packing Company, constructed a new joint cannery outfall which relocated the discharge point nearer to the outer Pago Pago Harbor. StarKist was also issued a new NPDES permit in October 1992, and has

demonstrated compliance with its permit effluent limitations for total nitrogen and phosphorus. StarKist has met all other requirements of the AO.

It has therefore been determined that StarKist has complied with the requirements and conditions established in the AO. The AO, Docket No. IX-FY90-22, issued to StarKist on June 18, 1992, is hereby rescinded.

If you have any questions regarding this matter, please contact Mike Lee or Pat Young, Office of Pacific Island and Native American Programs at (415) 744-1592 or (415) 744-1594, respectively.

Sincerely,

Alexis Strauss, deputy
for Harry Seraydarian
Director, Water Management Division

cc: Norman Wei, StarKist Seafood Company
Malaetasi Togafau, AS Attorney General
Togipa Tausaga, ASEPA
Sheila Wiegman, ASEPA

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REGION IX
75 Hawthorne Street
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SEP 26 1994

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UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
REGION 9

IN THE MATTER OF:	)	
	)	Docket No. IX-FY90-22
STAR-KIST SAMOA, INC.	)	
Pago Pago, American Samoa	)	
	)	
Proceedings Under Sections 308(a) and 309(a) of the Clean Water Act, as amended, 33 U.S.C. §§ 1318(a) and 1319(a).	)	FINDINGS OF VIOLATION AND ORDER FOR COMPLIANCE

STATUTORY AUTHORITY

The following Findings are made and Order issued pursuant to the authority vested in the Administrator of the Environmental Protection Agency ("EPA") by Sections 308(a) and 309(a) of the Clean Water Act ("CWA"), 33 U.S.C. §§ 1318(a) and 1319(a). The Administrator has delegated these authorities to the Regional Administrator of EPA Region 9, who has in turn delegated them to the Director of the Water Management Division of EPA Region 9, who hereby makes these Findings of Violation and issues this Order for Compliance.

FINDINGS OF VIOLATION

1. Star-Kist Samoa, Inc. ("Respondent"), a person within the meaning of Section 502(5) of the Act, 33 U.S.C. §1362(5), owns and operates a tuna cannery located at Pago Pago, American Samoa, which is a point source that discharges pollutants into Pago Pago Harbor, a water of the United States, all within the

respective definitions established in Section 502(5) of the Act, 33 U.S.C. §1362(5), Respondent is therefore subject to the provisions of the Act, 33 U.S.C. §1251 et seq.

2. Section 301(a) of the Act, 33 U.S.C. §1311(a), provides that except as in compliance with certain specified sections of the Act, including Section 402, "the discharge of any pollutant by any person shall be unlawful." Section 402 of the Act, 33 U.S.C. §1342, authorizes EPA to issue a National Pollutant Discharge Elimination System ("NPDES") permit allowing for the discharge of pollutants into waters of the United States. Compliance with Section 301(a) of the Act therefore requires, inter alia, compliance with a valid NPDES permit.

3. EPA, under the authority of Section 402(b) of the Act, issued NPDES Permit No. AS0000019 (the "Permit") to Star-Kist Samoa, Inc. on February 3, 1987, to become effective on March 8, 1987 and to expire on March 7, 1992. On February 27, 1987, Respondent sought an evidentiary hearing on certain of the provisions of the permit, including the requirement that Respondent come into compliance with the interim effluent limitations for nitrogen and phosphorus set forth in the permit. The Regional Administrator denied Respondent's request for an evidentiary hearing on this issue and Respondent appealed to the Administrator. On September 26, 1989, the Administrator denied Respondent's appeal and ruled that the interim effluent limits set forth in the permit for nitrogen and phosphorus were to become effective immediately. On October 25, 1989 Respondent

served its Petition for Reconsideration of the Administrator's Order, and on November 3, 1989 the Chief Judicial Officer denied Respondent's Petition.

