

50-275/323

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January 24, 2001

PG&E Letter DCL-2001-501

Mr. Roger Briggs, Executive Officer Central Coast Regional Water Quality Control Board (CCRWQCB) 81 Higuera Street, Suite 200 San Luis Obispo, CA 93401-3147

Re: PG&E Diablo Canyon Submittal -

Diablo Canyon Power Plant (DCPP) - NPDES Permit Amendment Package

Dear Mr. Briggs:

In order to begin a dialogue with CCRWQCB staff on the DCPP NPDES permit renewal, PG&E has prepared the enclosed NPDES permit amendment package. This package was prepared following the review of: 1) the existing NPDES permit, 2) PG&E and CCRWQCB correspondence identifying NPDES permit changes and clarifications, and 3) the 1994 NPDES permit application.

This NPDES permit amendment package outlines the various permit and monitoring and reporting program changes that have been largely identified in PG&E's correspondence with the CCRWQCB, as well as recommended changes to the existing permit and the monitoring and reporting program. The package also contains updated permit application Forms 1 and 2C. These forms are amended to update information contained in the original NPDES permit renewal application submitted November 7, 1994, (PG&E Letter DCL-94-245) and include the analytical results of from our re-sampling event conducted in July 2000.

This amendment package does not address items such as the permit findings on the thermal and 316(b) studies agreed to as part of the settlement between the Regional Board and PG&E. Additionally, it does not address changes to the Receiving Water Monitoring Program incorporated in the settlement. These items will be handled separately. Other items not addressed in this package may also result from dialogue with CCRWQCB staff.

We look forward to working with you and your staff, and will be contacting you soon to set up a meeting to begin this NPDES permit renewal process. We would also like to use this meeting to review the contents of this package, define the renewal process, and establish a schedule with milestones to issue a permit in a timely and efficient manner. PG&E Letter DCL-2001-501 Mr. Briggs January 24, 2001 Page 2

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 ensure 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.

If you have any questions, please contact Rick Hernandez of my staff at (805) 545-4662.

Sincerely,

"N. Oakle

David H. Oatley

Enclosure

2001501/rdhj/kmo

cc w/encl:

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PG&E Letter DCL-2001-501 Mr. Briggs January 24, 2001 Page 3

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Amended NPDES Application Permit No. CA 0003751

Prepared for:

Diablo Canyon Power Plant P.O. Box 56 Avila Beach, CA 93424

Prepared by:

Pacific Gas & Electric Company

Environmental Affairs P.O. Box 770000 San Francisco, CA 94177 Kintr Environmental, Inc. 3377 Deer Valley Road, Suite 248 Antioch, California 94509 (925) 757-1732

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January 2001

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1.0 INTRODUCTION

NPDES permit Order No. 90-09 was issued for Diablo Canyon Power Plant on May 11, 1990. As required, a new permit application was submitted November 7, 1994. The permit application included Form 1, Form 2C, and a check for \$10,000 to cover the first annual fee.

Following the permit's expiration date of July 1, 1995, the permit was administratively extended under Title 23, Section 2235.4, as documented in the CCRWQCB's letter dated August 29, 1996. The permit renewal was deferred by the Regional Board pending the completion of the DCPP Thermal Effects and 316(b) Demonstration Studies, which were completed in March 2000, and finalization of the settlement agreement between the Regional Board and PG&E, which was announced in June 2000.

It is important at this time to move ahead with the NPDES permit renewal process. In order that we may start a dialogue with Board staff, we have prepared this NPDES permit amendment package for your review. This package is based on our review of: 1) the existing NPDES permit, 2) PG&E and CCRWQCB correspondence identifying NPDES permit changes and clarifications since the 1990 permit and 3) the 1994 NPDES permit application. This package outlines the various permit and monitoring and reporting program changes that have been identified in correspondence, as well as recommended changes to the existing permit and the monitoring and reporting program. This package also contains updated permit application Forms 1 and 2C. These forms are amended to update information and includes analytical results from our resampling event conducted in July 2000.

This amendment package does not address the permit findings on the thermal and 316(b) studies agreed to as part of the settlement between the Regional Board and PG&E. Additionally, it does not address changes to the Receiving Water Monitoring Program incorporated in the settlement. These items will be handled separately.

2.0 PROPOSED CHANGES TO PERMIT FINDINGS

This section addresses the changes that PG&E requests for new or modified discharges or to revise text in the permit to be consistent with current operations. Many of these items have been addressed in correspondence with Board staff over the ten years since this permit was last revised.

2.1 Revisions to the discharge descriptions in Finding No. 2

The text in Finding No. 2 should be changed to reflect the changed discharge description for Discharge 002, as well as the addition of eleven new discharge pathways 018-027 (including 025 (A) and 025 (B)).

PG&E recommends Finding 2 include the following revisions:

"Screen Wash Pumps Overboard (Discharge 002) and Industrial Storm Water (Discharge 020) discharge into the Intake Cove west of the cooling water intakes."

"Circulating Water Pumps Backflow (Discharge 026) is a short-term gravity induced discharge out the intake that occurs when a circulating water pump is shut down."

"Screen Wash Collection Sump Overflow" (Discharge 027) infrequently discharges out an opening in the face of the intake structure."

"The Biolab Discharge (Discharge 004) and Biolab/Reverse Osmosis Supply Lines Drain (Discharge 022) discharge to the Intake Cove east of the Intake Structure."

"The Biolab Seawater Supply Pump Valve Drain (Discharge 016), the Seawater Reverse Osmosis System Blowdown Drain (Discharge 017), and the Industrial Storm Water (Discharges 018, 021 and 023) all discharge into the Intake Cove east of the Intake Structure."

"Industrial Storm Water (Discharge 005, 006, and 007) and Stormwater Runoff (Discharges 024, 025(A) and 025(B) are discharged into the ocean at six points southeast of the Intake Cove."

"Storm Water Runoff (Discharge 019) discharges to Diablo Cove."

2.2 Revisions to the discharge descriptions in Finding No. 4

The text in Finding No. 4 should be revised to reflect the current discharge pathways and the associated plant operations. Listed below are discharge-related issues and PG&E's recommendations for resolution. Discharge issues that are generic, in that they have the potential to affect several discharge pathways, are described as "Generic Issues" and include a discussion of the pathways that are potentially affected and PG&E's recommendations. Issues that are discharge-specific, except internal wastestream flows, are described under each discharge number, along with PG&E's recommendations. As part of this review process, we have provided detailed flow rates and volumes (Form 2C – Attachment 1) for all internal wastestreams and Discharge Outfalls. As a result, some flows have changed since our previous application. These changes reflect a more consistent interpretation of the application instructions and do not affect the discharge limit of 2760 MGD on Discharge 001.

<u>Generic Issue 1</u> - PG&E continues to evaluate new and improved corrosion inhibitors and biocide agents in an effort to improve the effectiveness of the plant closed cooling water systems. Currently, the corrosion inhibitors used in these systems, excluding the Diesel Generator Closed Cooling System, are a mixture of potassium molybdate, potassium nitrite, tolyltriazole, potassium tetraborate, and potassium hydroxide. The Diesel Generator Closed Cooling System (described below) uses a mixture of potassium dichromate and potassium hydroxide. Boric acid is also added to these systems as part of the corrosion control regime. Glutaraldehyde and isothiazolin are used in conjunction with these chemicals as a biocide to control microbial growth and biofouling. Dispersant and antifoaming agents may be used in conjunction with the biocides.

<u>Generic Recommendation 1</u> - In order to allow flexibility in operations, PG&E proposes that the description for those discharges that could potentially contain these chemicals be changed to read:

"Discharge of corrosion inhibitors and biocide agents used in the closed cooling water systems may occur due to leakage and/or during operation, testing and maintenance activities. Corrosion inhibitors may include potassium molybdate, potassium nitrite, tolyltriazole, potassium tetraborate, sodium hydroxide, potassium dichromate, potassium hydroxide and boric acid. The biocide agents may include glutaraldehyde and isothiazolin."

If new chemicals are of a character significantly different than described above, PG&E will notify the CCRWQCB in association with Provision D.4 as it exists in the current permit.

The following is a discussion of the closed cooling water systems at the plant and discharge pathways which could contain system leakage.

Component Cooling Water System

Each unit at DCPP has a closed-loop system consisting of 3 pumps, 2 heat exchangers, 2 chemical injection tanks, a surge tank, and 3 parallel cooling loops. The system contains approximately 66,000 gallons and supplies cooling water to plant vital and miscellaneous systems during normal operation as well as cooldown and post-accident conditions. Potentially, leakage from this system could be discharged through the following pathways: 001B, 001D, 001F, 001M, 004, 005, 008 and 009.

Service Cooling Water System

Each unit at DCPP has a closed-service cooling water system which supplies cooling water to secondary plant components and non-safeguards equipment. Each system contains approximately 11,000 gallons and consists of 2 service cooling water pumps, 2 heat exchangers, a chemical injection tank, and associated piping. Leakage from this system could potentially be discharged through the following pathways: 001D, 001E, 001F, 001H, 001J, 001K, 001L, 001M, 004, 005, 008 and 009.

Intake Cooling Water System

This system provides cooling water for the circulating water pump motor air coolers and bearing oil coolers. Each system, 1 per unit, contains approximately 1,150 gallons. Leaks and drainage from this system could potentially be discharged through the following pathways: 001Q, 002, and 003.

Diesel Generator Cooling System

The Diesel Generator Cooling System is a closed-loop cooling water system which uses potassium dichromate and potassium hydroxide to control corrosion. The floor drains in the Diesel Generator Rooms can be sealed to prevent any spills or leakage from entering the floor drains and subsequent entry into discharge 001F, 001M, 005, or 009.

Generic Issue 2 - Neutralizing amines (pH control agents) are effective as corrosion inhibitors and are used primarily in the plant's feedwater systems and steam generators. Neutralizing amines include ethanolamine (ETA), dimethylamine (DMA), pyrrolidine, lithium hydroxide, ammonia, morpholine, 3-methoxypropyl amine (MPA), 2-amino, 2methly propanol (AMP), and 5-aminopentanol (5AP). Reducing agents such as hydrazine, carbohydrazide, and diethylhydroxylamine (DEHA), are also used to control oxygen and reduce electrochemical potentials, thereby decreasing corrosion and other deleterious processes promoted by an oxidizing environment in these systems. In addition to neutralizing amines, other corrosion inhibitors that are used include boric acid, as an inhibitor against steam generator tube denting, and titanium compounds, as inhibitors against stress corrosion cracking in caustic environments. Solvents are used in a two-step process which is based on dissolution and chelation of metals (primarily iron and copper), in the steam generators and other plant components, with ethylenediaminetetraacetic acid (EDTA), as the primary component in the various formulations, that can also contain triethanolamine, ascorbic acid and surfactants. Scale conditioning agents (SCA) are used to enhance the effectiveness of hydraulic techniques used to remove deposits from the steam generators. Scale conditioning agents may include DMA, dipyridyl, ethanoldiamine (EDA), phenanthroline, and methanol. The application of either solvents or SCA are proposed to be used during outages and maintenance activities in the steam generator and in other plant components.

Discharge of these chemicals due to leakage or during operation, testing and maintenance activities may occur through the following discharge pathways: 001D, 001F, 001H, 001J, 001K, 001L, 001M, 005, 008, and 009.

<u>Generic Recommendation 2</u> - In order to reflect current operation in the NPDES permit, PG&E proposes that the discharge descriptions for the discharge pathways that may contain these chemicals be changed to read:

"Discharge may contain corrosion inhibitors such as neutralizing amines, pH control agents, reducing agents, oxygen scavengers, boric acid, and titanium compounds, during plant operation, and solvents or scale conditioning agents, for scale/sludge material dissolution, chelation, or softening, during outages. These chemicals are used in the feedwater system and/or the steam generators, and may be present in this discharge due to leakage or during operation, testing and maintenance activities." <u>Generic Issue 3</u> - In the current NPDES Permit, storm water discharges are called "Yard Storm Drains" or "Storm Water Runoff" and it is not clear which drainage areas may be affected by industrial activity.

<u>Generic Recommendation 3</u> - Consistent with the State Water Board's Storm Water Permit program, we recommend that the term "Industrial Storm Water" be used for any storm water drainage area that includes any industrial activities. Other discharges where the drainage area does not include any industrial activities, such as natural vegetation and parking lots, are called "Storm Water Runoff". See Form 2C, Attachment 1 for a summary of each discharge location, including its title and estimated seasonal flow.

2.2.1 Revision to Discharge 001 - Once-Through Cooling Water

Issue 1 - See "Generic Issues 1 and 2".

<u>Recommendation 1</u> – Modify text in the permit to include "Generic Recommendations 1 and 2".

<u>**Issue 2**</u> - PG&E uses sodium hypochlorite and acti-brom (sodium bromide and surfactants) in the once-through cooling water for the control of biofouling. Dechlorination with chemicals such as sodium bisulfite is performed intermittently in conjunction with the biofouling program to assure compliance with NPDES requirements.

<u>Recommendation 2</u> - PG&E recommends the discharge description be modified to include:

"DCPP implements a biofouling control program which includes the use of chlorination and bromination to control microbial growth. Dechlorination is also performed on an intermittent basis with chemicals such as sodium bisulfite."

<u>**Issue 3**</u> - Outfall 001 is comprised of once-through cooling water for main condenser cooling, as well as relatively smaller amounts of in-plant wastes streams. For clarification purposes, the total volume of flow in Outfall 001 should be clearly described to include once-through cooling water and the internal waste streams.

<u>Recommendation 3</u> - PG&E recommends that the description in Finding 4 be revised as follows:

Discharge 001 – Once-Through Cooling Water

"The total flow volume into Diablo Cove through Outfall 001 is a combination of once-through cooling water (over 97%) that supplies the main steam condensers for Units 1 and 2 and the Service Cooling Water System (001E), the cooling water for the closed-loop Auxiliary Cooling Water System (001B), and miscellaneous in-plant waste streams (001D through 001Q). The natural temperatures of water in the intake cove and Diablo Cove are assumed comparable at any time. Corrosion inhibitors used in the closed-loop cooling water systems can occur due to leakage, or during operation, testing and maintenance activities."

2.2.2 <u>Issue 1</u> – Following the description for Discharge 001 in Finding 4, the sentence leading into the remaining internal waste streams (001B – 001Q) should be revised to accurately reflect the descriptions for other Outfalls (002 – 027) and the Firewater System Maintenance and Testing.

<u>Recommendation 1</u> – PG&E recommends that the lead-in sentence referenced above be revised as follows:

"Cooling water for internal closed-loop cooling systems, the Firewater System Maintenance and Testing program which discharges into several waste streams and individual outfalls (see note 1 for the types of discharges), and the in-plant waste streams that discharge into the once-through cooling water system are described as follows:"

2.2.3 Revision to Discharge 001 A, (1), (2) and (3) Firewater System and "Note 1"

Issue 1 - The firewater system is flushed and tested on a routine basis to maintain reliability. The current NPDES permit deleted the references to Discharge 001 A and referenced "Note 1" located at the end of Finding 4 instead. The discharges from the firewater system occur at a number of locations at DCPP. "Firewater Tank Repairs" is another activity that should be added to the list of maintenance activities.

<u>Recommendation 1</u> - PG&E recommends updating the discharge pathways which receive firewater releases as listed in Attachment 1 of the Amended Form 2C and revising "Note 1" to read as follows:

"Note 1: Maintenance and testing activities are routinely conducted on the firewater system to maintain reliability. The system consists of several loops that can be isolated for testing purposes and there are a numbers of hose stations. Unscheduled discharges from firewater systems will also occur in the event of fire. The following maintenance and testing activities are conducted:

• Firewater System Flushes and other activities

Firewater will be discharged occasionally when, for example, portions of the system are flushed to ensure they remain clear.

• Firewater System Flow Tests

This test is conducted typically once every three years to comply with Nuclear Regulatory Commission requirements.

• Fire Hose Tests

This test is typically conducted annually on portions of the firewater system to comply with Nuclear Regulatory Commission requirements.

• Fire Water Tank Repairs

A non-routine discharge of up to 300,000 gallons may be required for internal tank cleaning and recoating."

PG&E also recommends that the discharge descriptions for those discharges that receive firewater releases be consistent with Attachment 1 of the Amended Form 2C.

2.2.4 Revision to Discharge 001 B - Auxiliary Salt Water Cooling System

Issue 1 - See "Generic Issue 1".

<u>Recommendation 1</u> - Modify the text in the permit to include "Generic Recommendation 1".

Issue 2 - This discharge description contains notification requirements for dye testing using chemicals such as rhodamine.

<u>Recommendation 2</u> - PG&E recommends the reporting requirements for dye testing be moved to the M&R section of the permit.

2.2.5 Revision to Discharge 001 D – Liquid Radioactive Waste Treatment System

Issue 1 - See "Generic Issues 1 and 2".

<u>Recommendation 1</u> - Modify the text in the permit to include "Generic Recommendations 1 and 2".

Issue 2 - The current discharge description states:

"After decay and/or treatment, individual batches of low-level waste are sampled and analyzed to confirm compliance with discharge limits, **passed** through a 5-micron filter, and discharged into the auxiliary salt water cooling system."

The 5-micron filter is not provided for radiological control or as a treatment necessary to meet NPDES limitations. The use of this filter pre-dates the original NPDES permit. Its description was included in the first NPDES permit for informational purposes only. The LRW system discharges comply fully with NPDES permit limitations for Discharge 001D prior to the 5-micron filter.

<u>Recommendation 2</u> - PG&E recommends adding the following clarification to this finding:

"The 5-micron filter is not part of an NPDES permit-required treatment or control system."

2.2.6 Revision to Discharge 001 E – Service Cooling Water System

Issue 1 - See "Generic Issue 1".

<u>Recommendation 1</u> - Modify the text in the permit to include "Generic Recommendation 1".

2.2.7 Revision to Discharge 001 F – Turbine Building Sump

Issue 1 - See "Generic Issues 1 and 2".

<u>Recommendation 1</u> - Modify the text in the permit to include "Generic Recommendations 1 and 2".

Issue 2 - PG&E notified the CCRWQCB staff in a letter dated September 11, 1992 (DCL-92-195) that the discharge description should be revised to include the collection of treated water in a separate sump prior to discharge to Outfall 001.

<u>Recommendation 2</u> - PG&E recommends the discharge description be revised to read:

"Floor drainage from the turbine building, buttress areas and drainage from other sumps, secondary systems, secondary systems chemistry laboratories and firewater system maintenance and testing (see note 1), are collected in the turbine building sump prior to treatment. *[Insert text from Generic Recommendations 1 and 2]*. The turbine building sump effluent is treated in an oily water separator or the Wastewater Holding and Treatment (WHAT) system prior to discharge via a separate sump to the main circulating water. Polyelectrolytes and/or coagulants may be used as a treatment aid."

2.2.8 Revision to Discharge 001H - Condensate Demineralizer Regenerant

Issue 1 - See "Generic Issues 1 and 2".

<u>Recommendation 1</u> – Modify the text in the permit to include "Generic Recommendations 1 and 2".

2.2.9 Revision to Discharge 001I - Seawater Evaporator Blowdown

Issue 1 - The Seawater Evaporator System is not operational and there are no plans at this time to make it operational because the existing makeup water systems provide sufficient water to operate the plant.

<u>Recommendation 1</u> - PG&E recommends that the Seawater Evaporator System continue to be listed in the NPDES permit, but the status should be "not operational" and the discharge flows should be zero (0).

Issue 2 - PG&E submitted a letter to the CCRWQCB dated February 13, 1991 (DCL-91-029) requesting concurrence to intermittently re-route Discharge 001J to Discharge 001I during power plant start-up operations and during periods of plant maintenance. The CCRWQCB provided concurrence in a letter dated April 3, 1991.

<u>Recommendation 2</u> - PG&E requests that this discharge description be amended to reflect this alternate re-route of Discharge 001J as shown on the Waste Stream Schematic and include the following:

"Intermittently during power plant start-up operations and plant maintenance Discharge 001J is re-routed to Discharge 001I."

2.2.10 Revision to Discharge 001J - Condensate Pumps Discharge Header Overboard

Issue 1 - See "Generic Issues 1 and 2".

<u>Recommendation 1</u> – Modify the text in the permit to include "Generic Recommendations 1 and 2".

2.2.11 Revision to Discharge 001K - Condenser Tube Sheet Detection Dump Tank Overboard

Issue 1 - See "Generic Issues 1 and 2".

<u>Recommendation 1</u> - Modify the text in the permit to include "Generic Recommendations 1 and 2" and re-name discharge as, "Condensate Dump Tank".

2.2.12 Revision to Discharge 001L - Steam Generator Blowdown

Issue 1 - See "Generic Issues 1 and 2".

<u>Recommendation 1</u> - Modify the text in the permit to include "Generic Recommendations 1 and 2".

2.2.13 Revision to Discharge 001M - Wastewater Holding and Treatment System

Issue 1 - See "Generic Issues 1 and 2".

<u>Recommendation 1</u> - Modify the text in the permit to include "Generic Recommendations 1 and 2".

2.2.14 Revision to Discharge 001N - Sanitary Wastewater Treatment System

Issue 1 - PG&E informed the CCRWQCB on September 11, 1992 (DCL-92-195) that the annual average flow for this discharge is 4.0×10^4 gpd. The maximum design capacity is 6.0×10^4 gpd, which could potentially be reached during unit outages when the onsite population temporarily increases. However, system integrator readings of the annual flow volume indicate the long-term average flow is 1.2×10^4 gpd.

<u>Recommendation 1</u> - Based on current operations and consistent with Form 2C, Attachment 1, PG&E recommends that the long-term average flow for this discharge read 1.2×10^4 gpd.

2.2.15 Addition of Discharge 001Q - Intake Structure Building Sumps

Issue 1 - See "Generic Issue 1".

<u>Recommendation 1</u> - Modify the text in the permit to include "Generic Recommendation 1".

Issue 2 - The intake building sump water was re-routed to NPDES Discharge 001 beginning in late 1996 as described in PG&E Letter DCL -96-500 (dated

March 11, 1996). The CCRWQCB provided written concurrence with this reroute on April 30, 1996. This water was previously discharged through Outfall 002 and can continue to be discharged through Outfall 002 if operationally it is determined necessary.

<u>Recommendation 2</u> - PG&E recommends that this re-routed discharge be designated 001Q and be described in the permit as follows:

"This discharge is comprised of drainage from within the intake structure including the intake sump, intake cooling water system, stored water releases, washwater, and firewater system maintenance and testing (see note 1). Discharge of corrosion inhibitors such as potassium molybdate, potassium nitrite, tolyltriazole, potassium tetraborate, potassium hydroxide and boric acid, and biocide agents such as glutaraldehyde and isothiazolin used in closed cooling water systems, may occur due to leakage and/or during operation, testing and maintenance activities."

2.2.16 Discharge 002 - Intake Structure Building Floor Drains

Issue 1 - Screenwash pumps provide more water than can be used in the screen wash system. The excess water is available to be used for emergency equipment cooling if needed (infrequent). The unused water is discharged through Discharge 002 at about 80 gallons/minute when the screen wash pumps are operating. As discussed in Section 2.2.15, Discharge 002 no longer routinely contains Intake Building Structure Sump water since its re-route to Outfall 001 beginning late in 1996 (as approved by the CCRWQCB April 30, 1996).

<u>Recommendation 1</u> - PG&E recommends that Discharge 002 be renamed "Screen Wash Pumps Overboard". The discharge description should be changed to read:

"Excess water from the screen wash pumps and firewater system maintenance and testing program (see note 1) is discharged inside the breakwater adjacent to the Intake Structure."

2.2.17 Revision to Discharge 003 - Intake Screen Wash

Issue 1 - See "Generic Issue 3"

<u>Recommendation 1</u> - Modify text in the permit to include "Generic Recommendation 3".

Issue 2 - Subsequent to the issuance of the 1990 NPDES permit, the Intake Maintenance Shop was completed. This building resides within the Discharge 003 drainage area and on September 11, 1992 (DCL-92-195), PG&E notified the CCRWQCB of the completion of this building. The letter also included a description of a gutter on the east side of the building that collects storm water from the vicinity, routing it to Discharge 003. The screen wash water and ocean debris is no longer collected and removed for disposal.

<u>Recommendation 2</u> – PG&E recommends that this discharge continue to be referred to as"Intake Screen Wash" and that industrial storm water be included

in the discharge description. In addition, the first two sentences of the discharge description should be revised as follows:

"Debris from the ocean is washed from the traveling screens at the Intake Structure. The screen wash water, along with ocean debris, is pumped back to the ocean at a point located on the ocean side of the breakwater."

2.2.18 Revision to Discharge 004 - Biolab Discharge

Issue 1 - See "Generic Issue 3"

<u>Recommendation 1</u> - Modify text in the permit to include "Generic Recommendation 3".

Issue 2 - In the current NPDES discharge description the term "filtrate" is incorrectly used. The description states, "Filters are backwashed based on pressure differentials and the filtrate (debris from the ocean) is discharged through Discharge 004." The term "filtrate" is defined as material which has passed though a filter. The material that is backwashed is the debris from the ocean which did not pass through the filter.

Recommendation 2 - PG&E recommends that this description be revised to read,

"Filters are backwashed based on pressure differentials and the debris from the ocean is discharged through Discharge 004."

2.2.19 Revision to Discharge 005 - Yard Storm Water

Issue 1 - See "Generic Issues 1, 2 and 3".