4. Condition I.A.2.a. of the Permit allows Respondent to discharge a daily maximum 4,300 lbs./day and a monthly average of of 2,200 lbs./day of nitrogen. Monitoring of such discharge is required twice weekly.

5. Respondent has violated Section 301(a) of the Act, 33 U.S.C. § 1311(a), by violating Condition I.A.2.a. of the Permit in that Respondent discharged the amounts of nitrogen set forth in Appendix A annexed hereto and made a part hereof on each date set forth in Appendix A.

6. On the basis of the facts specified in paragraphs 1 through 5 above, the Director of the Water Management Division of EPA Region 9 hereby finds Respondent in violation of Sections 301(a) and 402 of the Act, 33 U.S.C. §§ 1311(a) and 1318.

ORDER FOR COMPLIANCE

Based on the foregoing Findings, and considering the potential environmental and human health effects of the violation, EPA has determined that compliance in accordance with the following requirements is reasonable. Pursuant to the authority of Sections 308 and 309 of the Act, 33 U.S.C. §§ 1318 AND 1319, IT IS HEREBY ORDERED that Respondent comply with the following requirements:

1. Not later than July 31, 1990, Respondent shall install all necessary equipment for and implement a system capable of segregating and removing all Dissolved Air Flotation sludge,

press water and pre-cooker juice (i.e., those wastes that are high in nitrogen and phosphorus) from present cannery effluent (hereinafter referred to as "High Strength Waste Segregation").

2. Not later than July 31, 1990, Respondent shall segregate and remove all such high strength wastes from its effluent, shall barge all such high strength wastes to the designated ocean dump site, as identified in 55 Federal Register 3948 (Feb. 6, 1990) and shall dump such high strength wastes at that ocean dump site. Thereafter, Respondent shall no longer dispose of said effluent through its NPDES permitted point source, i.e., Outfall Serial No. 001.

3. Respondent shall, no later than August 1, 1990, achieve and thereafter maintain compliance with the following interim effluent limits for nitrogen and phosphorus and shall remain in compliance with these interim effluent limits at all times until March 6, 1992:

(a) Monthly Average of Total Nitrogen (lbs./day): The lesser of i) 1,785 lbs./day, OR ii) (Monthly Average Total Nitrogen Influent [lbs./day]) x (0.65).

(b) Daily Maximum of Total Nitrogen (lbs./day): The lesser of: i) 2,745 lbs./day, OR, ii) (Daily Maximum Total Nitrogen Influent [lbs./day]) x (0.65).

(c) Monthly Average of Total Phosphorus (lbs./day): The lesser of: i) 170 lbs./day, OR, ii) (Monthly Average Total Phosphorus Influent [lbs./day]) x (0.65).

(d) Daily Maximum of Total Phosphorus (lbs./day): The lesser of: i) 320 lbs./day, OR, ii) (Daily Maximum Total Phosphorus Influent [lbs./day]) x (0.65).

4. Monitoring Requirements and Adjustment of Interim Effluent Limits for Nitrogen and Phosphorus

(a) Commencing on August 1, 1990 and continuing through the earlier of October 31, 1990 or that date which is three consecutive months after the commencement of High Strength Waste Segregation, Respondent shall collect, twice weekly, composite samples (as such term is defined in Respondent's NPDES permit) of each of the following waste streams: (i) precooker juice, (ii) presswater, (iii) DAF influent and (iv) DAF effluent. Monitoring must be conducted using only those test procedures allowed under Respondent's NPDES permit.

(b) Each of the waste stream composite samples identified in subparagraph (a) shall be analyzed twice weekly for the following parameters. Analysis for each parameter shall be performed in the manner specified in Respondent's NPDES permit, with the exception of oil and grease, which shall be sampled and analyzed in the manner specified below.

i) Total nitrogen (daily maximum and monthly average in mg./l);

ii) Total phosphorus (daily maximum and monthly average in mg./l);

iii) Total Suspended Solids (daily maximum and monthly average in mg./l); and

iv) Daily Flows (daily maximum and monthly average in MGD).