<u>Recommendation 1</u> - PG&E recommends that the name of this discharge be changed to "Industrial Storm Water" in accordance with Generic Recommendation 3. The description in the permit should be modified to include the text in Generic Recommendations 1 and 2 and the first sentence of the description should be modified as follows:

"Storm water runoff from the plant yard on the Unit 2 side of the radwaste buildings and the turbine building yard discharges west of Patton Cove."

2.2.20 Revision to Discharge 006 - Yard Storm Water

<u>Issue 1</u> – The discharge description should be updated to show that the temporary parking lot is now a permanent parking lot and the proposed used fuel storage area will be included in this watershed. The "Soils-Concrete Lab" which was described in Outfall 007, should be included in this discussion for Outfall 006. Finally, the description should include discharges from the Firewater System Maintenance and Testing.

<u>Recommendation 1</u> – PG&E recommends the discharge description be revised. Even though the watershed is primarily undeveloped, the title should be changed to "Industrial Storm Water," consistent with Generic Recommendation 3. The following description is suggested:

"Storm water runoff from the Pacific Ocean side of the ridge to the southeast of the plant is discharged south of Patton Cove. Industrial activities in this watershed include the shooting range, south warehouse, used fuel storage area, Soils-Concrete Lab, stored water releases, washwater, and firewater system maintenance and testing (see note 1). A parking lot is also included in the watershed."

2.2.21 Revision to Discharge 007 - Storm Water Runoff

<u>Issue 1</u> – The discharge description should be updated to reflect: 1) the temporary hazardous waste storage area has been closed; 2) the "Soils Lab" is now called the "Soils-Concrete Lab" and is included in the drainage for Outfall 006; 3) the drainage area includes an outside sandblast facility; and 4) the fuel tanks have been upgraded to double-walled, above-ground tanks, and thus the requirement to dike the area is no longer necessary.

<u>Recommendation 1</u> - PG&E recommends the discharge description be revised. Even though the watershed is primarily undeveloped, the title should be changed to "Industrial Storm Water," consistent with Generic Recommendation 3. The following description is suggested:

"Storm water runoff from an area to the south of the same ridge that drains to Discharge 006 is routed to the ocean near the southern site boundary. Industrial activities in this watershed are conducted by the general construction paint department and vehicle fueling from the above-ground double-walled fuel tanks."

2.2.22 Revision to Discharge 008 - Yard Storm Drain

Issue 1 - See "Generic Issues 1, 2 and 3".

<u>Recommendation 1</u> - PG&E recommends that the name of this discharge be changed to "Industrial Storm Water" in accordance with Generic Recommendation 3. The description in the permit should be modified to include the text in Generic Recommendations 1 and 2 and the first sentence should be modified as follows:

"Storm water runoff from the yard area of the turbine building is drained to the west plant access road and discharged into Diablo Creek."

2.2.23 Revision to Discharge 009 - Yard Storm Drain

Issue 1 - See "Generic Issues 1, 2 and 3". The hazardous waste storage area in the protected area of the plant has been closed and is no longer used.

<u>Recommendation 1</u> - PG&E recommends that the name of this discharge be changed to "Industrial Storm Water" in accordance with Generic Recommendation 3. The description in the permit should be modified to include the text in Generic Recommendations 1 and 2. Finally, the reference to the "protected area hazardous waste storage area" should be deleted.

2.2.24 Revision to Discharge 010 - Yard Storm Drain

Issue 1 - See "Generic Issue 3"

<u>Recommendation 1</u> - PG&E recommends that the name of this discharge be changed to "Industrial Storm Water" in accordance with Generic Recommendation 3.

2.2.25 Revision to Discharge 011 - Storm Water Runoff

Issue 1 - See "Generic Issue 3"

<u>Recommendation 1</u> - PG&E recommends that the name of this discharge be changed to "Industrial Storm Water" in accordance with Generic Recommendation 3.

2.2.26 Revision to Discharge 012 - Storm Water Runoff

Issue 1 - See "Generic Issue 3"

<u>Recommendation 1</u> - PG&E recommends that the name of this discharge be changed to "Industrial Storm Water" in accordance with Generic Recommendation 3.

2.2.27 Revision to Discharge 013 - Yard Storm Drain

<u>**Issue 1**</u> - See "Generic Issue 3" and add a reference to the used fuel storage area in the description.

<u>Recommendation 1</u> - PG&E recommends that the discharge description be revised. The title should be changed to "Industrial Storm Water" consistent with Generic Recommendation 3. Also, a reference to the used fuel storage area should be included. The following description is suggested:

"Storm water from raw water reservoirs, makeup water treatment area, used fuel storage area, and 230 KV switchyard collects in a drainage system and is routed to Diablo Creek. Some runoff from the watershed under the 500 KV power lines is also included in this drainage. This drainage may occasionally include firewater (see note 1), washwater and stored water releases."

2.2.28 Revision to Discharge 014 - Yard Storm Drain

<u>**Issue 1**</u> - Discharge description references a dog kennel which has subsequently been closed.

<u>Recommendation 1</u> - PG&E recommends the discharge description be revised removing reference to the dog kennel.

Issue 2 - See "Generic Issue 3"

<u>Recommendation 2</u> - PG&E recommends that the name of this discharge be changed to "Storm Water Runoff" in accordance with Generic Recommendation 3.

2.2.29 Revision to Discharge 015 - Yard Storm Drain

Issue 1 - See "Generic Issue 3."

<u>Recommendation 1</u> – PG&E recommends that the name of this discharge be changed to "Industrial Storm Water" in accordance with Generic Recommendation 3.

Issue 2 – The description should be modified to reflect changes to the facilities in this drainage area.

<u>Recommendation 2</u> – PG&E recommends the following description:

"Storm water runoff from the area around the auto facility, concrete and paved areas, and adjacent roadway is routed to Diablo Creek. This discharge may occasionally include firewater (see note 1), washwater, and stored water releases."

2.2.30 Revision to Discharge 016 - Biolab Seawater Supply Pump Valve Drain

Issue 1 - This description incorrectly calls the Intake Cove the "South Cove".

<u>Recommendation 1</u> - PG&E recommends the description be modified to reflect the discharge entering the Intake Cove.

2.2.31 Revision to Discharge 017 - Seawater Reverse Osmosis System Blowdown Drain

Issue 1 - This description incorrectly calls the Intake Cove the "South Cove".

<u>Recommendation 1</u> - PG&E recommends the description be modified to reflect the discharge entering the Intake Cove.

2.2.32 Addition of Discharge 018 - Industrial Storm Water

Issue 1 - PG&E informed the CCRWQCB of this new stormwater discharge on September 11, 1992 (DCL-92-195). See "Generic Issue 3."

<u>Recommendation 1</u> - PG&E recommends this discharge be added to Finding 4 in accordance with Generic Recommendation 3 and described as follows:

"Stormwater which originates from the southeast side of the road adjacent to the Intake Structure and from the southeast side of the Intake Structure Security Building is collected in a drainage culvert and routed to the Intake Cove."

2.2.33 Addition of Discharge 019 - Storm Water Runoff

Issue 1 - PG&E informed the CCRWQCB of this new stormwater discharge on September 11, 1992 (DCL-92-195). See "Generic Issue 3."

<u>Recommendation 1</u> - PG&E recommends this discharge be added to Finding 4 in accordance with Generic Recommendation 3 and described as follows:

"Stormwater which originates from the parking lot immediately to the west of the protected area and adjacent to the discharge structure outfall is collected in a yard drain and routed to Diablo Cove."

2.2.34 Addition of Discharge 020 - Industrial Storm Water

Issue 1 - As presented in the 1994 application submitted November 7, 1994, this is a new yard storm drain located west of the intake structure. See "Generic Issue 3."

<u>Recommendation 1</u> - PG&E recommends this discharge be added to Finding 4 in accordance with Generic Recommendation 3 and described as follows:

"Storm water that originates from the area west of the Intake Structure is discharged into the Intake Cove. Overspray from the intake screen washes may contribute to this source."

2.2.35 Addition of Discharge 021 - Industrial Storm Water

Issue 1 - As presented in the 1994 application submitted November 7, 1994, this is a new yard storm drain located on the south portion of the intake structure. See "Generic Issue 3."

<u>Recommendation 1</u> - PG&E recommends this discharge be added to Finding 4 in accordance with Generic Recommendation 3 and described as follows:

"Storm water that originates from the area south of the Intake Structure is discharged into the Intake Cove. Overspray from intake screen washes may contribute to this source."

2.2.36 Addition of Discharge 022 - Biolab/Reverse Osmosis Supply Lines Drain

<u>Issue 1</u> - As presented in the 1994 application submitted November 7, 1994, this discharge is located in the Intake Cove and is described in the current permit under Discharge 004.

<u>Recommendation 1</u> - PG&E recommends this discharge be added to Finding 4 and described as follows:

"There are two supply lines for the Biolab/Reverse Osmosis plant. Each line has a bypass pipe that discharges into the Intake Cove just south of the boat dock. The supply lines are typically alternated on a regular basis (approximately monthly) so that one can be laid-up dry to control biofouling while the other is in operation. During start-up of the Biolab pump, and when supply lines are switched, discharges to the Intake Cove occur."

2.2.37 Addition of Discharge 023 - Storm Water Runoff

Issue 1- This is a new discharge south of the Intake Cove. See "Generic Issue 3."

<u>Recommendation 1</u> - PG&E recommends this discharge be added to Finding 4 in accordance with Generic Recommendation 3 and described as follows:

"Storm water that originates southeast of the North Meteorological Tower and includes the hillside below Marine Drive."

2.2.38 Addition of Discharges 024 - Storm Water Runoff

<u>Issue 1</u> - This is a new discharge south of the Intake Cove. See "Generic Issue 3."

<u>Recommendation 1</u> - PG&E recommends this discharge be added to Finding 4 in accordance with Generic Recommendation 3 and described as follows:

"Storm water that originates northeast of the South Meteorological Tower includes a watershed of approximately 30 acres. The watershed encompasses both sides of Diablo Ocean Drive and the land is undeveloped."

2.2.39 Addition of Discharge 025 - Storm Water Runoff

<u>Issue 1</u> - This is a new discharge south of the Intake Cove. See "Generic Issue 3."

<u>Recommendation 1</u> - PG&E recommends this discharge be added to Finding 4 in accordance with Generic Recommendation 3 and described as follows:

"Storm water that originates east of the South Meteorological Tower includes a watershed of approximately 25 acres. The watershed encompasses both sides of Diablo Ocean Drive and the land is undeveloped. An estimated 20 acres is discharged through 024A and an estimated 5 acres through 024B."

2.2.40 Addition of Discharge 026 - Circulating Water Pumps Backflow

<u>Issue 1</u> – Once-Through cooling water may be discharged at the Intake Structure on occasion. When the pumps are shut down, the water that has been pumped from the Intake Structure up to the main condensers will flow by gravity back down and out the intake. For completeness, this discharge should be added to the NPDES permit.

Such discharges could contain the products of chlorination and bromination and the constituents described in "Generic Issue 1". There would be no temperature influence associated with this discharge.

<u>Recommendation 1</u> - PG&E recommends this discharge be added to Finding 4 and described as follows:

"On occasion, one or both of the circulating water pumps for Unit 1 or Unit 2 may be shut down. When this occurs, water that has been pumped from the

intake structure up to the main condensers will flow by gravity back down and out the intake. [Insert text from Generic Recommendations 1]."

2.2.41 Addition of Discharge 027 – Screen Wash Collection Sump Overflow

<u>Issue 1</u> – Ocassionally, the screen wash collection sump may overflow seawater and ocean debris that discharges into the Intake Cove.

<u>Recommendation 1</u> - PG&E recommends this discharge be added to Finding 4 and described as follows:

"Ocean debris accumulates on the traveling screens. This debris is washed off into troughs that feed into the collection sump. Under normal conditions this material is pumped back to the ocean via Outfall 003. However, on occasion, the collection sump pumps become clogged and/or debris loading is extremely high. On these rare occasions, the collection sump fills up with seawater and ocean debris, and then is designed to overflow through an opening in the face of the Intake Structure into the Intake Cove".

3.0 PROPOSED CHANGES TO DISCHARGE PROHIBITIONS AND EFFLUENT LIMITATIONS

3.1 Revise Discharge 001 limitation - Radioactivity

Issue 1 - The current permit assigns effluent limitations for radioactivity as:

"Not to exceed limits specified in Title 17, Chapter 5, Subchapter 4, Group 3, Article 3, Section 30269 of the California Code of Regulations."

This regulation was repealed in 1994 (17CCR30269). The Draft Functional Equivalent Document of the California Ocean Plan, dated September 1, 2000, states that the Table B Water Quality Objectives for "Radioactivity" was intended to reference Title 17 Section 30253 of the California Code of Regulations. The current draft of the California Ocean Plan proposes Section 30253 in Title 17 will be substituted for Section 30269. Section 30253 references the federal radiological standards in 10CFR20.

<u>Recommendation 1</u> - PG&E recommends this requirement be removed. DCPP does perform radiological effluent monitoring in conjunction with 10CFR20 and its Nuclear Regulatory Commission (NRC) operating license. The results of this monitoring are contained in the "Annual Radiological Effluent Report" which is provided to the NRC and the CCRWQCB.

3.2 Remove Discharge Prohibition A. 4

Issue 1 – The current permit states:

"Discharge of nonhazardous solid waste (as defined in California Code of Regulations, Title 23, Chapter 3, Subchapter 15, Section 2523 (a), adopted December 8, 1984) to surface waters is prohibited."

This regulation was repealed June 18, 1997 and refers to Water Code Section 13172. Section 13172 "Classification of wastes and types of disposal sites; adoption of standards and regulations." This section applies only to disposal facilities.

<u>Recommendation 1</u> – PG&E recommends this requirement be removed. DCPP is not a disposal facility and does not accept or manage waste from off-site or on-site sources for on-site disposal.

3.3 Remove the Third Footnote Pertaining to Total Residual Chlorine Discharge

Issue 1 - The current permit effluent limitation for Total Residual Chlorine (TRC) third footnote states:

"TRC may not be discharged from any single generating unit for more than two hours per day. At least thirty minutes must separate the chlorine discharge from each one-half condenser unit."

At the request of PG&E, the CCRWQCB staff reviewed the basis for requiring the timed separation of chlorine discharge from each one-half condenser unit. The CCRWQCB responded in a letter dated January 4, 1996 stating, ". . . the 30-minute separation of discharges is not based on any known regulation, plan or policy. Furthermore, the 30-minute separation appears inappropriate in light of the cooling water flow pattern at your

facility. Implementation of this requirement may increase the amount of chemicals discharged by forcing longer chlorination cycles and chemical addition of dechlorination in order to comply with the first part of the footnote. Federal regulations (40CFR423) allow for simultaneous multi-unit discharges of chlorine. Therefore, this requirement (30-minute separation) does not appear to further the goal to protect water quality and should be eliminated, effective immediately."

<u>Recommendation 1</u> - PG&E recommends this requirement for 30-minute separation be removed as indicated in the CCRWQCB's letter.

Issue 2 - Subsequent to the issuance of the 1990 permit, DCPP conducted up to four, thirty-minute chlorine injections per day to control condenser microfouling in each of the four condenser halves. Grab samples were collected for TRC at Discharge 001 for compliance with the monitoring program. In 1993, PG&E initiated an improved method which involved six separate 20-minute injections per tunnel over a 24-hour period. Continuous TRC/TRO monitoring of Discharge 001 is conducted to facilitate improved data collection and injection system controls. This method exceeded the NPDES permit requirement to collect a grab sample "... at least twice during each chlorination cycle" by providing continuous characterization of TRC concentrations during each chlorination cycle. While an extensive maintenance plan is performed on the TRC/TRO analyzer system, continuous TRC/TRO analysis occasionally does not occur due to a temporary analyzer system problem.

In 1994, PG&E proposed the use of an engineering evaluation as an approved method to confirm compliance with the chlorine limits in these instances. This was approved by the CCRWQCB in a January 13, 1994 letter, and has been used by PG&E to confirm compliance. The existing permit contains a provision allowing use of an engineering evaluation for demonstrating compliance with temperature monitoring in the event of temporary measurement system failure. The recommendation below is based on that language.

<u>Recommendation 2</u> - PG&E recommends the following statement be added to the permit:

"For periods when TRC/TRO monitoring systems are temporarily inoperative, an alternate means of measurement or calculation providing equivalent information, such as an engineering evaluation, may be used during this period."

4.0 PROPOSED CHANGES TO MONITORING AND REPORTING REQUIREMENTS

4.1 Effluent Monitoring Program – Type of Sample for Metal Cleaning Operations

<u>Issue 1</u> - The current permit requires 24-hour composite samples for both copper and iron during metal cleaning operations. This operation occurs at Discharges 001D, 001F, 001I, 001L, and 001M. Typically, these discharges are conducted only after the batch has been recirculated, the contents are homogeneous, and grab sample results are less than the discharge limits. PG&E proposes that a grab sample method is representative of the total discharge.

<u>Recommendation 1</u> - PG&E recommends that the 24-hour composite sample be changed to a grab sample for the metal cleaning wastes that are batched and recirculated.

4.2 Effluent Monitoring Program - Footnote (*)

<u>Issue 1</u> - The current permit requires that Total Suspended Solids (TSS) analysis be conducted using a "two-filter" method. This method has been required for ocean water samples to essentially provide credit to the discharger for any brine that may collect on the filter. This method falls short of this intent, however, because it requires that once the samples are passed through the filters, they are then rinsed with deionized water which in effect rinses any brine that has accumulated on either filter. Therefore, implementation of the "two-filter" methodology does not account for the brine that may collect on the filter.

<u>Recommendation 1</u> - PG&E recommends that the "two-filter" method no longer be required for TSS analysis. Instead, we propose that TSS analysis be conducted using the Department of Health Services's ELAP approved methodology.

4.3 Monitoring and Reporting Program, Reporting Requirement # 3:

Issue 1 - Currently this requirement states, "Notwithstanding Standard Provision C.4, details of any bypass or damage of the five-micron filters in the liquid radwaste system shall be reported to the Executive Officer immediately." The 5-micron filter is not used for radiological control or as a treatment necessary to meet NPDES limitations. The use of this filter pre-dates the original NPDES permit. Its description was included in the first NPDES permit for informational purposes only. The LRW system discharges comply fully with NPDES permit limitations for Discharge 001D prior to the 5-micron filter.

<u>Recommendation 1</u> - For these reasons, PG&E recommends that the reporting requirement regarding the status of the 5-micron filter be removed from the Monitoring and Reporting Program.

4.4 Monitoring and Reporting Program, Reporting Requirement # 4:

<u>Issue 1</u> – This requirement provides copies of reports prepared for the Nuclear Regulatory Commission (NRC) and/or the California Department of Health Services related to the marine environment shall be submitted to the Executive Officer. It is believed that the intent of this requirement is to provide reports that may "have an impact

on the marine environment" to the Executive Officer. Currently, reports are provided to the NRC that address the "impacts that the marine environment may have on the operation of the power plant" and appears to be beyond the scope of what was intended to be submitted to the Executive Officer.

<u>Recommendation 1</u> -PG&E recommends that the reporting requirement be revised as follows:

"A copy of information contained in reports to the Nuclear Regulatory Commission and/or the California Department of Health Services related to the effects the plant may have on the marine environment shall be submitted to the Executive Officer. Results of radiological monitoring of the receiving water shall be reported at the same time reports are made to the Nuclear Regulatory Commission." Appendix A

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AMENDED FORM 1

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III. POLLUTANT CHARACTERISTICS

INSTRUCTIONS: Complete A through J to determine whether you need to submit any permit application forms to the EPA. If you answer "yes" to any questions, you must submit this form and the supplemental form listed in the parenthesis following the question. Mark "x" in the box in the third column if the supplemental form is attached. If you answer "no" to each question, you need not submit any of these forms. You may answer "no" if your activity is excluded from permit requirements; see Section C of the instructions. See also, Section D of the instructions for definitions of bold-faced terms.

	1	MAF	RK "X"			MARK "X	n
SPECIFIC QUESTIONS	YES	NO	FORM ATTACHED	SPECIFIC QUESTIONS	YES	NO	FORM ATTACHED
A. Is this facility a publicly owned treatment works which results in a discharge to waters of the U.S.		x		B. Does or will this facility (<i>either existing or proposed</i>) include a concentrated animal feeding operation or aquatic animal production facility which results in a discharge to waters of the U.S.? (FORM)		x	
(FORM 2A)	16	17	18	2B)	16	17	18
C. Is this facility which currently results in discharges to waters of the U.S. other than those described in A	x		x	D. Is this a proposed facility (other than those described in A or B above) which will result in a discharge to waters of the U.S.?		x	
or B above? (FORM 2C)	22	23	24	(FORM 2D)	22	23	24
E. Does or will this facility treat, store or dispose of	x			F. Do you or will you inject at this facility industrial or municipal effluent below the lowermost stratum containing, within one quarter		x	
	28	29	30	(FORM 4)	28	28	29
you or will you inject at this facility any produced water her fluids which are brought to the surface in connection with conventional oil or natural gas production, inject fluids used for enhanced recovery of oil or natural gas, or inject		x		H. Do you or will you inject at this facility fluids for special processes wuch as mining of sulfur by the Frasch process, solution mining of minerals, in situ combustion of fossil fuel, or recovery of		x	
fluids for storage of liquid hydrocarbons? (FORM 4)	34	35	36	geothermal energy? (FORM 4)	34	35	36
I. Is this facility a proposed stationary source which is one of the 28 industrial categories listed in the instruction and which will potentially emit 100 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located		x		J. Is this facility a proposed stationary source which is NOT one of the 28 industrial categories listed in the instruction and which will potentially emit 250 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an		x	-
in an attainment area? (FORM 5)	40	41	42	attainment area? (FORM 5)	40	41	42
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IV. FACILITY CONTACT	. NA	MË 8	TITLE (la	ast, first & title)	B. PHONE	(area cod	e & no.)
2 OATLEY, DAVID H., VICE PRES	IDE	NT	DIABL	O CANYON OPERATIONS	805	545	4350
15 16				45	46 - 48	49 - 51	52-55
V. FACILITY MAILING ADDRESS							
	<u>^</u>	. ST	REET OR	P.O. BOX	ļ		
3 P O BOX 56							
15 16		701					
B. CIT	YOR	100	VN	C. STATE D. ZIP CODE			
					I		
A. STREET, ROUTE NO. O	R OT	HER	SPECIFIC	DENTIFIER			
9 MILES NW OF AVILIA BEACH	ł						
15 16				45			
B. COUNTY I	NAME						
SAN LUIS OBISPO				77			
Y							
C. CIT	Y OR	то	WN	C. STATE D. ZIP CODE	F. COUNT (if kno	Y CODE	
C. CIT	YOR	TOV	ŴŇ	C. STATE D. ZIP CODE	F. COUNT (if kno	Y CODE	

CONTINUED FROM THE FRONT

VIII. SIC CO	DES (4 digit, in order of priority)								
I	A. FIRS	Τ		1		B. SEC	COND		
49	11 ELECTRIC	POWER GENERATION	7]	(SPECIFY)				
			15	5 116 1	9				
ि	(SPECIFY)		<u> </u>		(SPECIFY)	D. FUL			
7			7		ſ				
15 16	19 DES (4 digit, in order of priority)		15	16 1	9				
	DES (4 digit, in order of priority)	A. NAME				i i	Blathana	no listod	
C	PACIEIC	CAS & ELECTRIC COMPAN	IV.				Item VIII-	A also the o	owner?
8	FACIFIC	GAS & ELECTRIC COMPAN	• 1				X YE		
15 16 C STATUS O	OPERATOR (Entor the oppropriate letter	into the enginest how if "Other" engits				35	66		<u> </u>
F= FEDERAL	M= PUBLIC (OTHER THAN FED	ERAL OR STATE)	_ (sr	pecity)		- C	D. PHONE (area code &	no.) I
S= STATE	O= OTHER (SPECIFY)			••		A	415	973	7000
P= PRIVATE			54		1	15	16 - 18	19-21	22- 25
				·	{				
77 BEA	E STREET PO BOX 770000								
	F. CITY OR	TOWN		G. STATE	H. ZIP CODE	IX. IN			
c (SPECIFY)						Is the	facility located	l on Indian la	nds?
B SAN	FRANCISCO			CA	94177		YES	X NO	
15 16 X. EXISTINO	ENVIRONMENTAL PERMITS			41 42	47 - 51		52		
A. NP	DES (Dishcarge to Surface Water)	D. PSD (Air Emissions from Prop	osed Sou	irces)					
	CA0003751								
9 N 15 16 17 18	3(9 P 15 16 17 18		30					
B. UI	(Underground Injection of Fluids)	E. OTHER (Specify,	Ì			·			
		CAD0779	66349		(SPECIFY)	sule C.	h		
16 17 18	30	15 16 17 18		30	Facility Permit	t su	ibstances-Ha	zardous wa	ste
C	RCRA (Hazardous Wastes)	E. OTHER (Specify)	1		(0.5.5.4				
9 R		9			(SPECIFY)				
15 16 17 18	30	15 16 17 18		30					
Attach to this a	polication a topographic map of the area ex	tending to at least one mile beyond property	boundar	ries. The man	must show the	outline	of the facility	the location	ofeach
of its existing a	d proposed intake and discharge structure	s, each of its hazardous waste treatment, st	orage, or	disposal facil	ities, and each v	vell whe	ere it injects fl	uids undergro	ound.
Include all sprin	gs, rivers and other surface water bodies in	the map area. See instructions for precise	requirem	nents.	<u></u>				
XII. NATURE	OF BUSINESS (provide a breif descript	ion							
Investo	r owned public utility comp	any which provides electricit	v and	das serv	ices in				
Northe	n and Central California.		,	3					
XIII. CERTIFI	CATION (see instructions)								
hased on my	penalty of law that I have personally	examined and am familiar with the informati	on cont	n submitted	in this applica	tion ar	nd all attach	ments and	that,
accurate and	complete. I am aware that there are	significant penalites for submitting fals	e inform	nation, inclu	ling the possi	bilty of	fine and im	prisonment	uue,
		-				•		,	
A . NAME &	OFFICIAL TITLE (type or print)	B. SIGNATURE			Ī	C. DA	TE SIGNED		
David	H. Oatley, Vice President	KAN		7_0	-		1. 1.1	<u> </u>	
Dia	olo Canyon Operations		$\underline{\mathcal{V}}$	all	2	(-17-	9	
COMMENTS	FOR OFFICIAL USE ONLY								
									ł
16							55		
A Form	3510-1 (8-90)					Forms by	ChemSWtm(707)8	64-0845;p/n11904	4;v5.2;1/1/98



Appendix B

AMENDED FORM 2C

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ease print or typ	e in the unshaded areas o	EPA I.D.	NUMBER (copy f	rom Item)7796634	1 of Form 1) 9	Form Approved OMB No. 2040-0086 Approval expires 5-31-92	
FORM 2 C NPDES	∲ EPA ,	EXISTING MANU	U.S. EN APPLICATION JFACTURING, C	VIRONMI FOR PEI OMMERC Consoli	ENTAL PROTECTION AGE RMIT TO DISCHARGE WA IAL, MINING AND SILVIC Jated Permits Program	NCY STEWATER ULTURAL OPERATION	
OUTFALL L	OCATION						
or each outfa	II, list the latitude and	longitude of its	location to the ne	arest 15 s	econds and the name of the	e receiving water	
. OUTFALL NUMBER (list)	B. LATITUDE	SEC. 1. DEG.	2. MIN. 3.	SEC.	D. RECEIVIN	G WATER (name)	
001	35 12	45 120	51	15	Pacific Ocean (Diablo Cov	/e)	
						· · · · · · · · · · · · · · · · · · ·	
FLOWS SC	URCES OF POLLUT	ION. AND TRE		OLOGIES			
Attach a line di	rawing showing the water fi	ow through the facili	ty. Indicate sources of the section in them E	of intake wa	ter, operations contributing waste a water balance on the line draw	water to the effluent, ing by showing average	
and treatment flows between	intakes, operations, treatm	ent units, and outfall	s. If a water balance	cannot be o	letermined (e.g. for certain mining	<i>activities),</i> provide a	
pictorial descrip For each outfa cooling water, a	otion of the nature and amo II, provide a description of: Ind storm water runoff; (2)	(1) All operations co The average flow co	ntributing wastewater ntributed by each ope	to the efflueration; and	ant, including process wastewate (3) The treatment received by the	, sanitary wastewater, wastewater. Continue	
on additional sh	eets if necessary.				<u>э т</u> г		1080) 10849
. OUTFALL	a. OPERATION (lion(s) CONTRI list) b. P	BUTING FLOW	1	a. DESCRIPTION	b. LIST CODES F	FR(
(IISt) 001	Once-Through		2 5x10 ⁹ GPD	De	chlorinaton	2-E	
001	Cooling Water			00	ean Discharge Through O	utfall 4-B	
			7				
001B	Auxiliary Salt	3	3.48x10' GPD				
001B	Auxiliary Salt Water Cooling Sys	item	3.48x10' GPD				
001B	Auxiliary Salt Water Cooling Sys		3.48x10' GPD	Mi	crostraining	1-N	
001B 001D	Auxiliary Salt Water Cooling Sys Liquid Radioactive Waste Treatment	item	3.48x10' GPD	Mi	crostraining arbon Adsorption	1-N 2-A	
001B 001D	Auxiliary Salt Water Cooling Sys Liquid Radioactive Waste Treatment System	<u>ز tem</u>	3.48x10' GPD	Mi Ca Ion	crostraining arbon Adsorption n Exchange	1-N 2-A 2-J	
001B 001D	Auxiliary Salt Water Cooling Sys Liquid Radioactive Waste Treatment System	stem	3.48x10' GPD	Mi Ca Ion Cc La	crostraining arbon Adsorption n Exchange pagulation ndfill	1-N 2-A 2-J 2-D 5-Q	
001B 001D 001E	Auxiliary Salt Water Cooling Sys Liquid Radioactive Waste Treatment System Service Cooling	stem	3.48x10' GPD 3.00x10 ³ GPD .24x10 ⁷ GPD		crostraining arbon Adsorption n Exchange bagulation ndfill	1-N 2-A 2-J 2-D 5-Q 1-T	
001B 001D 001E	Auxiliary Salt Water Cooling Sys Liquid Radioactive Waste Treatment System Service Cooling Water System	stem	3.48x10' GPD 3.00x10 ³ GPD		crostraining arbon Adsorption n Exchange bagulation ndfill	1-N 2-A 2-J 2-D 5-Q 1-T	
001B 001D 001E 001F	Auxiliary Salt Water Cooling Sys Liquid Radioactive Waste Treatment System Service Cooling Water System Turbine Building	stem	3.48x10' GPD 3.00x10 ³ GPD 1.24x10 ⁷ GPD 5.00x10 ⁴ GPD		crostraining arbon Adsorption in Exchange bagulation indfill reening otation (Oil/Water Separation	1-N 2-A 2-J 2-D 5-Q 1-T	
001B 001D 001E 001F	Auxiliary Salt Water Cooling Sys Liquid Radioactive Waste Treatment System Service Cooling Water System Turbine Building Sump	stem	3.48x10' GPD 3.00x10 ³ GPD 1.24x10 ⁷ GPD 5.00x10 ⁴ GPD		crostraining arbon Adsorption in Exchange bagulation indfill reening otation (Oil/Water Separation bagulation indfill	1-N 2-A 2-J 2-D 5-Q 1-T 0n) 1-H 2-D 5-Q 5-Q	
001B 001D 001E 001F	Auxiliary Salt Water Cooling Sys Liquid Radioactive Waste Treatment System Service Cooling Water System Turbine Building Sump	stem	3.48x10' GPD 3.00x10 ³ GPD 		crostraining arbon Adsorption in Exchange bagulation indfill preening btation (Oil/Water Separation bagulation indfill	1-N 2-A 2-J 2-D 5-Q 1-T 0n) 1-H 2-D 5-Q 5-Q	

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Please print or ty	be in the unshaded areas only	EPA I.D. NUMBER (copy from CAD 0779	Item 1 of Form 1) 66349	Form Approved OMB No. 2040-0086 Approval expires 5-31-92
FORM 2 C NPDES	SEPA EXIST	U.S. ENVIRC APPLICATION FOR ING MANUFACTURING, COMM Cor	NMENTAL PROTECTION PERMIT TO DISCHARGE ERCIAL, MINING AND SIL Isolidated Permits Program	AGENCY WASTEWATER VICULTURAL OPERATION
I. OUTFALL I	OCATION			
For each outf	all, list the latitude and long	itude of its location to the nearest	15 seconds and the name	of the receiving water
A OUTFALL NUMBER (list)	1. DEG. 2. MIN. 3. SEC	. 1. DEG. 2. MIN. 3. SEC.	D. RECE	WING WATER (name)
I. FLOWS, S	DURCES OF POLLUTION	AND TREATMENT TECHNOLO	GIES	
Attach a line di and treatment u flows between pictorial descrip For each outfat cooling water, a	awing showing the water flow thro inits labeled to correspond to the r intakes, operations, treatment unit stion of the nature and amount of a I, provide a description of: (1) All c nd storm water runoff; (2) The ave gets if peressap.	ugh the facility. Indicate sources of intake nore detailed description in Item B. Const s, and outfalls. If a water balance cannot I iny sources of water and any collection or iperations contributing wastewater to the e rage flow contributed by each operation; a	water, operations contributing was ruct a water balance on the line dra be determined (e.g, for certain mini treatment measures. ffluent, including process wastewa nd (3) The treatment received by t	stewater to the effluent, awing by showing average ing activities), provide a ter, sanitary wastewater, he wastewater. Continue
1 OUTFALL	2 OPERATION(S		<u> </u>	TREATMENT
NUMBER	a. OPERATION (list)	b. AVERAGE FLOW	a. DESCRIPTI	ON b. LIST CODES FRO
(list)		(include units)		TABLE 2C-1
0016	System Effluent (Brine)	9.65x10* GPD	· · · · · · · · · · · · · · · · · · ·	
001H	Condensate	3.33x10 ⁴ GPD	Filtration (Microstraining)	1-N
	Demineralizer Regenerant		Neutralization Landfill	2-k 5-Q
0011	Seawater Evaporator Blowdown			
001J	Condensate Pumps Discharge Header Overboard	1.89x10 ³ GPD		
001K	Condensate Dump Tank	1.44x10 ⁵ GPD		
001L	Steam Generator Blowdown	1.47x10 ⁵ GPD		
ŀ	¹ Flow Data is summarize	ed in Attachment 1		
FFICIAL US	E ONLY (effluent guideline)	s sub-categories)		

EPA Form 3510-2C (8-90)

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se print or ty	pe in the unshaded areas only	EPA I.D. NUMBER (copy from I CAD 07796	tem 1 of Form 1) Form 6349 OME Appr	Approved No. 2040-0086 oval expires 5-31-92
JRM 2 C NPDES		U.S. ENVIRO APPLICATION FOR FING MANUFACTURING, COMMI Con:	NMENTAL PROTECTION AGENC) PERMIT TO DISCHARGE WASTE ERCIAL, MINING AND SILVICULT solidated Permits Program	WATER JRAL OPERATION
OUTFALL	LOCATION			
or each outf	all, list the latitude and lon	gitude of its location to the nearest	15 seconds and the name of the re	ceiving water
A. OUTFALL NUMBER (list)	B. LATITUDE	C. LONGITUDE C. 1. DEG. 2. MIN. 3. SEC.	D. RECEIVING W	ATER (name)
			·	
I. FLOWS, S	OURCES OF POLLUTION	I, AND TREATMENT TECHNOLO	GIES	
and treatment flows between pictorial descri For each outfa cooling water, a	units labeled to correspond to the intakes, operations, treatment un ption of the nature and amount o II, provide a description of: (1) All and storm water runoff; (2) The a peets if necessary	e more detailed description in Item B. Const its, and outfalls. If a water balance cannot f any sources of water and any collection or operations contributing wastewater to the e verage flow contributed by each operation; a	water, operations contributing wastewater to ruct a water balance on the line drawing by s be determined <i>(e.g., for certain mining activitie</i> treatment measures. ffluent, including process wastewater, sanitar nd (3) The treatment received by the wastew	ne enuert, nowing average s), provide a y wastewater, ater. Continue
	2. OPERATION	S) CONTRIBUTING FLOW	3 TREAT	1ENT
NUMBER (list)	a. OPERATION (list)	b. AVERAGE FLOW ¹ (include units)	a. DESCRIPTION	b. LIST CODES FRO TABLE 2C-1
001M	Wastewater	1.25x10 ⁵ GPD	Flotation (Oil/Water Separation)	1-H
-	Holding and		Multimodia Eiltration	
	riolang ana		Iniuiumeula Filitation	1-Q
	Treatment System		Sedimentation (Settling)	1-Q 1-U
:	Treatment System		Sedimentation (Settling) Neutralization	1-Q 1-U 2-K
	Treatment System		Sedimentation (Settling) Neutralization Coagulation	1-Q 1-U 2-K 2-D
	Treatment System		Sedimentation (Settling) Neutralization Coagulation Landfill	1-Q 1-U 2-K 2-D 5-Q
	Treatment System		Sedimentation (Settling) Neutralization Coagulation Landfill Disinfection (Chlorine)	1-Q 1-U 2-K 2-D 5-Q 2-F
001N	Treatment System Sanitary Wastewater	1.21x10 ⁴ GPD	Sedimentation (Settling) Neutralization Coagulation Landfill Disinfection (Chlorine) Activated Sludge	1-Q 1-U 2-K 2-D 5-Q 2-F 3-A
001N	Sanitary Wastewater Treatment System	1.21x10 ⁴ GPD	Sedimentation (Settling) Neutralization Coagulation Landfill Disinfection (Chlorine) Activated Sludge Aerobic Digestion	1-Q 1-U 2-K 2-D 5-Q 2-F 3-A 3-A 5-A
001N	Sanitary Wastewater Treatment System	1.21x10 ⁴ GPD	Sedimentation (Settling) Neutralization Coagulation Landfill Disinfection (Chlorine) Activated Sludge Aerobic Digestion Disinfection (Chlorine)	1-Q 1-U 2-K 2-D 5-Q 2-F 3-A 3-A 5-A 2-F
001N	Treatment System Sanitary Wastewater Treatment System	1.21x10 ⁴ GPD	Sedimentation (Settling) Neutralization Coagulation Landfill Disinfection (Chlorine) Activated Sludge Aerobic Digestion Disinfection (Chlorine) Land Application (Leach Fields)	1-Q 1-U 2-K 2-D 5-Q 2-F 3-A 5-A 2-F 5-P
001N 001P	Seawater Reverse	1.21x10 ⁴ GPD 8.37x10 ⁵ GPD	Sedimentation (Settling) Neutralization Coagulation Landfill Disinfection (Chlorine) Activated Sludge Aerobic Digestion Disinfection (Chlorine) Land Application (Leach Fields)	1-Q 1-U 2-K 2-D 5-Q 2-F 3-A 5-A 2-F 5-P
001N 001P	Sanitary Wastewater Treatment System Sanitary Wastewater Treatment System Seawater Reverse Osmosis System	1.21x10 ⁴ GPD 8.37x10 ⁵ GPD	Sedimentation (Settling) Neutralization Coagulation Landfill Disinfection (Chlorine) Activated Sludge Aerobic Digestion Disinfection (Chlorine) Land Application (Leach Fields)	1-Q 1-U 2-K 2-D 5-Q 2-F 3-A 5-A 2-F 5-P
001N 001P	Sanitary Wastewater Treatment System Sanitary Wastewater Treatment System Seawater Reverse Osmosis System Blowdown	1.21x10 ⁴ GPD 8.37x10 ⁵ GPD	Sedimentation (Settling) Neutralization Coagulation Landfill Disinfection (Chlorine) Activated Sludge Aerobic Digestion Disinfection (Chlorine) Land Application (Leach Fields)	1-Q 1-U 2-K 2-D 5-Q 2-F 3-A 5-A 2-F 5-P
001N 001P 001Q	Sanitary Wastewater Treatment System Sanitary Wastewater Treatment System Seawater Reverse Osmosis System Blowdown Intake Structure Building Sumps	1.21x10 ⁴ GPD 8.37x10 ⁵ GPD 7.20x10 ⁴ GPD	Sedimentation (Settling) Neutralization Coagulation Landfill Disinfection (Chlorine) Activated Sludge Aerobic Digestion Disinfection (Chlorine) Land Application (Leach Fields)	1-Q 1-U 2-K 2-D 5-Q 2-F 3-A 5-A 2-F 5-P
001N 001P 001Q	Treatment System Sanitary Wastewater Treatment System Seawater Reverse Osmosis System Blowdown Intake Structure Building Sumps ¹ Flow Data is summari	1.21x10 ⁴ GPD 8.37x10 ⁵ GPD 7.20x10 ⁴ GPD 2 2 2 2 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3	Sedimentation (Settling) Neutralization Coagulation Landfill Disinfection (Chlorine) Activated Sludge Aerobic Digestion Disinfection (Chlorine) Land Application (Leach Fields)	1-Q 1-U 2-K 2-D 5-Q 2-F 3-A 5-A 2-F 5-P 5-P

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ase print or ty	pe in the unsh	aded areas	sonly	EPA I.D.	NUMBER (c C	opy from Ite AD 077966	em 1 of Form 1) Form 349 OMI App	n Approved 3 No. 2040-0086 roval expires 5-31-92
FORM 2 C NPDES	₽	A	EXISTI	NG MANI	U.S APPLICAT JFACTURIN	. ENVIRON ION FOR F G, COMME Cons	MENTAL PROTECTION AGENC' PERMIT TO DISCHARGE WASTE RCIAL, MINING AND SILVICULT olidated Permits Program	Y WATER URAL OPERATION
OUTFALLI	LOCATION					b se		
or each outfail	all, list the la B.	atitude ar LATITUD	nd longitu E	ude of its (location to th	e nearest 1 DE	5 seconds and the name of the re	ceiving water
(list)	1. DEG.	2. MIN. 🗄	3. SEC.	1. DEG.	2. MIN.	3. SEC.		ATER (name)
002	35	12	30	120	51	15	Pacific Ocean (Intake Cove)	
003	35	12	30	120	51	15	Pacific Ocean	
004	35	12	30	120	51	15	Pacific Ocean (Intake Cove)	······
005	35	12	15	120	51	15	Pacific Ocean	
006	35	12	15	120	51	0	Pacific Ocean	
007	35	12	15	120	50	45	Pacific Ocean	
FLOWS, SO	OURCES O	F POLLU	ITION, A	ND TREA	TMENT TEC	CHNOLOGI	ES	
For each outfa cooling water, a on additional st	and storm wate	escription of er runoff; (2) ary.	r: (1) All op) The aver	erations col age flow cor	ntributing waster	water to the ef h operation; a	fluent, including process wastewater, sanit nd (3) The treatment received by the waste	ary wastewater, water. Continue
. OUTFALL	2	. OPERA	TION(S)	CONTRI	BUTING FLC	W	3. TREATI	MENT
NUMBER (list)	a. OPE	RATION	(list)	b. A	VERAGE FL <i>'include units</i>	.ow'	a. DESCRIPTION	b. LIST CODES FF
002	Screen V	Vash Pun	nps	1	.76x10 ⁵ GPD)	Ocean Discharge Through Outfall	4-B
	Overboa	rd						
003	Intake Sc	reen Wa	sh	3	.19x10 ⁶ GPD		Screening	1-T
003	Intake Sc	reen Wa	sh	3	.19x10 ⁶ GPD) (Screening Ocean Discharge Through Outfall	1-T 4-B
003	Intake Sc Biolab Di	scharge	sh	3	.19x10 ⁶ GPD		Screening Ocean Discharge Through Outfall Flotation (Oil/Water Separation)	1-T 4-B
003	Intake Sc Biolab Di	scharge	sh	3	.19x10 ⁶ GPD .71x10 ⁵ GPD		Screening Ocean Discharge Through Outfall Flotation (Oil/Water Separation)	1-T 4-B 1-H 5-Q
003	Intake Sc Biolab Di	scharge	sh	3	.19x10 ⁶ GPD .71x10 ⁵ GPD		Screening Ocean Discharge Through Outfall Flotation (Oil/Water Separation) Landfill Ocean Discharge Through Outfall	1-T 4-B 1-H 5-Q 4-B
003	Intake Sc Biolab Di Industria	scharge	sh Vater	4	.19x10 ⁶ GPD .71x10 ⁵ GPD 809 GPD		Screening Ocean Discharge Through Outfall Flotation (Oil/Water Separation) andfill Ocean Discharge Through Outfall Ocean Discharge Through Outfall	1-T 4-B 1-H 5-Q 4-B 4-B
003	Intake Sc Biolab Di Industria	scharge I Storm V	sh Vater Vater	4	.19x10 ⁶ GPD 71x10 ⁵ GPD 809 GPD 1,618 GPD		Screening Dcean Discharge Through Outfall Flotation (Oil/Water Separation) andfill Dcean Discharge Through Outfall Dcean Discharge Through Outfall Dcean Discharge Through Outfall	1-T 4-B 1-H 5-Q 4-B 4-B 4-B
003 004 005 . 006 007	Intake Sc Biolab Di Industria Industria	scharge I Storm V	sh Nater Vater Vater	4	.19x10 ⁶ GPD 71x10 ⁵ GPD 809 GPD 1,618 GPD 809 GPD		Screening Dcean Discharge Through Outfall Flotation (Oil/Water Separation) andfill Dcean Discharge Through Outfall Dcean Discharge Through Outfall Dcean Discharge Through Outfall Dcean Discharge Through Outfall	1-T 4-B 1-H 5-Q 4-B 4-B 4-B 4-B
003 004 005 . 006 007	Intake Sc Biolab Di Industria Industria	scharge I Storm V	sh Vater Vater Vater	4	.19x10 ⁶ GPD .71x10 ⁵ GPD 809 GPD 1,618 GPD 809 GPD		Screening Dcean Discharge Through Outfall Flotation (Oil/Water Separation) andfill Dcean Discharge Through Outfall Dcean Discharge Through Outfall Dcean Discharge Through Outfall Dcean Discharge Through Outfall	1-T 4-B 1-H 5-Q 4-B 4-B 4-B 4-B

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ease print or t	ype in the unshade	ed areas only			D 077966	em 1 of Form 1) 3349	Form Approved OMB No. 2040-0 Approval expires	0086 s 5-31-92
2 C NPDES	<i>PEPA</i>	EXI	ISTING MAN	U.S. APPLICATIO JUFACTURING	ENVIRON ON FOR F , COMME Cons	MENTAL PROTECTION PERMIT TO DISCHARGE RCIAL, MINING AND SII olidated Permits Program	AGENCY WASTEWATER LVICULTURAL OPEI	RATION
OUTFALL	LOCATION	옷 김 왕이라.)						anta de la constru
or each out	fall, list the latit	ude and lo	ongitude of i	ts location to the	e nearest	15 seconds and the name	e of the receiving wat	er
. OUTFALL NUMBER	B. LA	TITUDE		C. LONGITUDI	E	D. RECE	IVING WATER (name	9)
(list)	1. DEG. 2. 1	MIN. 3. S	EC. 1. DEG	. 2. MIN.	3. SEC.			
008	35	12	45 12	0 51	15	Diablo Creek		
009	35	12	45 120	51	15	Diablo Creek		
010	35	12	45 120	51	15	Diablo Creek		
011	35	13	0 120	51	15	Diablo Creek		·
012	35	13	0 120	0 51	15	Diablo Creek		
013	35	13	0 120	0 51	15	Diablo Creek		
FLOWS, S	OURCES OF I	POLLUIIC	DN, AND TR	EAIMENTIEC	HNOLOG	IES		
on additional s . OUTFALL NUMBFR	heets if necessary 2. OI				N [3	. TREATMENT	
(a) A second second for Res 2 (a) Second se second second seco				AVERAGE FLU)W ¹	a DESCRIPTI	ON	
(list)			/	(include units)	DW1	a. DESCRIPTI	ON b. LIST TA	CODES FI BLE 2C-1
<u>(list)</u> 008	Industrial S	torm Wat	er	AVERAGE FLC (include units) 1,079 GPD	DW ₁	a. DESCRIPTI Discharge to Surface Wa	ON b. LIST TA ter 4-A	CODES FI BLE 2C-1
(<i>list</i>) 008	Industrial S	torm Wate		1,079 GPD		a. DESCRIPTI Discharge to Surface Wa	ON b. LIST TA ter 4-A	CODES FI
(<i>list</i>) 008 009	Industrial S	torm Wate	er er	1,079 GPD		a. DESCRIPTI Discharge to Surface Wa Discharge to Suface Water Elotation (Oil/Water Sepa	ON b.LIST TA ter 4-A er 4-A ration) 1-H	CODES FI
(<i>list</i>) 008 009	Industrial S	torm Wate	er er	1,079 GPD		a. DESCRIPTI Discharge to Surface Wa Discharge to Suface Wate Flotation (Oil/Water Sepa andfill	ON b. LIST TA ter 4-A er 4-A ration) 1-H 5-0	CODES FI
(<i>list</i>) 008 009	Industrial S Industrial S	torm Wate	er er er	1,079 GPD		a. DESCRIPTI Discharge to Surface Wa Discharge to Suface Wat Flotation (Oil/Water Sepa _andfill	ON b. LIST TA ter 4-A er 4-A ration) 1-H 5-Q	
(<i>list</i>) 008 009 010	Industrial S Industrial S Industrial S	torm Wate	er er er er	1,079 GPD 180 GPD 90 GPD		a. DESCRIPTI Discharge to Surface Wa Discharge to Suface Wat Flotation (Oil/Water Sepa Landfill Discharge to Surface Wa	ON b. LIST TA ter 4-A er 4-A ration) 1-H 5-Q ter 4-A	
008 009 010 011	Industrial S Industrial S Industrial S	torm Wate	er er er er er er	AVERAGE FLC (include units) 1,079 GPD 180 GPD 90 GPD 6,112 GPD	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	a. DESCRIPTI Discharge to Surface Wat Discharge to Suface Wat Flotation (Oil/Water Sepa Landfill Discharge to Surface Wat Discharge to Surface Wat	ON b. LIST ter TA er 4-A er 4-A ration) 1-H 5-Q ter 4-A ter 4-A	
(<i>list</i>) 008 009 010 011 011	Industrial S Industrial S Industrial S Industrial S Industrial S	torm Wate	er er er er er	AVERAGE PLC (include units) 1,079 GPD 180 GPD 90 GPD 6,112 GPD		a. DESCRIPTI Discharge to Surface Wat Discharge to Suface Wat Flotation (Oil/Water Sepa Landfill Discharge to Surface Wat Discharge to Surface Wat	ON b. LIST TA TA Ter 4-A er 4-A ration) 1-H 5-Q ter 4-A ter 4-A	
008 009 010 011 012	Industrial S Indus	torm Wate	er er er er er er	AVERAGE PLC (include units) 1,079 GPD 180 GPD 90 GPD 6,112 GPD 180 GPD		a. DESCRIPTI Discharge to Surface Wa Discharge to Suface Wat Flotation (Oil/Water Sepa Landfill Discharge to Surface Wat Discharge to Surface Wat	ON b. LIST TA TA TA ter 4-A er 4-A ration) 1-H 5-Q ter 4-A ter 4-A	
(<i>list</i>) 008 009 010 011 011 012 013	Industrial S Indus	torm Wate	er er er er er er er er er er	AVERAGE FLC (include units) 1,079 GPD 180 GPD 90 GPD 6,112 GPD 180 GPD 180 GPD 899 GPD	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	a. DESCRIPTI Discharge to Surface Wat Discharge to Suface Wat Flotation (Oil/Water Sepa Landfill Discharge to Surface Wat Discharge to Surface Wat Discharge to Surface Wat	ON b. LIST ter 4-A er 4-A ration) 1-H 5-Q ter 4-A ier 4-A	
(<i>list</i>) 008 009 010 011 011 012 013	Industrial S Indus	torm Wate	er er er er er er er er er er	AVERAGE FLC (include units) 1,079 GPD 180 GPD 90 GPD 6,112 GPD 180 GPD 180 GPD 899 GPD		a. DESCRIPTI Discharge to Surface Wat Discharge to Suface Wat Flotation (Oil/Water Sepa Landfill Discharge to Surface Wat Discharge to Surface Wat Discharge to Surface Wat	ON b. LIST ter 4-A er 4-A ration) 1-H 5-Q ter 4-A ter 4-A iter 4-A ter 4-A iter 4-A iter 4-A iter 4-A iter 4-A iter 4-A iter 4-A	