(c) Commencing on August 1, 1990 and continuing through the earlier of October 31, 1990, or that date which is three consecutive months after the commencement of High Strength Waste Segregation, Respondent shall monitor each of the waste streams identified in subparagraph (a) for oil and grease as follows: each oil and grease sample shall consist of four individual grab samples ("sub-samples") which shall be taken at even intervals during each production period in which samples are taken. Each sub-sample shall be separately analyzed. The results of each sub-sample, and the mean value of the four sub-samples, shall be reported for daily maximum and monthly average (in mg./l).

(d) Respondent shall submit a monthly report providing the results of the sampling and analyses identified above to the American Samoa Environmental Quality Commission (ASEQC) and the United States Environmental Protection Agency (EPA) no later than seven (7) days after the last day of each month in which data has been collected. The report shall be signed by a responsible corporate officer, who shall certify the accuracy of its contents in the manner set forth herein.

(e) The formulas for the calculation of interim effluent limits for nitrogen and phosphorus set forth in paragraph 1 above utilize a Dissolved Air Flotation (DAF) removal efficiency rate of 35%. This removal efficiency

rate (and therefore the interim effluent limitation) may be adjusted, at EPA's sole discretion, after analysis of the data collected pursuant to subparagraphs (a) and (b) above.

(f) Except as expressly provided for in subparagraphs (a) through (c) above, all monitoring, sampling and reporting required by this Order shall be performed pursuant to and in accordance with Respondent's NPDES permit.

5. Respondent shall commence, as soon as possible, an engineering feasibility study or studies to assess the viable and potentially feasible alternatives for achievement of its NPDES permit final effluent limits based on the American Samoa Water Quality Standards ("water quality-based effluent limits"). Such study or studies shall be completed no later than March 31, 1991. Respondent shall provide EPA and ASEQC with interim written status reports regarding the progress and findings of such studies as such information becomes available, but no less often than once every three months.

6. Not later than May 31, 1991, Respondent shall notify EPA and ASEQC, in writing, of its selected method or combination of methods for achieving compliance with its water quality-based effluent limits (the "selected alternative").

7. Not later than March 5, 1992, Respondent shall complete all actions necessary to meet its water quality-based effluent limits under the selected alternative.

8. Not later than March 7, 1992, Respondent shall achieve compliance with its water quality-based effluent limits.

9. If Respondent fails to meet any compliance deadline or interim effluent limitation set forth herein, Respondent shall file a written noncompliance report with EPA and ASEQC within ten days of the missed deadline or exceeded limit. The report shall specifically describe the impact of the event, provide a summary of the reasons for or explanation regarding the event, the anticipated time of non-compliance, and the measures to be taken to prevent or minimize the impact of the event.

10. All applications, certifications and reports submitted pursuant to this Order shall be signed by a principal executive officer of Respondent and shall include the following statement:

> I certify under penalty of law that this document and all attachments are prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, I certify that the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

11. Nothing contained in this Order shall affect Respondent's continuing obligation to comply with the Clean Water Act and with each and every term and condition of its Permit. This Order is not and shall not be interpreted to be an NPDES Permit under Section 402 of the Act, 33 U.S.C § 1342, nor shall compliance with this Order be deemed to be compliance with the Permit.