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ase print or typ	pe in the unshaded area	as only	EPA I.D. NUMB	ER (copy fro CAD 07	om Ite 7966	m 1 of Form 1) 349	Form A OMB N Approva	pproved o. 2040-008 al expires 5-	6 31-92
2 C VPDES	∲ EPA	EXISTI	APP) NG MANUFACT	U.S. ENV LICATION F URING, CO	IRON OR P MME Consi	MENTAL PROTECTION AN ERMIT TO DISCHARGE M RCIAL, MINING AND SILV Dildated Permits Program	GENCY /ASTEWA ICULTUR	TER AL OPERA	TION
<u>DUTFALL L</u>	OCATION						u i fan de la fan de		
r each outfa	all, list the latitude a	and longitu	ide of its location	n to the near	rest 1	5 seconds and the name of	the receiv	ing water	
OUTFALL	B. LATITUI	DE	C. LON	GITUDE					1. Shill
JUMBER [D. RECEIV	ING WATE	ER (name)	
(list)	1. DEG. 2. MIN.	3. SEC.	1. DEG. 2. M	IN. 3. SE	EC.				
014	35 13	0	120	50	45	Diablo Creek	i deg gener de la contra de la		
015	35 13	0	120	50	45	Diablo Creek			
016	35 12	30	120	51	15	Pacific Ocean (Intake Co			
017	35 12	30	120	51	15	Pacific Ocean (Intake Co			
018	35 12	30	120	51	15	Papific Ocean (Intake Co)ve)	·····	
010	35 12	20	120	51	10	Pacific Ocean (Mitake Ct	ove)		
					101	Pacific Ocean (Diablo Ci	ove)		
ctorial descrip or each outfal oling water, a	ntion of the nature and a l, provide a description t nd storm water runoff; (2	imount of an of: (1) All ope 2) The avera	y sources of water a erations contributing ige flow contributed	ind any collecti wastewater to by each operat	on or tr the eff tion; an	eatment measures. luent, including process wastewat d (3) The treatment received by th	er, sanîtary v 1e wastewate	vastewater, er. Continue	
additional she	eets if necessary.	전에서 집에 들었다.			1000		요즘 문화 가장		승규는 이야기요.
	· · · · · · · · · · · · · · · · · · ·	Store (NY 1997) and shapes			<u> 9</u> 202010		일 한 것이 같아?		en state fan de
OUTFALL	2. OPERA	ATION(S)	CONTRIBUTING	G FLOW		3. T	REATMEN	VT	
OUTFALL	2. OPERA a. OPERATION	ATION(S) N (list)	CONTRIBUTING	G FLOW		3. T a. DESCRIPTION		۷T b. LIST CO	DES FF
DUTFALL UMBER (list)	2. ÓPERA a. OPERATION	ATION(S) N (list)	CONTRIBUTING b. AVERAC (include	G FLOW GE FLOW ¹ 9 <i>units</i>)		3. T a. DESCRIPTION	REATMEN	NT b. LIST CO TABL	DES FF E 2C-1
OUTFALL IUMBER (list) 014	2. OPERA a. OPERATION Storm Water Run	ATION(S) N (list) noff	CONTRIBUTING b. AVERAC (include 360 G	3 FLOW 3E FLOW ¹ 9 <i>units)</i> 9 PD		3. T a. DESCRIPTION Discharge to Surface Water		NT b. LIST CO TABL 4-A	DES FF E 2C-1
OUTFALL UMBER (list) 014 015	2. OPERA a. OPERATION Storm Water Rur Industrial Storm	ATION(S) V (list) noff Water	CONTRIBUTING b. AVERAC (include 360 G	ELOW E FLOW units) PD		3. T a. DESCRIPTION Discharge to Surface Water	REATMER	NT b. LIST CO TABL 4-A 4-A	DES FF E 2C-1
OUTFALL UMBER (list) 014 015	2. ÓPERA a. OPERATION Storm Water Run Industrial Storm	ATION(S) J (list) noff Water	CONTRIBUTING b. AVERAC (include 360 G 18 G	3 FLOW 3E FLOW ¹ <i>Junits</i> PD PD		3. T a. DESCRIPTION Discharge to Surface Water		NT b. LIST CO TABL 4-A 4-A	
OUTFALL UMBER (<i>list</i>) 014 015 015	2. OPERA a. OPERATION Storm Water Rur Industrial Storm Biolab Seawater	ATION(S) V (list) Noff Water Supply	CONTRIBUTING b. AVERAC (include 360 G 18 G 18 G 2.00x10 ³	ELOW E FLOW ounits) PD PD		3. T a. DESCRIPTION Discharge to Surface Water Discharge to Surface Water	REATMEN	NT b. LIST CO TABL 4-A 4-A 4-A	DES FF E 2C-1
OUTFALL UMBER (<i>list</i>) 014 015 016	2. OPERA a. OPERATION Storm Water Rur Industrial Storm Biolab Seawater Pump Valve Drain	ATION(S) I (list) noff Water Supply n	CONTRIBUTING b. AVERAC (include 360 G 18 G 2.00x10 ⁵	3 FLOW 3E FLOW 2 units) PD 3 PD 3 GPD		3. T a. DESCRIPTION Discharge to Surface Water Discharge to Surface Water	Dutfall	NT b. LIST CO TABL 4-A 4-A 4-A	DES FF E 2C-1
015 016 017	2. OPERA a. OPERATION Storm Water Rur Industrial Storm Biolab Seawater Pump Valve Drain Seawater Revers	ATION(S) I (list) noff Water Supply n e	CONTRIBUTING b. AVERAC (include 360 G 18 G 2.00x10 ⁵	 FLOW FLOW units) PD PD GPD GPD 		3. T a. DESCRIPTION Discharge to Surface Water Discharge to Surface Water Discharge Through C	Dutfall	NT b. LIST CO TABL 4-A 4-A 4-B	DES FF E 2C-1
OUTFALL UMBER (list) 014 015 016 017	2. OPERA a. OPERATION Storm Water Rur Industrial Storm Biolab Seawater Pump Valve Drain Seawater Reverse Osmosis System	ATION(S) I (list) noff Water Supply n e	CONTRIBUTING b. AVERAC (include 360 G 18 G 2.00x10 ⁵ 4.00x10 ³	FLOW GE FLOW aunits PD GPD		3. T a. DESCRIPTION Discharge to Surface Water Discharge to Surface Water Discharge Through C Discharge Through C	Dutfall	NT b. LIST CO TABL 4-A 4-A 4-B 4-B	DES FF E 2C-1
015 016 017	2. OPERA a. OPERATION Storm Water Run Industrial Storm Biolab Seawater Pump Valve Drain Seawater Revers Osmosis System Blowdown Drain	ATION(S) I (list) noff Water Supply n e	CONTRIBUTING b. AVERAC (include 360 G 18 G 2.00x10 ³ 4.00x10 ³	 FLOW FLOW¹ units) PD FD FD GPD GPD 		3. T a. DESCRIPTION Discharge to Surface Water Discharge to Surface Water Decean Discharge Through C	Dutfall	NT b. LIST CO TABL 4-A 4-A 4-B 4-B	DES FF E 2C-1
015 016 017	2. OPERA a. OPERATION Storm Water Rur Industrial Storm Biolab Seawater Pump Valve Drain Seawater Reverse Osmosis System Blowdown Drain	ATION(S) J (list) hoff Water Supply n e	CONTRIBUTING b. AVERAC (include 360 G 18 G 2.00x10 ³ 4.00x10 ³	3 FLOW SE FLOW units) PD BPD 3 GPD		3. T a. DESCRIPTION Discharge to Surface Water Discharge to Surface Water Decean Discharge Through C	Dutfall	NT b. LIST CO TABL 4-A 4-A 4-B 4-B	
DUTFALL UMBER (list) 014 015 016 017 017	2. OPERA a. OPERATION Storm Water Rur Industrial Storm Biolab Seawater Pump Valve Drain Seawater Revers Osmosis System Blowdown Drain	ATION(S) I (list) noff Water Supply n e Water	CONTRIBUTING b. AVERAC (include 360 G 18 G 2.00x10 ⁵ 4.00x10 ⁵ 18 GF	 FLOW FLOW FLOW units) PD PD PD GPD GPD GPD D 		3. T a. DESCRIPTION Discharge to Surface Water Discharge to Surface Water Discharge to Surface Water Decean Discharge Through C Cean Discharge Through C	Dutfall	NT b. LIST CO TABL 4-A 4-A 4-B 4-B 4-B	DES FF E 2C-1
OUTFALL UMBER (list) 014 015 016 017 018	2. OPERA a. OPERATION Storm Water Rur Industrial Storm Biolab Seawater Pump Valve Drain Seawater Revers Osmosis System Blowdown Drain Industrial Storm N	ATION(S) I (list) noff Water Supply n e Water Water	CONTRIBUTING b. AVERAC (include 360 G 18 G 2.00x10 ³ 4.00x10 ³	S FLOW SE FLOW Junitsj PD SPD SPD GPD		3. T a. DESCRIPTION Discharge to Surface Water Discharge to Surface Water Discharge to Surface Water Decean Discharge Through C Decean Discharge Through C	Dutfall	NT b. LIST CO TABL 4-A 4-A 4-B 4-B 4-B	
OUTFALL UMBER (list) 014 015 015 016 017 018 019	2. OPERA a. OPERATION Storm Water Run Industrial Storm Biolab Seawater Pump Valve Drain Seawater Revers Osmosis System Blowdown Drain Industrial Storm V Storm Water Run	ATION(S) I (list) noff Water Supply n e Water Water Gff	CONTRIBUTING b. AVERAC (include 360 G 18 G 2.00x10 ⁵ 4.00x10 ³ 18 GF 18 GF	S FLOW SE FLOW Junits) PD SPD SPD GPD GPD		3. T a. DESCRIPTION Discharge to Surface Water Discharge to Surface Water Discharge to Surface Water Decean Discharge Through C Cean Discharge Through C cean Discharge Through C	REATMEN	NT b. LIST CO TABL 4-A 4-A 4-B 4-B 4-B 4-B	
OUTFALL UMBER (list) 014 015 015 016 017 018 019	2. OPERA a. OPERATION Storm Water Run Industrial Storm Biolab Seawater Pump Valve Drain Seawater Revers Osmosis System Blowdown Drain Industrial Storm V Storm Water Run	ATION(S) I (list) noff Water Supply n e Water Water off	CONTRIBUTING b. AVERAC (include 360 G 18 G 2.00x10 ³ 4.00x10 ³ 18 GF 18 GF	 FLOW FLOW Units) PD P		3. T a. DESCRIPTION Discharge to Surface Water Discharge to Surface Water Discharge to Surface Water Decean Discharge Through C Cean Discharge Through C cean Discharge Through C	REATMEN	NT b. LIST CO TABL 4-A 4-A 4-B 4-B 4-B 4-B 4-B	

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FORM 2 C NPDES	SEPA	, EX	ISTING	A MANUFA	U.S. EI PPLICATION (CTURING, (NVIRON N FOR P COMME Cons	MENTAL PROTECTION ERMIT TO DISCHARGI RCIAL, MINING AND S Didated Permits Program	I AGENCY E WASTEN ILVICULTU	VATER JRAL OPERA	TION
OUTFALL	LOCATION		Mutani a	iki du anaz		Geliksidak				ala nua lu
or each out	fall, list the lati	tude and lo	ongitude	of its loc	ation to the n	earest 1	5 seconds and the name	e of the rec	eiving water	
. OUTFALL NUMBER	. B. LA	TITUDE		. C. L	ONGITUDE				TED (name)	
(list)	1. DEG, 2.	MIN. 3. 5	SEC. 1.	DEG.	2. MIN 3	SEC	D.I.LOL		incix (name)	
020	35	12	30	120	51	15	Pacific Ocean (Intake	Cove)		HIV A COURT A DE
021	35	12	30	120	51	15	Pacific Ocean (Intake	Cove)		
022	35	12	23	120	51	15	Pacific Ocean (Intake	Cove)		
023	35	12	30	120	51	15	Pacific Ocean (Intake	Cove)		
024	35	12	15	120	50	30	Pacific Ocean			
025	35	12	15	120	50	30	Pacific Ocean			
026	35	12	30	120	51	15	Pacific Ocean (Intake	Cove)		
和限制操作		미법상 옷이		영 이제 제공성	월 12 월 12 - 1 2 - 12 - 12 - 12 - 12 - 12 - 12 - 12		Le savé di di contra di la contra	l'en en e		
⊢or each outfa cooling water, on additional s	all, provide a desci and storm water n heets if necessary	nption of: (1) unoff; (2) The	All operati average f	ons contribu low contribu	iting wastewater ited by each ope	to the efflu ration; and	ent, including process wastew (3) The treatment received by	ater, sanitary the wastewat	wastewater, er. Continue	
OUTFALL	2.0	PERATIO	N(S) CC	NTRIBU	TING FLOW	x a constant	3	TREATM	ENT	
NUMBER	a. OPER	ATION (lis	t)	b. AVE	RAGE FLOW	1	a. DESCRIPT	ION	b. LIST CC	DES FRC
020	Industrial S	Storm Wat	ter	1.46	x10 ³ GPD	(Dcean Discharge Throug	ih Outfall	4-B	<u> </u>
021	Industrial S	Storm Wat	ter	1.46	x10 ³ GPD	(Dcean Discharge Throug	h Outfall	4-B	
022	Biolab/Rev	erse		1.65x	10 ⁴ GPD		Dcean Discharge Throug	h Outfall	4-B	
	Osmosis S	upply								
	Lines Drain	1								
023	Industrial S	torm Wat	er	1	8 GPD			h Outfall		
									4-0	
024	Storm Wate	er Runoff		53	9 GPD	C	cean Discharge Throug	h Outfall	4-B	
025	Storm Wate	er Runoff		44	9 GPD	c	cean Discharge Throug	h Outfall	4-B	
026	Circulating	Water		3.00x1	10 ⁶ GPD	c	cean Discharge Throug	h Outfall	4-B	
	Pumps Bac	kflow								
ŀ							cean Discharge Throug	h Outfall	1.B	
027	Screen Was	sh		7.22x1	10 ⁶ GPD	<u> </u>	cean Discharge Through	Toutian	4-0	
027	Screen Was Collection S Overflow	sh Sump		7.22x1	I0 ⁶ GPD					
027	Screen Was Collection S Overflow	sh Sump	rized in	7.22x1	ent 1				4 -D	

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| CONTINUED FROM T      | rtorm supoff looks of spills are only of the      | CAD 077960                                                                                                      | 349<br>         |                                                                                                                 |                      | Forms by ChemSw(70 | /)864-0845;p/n11197;v5.21          | 1;11/1/98;s/nZZZYYYYXX      |
|-----------------------|---------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|-----------------|-----------------------------------------------------------------------------------------------------------------|----------------------|--------------------|------------------------------------|-----------------------------|
| C. Exception          | Storm furion, leaks, of spills, are any of the c  | iischarges described in iter                                                                                    | ms II-A of B Ir | itermittent or s                                                                                                | easonal?             | o - e - eu         |                                    | 소리는 공동이                     |
|                       |                                                   | 3 ERE(                                                                                                          |                 |                                                                                                                 |                      |                    | Frank (Britishing)<br>Shukara shak |                             |
| 1. OUTFALL            | 2. OPERATION(S)                                   |                                                                                                                 | LE MONTHS       | a FI OV                                                                                                         |                      | H TOTAL            | VOLUME                             |                             |
| MBER                  | CONTRIBUTING FLOW                                 | PER WEEK                                                                                                        | PER YEAR        | (in n                                                                                                           | ad)                  | (specify )         | with unitel                        |                             |
| (list)                | (list)                                            | (specify                                                                                                        | (specify        | 1. LONG TERM                                                                                                    | 2. MAXIMUM           | 1 LONG TERM        | 2 MAXIMUM                          | ATION                       |
|                       |                                                   | average)                                                                                                        | average)        | AVERAGE                                                                                                         | DAILY                | AVERAGE            | DAILY                              | (in days)                   |
|                       |                                                   |                                                                                                                 |                 |                                                                                                                 |                      |                    |                                    |                             |
|                       |                                                   |                                                                                                                 |                 |                                                                                                                 |                      |                    |                                    |                             |
|                       | See Attachment 1 (3 pages)                        |                                                                                                                 |                 |                                                                                                                 |                      |                    |                                    |                             |
|                       |                                                   |                                                                                                                 |                 | ]                                                                                                               |                      | ]                  |                                    |                             |
|                       |                                                   |                                                                                                                 |                 |                                                                                                                 |                      |                    |                                    |                             |
|                       |                                                   |                                                                                                                 |                 |                                                                                                                 |                      |                    |                                    |                             |
|                       |                                                   |                                                                                                                 |                 |                                                                                                                 |                      |                    |                                    |                             |
|                       |                                                   |                                                                                                                 |                 |                                                                                                                 |                      |                    |                                    |                             |
|                       |                                                   |                                                                                                                 |                 |                                                                                                                 |                      |                    |                                    |                             |
|                       |                                                   |                                                                                                                 |                 |                                                                                                                 |                      |                    |                                    |                             |
|                       |                                                   |                                                                                                                 |                 |                                                                                                                 |                      |                    |                                    |                             |
| III. PRODUC           | TION                                              | in the second | Mala aski di    | De en sur de la seconda                                                                                         | nisisisisisin the    | laun sin on han    | ulter alsonade                     | - an the test of the second |
| A. Does an e          | ffluent guideline limitation promulgated by EF    | A under Section 304 of the                                                                                      | Clean Water     | Act apply to v                                                                                                  | our facility?        | la magica de       | and we have a                      |                             |
|                       | X YES (complete Item III-B)                       |                                                                                                                 |                 |                                                                                                                 | NO (go to s          | ection IV)         | and Pathag                         |                             |
| B. Are the lim        | itations in the applicable effluent guideline ex  | pressed in terms of produc                                                                                      | ction (or other | measure of or                                                                                                   | peration)?           |                    |                                    |                             |
|                       | YES (complete Item III-C)                         |                                                                                                                 |                 | X                                                                                                               | NO (go to S          | Section IV)        |                                    |                             |
| C. If you answ        | vered "yes" to Item III-B, list the quantity whic | ch represents an actual me                                                                                      | asurement of    | your level of p                                                                                                 | roduction, ex        | pressed in ter     | ms and units                       |                             |
| used in the           | applicabel effluent guideline, and indicate th    | e affected outfalls.                                                                                            |                 |                                                                                                                 |                      |                    |                                    |                             |
| nad i klasti je je st | 1. AVE                                            | RAGE DAILY PRODUCTI                                                                                             | ON              | 에 걸려 가슴 날 날 같다.                                                                                                 |                      |                    | 2. AFFE                            | ECTED                       |
| a. QUANTITY           | b. UNITS OF                                       | C. OPERATION, PRODUCT                                                                                           | ION MATERIAL,   | ETC.                                                                                                            |                      |                    | OUTF                               | ALLS                        |
| PER DAY               | MEASURE                                           | (specify                                                                                                        | <u>)</u>        |                                                                                                                 |                      |                    | (list outfall                      | numbers                     |
|                       |                                                   |                                                                                                                 |                 |                                                                                                                 |                      |                    |                                    |                             |
|                       |                                                   |                                                                                                                 |                 |                                                                                                                 |                      |                    |                                    |                             |
|                       |                                                   |                                                                                                                 |                 |                                                                                                                 |                      |                    |                                    |                             |
|                       |                                                   |                                                                                                                 |                 |                                                                                                                 |                      |                    |                                    |                             |
|                       |                                                   |                                                                                                                 |                 |                                                                                                                 |                      |                    |                                    |                             |
|                       |                                                   |                                                                                                                 |                 |                                                                                                                 |                      |                    |                                    |                             |
|                       |                                                   |                                                                                                                 |                 |                                                                                                                 |                      |                    |                                    |                             |
|                       |                                                   |                                                                                                                 |                 |                                                                                                                 |                      |                    |                                    |                             |
| ~                     |                                                   |                                                                                                                 |                 |                                                                                                                 |                      |                    |                                    |                             |
|                       |                                                   |                                                                                                                 |                 |                                                                                                                 |                      |                    |                                    |                             |
|                       | <u></u>                                           |                                                                                                                 |                 |                                                                                                                 |                      |                    |                                    |                             |
| IV. IMPROVE           | MENTS                                             |                                                                                                                 | 1-2013-04       | n de la secta d | ng selapan pangan pa |                    |                                    | 기관에서                        |
| A. Are you no         | w required by any Federal, State or local aut     | hority to meet any impleme                                                                                      | ntation sched   | lule for the con                                                                                                | struction, upp       | grade or opera     | ation of waste                     | 9-                          |
| water treati          | nent equipment or practices or any other env      | ironmental programs which                                                                                       | n may affect t  | he discharges                                                                                                   | described in I       | this applicatio    | n? This inclu                      | des,                        |
|                       | ditions                                           | emorcement orders, emorc                                                                                        | ement compl     | iance schedule                                                                                                  | ietters, stipu       | lations, court     | orders, and g                      | grant                       |
| Ci Idan con           | YES (complete the following table)                |                                                                                                                 | 이 이 문제에서        | ाजा                                                                                                             | NO (no to t          | om IV PI           |                                    |                             |
|                       |                                                   |                                                                                                                 |                 | <u> </u>                                                                                                        |                      | етт v-b)           |                                    | COM                         |
| 1. IDENTIFIC          | ATION OF CONDITION.                               |                                                                                                                 | 3 BRIEF DE      | SCRIPTION O                                                                                                     |                      |                    |                                    |                             |
| AGRI                  | EMENT . ETC. a NO. b. SOURCE OF                   | DISCHARGE                                                                                                       |                 |                                                                                                                 | 1100201              |                    | a RF.                              |                             |
|                       |                                                   |                                                                                                                 |                 |                                                                                                                 |                      |                    | OUIRED                             | JECTED                      |
|                       |                                                   | <u></u>                                                                                                         |                 | <u></u>                                                                                                         | <u></u>              |                    |                                    |                             |
|                       |                                                   |                                                                                                                 |                 |                                                                                                                 |                      |                    |                                    |                             |
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|                       |                                                   |                                                                                                                 |                 |                                                                                                                 |                      |                    |                                    |                             |
| B. OPTIONAL           | : You may attach additional sheets describing     | g any additional water pollu                                                                                    | ition control p | rograms (or oti                                                                                                 | ner environmi        | ental projects     | which may e                        | ffect                       |
| your discharge        | es) you now have underway or which you pla        | in. Indicate whether each p                                                                                     | rogram is nov   | v underway or                                                                                                   | planned, and         | indicate your      | actual or                          |                             |
| planned sche          | lules for construction.                           | <u>ha shekar</u> a ku                                                                                           |                 |                                                                                                                 |                      |                    |                                    |                             |
| 1992                  | MARK "X" IF DESCRIPTION OF ADDIT                  | IONAL CONTROL PROG                                                                                              | RAMS IS AT      | TACHED                                                                                                          |                      |                    |                                    |                             |
| EPA Form 35           | 10-2C (Rev. 2-85)                                 | PAGE 2 OF 4                                                                                                     |                 |                                                                                                                 |                      | C                  | ONTINUE O                          | N PAGE 3                    |