12. All submissions required by this Order shall be mailed to the following addressees:

U.S. Environmental Protection Agency, Region 9
Office of Pacific Island and Native American Programs
1235 Mission Street
San Francisco, CA 94103
Attention: Norman L. Lovelace (E-4)

American Samoa Environmental Quality Commission
Office of the Governor
American Samoa Government
Pago Pago, American Samoa 96799
Attention: Pati Faiai

Date: JUN 18 1990

for Harry Seraydarian
Director
Water Management Division
U.S. EPA, Region 9
1235 Mission Street
San Francisco, CA 94103

APPENDIX A

SUMMARY OF DISCHARGE MONITORING REPORTS

Name of Discharger: Star-Kist Samoa, Inc.
NPDES Permit No.: AS0000019
Reporting Period: September, 1989 through February, 1990

Permit Condition	Effluent Constituents	Effluent Limitation	Month and Yr.	Value(s) Reported in Violation
A.2.a	Total Nitrogen	2200 lbs/day Monthly Average	Oct. 89	3044
			Nov. 89	3468
			Dec. 89	3287
			Jan. 90	3147
			Feb. 90	2770
		4300 lbs/day Daily Maximum	Oct. 89	4544.7
			Nov. 89	4310.6
			Dec. 89	4704, 5051
			Jan. 90	4322

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
75 Hawthorne Street
San Francisco, Ca. 94105-3901

11 FEB 1992

CERTIFIED MAIL NO. P 057 506 640
Return Receipt Requested

Maurice W. Callaghan
General Manager
Star-Kist Samoa, Inc.
P.O. Box 368
Pago Pago, American Samoa 96799

Re: Amendment to Existing Administrative Order Allowing Use of Newly Constructed Outfall

Dear Mr. Callaghan:

This is in reference to our Administrative Order, Docket No. IX-FY90-22, issued to Star-Kist Samoa, Inc. on June 18, 1990.

In their January 23, 1992 letter, Jim Cox of Van Camp Seafood Co., Inc. and Norman Wei, Star-Kist Seafood Company, requested authorization for the canneries to test out and begin discharging from the recently-constructed joint cannery outfall in Pago Pago Harbor prior to formal issuance of VCS Samoa Packing's and Star-Kist Samoa's new NPDES permits. These new permits will allow for the discharge of cannery wastewater through the new joint cannery outfall. Their letter also requested that Star-Kist Samoa be allowed temporary use of its existing outfall (Outfall 001) in the event that problems develop preventing the physical use of the new joint outfall.

Authorization is being requested to begin discharging from the new outfall beginning on February 10, 1992. This is prior to the March 7, 1992 deadline established by the existing Administrative Order, by which Star-Kist's effluent is required to meet the effluent limits based on American Samoa water quality standards. In the event there are malfunctions with the new outfall and equipment, Star-Kist Samoa would like to maintain the option of utilizing its existing outfall (Outfall 001) for discharge of effluent until these problems with the new outfall can be corrected.

During the development of these draft NPDES permits, U.S. Environmental Protection Agency (USEPA) staff have been in close communication with the canneries' staffs and consultants and with the American Samoa Environmental Protection Agency (ASEPA) staff to clarify and discuss our various concerns regarding the new

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permits. Star-Kist Samoa's draft NPDES permit will soon be undergoing public review and comment, and at the earliest, is not anticipated to become effective until April.

Given the early completion of the new joint cannery outfall and that issuance of the new NPDES permit is not anticipated until April, after the existing NPDES permit's water quality compliance deadline, we have determined that early utilization of the new outfall is in the interest of improving the water quality of Pago Pago Harbor.

Based on the above considerations, the Order for Compliance Section of the Administrative Order, Docket No. IX-FY90-22, is hereby amended to include the following provisions:

15. **Effective February 10, 1992, respondent is authorized to begin discharging effluent from the new joint cannery outfall. The initial period of discharge shall be for test purposes and shall be governed by the following paragraph.**

16. **For testing purposes, respondent shall notify ASEPA, USEPA and the American Samoa Attorney General (ASAG), 24 hours prior to commencing any discharge from the new joint cannery outfall for test purposes. Respondent shall also notify the above-mentioned parties 24 hours prior to cessation of testing operations. Respondent shall provide a written report within 10 days of completing testing operations. The report shall include, but not be limited to, duration of testing period, daily volume of discharge from the new joint outfall and/or discharge from the present outfall during the test period, and noted deficiencies and corrective actions taken and/or planned as a result of testing operations.**

17. **Twenty-four hours prior to start-up of regular discharge from the new joint outfall, respondent shall notify ASEPA, USEPA and ASAG in writing, of when it will begin utilizing the new joint outfall and cease discharging from its present outfall (Outfall 001). At the start-up of regular discharges from the new joint outfall, respondent will cease discharging from its present outfall (Outfall 001).**

18. **Discharge from the new joint outfall shall be subject to the effluent limitations, monitoring and reporting requirements as presented in Attachment 1, which is hereby incorporated into and made a part of this Order. Effluent limitations and monitoring and reporting requirements shall become effective upon the commencement of discharging from the new joint outfall. Except as stated in the Order for Com-**

pliance, all other terms and conditions of respondent's present NPDES Permit, AS0000019, shall remain in effect until issuance of its new permit for the joint outfall.

19. For discharge from the new joint outfall, respondent shall submit a monthly report on the sampling and analyses identified in Attachment 1 by no later than the 15th day of the month following the month in which the samples were taken. This report shall be signed by a responsible company official certifying its accuracy.

20. Respondent is authorized to discharge effluent from its present outfall (Outfall 001) should problems develop with the new joint outfall which requires it being shut down for repair. Effluent from Outfall 001 is subject to terms and conditions of respondent's NPDES Permit No. AS0000019 and the terms of this Order and subsequent amendments. This authorization is effective as long as NPDES Permit No. AS0000019, as issued by EPA on February 3, 1987, is in effect, after which respondent must cease utilization of Outfall 001, seal the outfall with a blind flange and certify to ASEPA, USEPA and ASAG that this outfall has been effectively decommissioned. Such certification must be submitted within 30 days of the last effective day of NPDES Permit No. AS0000019.

22. Respondent shall notify ASEPA, USEPA and ASAG in writing, 24 hours in advance of when it intends to utilize the present outfall (Outfall 001) under situations outlined in Paragraph 20 above. Respondent shall detail the problems encountered, a schedule of repair, and when the new outfall will be back in service.

23. This Order shall expire upon the effective date of respondent's new NPDES permit for the joint outfall and upon written determination by EPA that the respondent has demonstrated, to the satisfaction of the ASEPA and USEPA, compliance with its water quality-based effluent limits and addressed all requirements of the Order. However, this Order may be modified if there are substantial delays before the new NPDES permit becomes effective.

Any violation of the terms of Order IX-FY90-22 as amended by this letter or any violation of Section 301(a) of the Act could subject Star-Kist Samoa, Inc. to a civil action for appropriate relief pursuant to Section 309(b) of the Act [33 U.S.C. Section 1319(d)] and/or civil penalties under Section 309(d) of the Act [33 U.S.C. Section 1319(d)]. In addition, Section 309(c)(1) of the Act [33 U.S.C. Section 1319(c)(1)] provides that a willful or

negligent violation shall be punished by a fine of not less than $2,500 or more than $25,000 per day of violation or imprisonment for not more than one year, or both.

If you have any questions in relation to this matter, please contact Pat Young at (415) 744-1591 or Doug Liden at (415) 744-1921.