### EPA I.D. NUMBER (copy from Item 1 of Form 1) CAD 077966349

# CONTINUED FROM PAGE 2

| D. Use the space below to list any o | of the pollutants listed in Table 2c-3 of the instructions, | which you know or have reason to be!     | leve is discharged or may be |
|--------------------------------------|-------------------------------------------------------------|------------------------------------------|------------------------------|
| discharged from any outfall, For eve | ery pollutant you list, briefly describe the reasons you b  | elieve it to be present and report any a | analytical data in your      |
| possession.                          |                                                             |                                          |                              |
| 1. POLLUTANT                         | 2. SOURCE                                                   | 1. POLLUTANT                             | 2. SOURCE                    |
| Strontium                            | Uranium and radioactive fission                             |                                          |                              |
|                                      | products of uranium including                               |                                          |                              |
| Jranium                              | isotopes of strontium and                                   |                                          |                              |
|                                      | zirconium may be released in                                |                                          |                              |
| Zirconium                            | minute amounts in Discharge                                 |                                          |                              |
|                                      | 001. Analytical data from                                   |                                          |                              |
|                                      | Discharge 001D are provided in                              |                                          |                              |
|                                      | Attachment 2.                                               |                                          |                              |
| Ethylene diamine                     | Used in Secondary Chemistry                                 |                                          |                              |
|                                      | Laboratory. Complete List of                                |                                          |                              |
|                                      | Chemicals used in Primary                                   | 1                                        |                              |
|                                      | and Secondary Laboratories is                               |                                          |                              |
|                                      | provided in Attachment 3.                                   |                                          |                              |
|                                      |                                                             |                                          |                              |
|                                      |                                                             |                                          |                              |
| /I. POTENTIAL DISCHARG               | ES NOT COVERED BY ANALYSIS                                  |                                          |                              |
| s any pollutant listed in Item V-C a | substance or a component of a substance which you c         | urrently use or manufacture as an inter  | mediate or final product or  |
| y product?                           |                                                             |                                          |                              |
|                                      | VFS (list all such pollutants below)                        | T                                        | NO (go to $ltem V/I R$ )     |

Forms by ChemSW(707)864-0845;p/n11197;v5.21;11/1/98

| WIL: BIOLOGICAL TOXICITY TESTING DATA.       Image: Construction of the construction o                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | WIL-BIOLOGICAL TOXICITY TESTING DATA.       Models of the set of spager         Providing and provide to reade biller biller in strage storage data bill distribution to be an any physic discharge or any p          | CONTINUED FROM THE                                                                                                                                  | FRONT                                                                                                                                                                                                           | CAD 077966349                                                                                                                                                                  | Forms by ChemSW(707)884-0845;p/n11197;v5.21:11/1/98;s/nZZZYYYXX                                                                                                 |
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                                                       | VII. BIOLOGICAL TOXIC                                                                                                                               | ITY TESTING DATA                                                                                                                                                                                                |                                                                                                                                                                                |                                                                                                                                                                 |
| The current DCPP NPDES Permit requires that quarterly acute and chronic toxicity bloassays be performed on Discharge 001.         The static acute toxicity bloassay is a 96-hour TLM performed in a grab sample from the specified discharge point. Juvenile red abalone (Haliotis rufescens) are used as the test species.         The chronic toxicity bloassay is 48-hour test also performed in a grab sample from the specified discharge point. Larval red abalone (Haliotis rufescens) are used as the test species.         VIII. CONTRACT ANALYSIS INFORMATION         Where any of the analyses reported in item? V performed by a contract laboratory or consulting firm?         IX       YES (list the nime, address, and telephone number of, and polutants on analyzed by, each such laboratory or firm below)         A NAME       B. ADDRESS         Columbia Analytical Services, Inc.       1317 South 13th Avenue Pol. Box X19         K. CERTIFICATION       Part V-A, except for retemperation of part V-B, except for radioactir and pH         There and y flaw the teleformed and all attentments were properted under my director or supervision in associated with a system or noise grant properties in the information admitted files of my using a present or meters meters and complex. The system or noise and complex. Text counts and complex. Text may a file present or presents with insight or participation of the information admitted files of the mapped by dista and complex. Text may a files present or presents with mapped by dista and congrants. Text mapped by dista director printip David Ho                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | The current DCPP NPDES Permit requires that quarterly acute and chronic toxicity bioassays be performed on Discharge 001.         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Larval red abalone (Haliotis rufescens) are used abalone (Haliotis ruf | Do you have any knowledge or<br>reiving water in relation to you                                                                                    | reason to believe that any biological test for act<br>ir discharge within the last 3 years?<br><b>S</b> (identify the test(s) and describe thei                                                                 | ite or chronic toxicity has been made o<br>ir puropse below)                                                                                                                   | n any of your discharge or on a NO (go to Section VIII)                                                                                                         |
| The static acute toxicity bioassay is a 96-hour TLM performed in a grab sample from the specified discharge point. Juvenile red abalone (Haliotis rufescens) are used as the test species.         The chronic toxicity bioassay is 48-hour test also performed in a grab sample from the specified discharge point. Larval red abalone (Haliotis rufescens) are used as the test species.         VIIL CONTRACT ANALYSIS INFORMATION         Where any of the analyses reported in item V performed by a contract laboratory or consulting firm?         Image: State in the set of the analyses reported in item V performed by a contract laboratory or consulting firm?         Image: State in the set of the analyses reported in item V performed by a contract laboratory or consulting firm?         Image: State in the set of the analyses reported in item V performed by a contract laboratory or consulting firm?         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Larval red abaione                                                                                                                                                                                                                 | The current<br>performed c                                                                                                                          | DCPP NPDES Permit requires that q<br>n Discharge 001.                                                                                                                                                           | uarterly acute and chronic to                                                                                                                                                  | xicity bioassays be                                                                                                                                             |
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OURTIFICATION       7 <t< td=""><td>The chronic toxicity bloassay is 48-hour test also performed in a grab sample from the specified discharge point. Larval red abalone (Haliotis rufescens) are used as the test species.         VIIL CONTRACT ANALYSIS INFORMATION         Where any of the analyses reported in Item V performed by a contract laboratory or consulting firm?         X       YES (list the name, address, and/lefephone number of, and pollutants in NO (go to Section IX) analyzed by, each such laboratory or firm below)         A: NAME       B: ADDRESS         Columbia Analytical Services, Inc.       1317 South 13th Avenue P.O. Box 479 Kelso, WA 98626         Viscources, Inc.       1317 South 13th Avenue P.O. Box 479 Kelso, WA 98626         Viscources, Inc.       1317 South 13th Avenue P.O. Box 479 Kelso, WA 98626         Viscources, Inc.       1317 South 13th Avenue P.O. Box 479 Kelso, WA 98626         Viscources, Inc.       1317 South 13th Avenue P.O. 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Box 479 Kelso, WA 98626         Viscources, Inc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | The static as specified dis species.                                                                                                                | cute toxicity bioassay is a 96-hour Ti<br>scharge point. Juvenile red abalone                                                                                                                                   | LM performed in a grab samp<br>(Haliotis rufescens) are used                                                                                                                   | le from the<br>as the test                                                                                                                                      |
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PHONE NO. (area code & no.) (805) 545-4350         A. NAME AND OFFICIAL TITLE (type or print)       B. PHONE NO. (area code & no.) (805) 545-4350       B. PLORESCON (805) 545-4350                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | VIII. 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Box 479 Kelso, WA 98626       (360) 577-7222       Part V-A, except for temperatur and pH         Part V-B, except for radioactivit and suffactants       Part V-B, except for radioactivit and suffactants       Part C         Identify under penalty of law that this document and all attachments were prepared under my inquiry of the person or parsons who manage the system or those persons directly responsible for gathering the information submitted. Is to the best of my knowledge and belief, thus, accurate, and complete. Iam aware that there are significant penaltes for submitting false information, including the possibility of fine and imprisonment for knowing violations.       B. PHONE NO. (area code & no.) (805) 545-4350         2. SIGNATURE       D. DATE SIGNED       D. DATE SIGNED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                     |                                                                                                                                                                                                                 |                                                                                                                                                                                |                                                                                                                                                                 |
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Part V-B, except for radioacti and surfactants         Velocity under penalty of the this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that quelified personnel property 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, including the possibility of fine and belief, the, 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.         A. NAME AND OFFICIAL TITLE (type or print)       B. PHONE NO. (area code & no.) (805) 545-4350         David H. Oatley       C. SIGMATTIPE       D. DATE counterpendentenamentenenenergy of the and imprisonment for knowing v                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Where any of the analyses reported in Item V performed by a contract laboratory or consulting firm?       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CONTRACT ANALYS                                                                                                                               | SIS INFORMATION                                                                                                                                                                                                 |                                                                                                                                                                                |                                                                                                                                                                 |
| Columbia Analytical<br>Services, Inc.       1317 South 13th Avenue<br>P.O. Box 479<br>Kelso, WA 98626       (360) 577-7222       Part V-A, except for temperat<br>and pH         Part V-B, except for radioacti<br>and surfactants       Part V-B, except for radioacti<br>and surfactants         IX. CERTIFICATION       Itertfy under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to<br>assure that qualified personnel property gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or<br>those persons directly responsible for gathering the information, submitted is, to the best of my knowledge and belief, true, accurate, and complete.<br>I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.         A. NAME AND OFFICIAL TITLE (type or print)<br>David H. Oatley<br>Vice President Diablo Canyon Operations       B. PHONE NO. (area code & no.)<br>(805) 545-4350                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Columbia Analytical<br>Services, Inc.       1317 South 13th Avenue<br>P.O. Box 479<br>Kelso, WA 98626       (360) 577-7222       Part V-A, except for temperatur<br>and pH         Part V-B, except for radioactivit<br>and surfactants       Part V-B, except for radioactivit<br>and surfactants         IX. CERTIFICATION       IX. CERTIFICATION         Icertify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to<br>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<br>those persons directly responsible for gathering the information, the information submitted. Based on my inquiry of the person or persons who manage the system or<br>those persons directly responsible for gathering the information, including the possibility of fine and imprisonment for knowing violations.         A. NAME AND OFFICIAL TITLE (type or print)<br>David H. Oatley<br>Vice President Diablo Canyon Operations       B. PHONE NO. (area code & no.)<br>(805) 545-4350         D. DATE SIGNED       D. DATE SIGNED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | A. NAME                                                                                                                                             | S (list the name, address, and telephon<br>analyzed by, each such laboratory o<br>B. ADDRESS                                                                                                                    | e number of, and pollutants<br>r firm below)<br>C. TELEPHONE<br>(area code & no.)                                                                                              | D. POLLUTANTS ANALYZED<br>(list)                                                                                                                                |
| IX. CERTIFICATION       Part C         IX. CERTIFICATION       IX. CERTIFICATION         Iccertify 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.         A. NAME AND OFFICIAL TITLE (type or print)       B. PHONE NO. (area code & no.) (805) 545-4350         David H. Oatley       D. DATE COMPT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | IX. 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DATE SIGNED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Columbia Analytical<br>Services, Inc.                                                                                                               | 1317 South 13th Avenue<br>P.O. Box 479<br>Kelso, WA 98626                                                                                                                                                       | (360) 577-7222                                                                                                                                                                 | Part V-A, except for temperature<br>and pH<br>Part V-B, except for radioactivity                                                                                |
| IX. 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.         A. NAME AND OFFICIAL TITLE (type or print)       B. PHONE NO. (area code & no.) (805) 545-4350         David H. 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DATE SIGNED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                     |                                                                                                                                                                                                                 |                                                                                                                                                                                | and surfactants<br>Part C                                                                                                                                       |
| 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.     A. NAME AND OFFICIAL TITLE (type or print)     David H. Oatley     Vice President Diablo Canyon Operations     D SIGNATURE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 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. 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DATE SIGNED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | IX. CERTIFICATION                                                                                                                                   |                                                                                                                                                                                                                 |                                                                                                                                                                                |                                                                                                                                                                 |
| A. NAME AND OFFICIAL TITLE (type or print)  David H. Oatley Vice President Diablo Canyon Operations  C. SIGNATURE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | A. NAME AND OFFICIAL TITLE (type or print) David H. Oatley Vice President Diablo Canyon Operations C. SIGNATURE D. DATE SIGNED D. DATE SIGNED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | I certify under penalty of law that<br>assure that qualified personnel p<br>those persons directly responsibl<br>I am aware that there are signific | this document and all attachments were prepare<br>roperly gather and evaluate the information subn<br>e for gathering the information, the information s<br>ant penalties for submitting false information, inc | ed under my direction or supervision in a<br>nitted. Based on my inquiry of the perso<br>ubmitted is, to the best of my knowledg<br>luding the possibility of fine and impriso | accordance with a system designed to<br>on or persons who manage the system or<br>e and belief, true, accurate, and complete,<br>onment for knowing violations. |
| David H. Oatley (805) 545-4350<br>Vice President Diablo Canyon Operations                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | David H. Oatley     (805) 545-4350       Vice President Diablo Canyon Operations     D. DATE SIGNED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | A. NAME AND OFFICIAL                                                                                                                                | ΓITLE (type or print)                                                                                                                                                                                           | B. PHONE NO. (area                                                                                                                                                             | code & no.)                                                                                                                                                     |
| VICE President Diablo Canyon Operations                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | C. SIGNATURE D. DATE SIGNED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | David H. Oatley                                                                                                                                     | • "                                                                                                                                                                                                             | (805) 545                                                                                                                                                                      | -4350                                                                                                                                                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | D. DATE SIGNED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Vice President Diablo Ca                                                                                                                            | nyon Operations                                                                                                                                                                                                 |                                                                                                                                                                                |                                                                                                                                                                 |
| U. DATE SIGNED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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                                                  | J. SIGNATURE                                                                                                                                        |                                                                                                                                                                                                                 | D. DATE SIGNED                                                                                                                                                                 |                                                                                                                                                                 |

-----



|          |          |     | (Intermittent)                                        |               |
|----------|----------|-----|-------------------------------------------------------|---------------|
|          | 180      | 021 | Industrial Storm Water<br>(Intermittent)              | I.46E+03      |
|          | 899      | 022 | Biolab/Reverse Osmosis<br>Supply Lipes Drain          | 1.65E+04      |
|          | 360      |     | (Intermittent)                                        |               |
|          | 18       | 023 | Industrial Storm Water<br>(Seasonal)                  | 18            |
|          | 2.00E+03 | 024 | Storm Water Runoff<br>(Seasonal)                      | 539           |
| n)<br>is | 4.00E+03 | 025 | Storm Water Runoff<br>(Seasonal)                      | 449           |
|          |          | 026 | Circulating Water<br>Pumps Backflow                   | 3.00E+06      |
|          | 18       | 027 | Screen Wash Collection<br>Sump Overflow (Intermittent | 7.22E+06<br>) |
|          |          |     |                                                       |               |

### Diablo Canyon Power Plant Flow Rates and Volumes Continuous Waste Streams

Attachment 1 Page 1 of 3

| Outfall | Waste<br>Stream<br>No. | Description                                         | Nominal Flow<br>Rate (gpm) | Maximum Flow<br>Rate (gpm) | Annual Total<br>Volume<br>(gal) | Maximum Daily<br>Volume (gal) | Long Term<br>Average Flow<br>Rate<br>(gpd) |
|---------|------------------------|-----------------------------------------------------|----------------------------|----------------------------|---------------------------------|-------------------------------|--------------------------------------------|
| 001     |                        | Once-Through Cooling Water                          | 1,759,235                  | 1,783,913                  | 9.25E+11                        | 2.65E+09                      | 2.50E+09                                   |
|         | 001                    | Once-Through Cooling Water (circulating pumps only) | 1,734,000                  | 1,734,000                  | 9.11E+11                        | 2.50E+09                      | 2.50E+09                                   |
|         | 001 B                  | Auxiliary Salt Water Cooling System <sup>1</sup>    | 23,000                     | 46,000                     | 1.27E+10                        | 6.62E+07                      | 3.48E+07                                   |
|         | 001 E                  | Service Cooling Water System <sup>1</sup>           | 8,600                      | 17,200                     | 4.52E+09                        | 2.48E+07                      | 1.24E+07                                   |
|         | 001 G                  | Make-up Water System Effluent (Brine)               | 50                         | 200                        | 3.52E+07                        | 2.88E+05                      | 9.65E+04                                   |
|         | 001 L                  | Steam Generator Blowdown                            | 120                        | 533                        | 5.36E+07                        | 7.68E+05                      | 1.47E+05                                   |
|         | 001 P                  | Seawater Reverse Osmosis System Blowdown            | 550                        | 800                        | 3.06E+08                        | 9.05E+05                      | 8.37E+05                                   |
| 004     |                        | Biolab Discharge <sup>2</sup>                       | 100                        | 1,500                      | 1.72E+08                        | 2.89E+06                      | 4.71E+05                                   |
|         | 004 A                  | Biolab Discharge <sup>2</sup>                       | 100                        | 1,500                      | 1.72E+08                        | 1.58E+06                      | 4.70E+05                                   |
|         | 004 B                  | Industrial Storm Water <sup>3</sup>                 |                            |                            | 2.16E+04                        | 1.30E+06                      | 3.60E+02                                   |

Footnotes:

<sup>1</sup> Cooling water for closed-loop system is taken from and discharged back into the once-through cooling water 001.

<sup>2</sup> Discharges include Firewater System Maintenance and Testing.

<sup>3</sup> See Seasonal Data Sheet for calculations of storm water flow.

### Diablo Canyon Power Plant Flow Rates and Volumes Intermittent Waste Streams

Attachment 1 Page 2 of 3

| Outfall | Waste<br>Stream<br>No. | Description                                          | Narrative    | Nominal Flow<br>Rate (gpm) | Maximum Flow<br>Rate (gpm) | Annual Total<br>Volume<br>(gal) | Maximum Daily<br>Volume (gal) | Long Term<br>Average Flow<br>Rate<br>(gpd) |
|---------|------------------------|------------------------------------------------------|--------------|----------------------------|----------------------------|---------------------------------|-------------------------------|--------------------------------------------|
|         | 001 D                  | Linuid Dedicentius Meste Trantos et Contos           | Batch 3-12   | 0.5                        |                            |                                 |                               | 0.005.00                                   |
|         | 0010                   |                                                      | times/week   | 35                         | 50                         | 1.60E+06                        | 5.00E+04                      | 8.00E+03                                   |
|         | 001 F                  |                                                      | Intermittent | 100                        | 100                        | 1.83E+07                        | 1.44E+05                      | 5.00E+04                                   |
|         | 001 H                  | Condensate Demineralizer Regenerant                  | Intermittent | 160                        | 320                        | 1.22E+07                        | 5.00E+04                      | 3.33E+04                                   |
|         | 001 I                  | Seawater Evaporator Blowdown <sup>2</sup>            |              | 0                          | 0                          | 0                               | 0                             | 0                                          |
|         | 001 J                  | Condensate Pumps Discharge Header Overboard          | Intermittent | 1,000                      | 1,000                      | 6.90E+05                        | 1.00E+05                      | 1.89E+03                                   |
|         | 001 K                  | Condensate Dump Tank                                 | Batch        | 50                         | 100                        | 7.20E+05                        | 1.44E+05                      | 1.44E+05                                   |
|         | 001 M                  | Wastewater Holding and Treatment System <sup>1</sup> | Intermittent | 100                        | 500                        | 1.25E+06                        | 2.50E+05                      | 1.25E+05                                   |
|         | 001 N                  | Sanitary Waste Water Treatment System                | Intermittent | 20                         | 110                        | 4.43E+06                        | 6.00E+04                      | 1.21E+04                                   |
|         | 001 Q                  | Intake Structure Building Sumps                      | Intermittent | 50                         | 200                        | 2.63E+07                        | 2.88E+05                      | 7.20E+04                                   |
| 002     |                        | Screen Wash Pumps Overboard <sup>1</sup>             | Intermittent | 50                         | 7,800                      | 6.44E+07                        | 2.88E+06                      | 1.76E+05                                   |
| 003     |                        | Intake Screen Wash                                   | Intermittent | 3,900                      | 7,800                      | 1.17E+09                        | 1.17E+07                      | 3.19E+06                                   |
|         | 003 A                  | Intake Screen Wash                                   | Intermittent | 3,900                      | 7,800                      | 1.17E+09                        | 1.12E+07                      | 3.19E+06                                   |
|         | 003 B                  | Industrial Storm Water <sup>3</sup>                  | Seasonal     |                            |                            | 5.39E+03                        | 4.56E+05                      | 8.99E+01                                   |
| 016     |                        | Biolab Seawater Supply Pump Valve Drain              | Batch        | 50                         | 50                         | 4.00E+04                        | 4.00E+03                      | 2.00E+03                                   |
| 017     |                        | Seawater Reverse Osmosis System Blowdown Drain       | Batch        | 50                         | 100                        | 4.00E+03                        | 4.00E+03                      | 4.00E+03                                   |
| 020     |                        | Industrial Storm Water                               | Intermittent | 1                          | 10                         | 5.27E+05                        | 1.06E+05                      | 1.46E+03                                   |
|         | 020 A                  | Industrial Storm Water <sup>3</sup>                  | Seasonal     |                            |                            | 1.08E+03                        | 9.12E+04                      | 1.80E+01                                   |
|         | 020 B                  | Screen Wash Overspray                                | Intermittent | 1                          | 10                         | 5.26E+05                        | 1.44E+04                      | 1.44E+03                                   |
| 021     |                        | Industrial Storm Water                               | Intermittent | 1                          | 10                         | 5.27E+05                        | 1.06E+05                      | 1.46E+03                                   |
|         | 021 A                  | Industrial Storm Water <sup>3</sup>                  | Seasonal     |                            |                            | 1 08E+03                        | 9 12E+04                      | 1 80E+01                                   |
|         | 021 B                  | Screen Wash Overspray                                | Intermittent | 1                          | 10                         | 5.26E+05                        | 1.44E+04                      | 1.44E+03                                   |
| 022     |                        | Biolab/Reverse Osmosis Supply Lines Drain            | Intermittent | -                          | 1,100                      | 1.98E+05                        | 2.20E+04                      | 1.65E+04                                   |
| 026     |                        | Circulating Water Pumps Backflow                     | Intermittent | 100,000                    | 2,240,000                  | 1.20E+07                        | 6.00E+06                      | 3.00E+06                                   |
| 027     |                        | Screen Wash Collection Sump Overflow                 | Intermittent | -                          | 7,800                      | 5.05E+07                        | 1.12E+07                      | 7.22E+06                                   |

Footnotes:

<sup>1</sup> Discharges include Firewater System Maintenance and Testing.

<sup>2</sup> Equipment is not operational.

<sup>3</sup> See Seasonal Data Sheet for calculations of storm water flow.

**Diablo Canyon Power Plant** Flow Rates and Volumes Seasonal Waste Streams

Attachment 1 Page 3 of 3

| Outfall | Waste<br>Stream<br>No. | Description                         | Frequency    | Area <sup>1</sup><br>(Acres) | Rainfall<br>Intensity <sup>2</sup><br>(in/hour) | Coefficient | Maximum<br>Flow Rate <sup>3</sup><br>(gpd) | Average<br>Annual<br>Precipitation <sup>4</sup><br>(in) | Annual Total<br>Volume⁴<br>(gal) | Long-Term<br>Average Flow <sup>4</sup><br>(gpd) |
|---------|------------------------|-------------------------------------|--------------|------------------------------|-------------------------------------------------|-------------|--------------------------------------------|---------------------------------------------------------|----------------------------------|-------------------------------------------------|
|         | 003 B                  | Industrial Storm Water              | Seasonal     | . 5                          | 0.2                                             | 0.7         | 4.56E+05                                   | 14.5                                                    | 5,393                            | 90                                              |
|         | 004 B                  | Industrial Storm Water <sup>5</sup> | Seasonal     | 20                           | 0.2                                             | 0.5         | 1.30E+06                                   | 14.5                                                    | 21,573                           | 360                                             |
| 005     |                        | Industrial Storm Water <sup>5</sup> | Seasonal     | 45                           | 0.2                                             | 0.7         | 4.11E+06                                   | 14.5                                                    | 48,540                           | 809                                             |
| 006     |                        | Industrial Storm Water <sup>5</sup> | Seasonal     | 90                           | 0.2                                             | 0.5         | 5.86E+06                                   | 14.5                                                    | 97.079                           | 1.618                                           |
| 007     |                        | Industrial Storm Water              | Seasonal     | 45                           | 0.2                                             | 0.3         | 1.76E+06                                   | 14.5                                                    | 48.540                           | 809                                             |
| 008     |                        | Industrial Storm Water <sup>5</sup> | Seasonal     | 60                           | 0.2                                             | 0.3         | 2.35E+06                                   | 14.5                                                    | 64.719                           | 1.079                                           |
| 009     |                        | Industrial Storm Water <sup>5</sup> | Seasonal     | 10                           | 0.2                                             | 0.6         | 7.82E+05                                   | 14.5                                                    | 10.787                           | 180                                             |
| 010     |                        | Industrial Storm Water <sup>5</sup> | Seasonal     | 5                            | 0.2                                             | 0.3         | 1.95E+05                                   | 14.5                                                    | 5.393                            | 90                                              |
| 011     |                        | Industrial Storm Water              | Seasonal     | 340                          | 0.2                                             | 0.4         | 1.77E+07                                   | 14.5                                                    | 366.743                          | 6.112                                           |
| 012     |                        | Industrial Storm Water              | Seasonal     | 10                           | 0.2                                             | 0.5         | 6.52E+05                                   | 14.5                                                    | 10.787                           | 180                                             |
| 013     |                        | Industrial Storm Water <sup>5</sup> | Seasonal     | 50                           | 0.2                                             | 0.5         | 3.26E+06                                   | 14.5                                                    | 53.933                           | 899                                             |
| 014     |                        | Storm Water Runoff                  | Seasonal     | 20                           | 0.2                                             | 0.3         | 7.82E+05                                   | 14.5                                                    | 21.573                           | 360                                             |
| 015     |                        | Industrial Storm Water <sup>5</sup> | Seasonal     | 1                            | 0.2                                             | 0.5         | 6.52E+04                                   | 14.5                                                    | 1.079                            | 18                                              |
| 018     |                        | Industrial Storm Water              | Seasonal     | 1                            | 0.2                                             | 0.3         | 3.91E+04                                   | 14.5                                                    | 1.079                            | 18                                              |
| 019     |                        | Storm Water Runoff                  | Seasonal     | 1                            | 0.2                                             | 0.7         | 9.12E+04                                   | 14.5                                                    | 1.079                            | 18                                              |
| 020     | 020 A                  | Industrial Storm Water              | Intermittent | 1                            | 0.2                                             | 0.7         | 9.12E+04                                   | 14.5                                                    | 1.079                            | 18                                              |
| 021     | 021 A                  | Industrial Storm Water              | Intermittent | 1                            | 0.2                                             | 0.7         | 9.12E+04                                   | 14.5                                                    | 1.079                            | 18                                              |
| 023     |                        | Industrial Storm Water              | Seasonal     | 1                            | 0.2                                             | 0.7         | 9.12E+04                                   | 14.5                                                    | 1.079                            | 18                                              |
| 024     |                        | Storm Water Runoff                  | Seasonal     | 30                           | 0.2                                             | 0.3         | 1.17E+06                                   | 14.5                                                    | 32,360                           | 539                                             |
| 025     |                        | Storm Water Runoff                  | Seasonal     | 25                           | 0.2                                             | 0.3         | 9.77E+05                                   | 14.5                                                    | 26,966                           | 449                                             |
| 025     | 025A                   | Storm Water Runoff                  | Seasonal     | 20                           | 0.2                                             | 0.3         | 7.82E+05                                   | 14.5                                                    | 21,573                           | 360                                             |
|         | 025B                   | Storm Water Runoff                  | Seasonal     | 5                            | 0.2                                             | 0.3         | 1.95E+05                                   | 14.5                                                    | 5,393                            | 90                                              |

Footnotes:

Areas are rounded.

<sup>2</sup> Source of rainfall intensity is from PG&E Drawing No. 105469.

<sup>3</sup> Rainfall calculations were based on the Rational Formula (Q = C I A); where Q = Discharge Flow, C is a runoff coefficient, I is the rainfall intensity of .2 in/hr which is the 10-year, 24-hr Storm Event, and A is the Area. The values used for C were .7 for roofs, asphalt and concrete; soil (medium permeability and flat grade of 2%) .2; and soil (medium permeability and steep grade of 7%) .3. Source: Hydrology and Sedimentology of Surface Mined Lands, C.T. Haan and B.J. Barfield, 1978.

<sup>4</sup> Source of Average Annual Precipitation of 14.5 inches/year is "Analysis of the Continued Use of Diablo Creek Water as a Component of the DCPP Makeup Water System", PG&E's TES Department, June 1993. The Annual Total Volume assumes there are no losses due to soil permeability. The Long-Term Average Flow assumes there are 60 measurable rain events per year at an average rainfall of 14.5" per year.

<sup>5</sup> Discharges include Firewater System Maintenance and Testing.

# **Diablo Canyon Power Plant**

### Strontium and Zirconium Discharged Tabulated by Calendary Quarter from Discharge 001D

### First Quarter 1999

Second Quarter 1999

| <u>Nuclide</u>            | <u>Batch Mode (Ci)</u> | <u>Grams<sup>2</sup></u> | Batch Mode (C)   | <u>Grams<sup>2</sup></u> |
|---------------------------|------------------------|--------------------------|------------------|--------------------------|
| strontium-89              | MDA <sup>3</sup>       | _                        | MDA <sup>3</sup> | -                        |
| strontium-90 <sup>1</sup> | MDA <sup>3</sup>       | -                        | MDA <sup>3</sup> | -                        |
| strontium-91              | 3.11 E-6               | 8.74 E-13                | MDA <sup>3</sup> | -                        |
| strontium-92              | MDA <sup>3</sup>       | -                        | 7.71 E-6         | 6.12 E-13                |
| zirconium-95 <sup>1</sup> | MDA <sup>3</sup>       | -                        | 8.56 E-6         | 4.08 E-10                |

### Third Quarter 1999

### Fourth Quarter 1999

| <u>Nuclide</u>            | <u>Batch Mode (Ci)</u> | <u>Grams<sup>2</sup></u> | Batch Mode (C)   | <u>Grams<sup>2</sup></u> |
|---------------------------|------------------------|--------------------------|------------------|--------------------------|
| strontium-89              | MDA <sup>3</sup>       | -                        | MDA <sup>3</sup> | -                        |
| strontium-90 <sup>1</sup> | MDA <sup>3</sup>       | -                        | MDA <sup>3</sup> | -                        |
| strontium-91              | MDA <sup>3</sup>       | -                        | MDA <sup>3</sup> | -                        |
| strontium-92              | MDA <sup>3</sup>       | -                        | MDA <sup>3</sup> | -                        |
| zirconium-95 <sup>1</sup> | MDA <sup>3</sup>       | -                        | 4.79 E-5         | 2.28 E-9                 |

#### <u>Note</u>

<sup>1</sup> Includes daughters

<sup>2</sup> Derivation of Dass Discharged:

| Nuclide      | Half-life  | Specific Activity Ci/g) | 1/Specific Activiy (g/Ci) |
|--------------|------------|-------------------------|---------------------------|
| strontium-91 | 9.67 hours | 3.56 E+6                | 2.81 E-7                  |
| strontium-92 | 2.71 hours | 1.26 E+7                | 7.94 E-8                  |
| zirconium-95 | 65.5 days  | 2.10 E+4                | 4.76 E-5                  |

<sup>3</sup> MDA (minimum detectable activity; entry indicates no activity detected)

### Diablo Canyon Power Plant Primary and Secondary Chemistry Laboratory Inventory Primary Laboratory

| 1-Amino 2-Naphthol 4- Sulfonic      | Boric Acid                                                                       |
|-------------------------------------|----------------------------------------------------------------------------------|
| 5-Methyl-1h-Benzotriazole           | Buffer                                                                           |
| Acetic Acid                         | Buffer, Ph-10                                                                    |
| Acetone                             | Buffer, Ph-4                                                                     |
| Acetylene                           | Buffer, Ph-7                                                                     |
| Acid, Acetic                        | Calcium Chloride                                                                 |
| Acid, Ascorbic                      | Carbon, Activated                                                                |
| Acid, Boric, Granular – Std         | Chemet Kit, 0-1 Ppm, 25% Diethylene Glycol                                       |
| Acid, Carminic                      | Cobalt Chloride                                                                  |
| Acid, Fuming Nitric 90%             | Copper Sulfate                                                                   |
| Acid, Hydrochloric                  | Cupric Chloride                                                                  |
| Acid, Nitric                        | Cupric Sulfate                                                                   |
| Acid, Octanesulfonic                | Diphenyl-Carbazone                                                               |
| Acid, Oxalic                        | Dithizone Crystals                                                               |
| Acid, Phosphoric                    | Edta                                                                             |
| Acid, Sulfuric                      | EDTA Standard                                                                    |
| Alcohol Ethyl 200 Proof Puncticious | Electrode Fill, Orion, Potassium Hydroxide                                       |
| Alcohol, Anhydrous                  | Electrode Storage Solution, 11% KCl / 1% KH <sub>2</sub>                         |
| Alcohol, Isopropyl 2-Propanol       | Electrode, Fill Solution, Ross Probe, 22% KCl                                    |
| Ammonia Electrode Fill Solution     | Eriochrome Cyanine R                                                             |
| Ammonia                             | Ethyl Alcohol                                                                    |
| Ammonium Acetate                    | Ethyl Propionate                                                                 |
| Ammonium Carbonate                  | Ferric Chloride                                                                  |
| Ammonium Chloride                   | Ferrous Ammonium Sulfate                                                         |
| Ammonium Hydroxide, 30%             | Freon, 1,1,2 Trichlorotriflouroethane                                            |
| Ammonium Molybdate                  | Gas, Acetylene, Aa403/Aa5000                                                     |
| Ammonium Phospate Monobasic         | Gas, Argon, Ultra Pure (Aa5000)                                                  |
| Ammonium Sulfate                    | Gas, Nitrogen, Ultra Pure                                                        |
| Amonium Oxalate                     | Glutaraldehyde, 25%                                                              |
| Anhydrous Magnesium Perchlorate     | Glycerol, Anhydrous                                                              |
| Argon                               | $H_20_2$ Kit – 5% Glacial Acetic Acid 3% $NH_3$                                  |
| Ascorbic Acid                       | H <sub>2</sub> 0 <sub>2</sub> Refill - 5% Glacial Acetic Acid 3% NH <sub>3</sub> |
| Barium Chloride                     | Hydrazine Dihydrochloride                                                        |
| Barium Nitrate                      | Hydrochloric Acid                                                                |
| Benzaldehyde                        | Hydrofluoric Acid                                                                |

## Diablo Canyon Power Plant Primary and Secondary Chemistry Laboratory Inventory Primary Laboratory

| Hydrogen Peroxide            | Potassium Nitrite                      |
|------------------------------|----------------------------------------|
| Hydroxylamine Hydrochloride  | Potassium Permanganate                 |
| Ketone                       | Potassium Persulfate                   |
| Lithium Hydroxide            | Reagent Pack A – Ferric Chloride       |
| Lithium Standard             | Reagent Pack B1 - Sulfamic Acid        |
| Magnesium Nitrate            | Reagent Pack B2 – Mbth & Inert Diluent |
| Magnesium Standard           | Reference Electrolyte, 22% KCl         |
| Manganous Sulfate            | Silver Nitrate                         |
| Mannatol Powder              | Sodium Acetate Trihydrate              |
| Mercuric Iodide              | Sodium Bicarbonate                     |
| Mercuric Nitrate             | Sodium Borate                          |
| Mercuric Thiocyanate         | Sodium Bromate                         |
| Methanol, Absolute           | Sodium Carbonate                       |
| Methyl Isobutyl Ketone       | Sodium Chloride                        |
| Methyl Orange                | Sodium Fluoride Powder                 |
| Nickel Chloride              | Sodium Hydroxide                       |
| Oil, Vacuum Pump             | Sodium Meta-Bisulfite                  |
| Oxalic Acid                  | Sodium Nitrate                         |
| Oxygen                       | Sodium Nitrite                         |
| P-Dimethylamino-Benzaldehyde | Sodium Peroxide (Granular)             |
| pH 10 Buffer                 | Sodium Persulfate                      |
| pH 4 Buffer                  | Sodium Sulfate                         |
| pH 7 Buffer                  | Sodium Sulfide                         |
| Phenolphthalein              | Sodium Sulfite                         |
| Phenylarsine Oxide           | Sodium Tetrafluoroborate               |
| Phosphoric Acid              | Sodium Thiosulfate                     |
| Potassium Biphthalate        | Standard, Aluminum, 1000 Ppm           |
| Potassium Chloride           | Standard, Cadmium, 1000 Ppm            |
| Potassium Chromate           | Standard, Calcium, 1000 Ppm            |
| Potassium Dichromate         | Standard, Chromium, 1000 Ppm           |
| Potassium Hydroxide          | Standard, Cobalt, 1000 Ppm             |
| Potassium Iodate             | Standard, Copper, 1000 Ppm             |
| Potassium Iodide             | Standard, Fluoride, 100 Ppm            |
| Potassium Iodine             | Standard, Iron, 1000 Ppm - Std         |
| Potassium Molybdate          | Standard, Lead, 1000 Ppm               |

 $\sim$ 

Attachment 3 Page 3 of 6

### Diablo Canyon Power Plant Primary and Secondary Chemistry Laboratory Inventory Primary Laboratory

Standard, Lithium, 1000 Ppm - Std Standard, Magnesium, 1000 Ppm - Std Standard, Mercury, 1000 Ppm Standard, Nickel, 1000 Ppm Standard, Potassium, 1000 Ppm Standard, Silica, 1000 Ppm Standard, Silver, 1000 Ppm Standard, Sodium, 1000 Ppm Standard, Zinc, 1000 Ppm Starch Stoddard Solvent Strontium Chloride Sulfuric Acid Toluene Yttrium Nitrate Zinc Shot

# Diablo Canyon Power Plant Primary and Secondary Chemistry Laboratory Inventory Secondary Laboratory

| 1, 1, 2 Trichlorotrifluoroethane (Freon) | Carminic Acid                   |
|------------------------------------------|---------------------------------|
| 1, 10-Phenanthroline                     | Chemets DO2 (High Range)        |
| 1-Amino-2 Naphthol-1 Sulfonic Acid       | Chemets DO2 (Low Range)         |
| 1-Octanesulfonic Acid                    | Chlorine Reagent Powder Pillows |
| 2,2,4 Trimethylpentane                   | Chromium Liquid Standard        |
| 2-Propanol (Isopropyl Alcohol)           | Cobalt Chloride                 |
| Acetic Acid                              | Copper Liquid Standard          |
| Acetone                                  | Copper Standard                 |
| Acetylene                                | Copper Sulfate                  |
| Acid, Amino                              | Cupric Sulfate                  |
| Acid, Boric                              | Cylinder, Argon                 |
| Acid, Methanesulfonic                    | DFO samples                     |
| Alcohol                                  | Dimethyamine                    |
| Amino Acid reagent                       | Dithizone                       |
| Ammonia, pH adjusting                    | EDTA Acid                       |
| Ammonium 1-Pyrrolidinecarbodithioate     | Elimin-Ox reagent 1             |
| Ammonium Acetate                         | Elimin-Ox reagent 2             |
| Ammonium Chloride                        | Erichrome Black T               |
| Ammonium Hydroxide                       | Erichrome Cyanine R             |
| Ammonium Molybdate                       | Ethyl Propionate                |
| Ammonium Nitrate                         | Ethylenediamine                 |
| Ammonium Pyrolidine Carodithionate       | Ferric Ammonium Sulfate reagent |
| Ammonium Sulfate                         | Ferric Chloride                 |
| Anhydrone (Magnesium Perchlorate)        | Ferric Nitrate in Nitric Acid   |
| Anhydrous Alcohol                        | Ferrous Ammonium Sulfate        |
| Argon                                    | Freon                           |
| Barium Nitrate                           | Fungicide, Biobor JF            |
| Benzaldehyde                             | Glutaraldehyde                  |
| Biobor JF Fungicide                      | Glycerol                        |
| Boiling Chips                            | Glycolic Acid                   |
| Boric Acid                               | Hydrazine (Samples)             |
| Bromophenol Blue                         | Hydrazine Dihydrochloride       |
| Calcium Chloride                         | Hydrochloric Acid               |
| Calcium Liquid Standard                  | Hydrogen Peroxide               |
| Carbohydrazide                           | Hydroxylamine Hydrochloride     |

# Diablo Canyon Power Plant Primary and Secondary Chemistry Laboratory Inventory Secondary Laboratory

| Iron Liquid Standard              | Potassium Dichromate           |
|-----------------------------------|--------------------------------|
| Lead Liquid Standard              | Potassium Hydroxide            |
| Long-term storage additive (LTSA) | Potassium Iodide               |
| LTSA, Additive                    | Potassium Liquid Standard      |
| Magnesium Liquid Standard         | Potassium Nitrite              |
| Manganous Sulfate                 | Potassium Permanganate         |
| Mercuric Chloride                 | Potassium Persulfate           |
| Mercuric Iodide                   | Potassium Standard             |
| Mercuric Nitrate                  | Powder Infusorial Earth        |
| Mercuric Thiocyanate              | Pyrrolidine                    |
| Mercury Liquid Standard           | Silica Gel 40-140 Mesh         |
| Mercury Thiocyanate reagent       | Silica Gel 6-16 Mesh           |
| Methanol                          | Silica Liquid Standard         |
| Methyl Iso-Butyl Ketone           | Silver                         |
| Methyl Orange                     | Silver Chloride                |
| Molybdate corrosion inhibitor     | Silver Nitrate                 |
| Monoethanolamine                  | Silver Standard                |
| NH4 Acetate-Acetic Acid reagent   | Sodium Acetate                 |
| Nickel Liquid Standard            | Sodium Azide                   |
| Nitric Acid                       | Sodium Bicarbonate             |
| Nitrogen as Ammonia Standard      | Sodium Bisulfite               |
| Oil, Technical White              | Sodium Borate                  |
| Orbisphere Electrolyte            | Sodium Carbonate               |
| Oxalic Acid                       | Sodium Chloride                |
| Oxygen                            | Sodium Citrate                 |
| p-(Dimethylaminobenzaldehyde)     | Sodium Etch solution           |
| PDAB reagent                      | Sodium Fluoride                |
| pH 10 Buffer                      | Sodium Formate                 |
| pH 4 Buffer                       | Sodium Hydroxide               |
| pH 7 Buffer                       | Sodium Hypochlorite            |
| Phenanthroline                    | Sodium Meta-Bisulfite          |
| Phenolphthalein                   | Sodium Monoethylamine          |
| Phenylarsine Oxide                | Sodium Nitrate                 |
| Phosphoric Acid                   | Sodium Persulfate              |
| Potassium Biphthalate             | Sodium Reconditioning solution |
| Potassium Chloride standard       | Sodium Sulfate                 |
| Potassium Chromate                | Sodium Sulfite                 |

# Diablo Canyon Power Plant Primary and Secondary Chemistry Laboratory Inventory Secondary Laboratory

Sodium Tetrafluoroborate Sodium Thiosulfate Stannous Chloride Starch Starch Indicator reagent Stoddard Solvent Sulfate Liquid Standard Sulfuric Acid TOC/Organic standards (refrigerator) Toluene Trace-Klean TTA Turbidity standards Vacuum pump oil Viscosity bath oil Zinc Liquid Standard

| PLEASE PRINT<br>this information or<br>SEE INSTRUCTION | . ryr<br>n separ<br>ONS. | PE IN THE                 | E UNSH/<br>s (use the  | ADED AREA<br>e same forma         | S ONLY. Yo                      | u report s<br>f completin              | ome or all of<br>ng these page:    | (                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | D. 1                   | NUMBE                     | R (copy fr             | om Iten<br>077966           | n 1 of For<br>349                        | rm 1)                    |                         | Form A<br>OMB N<br>Approv | pproved.<br>o. 2040-0(<br>al expires | Forms by Cher<br>186<br>7-31-88 | /<br>45.pin11197.y5    | 21;11/1/98;3/n2222YYY900X |           |
|--------------------------------------------------------|--------------------------|---------------------------|------------------------|-----------------------------------|---------------------------------|----------------------------------------|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------------------|------------------------|-----------------------------|------------------------------------------|--------------------------|-------------------------|---------------------------|--------------------------------------|---------------------------------|------------------------|---------------------------|-----------|
| V. INTAKE AND                                          | EFFLU                    | ENT CHA                   | RACTE                  | RISTICS (coi                      | tinued from                     | page 3 of                              | Form 2-C)                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                        |                           |                        |                             |                                          |                          |                         |                           |                                      |                                 |                        |                           | 001       |
| PART A - You mu                                        | ust prov                 | ide the re                | sults of a             | it least one a                    | alysis for ev                   | ery pollut                             | ant in this table                  | e. Complete                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | one table              | e for each o              | outfall.               | See instru                  | ictions f                                | or additio               | nal details             |                           |                                      |                                 | 4.16(7.4)2             | E (optional)              |           |
|                                                        | NT                       | a MAXIN                   |                        | ILY VALUE                         | 2<br>Ib. MAX                    | EFFLUE                                 | NT<br>DAY VALUE                    | lc. LONG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | TERM A                 | AVRG. VAL                 | UE                     |                             |                                          |                          | 3, UNI<br>(specify if l | 1S<br>plank)              |                                      | a. LON                          | G TERM                 | E (Optional)              |           |
| ne e se inden stander.                                 |                          |                           |                        |                                   |                                 | (if ava                                | nilable)                           | (                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | if available           | )                         |                        | d. NO.                      | OF                                       | - CON                    |                         |                           |                                      | AVERAG                          | E VALUE                |                           | D. NO. OF |
|                                                        |                          | (1<br>CONCENT             | )<br>RATION            | (2) MASS                          | CONCE                           | (1)<br>NTRATION                        | (2) MASS                           | CONCEN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1)<br>TRATION          | (2) MA                    | SS                     | ANALYSES                    |                                          | TRA                      |                         | b. MASS                   | CONCE                                | (1)<br>NTRATION                 | (2) M/                 | vss /                     | JULLIOLO  |
| a. Biochemical O<br>Demand (BO                         | Dxygen<br>DD)            | NI<br>(MRL                | <b>)</b><br>= 4)       |                                   |                                 |                                        |                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                        |                           |                        | 1                           |                                          | m                        | g/I                     |                           | l<br>(MF                             | ND<br>RL = 4)                   |                        |                           | 1         |
| b. Chemical Ox<br>Demand (CO                           | (ygen<br>)D)             | 48                        | 9                      |                                   |                                 |                                        |                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                        |                           |                        | 1                           |                                          | m                        | g/I                     |                           | 4                                    | 49                              |                        |                           | 1         |
| c. Total Organic (<br>(TOC)                            | Carbon                   | 0.                        | ).8                    |                                   |                                 |                                        |                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                        |                           |                        | 1                           |                                          | m                        | g/I                     |                           | (                                    | 0. <del>9</del>                 |                        |                           | 1         |
| d. Total Susper<br>Solids (TSS                         | nded<br>S)               | NI<br>(MRL                | D<br>= 5)              |                                   |                                 |                                        |                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                        |                           |                        | 1                           |                                          | m                        | g/l                     |                           | (MF                                  | <b>ND</b><br>RL = 5)            |                        |                           | 1         |
| e. Ammonia (a                                          | as N)                    | ND           (MRL = 0.05) |                        |                                   |                                 |                                        |                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                        |                           |                        | 1                           |                                          | m                        | g/l                     |                           | (MRL                                 | ND<br>. = 0.05)                 |                        |                           | 1         |
|                                                        |                          | VALUE VALUE VALUE         |                        |                                   |                                 |                                        |                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                        |                           |                        |                             |                                          |                          |                         | VALUE                     | VALUE                                |                                 |                        |                           |           |
| f. Flow                                                |                          |                           | 2.60                   | x 10 <sup>9</sup>                 |                                 | 2.56                                   | x 10 <sup>9</sup>                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2.29                   | x 10 <sup>9</sup>         |                        | See N                       | Vote                                     | GI                       | PD                      |                           | N/A                                  |                                 |                        |                           | N/A       |
| Tomparat                                               |                          | VALUE                     |                        |                                   | VALUE                           |                                        |                                    | VALUE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                        |                           |                        |                             |                                          |                          |                         |                           | VALUE                                |                                 |                        |                           |           |
| (winter) Nov-                                          | -Apr                     |                           | 24                     | 1.7                               |                                 | 2                                      | 3.3                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2′                     | 1.9                       |                        | See N                       | Note                                     |                          | °C                      |                           |                                      | 11                              | 1.3                    | s                         | ee Note   |
| no ana ang ago na                                      |                          | VALUE                     |                        |                                   | VALUE                           | <u> </u>                               |                                    | VALUE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                        |                           |                        |                             |                                          |                          |                         | VALUE                     |                                      |                                 |                        |                           |           |
| (summer) May                                           | y-Oct                    |                           | 24                     | 1.9                               | ·                               | 2                                      | 5.0                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 22                     | 2.1                       |                        | See N                       | Note                                     | °C                       |                         | 11.5                      |                                      | S                               | ee Note                |                           |           |
| i. pH                                                  |                          | MINIMU                    | M<br>8                 | MAXIMUM<br>8.1                    | MINIM                           | UM                                     | MAXIMUM                            | All and a second s | $\sum$                 | <                         |                        | 12                          | 2                                        |                          | STANDARI                |                           |                                      |                                 |                        |                           |           |
| PART B -                                               | Mark "X                  | " in colum                | in 2-a foi             | r each polluta                    | nt you know                     | or have re                             | eason to believ                    | e is present.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Mark "X                | " in column               | 2-b for                | each poll                   | utant yo                                 | u believe                | to be abse              | ent. If you n             | ark columr                           | 2a for an                       | y pollutant            | nderer angebreiten.       |           |
| v<br>C                                                 | which Is<br>column       | : limited el<br>2a, you m | ther dire<br>lust prov | ctly, or indire<br>ide quantitati | otly but expre<br>ve data or ar | essly, in a<br>i explanat              | n effluent limitation of their pre | ations guideli<br>sence in you                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ne, you n<br>r dischar | nust provid<br>ge. Comple | le the re<br>ete on ti | esults of at<br>able for ea | i least o<br>Ich outfa                   | ne analys<br>all. See th | ne instruction          | oollutant. Fo             | r other poli<br>ional detail:        | and requ                        | vnich you<br>irements. | mark                      |           |
|                                                        | 2 144                    | DK "Y"                    |                        |                                   |                                 | 3 66                                   |                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                        |                           |                        | 4.9                         | 466 million                              |                          | ()<br>I                 |                           |                                      | 1                               | 5 16                   | JTAKE (optiona            | <u>)</u>  |
| ANTAND                                                 | a, BE-                   | b. BE-                    | a. MAXI                | MUM DAILY                         | VALUE                           | b. M/                                  | AXIMUM 30 D                        | AY VALUE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | c. LOI                 | NG TERM                   | AVRG.                  | VALUE                       |                                          |                          |                         | (specify if bla           | nk)                                  | a da anti-                      | a, LONC                | TERM                      |           |
| CAS NO.<br>(if available)                              | LIEVED                   | LIEVED                    | (                      | 1)                                | (0) 11100                       | a anna anna anna anna anna anna anna a | (il available)<br>(1)              | )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                        | (if avail<br>(1)          | able)                  |                             | d. NO.<br>ANAL                           | YSES                     | a. CON                  | CEN-                      | - MACC                               |                                 | AVERAG                 |                           | D. NO. OF |
|                                                        | SENT                     | AB-SENT                   | CONCEN                 | ITRATION                          | (2) MASS                        | CONCE                                  | NTRATION                           | (2) MASS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | CONCE                  | NTRATION                  | (2) (                  | MASS                        | an a |                          | TRAT                    | ON                        | D. MASS                              | CONCE                           | NTRATION               | (2) MASS                  | ANALYSES  |
| a, Bromide<br>(24959-67-9)                             | х                        |                           | 8                      | 1.0                               |                                 |                                        |                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                        |                           |                        |                             |                                          | 1                        | mg                      | /1                        |                                      | 8                               | 1.4                    |                           | 1         |
| b. Chlorine<br>Total Residual                          | x                        |                           | N<br>(MRL              | <b>ID</b><br>= 0.1)               |                                 |                                        |                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                        |                           |                        |                             |                                          | 1                        | mg                      | /1                        |                                      | (MRL                            | <b>ND</b><br>_ = 0.1)  | L                         | 1         |
| c. Color                                               | х                        |                           | (MR                    | ND                                |                                 |                                        |                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                        |                           |                        |                             |                                          | 1                        | mg                      | /1                        |                                      | (MR                             | ND                     |                           | 1         |
| d. Fecal<br>Coliform                                   | x                        |                           |                        | 2                                 |                                 |                                        |                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                        |                           |                        |                             |                                          | 1                        | MPN<br>1                | 00ml                      |                                      | (MR                             | ND<br>(L = 2)          |                           | 1         |
| e. Fluoride<br>(16984-48-8)                            | x                        |                           | 1                      | .0                                |                                 |                                        |                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                        |                           |                        |                             |                                          | 1                        | mg                      | /1                        |                                      | 1                               | 1.0                    |                           | 1         |
| f. Nitrate-Nitrite<br>(as N)                           | x                        |                           | 0                      | ).3                               |                                 |                                        |                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                        |                           |                        |                             |                                          | 1                        | mg                      | /1                        |                                      | (                               | ).3                    |                           | 1         |
| EPA Form 3510-                                         | -2C (Re                  | ev. 2-85)                 |                        | -                                 |                                 |                                        |                                    | - 11 - 12 - 12 - <b></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | PAGE                   | V-1 (Outf                 | (ali 001)              | )                           |                                          |                          |                         |                           |                                      |                                 | (                      | CONTINUE ON               | REVERSE   |