Sincerely,

Alexis Strauss

for Harry Seraydarian
Director, Water Management Division

Attachment

cc: William Coleman, ASEQC
Pati Faiai, ASEPA
Sheila Wiegman, ASEPA
Virginia Gibbons, ASAG
Jim Cox, Van Camp Seafood Co., Inc.
Norman Wei, StarKist Seafood Company
Steve Costa, CH2MHill

TACHMENT 1

STAR-KIST SAMOA, INC.
EFFLUENT LIMITS AND MONITORING REQUIREMENTS FOR THE JOINT CANNERY OUTFALL

Effluent shall be sampled prior to its entry into the joint cannery outfall. Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS 30-DAY AVG.	DAILY MAX.	MONITORING REQUIREMENTS MEASUREMENT FREQUENCY	SAMPLE TYPE
FLOW (mgd)	---	2.9	Continuous	Recorder
SUSPENDED SOLIDS (lbs/day)	2653	6673	Twice/week	Composite
OIL AND GREASE (lbs/day)	675	1688	Twice/week	Grab (Calculated)
TOTAL PHOSPHORUS (lbs/day)	192	309	Twice/week*	Composite
TOTAL NITROGEN (lbs/day)	1200	2100	Twice/week*	Composite
TOTAL AMMONIA (mg/l)	--	133	Once/week	Composite
TEMPERATURE (F)	90	95	Continuous	Continuous
pH	---	**	Continuous	Grab

* Sampling is required twice/week on production days. Should the permittee wish to monitor the effluent on a non-production day(s), the permittee must monitor for the six consecutive days following the non-production day on which the first sample was taken. The average of all samples taken during that month will determine compliance with the "monthly average".

** The pH is limited between 6.5 and 8.6 standard units.

REPORTING: Discharge data obtained during the previous month shall be summarized and reported monthly and should be submitted no later than the 15th day of the following month.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
75 Hawthorne Street
San Francisco, Ca. 94105

30 OCT 1991

Maurice W. Callaghan
General Manager
StarKist Samoa, Inc.
P.O. Box 368
Pago Pago, American Samoa 96799

Re: Revision of Interim Effluent Limits for Nitrogen and Temperature for USEPA's Administrative Order Issued to StarKist Samoa, Inc.

Dear Mr. Callaghan:

On October 4, 1991 Norman Wei of your company had an extensive discussion with staff from the Office of Pacific Island and Native American Programs regarding StarKist Samoa's draft assessment of its Dissolved Air Flotation (DAF) Unit. This assessment, to maximize the removal efficiency rate for both nitrogen and phosphorus from StarKist's effluent, and implementation of its findings, was required by EPA's letter of August 13, 1991, which modified StarKist's interim effluent limit for nitrogen as established by USEPA's Administrative Order, Docket No. IX-FY90-22.

Mr. Wei's assessment of the DAF unit is that it is designed primarily to remove oil and grease, particulate matter and phosphorus through chemical coagulation, and its consistency and high removal efficiency of these pollutants indicate no operational problems. However, the DAF's removal efficiency of nitrogen, especially in soluble form, is more problematic. Mr. Wei recently had a laboratory in Hawaii analyze the cannery influent and effluent which showed that about 72 to 80 percent of the total nitrogen is in soluble form, and that the soluble TN fraction in the treated effluent averages 85 percent. However, the DAF unit is able to remove about 60 percent of the particulate total nitrogen loading.

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Mr. Wei also contends that the plant has been implementing various forms and degrees of waste minimization, from water reduction to vacuum cleaning, which, coupled with high-strength waste segregation, has resulted in a substantial decrease in the nitrogen influent loadings to the DAF unit, and a decrease in its removal efficiency. Monthly average dosages of alum and polymer to the DAF unit has not decreased, in fact, substantial increases in chemical dosages were noted in May and July.

It was also noted by Mr. Wei that StarKist was in violation of its modified monthly average interim effluent limit for nitrogen for the month of August, as it was unable to meet the reduced 25% removal efficiency rate established in our letter of August 13, 1991 (the original rate was 35%). He expressed concern that StarKist would not be able to consistently meet the interim effluent limits for nitrogen because of the factors stated above.

We have reviewed the monitoring data from August 1990 through August 1991, and the additional data submitted by Mr. Wei. Based on our review, we are revising the interim effluent limits for nitrogen by eliminating the DAF efficiency rate of 25%, and replacing it with limits based on pounds of nitrogen per ton of fish processed. The previous fixed monthly average limit of 1675 lbs./day and the daily maximum limit of 2440 lbs./day remain the same.