Note: Data taken from 1999 annual NPDES Report

PAGE V-1 (Outfall 001)

| (                                                     | 7            |                  |                                        |             |                      |          | (                    | 7966349    |           |                           |         | Forms by Chen                   | sw(707)8 17,45 | 5.21;11/1/98:s/nZZZYYYXXX |
|-------------------------------------------------------|--------------|------------------|----------------------------------------|-------------|----------------------|----------|----------------------|------------|-----------|---------------------------|---------|---------------------------------|----------------|---------------------------|
| 1. POLLUI -<br>ANT AND                                | .ИА<br>a.BE- | RK "X"<br>b. BE- | a. MAXIMUM I                           | DAILY VALUE | 3.<br>I b. MAXIMUM 3 | EFFLUENT | O LONG TERM          | AVRG VALUE |           | 4. U                      | NITS    | 5. IN<br>a 1 ONC                | TAKE (uptional | <u>1</u>                  |
| CAS NO.                                               | LIEVED       | LIEVED           | and a men and a second                 |             | (if ava              | ilable)  | (if ava              | llable)    | d. NO. OF | Contractor and the second |         | AVERAG                          | EVALUE         | b. NO. OF                 |
| (if avaliable)                                        | PRE-<br>SENT | AB-SENT          | (1)<br>CONCENTRATION                   | (2) MASS    | (1)<br>CONCENTRATION | (2) MASS | (1)<br>CONCENTRATION | (2) MASS   | ANALYSES  | a. CONCEN-<br>TRATION     | b. MASS | (1)<br>CONCENTRATION            | (2) MASS       | ANALYSES                  |
| g. Nitrogen,<br>Total Organic<br><i>(as N)</i>        | x            |                  | <b>ND</b><br>(MRL = 0.1)               |             |                      |          |                      |            | 1         | mg/l                      |         | 0.1                             |                | 1                         |
| h. Oil and<br>Grease                                  | х            |                  | <b>ND</b><br>(MRL = 5.0)               |             |                      |          |                      |            | 1         | mg/l                      |         | ND<br>(MRL = 5.0)               |                | 1                         |
| i. Phosphorus<br><i>(as P)</i> , Total<br>(7723-14-0) | x            |                  | 0.06                                   |             |                      |          |                      |            | 1         | mg/l                      |         | 0.06                            |                | 1                         |
| j. Radioactivity                                      |              |                  |                                        |             | <b>,</b>             |          |                      |            |           |                           |         |                                 |                |                           |
| (1) Alpha,<br>Total                                   | x            |                  | <b>110 ± 260</b><br>(MDA = 270)        |             |                      |          |                      |            | 1         | pCi/l                     |         | <b>22 ± 250</b><br>(MDA = 270)  |                | 1                         |
| (2) Beta, Total                                       | х            |                  | <b>490 <u>+</u> 280</b><br>(MDA = 420) |             |                      |          |                      |            | 1         | pCi/l                     | -       | <b>160 ± 280</b><br>(MDA = 440) |                | 1                         |
| (3) Radium,<br>Total                                  | х            |                  | <b>1.3 <u>+</u> 2.2</b><br>(MDA = 4.8) |             |                      |          |                      |            | 1         | pCi/l                     |         | 0.1 <u>+</u> 2.0<br>(MDA = 3.6) |                | 1                         |
| (4) Radium<br>226, Total                              | х            |                  | <b>0.4 ± 0.4</b><br>(MDA = 1.1)        |             |                      |          |                      |            | 1         | pCi/l                     |         | <b>0.1 ± 0.3</b><br>(MDA = 1.0) |                | 1                         |
| k. Sullate<br>(as SO₄)<br>(14808-79-8)                | х            |                  | 2640                                   |             | · · ·                |          |                      |            | 1         | mg/l                      |         | 2540                            |                | 1                         |
| I. Sulfide<br>(as S)                                  | х            |                  | ND<br>(MRL = 1)                        |             |                      |          |                      |            | 1         | mg/i                      |         | ND<br>(MRL = 1)                 |                | 1                         |
| m. Sullite<br>(as SO <sub>3</sub> )<br>(14265-45-3)   | х            |                  | <b>ND</b><br>(MRL = 2 )                |             |                      |          |                      |            | 1         | mg/l                      |         | <b>ND</b><br>(MRL = 2)          |                | 1                         |
| n. Surfactants                                        | X            |                  | ND<br>(MRL = 0.05)                     |             |                      |          |                      |            | 1         | mg/l                      |         | ND<br>(MRL = 0.05)              |                | 1                         |
| o: Aluminum,<br>Total<br>(7429-90-5)                  | х            |                  | 0.076                                  |             |                      |          |                      |            | 1         | mg/l                      |         | 0.085                           |                | 1                         |
| p. Barium,<br>Total<br>(7440-39-3)                    | x            |                  | <b>ND</b><br>(MRL = 0.005)             |             |                      |          |                      |            | 1         | mg/i                      |         | <b>ND</b><br>(MRL = 0.005)      |                | 1                         |
| q. Boron,<br>Total<br>(7440-42-8)                     | x            |                  | 4.37                                   |             |                      |          |                      |            | 1         | mg/l                      |         | 4.44                            |                | 1                         |
| r. Cobalt,<br>Total<br>(7440-48-4)                    | х            |                  | <b>ND</b><br>(MRL = 0.001)             |             |                      |          |                      |            | 1         | mg/l                      |         | ND<br>(MRL = 0.001)             |                | 1                         |
| s. Iron, Total<br>(7439-89-6)                         | х            |                  | ND<br>(MRL = 0.02)                     |             |                      |          |                      |            | 1         | mg/l                      |         | <b>ND</b><br>(MRL = 0.02)       |                | 1                         |
| t. Magnesium,<br>Total<br>(7439-95-4)                 | х            |                  | 1180                                   |             |                      |          |                      |            | 1         | mg/l                      |         | 1190                            |                | 1                         |
| u.Molybdenum<br>, Total<br>(7439-98-7)                | х            |                  | <b>ND</b><br>(MRL = 0.01)              |             |                      |          |                      |            | 1         | mg/l                      |         | ND<br>(MRL = 0.01)              |                | 1                         |
| v. Manganese,<br>Total<br>(7439-96-5)                 | х            |                  | ND<br>(MRL ≈ 0.005)                    |             |                      |          |                      |            | 1         | mg/l                      |         | <b>ND</b><br>(MRL = 0.005)      |                | 1                         |
| w. Tín, Total<br>(7440-31-5)                          | Х            |                  | <b>ND</b><br>(MRL = 0.005)             |             |                      |          |                      |            | 1         | mg/l                      |         | ND<br>(MRL = 0.005)             |                | 1                         |
| x. Litanium,<br>Total<br>(7440-32-6)                  | х            |                  | <b>ND</b><br>(MRL = 0.005)             |             |                      |          |                      |            | 1         | mg/l                      |         | ND<br>(MRL = 0.005)             |                | 1                         |

|                                                         | (                                                                                         |                                                                                                           |                                                                                                 |                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                   |                                                                                                                                                                          |                                                                                                                                                                                                                |                                                                                                                                                                         | -                                                                                                                                                           |                                                                                                                                                                                    |                                                                                                                                                                     |                                                                                                                                            | (               |                       |
|---------------------------------------------------------|-------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------------|
|                                                         | <u>(</u>                                                                                  |                                                                                                           |                                                                                                 |                                                                                                                                                                                       | EPA I.C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ). NUMBER (copy                                                                                                                                                                   | from Item 1 of F                                                                                                                                                         | Formi∖ JUTFA<br>                                                                                                                                                                                               | LL NUMBER                                                                                                                                                               |                                                                                                                                                             | Form Ap                                                                                                                                                                            | proved.                                                                                                                                                             | Forms by Chemic                                                                                                                            | r 100mr110/003  | 111010365882221112000 |
| CONTINUED FRO                                           | M PAGE                                                                                    | 2 OF FC                                                                                                   | ORM 2-C                                                                                         | }                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | CAD 07                                                                                                                                                                            | 7966349                                                                                                                                                                  |                                                                                                                                                                                                                | 001                                                                                                                                                                     |                                                                                                                                                             | OMB No<br>Approva                                                                                                                                                                  | ). 2040-0086<br>l expires 7-31-88                                                                                                                                   | 3                                                                                                                                          |                 |                       |
| PART C-                                                 | If you a<br>2-a for a<br>wastew<br>believe<br>of at lea<br>dinitrop<br>concen<br>be disci | re a prima<br>all such C<br>ater outfa<br>is absent<br>ast one ar<br>henol, or<br>trations o<br>harged. N | ary indus<br>iC/MS frails, and<br>i. If you r<br>nalysis fo<br>2-methy<br>f 100 pp<br>lote that | itry and this outfall<br>actions that apply t<br>nonrequired GC/M<br>nark column 2a for<br>or that pollutant of y<br>1-4, 6 dinitrophenol<br>b or greater. Other<br>there are 7 pages | contains proces<br>o your industry<br>S fractions), ma<br>any pollutant, y<br>you know or hav<br>, you must prov<br>wise, for polluta<br>to this part; plea                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | s wastewater, refe<br>and for ALL toxic n<br>irk "X" in column 2<br>ou must provide th<br>e reason to believ<br>ide the results of a<br>nts for which you r<br>ase review each ca | r to Table 2c-2 in<br>netals, cyanides,<br>-b for each pollu-<br>te results of at le<br>e it will be dische<br>t least one analy<br>nark column 2b,<br>arefully. Complet | n the instructions t<br>, and total phenols<br>tant you know or h<br>ast one analysis for<br>arged in concentral<br>rsis for each of the<br>you must either su<br>e one table (all 7 p<br>e one table (all 7 p | o determine white<br>, If you are not re-<br>ave reason to be<br>or that pollutant,<br>tions of 10 ppb o<br>se pollutants whi<br>ibmit at least one<br>ages) for each o | ch of the GC/M<br>equired to mark<br>elleve is presen<br>If you mark colu<br>r greater: If you<br>ch you know or<br>e analysis or bri<br>outfall. See instr | S fractions you mu<br>column 2-a (seco<br>t. Mark "X" in colu<br>mark column 2b for any pol<br>mark column 2b f<br>have reason to be<br>efly describe the r<br>uctions for additio | ist test for. Mark<br>indary industries,<br>mn 2-c for each<br>lutant, you must<br>or acrolein, acry<br>slieve that you d<br>easons the pollu<br>nal details and ro | "X" in column<br>nonprocess<br>pollutant you<br>provide the results<br>lonitrile, 2,4<br>scharge in<br>tant is expected to<br>equirements. |                 |                       |
| 1. POLLUTANT                                            | 2                                                                                         | MARK "                                                                                                    | X"                                                                                              |                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 3.                                                                                                                                                                                | EFFLUENT                                                                                                                                                                 |                                                                                                                                                                                                                |                                                                                                                                                                         | -                                                                                                                                                           | 4. U                                                                                                                                                                               | NITS                                                                                                                                                                | 5. IN                                                                                                                                      | TAKE (optional) | <u> </u>              |
| NUMBER                                                  | a. TEST-<br>ING                                                                           | b. BE-<br>LIEVED                                                                                          | C. BE-                                                                                          | a, MAXIMUM DA                                                                                                                                                                         | ILY VALUE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | b. MAXIMUM 30<br>(if avi                                                                                                                                                          | DAY VALUE                                                                                                                                                                | c. LONG TERM                                                                                                                                                                                                   | AVRG, VALUE                                                                                                                                                             | d. NO. OF                                                                                                                                                   |                                                                                                                                                                                    |                                                                                                                                                                     | a, LUNG<br>AVERAGI                                                                                                                         |                 | b. NO. OF             |
| (if available)                                          | REQUIR                                                                                    | PRE-                                                                                                      | AB-<br>SENT                                                                                     | (1)<br>CONCENTRATION                                                                                                                                                                  | (2) MASS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | (1)<br>CONCENTRATION                                                                                                                                                              | (2) MASS                                                                                                                                                                 | (1)<br>CONCENTRATION                                                                                                                                                                                           | (2) MASS                                                                                                                                                                | ANALYSES                                                                                                                                                    | a, CONCEN-                                                                                                                                                                         | b. MASS                                                                                                                                                             | (1)<br>CONCENTRATION                                                                                                                       | (2) MASS        | ANALYSES              |
| METALS, CYANIL                                          | DE, AND                                                                                   | TOTAL                                                                                                     | PHENO                                                                                           | Ls                                                                                                                                                                                    | lin - Lagone - Statistical - S |                                                                                                                                                                                   | and a second                                                           | 1                                                                                                                                                                                                              | -                                                                                                                                                                       |                                                                                                                                                             |                                                                                                                                                                                    |                                                                                                                                                                     |                                                                                                                                            |                 |                       |
| 1M. Antimony,<br>Total (7440-36-0)                      | x                                                                                         | x                                                                                                         |                                                                                                 | <b>ND</b><br>(MRL = 0.001)                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                   |                                                                                                                                                                          |                                                                                                                                                                                                                |                                                                                                                                                                         | 1                                                                                                                                                           | mg/l                                                                                                                                                                               |                                                                                                                                                                     | ND<br>(MRL = 0.001)                                                                                                                        |                 | 1                     |
| 2M. Arsenic, Total<br>(7440-38-2)                       | x                                                                                         | х                                                                                                         |                                                                                                 | <b>ND</b><br>(MRL = 0.005)                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                   |                                                                                                                                                                          |                                                                                                                                                                                                                |                                                                                                                                                                         | 1                                                                                                                                                           | mg/l                                                                                                                                                                               |                                                                                                                                                                     | ND<br>(MRL = 0.005)                                                                                                                        |                 | 1                     |
| 3M. Beryllium,<br>Total (7440-41-7)                     | x                                                                                         | х                                                                                                         |                                                                                                 | <b>ND</b><br>(MRL = 0.001)                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                   |                                                                                                                                                                          |                                                                                                                                                                                                                |                                                                                                                                                                         | 1                                                                                                                                                           | mg/i                                                                                                                                                                               |                                                                                                                                                                     | ND<br>(MRL = 0.001)                                                                                                                        |                 | 1                     |
| 4M. Cadmlum,<br>Total (7440-43-9)                       | x                                                                                         | х                                                                                                         |                                                                                                 | ND<br>(MRL = 0.001)                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                   |                                                                                                                                                                          |                                                                                                                                                                                                                |                                                                                                                                                                         | 1                                                                                                                                                           | mg/l                                                                                                                                                                               |                                                                                                                                                                     | <b>ND</b><br>(MRL = 0.001)                                                                                                                 |                 | 1                     |
| 5M. Chromium,<br>Total (7440-47-3)                      | x                                                                                         | х                                                                                                         |                                                                                                 | <b>ND</b><br>(MRL = 0.002)                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                   |                                                                                                                                                                          |                                                                                                                                                                                                                |                                                                                                                                                                         | 1                                                                                                                                                           | mg/I                                                                                                                                                                               |                                                                                                                                                                     | ND<br>(MRL =0.002 )                                                                                                                        |                 | 1                     |
| 6M. Copper, Total<br>(7440-50-8)                        | х                                                                                         | х                                                                                                         |                                                                                                 | <b>ND</b><br>(MRL = 0.002)                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                   |                                                                                                                                                                          |                                                                                                                                                                                                                |                                                                                                                                                                         | 1                                                                                                                                                           | ug/l                                                                                                                                                                               |                                                                                                                                                                     | ND<br>(MRL = 0.002)                                                                                                                        | <u> </u>        | 1                     |
| 7M. Lead, Total<br>(7439-92-1)                          | х                                                                                         | x                                                                                                         |                                                                                                 | <b>ND</b><br>(MRL = 0.001)                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                   |                                                                                                                                                                          |                                                                                                                                                                                                                |                                                                                                                                                                         | 1                                                                                                                                                           | mg/l                                                                                                                                                                               |                                                                                                                                                                     | ND<br>(MRL = 0.001)                                                                                                                        |                 | 1                     |
| 8M. Mercury,<br>Total (7439-97-6)                       | х                                                                                         | x                                                                                                         |                                                                                                 | ND<br>(MRL = 0.0002)                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                   |                                                                                                                                                                          |                                                                                                                                                                                                                |                                                                                                                                                                         | 1                                                                                                                                                           | mg/l                                                                                                                                                                               |                                                                                                                                                                     | ND<br>(MRL = 0.0002)                                                                                                                       |                 | 1                     |
| 9M. Nickel, Total<br>(7440-02-0)                        | x                                                                                         | x                                                                                                         |                                                                                                 | ND<br>(MRL = 0.003)                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                   |                                                                                                                                                                          |                                                                                                                                                                                                                |                                                                                                                                                                         | 1                                                                                                                                                           | mg/l                                                                                                                                                                               |                                                                                                                                                                     | ND<br>(MRL = 0.003)                                                                                                                        |                 | 1                     |
| 10M. Selenium,<br>Total (7782-49-2)                     | x                                                                                         | x                                                                                                         |                                                                                                 | ND<br>(MRL = 0.001)                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                   |                                                                                                                                                                          |                                                                                                                                                                                                                |                                                                                                                                                                         | 1                                                                                                                                                           | mg/l                                                                                                                                                                               |                                                                                                                                                                     | ND<br>(MRL = 0.001)                                                                                                                        |                 | 1                     |
| 11M. Silver, Total<br>(7440-22-4)                       | x                                                                                         | x                                                                                                         |                                                                                                 | <b>ND</b><br>(MRL = 0.001)                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                   |                                                                                                                                                                          |                                                                                                                                                                                                                |                                                                                                                                                                         | 1                                                                                                                                                           | mg/l                                                                                                                                                                               |                                                                                                                                                                     | ND<br>(MRL = 0.001)                                                                                                                        |                 | 1                     |
| 12M. Thallium,<br>Total (7440-28-0)                     | x                                                                                         | x                                                                                                         |                                                                                                 | ND<br>(MRL = 0.001)                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                   |                                                                                                                                                                          |                                                                                                                                                                                                                |                                                                                                                                                                         | 1                                                                                                                                                           | mg/l                                                                                                                                                                               | · · · · · · · · · · · · · · · · · · ·                                                                                                                               | ND<br>(MRL = 0.001                                                                                                                         | <u> </u>        | 1                     |
| 13M. Zinc, Total<br>(7440-66-6)                         | x                                                                                         | x                                                                                                         |                                                                                                 | 0.026                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                   |                                                                                                                                                                          |                                                                                                                                                                                                                |                                                                                                                                                                         | 1                                                                                                                                                           | mg/l                                                                                                                                                                               |                                                                                                                                                                     | 0.021                                                                                                                                      |                 | 1                     |
| 14M. Cyanide,<br>Total (57-12-5)                        | x                                                                                         |                                                                                                           | x                                                                                               | <b>ND</b><br>(MRL = 0.01)                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                   |                                                                                                                                                                          |                                                                                                                                                                                                                |                                                                                                                                                                         | 1                                                                                                                                                           | mg/l                                                                                                                                                                               |                                                                                                                                                                     | ND<br>(MRL =0.01)                                                                                                                          |                 | 1                     |
| 15M. Phenols,<br>Total                                  | x                                                                                         | x                                                                                                         |                                                                                                 | <b>ND</b><br>(MRL = 0.01)                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                   |                                                                                                                                                                          |                                                                                                                                                                                                                |                                                                                                                                                                         | 1                                                                                                                                                           | mg/i                                                                                                                                                                               |                                                                                                                                                                     | ND<br>(MRL = 0.01)                                                                                                                         |                 | 1                     |
| DIOXIN                                                  | 1                                                                                         |                                                                                                           |                                                                                                 | T                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 3                                                                                                                                                                                 |                                                                                                                                                                          |                                                                                                                                                                                                                |                                                                                                                                                                         |                                                                                                                                                             |                                                                                                                                                                                    | an a                                                                                                                            |                                                                                                                                            |                 |                       |
| 2,3,7,8 Tetra-<br>chlorodibenzo-P<br>Dioxin (1764-01-6) |                                                                                           |                                                                                                           | x                                                                                               | DESCRIBE RES                                                                                                                                                                          | ULTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                   |                                                                                                                                                                          |                                                                                                                                                                                                                |                                                                                                                                                                         |                                                                                                                                                             |                                                                                                                                                                                    |                                                                                                                                                                     |                                                                                                                                            |                 |                       |