Thus, effective as of September 1, 1991, USEPA hereby modifies its Administrative Order issued on June 18, 1990 to StarKist Samoa, Inc. (Docket No. IX-FY90-22), by revising Section 3 of the Order for Compliance as follows (changes are in bold):

> (a) Monthly Average of Total Nitrogen (lbs./day): The lesser of i) 1675 lbs/day, OR, ii) **(3.76 lbs. of total nitrogen/ton of fish processed/day) x (Monthly average of fish processed in tons/day)**
>
> (b) Daily Maximum of Total Nitrogen (lbs./day): The lesser of: i) 2440 lbs./day, OR, ii **(4.66 lbs. of total nitrogen/ton of fish processed/day) x (Daily maximum of fish processed in tons/day).**

The new interim effluent limits were calculated using the effluent data from August 1990 through August 1991, "normalizing" the data to reflect pounds of nitrogen produced per ton of tuna processed. The "normalized" monthly average limit of 3.76 is one standard deviation plus the 12-month average of the effluent data in pounds of nitrogen produced per ton of fish processed, multiplied by that month's average of fish processed in tons per day.

The "normalized" daily maximum limit of 4.66 is two standard deviations plus the 12-month average of the effluent data in pounds of nitrogen produced per ton of fish processed, multiplied by that month's daily maximum production in tons of fish processed per day.

In another matter pertaining to interim effluent limits, we recently received the American Samoa Environmental Quality Commission's (ASEQC) request to approve its adoption of a variance of its water quality standards, specifically, a variance of temperature limits for StarKist's discharges to Pago Pago Harbor until March 7, 1992. As you pointed out in your letter to us of March 7, 1991, on March 8, 1991, Star-Kist's daily maximum temperature effluent limit changed from an interim limit of 90 degrees Farenheit to 85 degrees Farenheit, which is based on American Samoa's water quality standard for temperature.

We understand that Star-Kist has installed a temperature control management system which was to be on-line in May 1991. Your request for extension of the interim effluent limit for temperature was to accommodate completion, start-up and testing of this system which is designed to achieve the 85 degree Farenheit temperature limit. By March 7, 1992, Star-Kist expects to consistently meet the effluent daily maximum temperature limit of 85 degrees Farenheit.

After public notice and a public hearing on this variance request, the ASEQC granted a variance on April 10, 1991, finding that 1) the discharge at a temperature of 90 degrees Fahrenheit would not endanger human health or safety; 2) compliance with the temperature limitation would likely produce serious hardship without equal or greater benefits to the public; and 3) the relative interests of the public, other property owners, and the applicant were considered.

EPA hereby approves the variance to the American Samoa water quality standards for temperature for StarKist Samoa NPDES Permit No. AS0000019 and the Administrative Order is modified to add two additional conditions to Section 3 of the Order for Compliance, as follows (changes are in bold):

"3. Respondent shall, no later than August 1, 1990, achieve and thereafter maintain compliance with the following interim effluent limits for nitrogen, ~~and~~ phosphorus **and temperature** and shall remain in compliance with these interim effluent limits at all times until March 6, 1992:"

A new subsection, (e), shall be added as follows:

"(e) **Daily Maximum of Temperature: 90 degrees Farenheit.**"

These changes are effective as of April 10, 1991, the date of the EQC's approval of its variance.

Should you have any questions regarding any of these changes, please contact Pat Young, American Samoa Program Manager, at (415) 744-1591.

Sincerely,

Keith Takata

for Harry Seraydarian
Director, Water Management Division

cc: William Coleman, ASEQC
Pati Faiai, ASEPA
Virginia Gibbons, AS Attorney General's Office
American Samoa High Court
Norman Wei, StarKist Seafoods, Inc.