| CONTINUED FROM                                   | 1        | RONT    |        |                           |              |               |           | 4D 07         | 7966349                                                                                                        |                                         |            |         | Form by Chem              | SW                        | 5.21;11/1/98;s/nZZZYYYXXX |
|--------------------------------------------------|----------|---------|--------|---------------------------|--------------|---------------|-----------|---------------|----------------------------------------------------------------------------------------------------------------|-----------------------------------------|------------|---------|---------------------------|---------------------------|---------------------------|
| 1. POLLUTANT                                     | د ک      | MARK "  | X"     |                           | SAU V USU US | 3,            | EFFLUENT  |               | WBO 141145                                                                                                     | a a sa | 4. UI      | NITS    | 5. IN                     | ITAKE (optiona            | <u>Ŋ</u>                  |
| AND CAS<br>NUMBER                                | a. TEST- | b. BE-  | C. BE- |                           | DAILY VALUE  | b. MAXIMUM 30 | DAY VALUE | C. LONG TERM  | AVRG. VALUE                                                                                                    |                                         |            |         | a, LONG                   |                           | INO OF                    |
| (if available)                                   | REQUIR-  | PRE-    | AB-    |                           | (2) MASS     |               | (2) MASS  | (1)<br>(1)    | (2) MASS                                                                                                       | ANALYSES                                | a. CONCEN- | b. MASS | (1)                       | (2) MASS                  | ANALYSES                  |
| GC/MS FRACTION                                   | - VOLA   | TILE CO | MPOUN  | DS                        | <u> </u>     | CONCENTRATION |           | CONCENTRATION |                                                                                                                |                                         | TRATION    |         | CONCENTRATION             |                           |                           |
| 1V. Acrolein                                     |          |         | (91)   | ND                        |              |               |           |               | and a second |                                         |            |         | ND                        | Ningsteinerst (1997) Adam | <u>e characterita</u>     |
| (107-02-8)                                       | X        |         | X      | (MRL = 20)                |              |               |           |               |                                                                                                                | 1                                       | ug/l       |         | (MRL = 20)                |                           | 1                         |
| 2V. Acrylonitrile<br>(107-13-1)                  | х        |         | х      | ND<br>(MRL = 20)          |              |               |           |               |                                                                                                                | 1                                       | ug/l       |         | <b>ND</b><br>(MRL = 20)   |                           | 1                         |
| 3V. Benzene<br>(71-43-2)                         | х        |         | х      | ND<br>(MRL = 0.25)        |              |               |           |               |                                                                                                                | 1                                       | ug/l       |         | <b>ND</b><br>(MRL = 0.50) |                           | 1                         |
| 4V. Bis (Chloro-<br>methyl) Ether<br>(542-88-1)  | х        |         | х      | <b>ND</b><br>(MRL = 5)    |              |               |           |               |                                                                                                                | 1                                       | ug/i       |         | <b>ND</b><br>(MRL = 5)    |                           | 1                         |
| 5V. Bromoform<br>(75-25-2)                       | х        |         | х      | ND<br>(MRL = 0.3)         |              |               |           |               |                                                                                                                | 1                                       | ug/l       |         | <b>ND</b><br>(MRL = 0.50) |                           | 1                         |
| 6V. Carbon<br>Tetrachloride<br>(56-23-5)         | х        |         | x      | ND<br>(MRL = 0.25)        |              |               |           |               |                                                                                                                | 1                                       | ug/l       |         | <b>ND</b><br>(MRL = 0.50) |                           | 1                         |
| 7V. Chlorobenzene<br>(108-90-7)                  | х        |         | х      | ND<br>(MRL = 0.25)        |              |               |           |               |                                                                                                                | 1                                       | ug/l       |         | <b>ND</b><br>(MRL = 0.50) |                           | 1                         |
| 8V, Chlorodi-<br>bromomethane<br>(124-48-1)      | х        |         | х      | <b>ND</b><br>(MRL = 0.25) |              |               |           |               |                                                                                                                | 1                                       | ug/i       |         | <b>ND</b><br>(MRL = 0.50) |                           | 1                         |
| 9V. Chloroethane<br>(75-00-3)                    | х        |         | х      | ND<br>(MRL = 0.25)        |              |               |           |               |                                                                                                                | 1                                       | ug/l       |         | ND<br>(MRL = 0.50)        |                           | 1                         |
| 10V. 2-Chloro-<br>ethylvinyl Ether<br>(110-75-8) | х        |         | x      | <b>ND</b><br>(MRL = 0.50) |              |               |           |               |                                                                                                                | 1                                       | ug/l       |         | ND<br>(MRL = 1.0)         |                           | 1                         |
| 11V. Chloroform<br>(67-66-3)                     | Х        |         | х      | ND<br>(MRL = 0.25)        |              |               |           |               |                                                                                                                | 1                                       | ug/l       |         | ND<br>(MBL = 0.50)        |                           | 1                         |
| 12V. Dichloro-<br>bromomethane<br>(75-27-4)      | х        |         | х      | <b>ND</b><br>(MRL = 0.25) |              |               |           |               |                                                                                                                | 1                                       | ug/l       |         | ND<br>(MRL = 0.50)        |                           | 1                         |
| 13V. Dichloro-<br>difluoromethane<br>(75-71-8)   | х        |         | х      | <b>ND</b><br>(MRL = 0.25) |              |               |           |               |                                                                                                                | 1                                       | ug/l       |         | <b>ND</b><br>(MRL = 0.50) |                           | 1                         |
| 14V. 1,1-Dichloro-<br>ethane (75-34-3)           | Х        |         | х      | ND<br>(MRL = 0.25)        |              |               |           |               |                                                                                                                | 1                                       | ug/l       |         | ND<br>(MBL = 0.50)        |                           | 1                         |
| 15V. 1,2-Dichloro-<br>ethane (107-06-2)          | Х        |         | х      | ND<br>(MRL = 0.25)        |              |               |           |               |                                                                                                                | 1                                       | ug/l       |         | ND<br>(MRL = 0.50)        |                           | 1                         |
| 16V, 1,1-Dichloro-<br>ethylene (75-35-4)         | х        |         | х      | ND<br>(MRL = 0.25)        |              |               |           |               |                                                                                                                | 1                                       | ug/l       |         | ND<br>(MRL = 0.50.)       | ·····                     | 1                         |
| 17V, 1,2-Dichloro-<br>propane (78-87-5)          | х        |         | х      | ND<br>(MRL = 0.25)        |              |               |           |               |                                                                                                                | 1                                       | ug/l       |         | ND<br>(MRL = 0.50)        |                           | 1                         |
| 18V. 1,3-Dichloro-<br>propylene (542-75-6)       | х        |         | x      | ND<br>(MRL = 0.25)        |              |               |           |               |                                                                                                                | 1                                       | ug/l       |         | ND<br>(MRL = 0.50)        |                           | 1                         |
| 19V. Ethylbenzene<br>(100-41-4)                  | Х        |         | х      | ND<br>(MRL = 0.25)        |              |               |           |               |                                                                                                                | 1                                       | ug/ł       |         | ND<br>(MRL = 0.50)        |                           | 1                         |
| 20V. Methyl<br>Bromide (74-83-9)                 | х        |         | х      | ND<br>(MRL = 0.3)         |              |               |           |               |                                                                                                                | 1                                       | ug/l       |         | ND<br>(MRL = 0.50)        |                           | 1                         |
| 21V. Methyl<br>Chloride (74-87-3)                | X        | ) 95)   | х      | ND<br>(MRL = 0.25)        | <u> </u>     |               |           |               |                                                                                                                | 1                                       | ug/l       |         | ND<br>(MRL = 0.50)        |                           | 1                         |

|                                                                      | (                                      |                                              |                                       |                           | EPA I.D    | . NUMBER (copy                                       | / from Item 1 of fc                                       | JTFA                                           | LL NUMBER                             | 1                          |                              |                                                | Forms by Clean                    | nSW( /n11197;v5                                                                                                | 5.21:11/1/98:s/n222YYYXXX |
|----------------------------------------------------------------------|----------------------------------------|----------------------------------------------|---------------------------------------|---------------------------|------------|------------------------------------------------------|-----------------------------------------------------------|------------------------------------------------|---------------------------------------|----------------------------|------------------------------|------------------------------------------------|-----------------------------------|----------------------------------------------------------------------------------------------------------------|---------------------------|
| CONTINUED FROM                                                       | M PAGE                                 | V-4                                          |                                       | <u></u>                   |            | CAD 07                                               | /7966349                                                  |                                                | 001                                   |                            | Form Ap<br>OMB No<br>Approva | oproved.<br>o. 2040-0086<br>at expires 7-31-88 | Ł                                 |                                                                                                                |                           |
| 1: POLLUTANT<br>AND CAS<br>NUMBER<br>(If available)                  | 2.<br>a. TEST-<br>ING<br>REQUIR-<br>ED | MARK "<br>b: BE-<br>LIEVED<br>PRE-<br>SENT   | X"<br>c. BE-<br>LIEVED<br>AB-<br>SENT | a. MAXIMUM DA             | AILY VALUE | 3.<br>b. MAXIMUM :<br>(if av<br>(1)<br>CONCENTRATION | EFFLUENT<br>30 DAY VALUE<br>ailable)<br>(2) MASS          | C. LONG TERV<br>(// av<br>(1)<br>CONCENTRATION | I AVRG, VALUE<br>ailable)<br>(2) MASS | d. NO. OF<br>ANALYSES      | a. CONCEN-                   | NITS<br>b. MASS                                | 5. IN<br>a. LONG<br>AVERAG<br>(1) | NTAKE (optional<br>3 TERM<br>E VALUE<br>(2) MASS                                                               | b. NO. OF                 |
| GC/MS FRACTION                                                       | - VOLA                                 | TILE CO                                      | MPOUN                                 | DS (continued)            |            |                                                      |                                                           |                                                |                                       | Setting of the set         |                              |                                                | CONCENTRATION                     |                                                                                                                |                           |
| 22V. Methylerie,<br>Chloride (75-09-2)                               | x                                      |                                              | X                                     | ND<br>(MRL = 0.50)        |            |                                                      |                                                           |                                                |                                       | 1                          | ug/l                         |                                                | ND<br>(MRL = 1.0)                 |                                                                                                                | 1                         |
| 23v: 1,1,2,2-1eita-<br>chloroetháne<br>(79-34-5)                     | x                                      |                                              | x                                     | <b>ND</b><br>(MRL = 0.25) |            |                                                      |                                                           |                                                |                                       | 1                          | ug/l                         |                                                | <b>ND</b><br>(MRL = 0.50)         |                                                                                                                | 1                         |
| 24V. Tetrachloro-<br>ethylene (127-18-4)                             | x                                      | <u>                                     </u> | x                                     | ND<br>(MRL = 0.25)        |            |                                                      |                                                           |                                                |                                       | 1                          | ug/l                         |                                                | ND<br>(MRL = 0.50)                |                                                                                                                | 1                         |
| 25V, Toluene<br>(108-88-3)                                           | x                                      | x                                            | !                                     | ND<br>(MRL = 0.25)        |            |                                                      |                                                           |                                                |                                       | 1                          | ug/l                         |                                                | ND<br>(MRL = 0.50)                |                                                                                                                | 1                         |
| 20V: 1,2-11ans-<br>Dichloroethylene<br>(156-60-5)<br>27V: 1 4 1-Tri- | x                                      |                                              | x                                     | ND<br>(MRL = 0.25)        |            |                                                      |                                                           |                                                |                                       | 1                          | ug/l                         |                                                | <b>ND</b><br>(MRL = 0.50)         |                                                                                                                | 1                         |
| 21/3-111510<br>chloroethane<br>(71-55-6)                             | x                                      |                                              | x                                     | <b>ND</b><br>(MRL = 0.25) |            |                                                      |                                                           |                                                |                                       | 1                          | ug/l                         |                                                | <b>ND</b><br>(MRL = 0.50)         |                                                                                                                | 1                         |
| 289, 1,1,2-111-<br>Chloroethane<br>(79-00-5)                         | x                                      |                                              | x                                     | ND<br>(MRL = 0.25)        |            |                                                      |                                                           |                                                |                                       | 1                          | ug/l                         |                                                | ND<br>(MRL = 0.50)                |                                                                                                                | 1                         |
| 29V. Trichloro-<br>ethylene (79-01-6)                                | x                                      |                                              | x                                     | ND<br>(MRL = 0.25)        |            |                                                      |                                                           |                                                |                                       | 1                          | ug/l                         |                                                | ND<br>(MRL = 0.50)                |                                                                                                                | 1                         |
| fluoromethane<br>(75-69-4)                                           | x                                      |                                              | x                                     | ND<br>(MRL = 0.25)        |            |                                                      |                                                           |                                                |                                       | 1                          | ug/l                         |                                                | <b>ND</b><br>(MRL = 0.50)         |                                                                                                                | 1                         |
| STV. Vinyi<br>Chloride (75-01-4)                                     | X                                      |                                              | X                                     | ND<br>(MRL = 0.3)         |            |                                                      |                                                           |                                                |                                       | 1                          | ug/i                         |                                                | ND<br>(MRL = 0.50)                |                                                                                                                | 1                         |
| GC/MS FRACTION                                                       | - ACID C                               | COMPOU                                       | JNDS                                  |                           |            |                                                      | all a fair a fair an ann an |                                                |                                       | and a second second second |                              |                                                |                                   | 19 Augusta                                                                                                     |                           |
| 1A. 2-Chlorophenol<br>(95-57-8)                                      | ×                                      |                                              | X                                     | ND<br>(MRL = 5)           |            |                                                      |                                                           |                                                |                                       | 1                          | ug/i                         |                                                | ND<br>(MRI, = 5)                  | And an and a second | 1                         |
| 2A. 2,4-Dichloro-<br>phenol (120-83-2)                               | X                                      |                                              | X                                     | ND<br>(MRL = 5)           |            |                                                      |                                                           |                                                |                                       | 1                          | ug/l                         |                                                | ND<br>(MRL = 5)                   |                                                                                                                | 1                         |
| 3A. 2,4-Dimethyl-<br>phenol (105-67-9)                               | X                                      | <b> </b>                                     | X                                     | ND<br>(MRL = 5)           |            |                                                      |                                                           |                                                |                                       | 1                          | ug/l                         |                                                | ND<br>(MRL = 5)                   |                                                                                                                | 1                         |
| 4A. 4,6-Difilito-0-<br>Cresol (534-52-1)                             | X                                      |                                              | X                                     | ND<br>(MRL = 20)          |            |                                                      |                                                           |                                                |                                       | 1                          | ug/I                         |                                                | <b>ND</b><br>(MRL = 20)           |                                                                                                                | 1                         |
| phenol (51-28-5)                                                     | X                                      |                                              | X                                     | ND<br>(MRL = 20)          |            |                                                      |                                                           |                                                |                                       | · 1                        | ug/l                         |                                                | ND<br>(MRL = 20)                  |                                                                                                                | 1                         |
| (88-75-5)                                                            | X                                      |                                              | X                                     | ND<br>(MRL = 5)           |            |                                                      |                                                           |                                                |                                       | 1                          | ug/i                         |                                                | ND<br>(MRL = 5)                   |                                                                                                                | 1                         |
| (100-02-7)                                                           | X                                      | ⊢                                            | X                                     | ND<br>(MRL = 20)          |            |                                                      | <br>                                                      |                                                |                                       | 1                          | ug/i                         |                                                | ND<br>(MRL = 20)                  |                                                                                                                | 1                         |
| Cresol (59-50-7)                                                     | X                                      |                                              | X                                     | ND<br>(MRL = 5)           |            |                                                      |                                                           |                                                |                                       | 1                          | ug/l                         |                                                | ND<br>(MRL = 5)                   |                                                                                                                | 1                         |
| phenol (87-86-5)                                                     | X                                      | il                                           | ×                                     | (MRL = 20)                |            |                                                      |                                                           |                                                |                                       | 1                          | ug/l                         |                                                | <b>ND</b><br>(MRL = 20)           |                                                                                                                | 1                         |
| (108-95-2)<br>11A 2.4 6-Tri-                                         | X                                      | X                                            |                                       | ND<br>(MRL = 5)           |            |                                                      |                                                           |                                                |                                       | 1                          | ug/l                         |                                                | ND<br>(MRL = 5)                   |                                                                                                                | 1                         |
| chlorophenol<br>(88-06-2)                                            | ×                                      |                                              | ×                                     | <b>ND</b><br>(MRL = 5)    |            |                                                      |                                                           |                                                |                                       | 1                          | ug/l                         |                                                | ND<br>(MRL = 5)                   |                                                                                                                | 1                         |

| CONTINUED FROM            | 4             | ONT    |           |                                      |           |                                       |                                                                                                                  | ( AD 07                                                                                                                                                                                                                            | 7966349                                 |                         |            |         | Forms by Chem | sw)ph11197;v5; | 1;11/1/98;#/nZZZYYYXXXX                                                                                          |
|---------------------------|---------------|--------|-----------|--------------------------------------|-----------|---------------------------------------|------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-------------------------|------------|---------|---------------|----------------|------------------------------------------------------------------------------------------------------------------|
| 1. POLLUTANT              |               | MARK " | <b>X"</b> |                                      |           |                                       | EFFLUENT                                                                                                         | and the second second                                                                                                                                                                                                              |                                         |                         | 4 ( )      | ITS     | 5.11          | TAKE (optional | and the second |
| AND CAS                   | a. TEST-      | b, BE- | c. BE-    | a. MAXIMUM DA                        | ILY VALUE | b. MAXIMUM 30                         | DAY VALUE                                                                                                        | c. LONG TERM                                                                                                                                                                                                                       | AVRG. VALUE                             | A COMPANY AND A COMPANY |            |         | a LON(        | TERM           | Versional 25 Aug                                                                                                 |
| NUMBER                    | ING           | LIEVED | LIEVED    | A. A. State of the strength of solid |           | (if ava                               | allable)                                                                                                         | (if ava                                                                                                                                                                                                                            | ilable)                                 | d. NO. OF               |            |         | AVERAG        | E VALUE        | b. NO. OF                                                                                                        |
| (ii avaliable)            | REQUIR-       | PRE-   | AB-       |                                      | (2) MASS  | (1)                                   | (2) MASS                                                                                                         | (1)                                                                                                                                                                                                                                | (2) MASS                                | ANALYSES                | a. CONCEN- | b. MASS | (1).          | (2) MASS       | ANALYSES                                                                                                         |
| GC/MS FRACTION            | - BASE/       | NEUTRA | L COM     | POUNDS                               |           | CONCENTRATION                         |                                                                                                                  | CONCENTRATION                                                                                                                                                                                                                      |                                         |                         | TRATION    |         | CONCENTRATION | (2) WA33       |                                                                                                                  |
| 1B. Acenaphthene          |               |        | <u></u>   |                                      |           |                                       |                                                                                                                  | 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -<br>1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - |                                         |                         |            |         |               |                |                                                                                                                  |
| (83-32-9)                 | Х             |        | Х         | (MRL = 5)                            |           |                                       |                                                                                                                  |                                                                                                                                                                                                                                    |                                         | 1                       | ug/I       |         | ND            |                | 1                                                                                                                |
| 2B. Acenaphthylene        | v             |        | ~         | ND ND                                |           | · · · · · · · · · · · · · · · · · · · |                                                                                                                  |                                                                                                                                                                                                                                    |                                         |                         |            |         | (MRL = 5)     | ·····          |                                                                                                                  |
| (208-96-8)                | ^             |        | X         | (MRL = 5)                            |           | ]                                     |                                                                                                                  |                                                                                                                                                                                                                                    |                                         | 1                       | ug/I       |         |               |                | 1                                                                                                                |
| 3B. Anthracene            | x             |        | x         | ND                                   |           |                                       |                                                                                                                  |                                                                                                                                                                                                                                    |                                         |                         |            |         | ND            |                |                                                                                                                  |
| (120-12-7)                | ~~~~          |        |           | (MRL = 5)                            |           |                                       |                                                                                                                  |                                                                                                                                                                                                                                    |                                         | 1                       | ug/i       |         | (MRI = 5)     |                | 1                                                                                                                |
| 45. Benzialne             | х             |        | х         | ND                                   |           |                                       |                                                                                                                  |                                                                                                                                                                                                                                    |                                         | 1                       | uall       |         | ND            |                | 4                                                                                                                |
| (92-07-3)<br>58 Benzo (a) |               |        |           | (MRL = 50)                           |           |                                       |                                                                                                                  |                                                                                                                                                                                                                                    |                                         | 1                       | uy/i       |         | (MRL = 50)    |                | 1                                                                                                                |
| Anthracene                | x             |        | Y         | ND                                   |           |                                       |                                                                                                                  |                                                                                                                                                                                                                                    |                                         |                         |            |         | ND            |                |                                                                                                                  |
| (56-55-3)                 |               |        | ~         | (MRL = 5)                            |           |                                       |                                                                                                                  |                                                                                                                                                                                                                                    |                                         | 1                       | ug/i       |         | (MRI = 5)     |                | 1                                                                                                                |
| 6B. Benzo (a)             | × ×           |        |           | ND                                   |           |                                       |                                                                                                                  |                                                                                                                                                                                                                                    |                                         |                         |            |         |               |                |                                                                                                                  |
| Pyrene (50-32-8)          | X             |        | х         | (MRL = 5)                            |           |                                       |                                                                                                                  |                                                                                                                                                                                                                                    |                                         | 1                       | ug/l       |         | ND            |                | 1                                                                                                                |
| 7B. 3,4-Benzo-            |               |        |           | ND                                   |           |                                       |                                                                                                                  |                                                                                                                                                                                                                                    |                                         |                         |            |         | (MRL = 5)     |                |                                                                                                                  |
| flouranthene              | Х             |        | х         |                                      |           |                                       |                                                                                                                  |                                                                                                                                                                                                                                    |                                         | 1                       | ua/l       |         | ND            |                | 1                                                                                                                |
| (205-99-2)                |               |        |           | (WINC - 0)                           |           |                                       |                                                                                                                  |                                                                                                                                                                                                                                    |                                         |                         | u gr       |         | (MRL = 5)     |                | •                                                                                                                |
| 8B, Benzo (ghi)           |               |        |           | ND                                   |           |                                       |                                                                                                                  |                                                                                                                                                                                                                                    |                                         |                         |            |         |               |                |                                                                                                                  |
| Perviene                  | ×             |        | х         | (MR1 = 5)                            |           |                                       |                                                                                                                  |                                                                                                                                                                                                                                    |                                         | 1                       | ug/l       |         | ND            |                | 1                                                                                                                |
| (191*24-2)                |               |        |           | (                                    |           |                                       |                                                                                                                  |                                                                                                                                                                                                                                    |                                         |                         | -          |         | (MRL = 5)     |                |                                                                                                                  |
| Flouranthene              | Y             |        | v         | ND                                   |           |                                       |                                                                                                                  |                                                                                                                                                                                                                                    |                                         |                         |            |         | ND            |                |                                                                                                                  |
| (207-08-9)                |               |        | ^         | (MRL ≈ 5)                            |           |                                       |                                                                                                                  |                                                                                                                                                                                                                                    |                                         | 1                       | ug/l       |         |               |                | 1                                                                                                                |
| 10B. Bis (2-Chloro-       |               | 1      |           |                                      | ·····     |                                       |                                                                                                                  |                                                                                                                                                                                                                                    |                                         |                         |            |         | (IMILE = 5)   | ·······        |                                                                                                                  |
| ethoxy) Methane           | X             |        | Х         | ND                                   |           |                                       |                                                                                                                  |                                                                                                                                                                                                                                    |                                         | 1                       | 100/1      |         | ND            |                |                                                                                                                  |
| (111-91-1)                |               |        |           | (MRL = 5)                            |           |                                       |                                                                                                                  |                                                                                                                                                                                                                                    |                                         | •                       | ugn        |         | (MRL = 5)     |                | 1                                                                                                                |
| 11B. Bis (2-Chioro-       | v             | I      | v         | ND                                   |           |                                       |                                                                                                                  |                                                                                                                                                                                                                                    |                                         |                         |            |         |               |                |                                                                                                                  |
|                           | _ ^           |        | X         | (MRL = 5)                            |           |                                       |                                                                                                                  |                                                                                                                                                                                                                                    |                                         | 1                       | ug/l       |         | ND            |                | 1                                                                                                                |
| 12B. Bis (2-Chloro-       |               |        |           |                                      |           | · · · · · · · · · · · · · · · · · · · |                                                                                                                  |                                                                                                                                                                                                                                    |                                         |                         |            |         | (MRL = 5)     |                |                                                                                                                  |
| isopropyl) Ether          | х             |        | х         | ND                                   |           |                                       |                                                                                                                  |                                                                                                                                                                                                                                    |                                         |                         |            |         | ND            |                |                                                                                                                  |
| (102-60-1)                |               |        |           | (MRL = 5)                            |           |                                       |                                                                                                                  |                                                                                                                                                                                                                                    |                                         | 1                       | ug/I       |         | (MRL = 5)     |                | 1                                                                                                                |
| 13B. Bis (2-Chloro-       |               |        |           | ND                                   |           |                                       |                                                                                                                  |                                                                                                                                                                                                                                    | • • • • • • • • • • • • • • • • • • • • |                         |            |         | (             |                |                                                                                                                  |
| ethyl) Phthalate          | Х             |        | X         | (MRL = 5)                            |           |                                       |                                                                                                                  |                                                                                                                                                                                                                                    |                                         | 1                       | υα/Ι       |         | ND            |                | 1                                                                                                                |
| (117-81-7)<br>1/B / Brome |               |        |           | (MILE = 5)                           |           |                                       |                                                                                                                  |                                                                                                                                                                                                                                    |                                         |                         |            |         | (MRL = 5)     |                | . 1                                                                                                              |
| nhenvl Phenvl             | x             |        | Y         | ND                                   |           |                                       |                                                                                                                  |                                                                                                                                                                                                                                    |                                         |                         |            |         | ND            |                |                                                                                                                  |
| Ether (101-55-3)          |               |        | ^         | (MRL = 5)                            |           |                                       |                                                                                                                  |                                                                                                                                                                                                                                    |                                         | 1                       | ug/l       |         | (MPL = 5)     |                | 1                                                                                                                |
| 15B. Butyl Benzyl         | ~             |        |           | ND                                   |           |                                       |                                                                                                                  |                                                                                                                                                                                                                                    |                                         |                         |            |         |               |                |                                                                                                                  |
| Phthalate (85-68-7)       | ^             |        | X         | (MRL = 5)                            |           |                                       |                                                                                                                  |                                                                                                                                                                                                                                    |                                         | 1                       | ug/l       |         | ND            |                | 1                                                                                                                |
| 16B. 2-Chloro-            |               |        |           | ND                                   |           |                                       |                                                                                                                  |                                                                                                                                                                                                                                    |                                         |                         | ·          |         | (MRL = 5)     |                |                                                                                                                  |
| napthalene                | X             |        | X         | (MRI = 5)                            |           |                                       |                                                                                                                  |                                                                                                                                                                                                                                    |                                         | 1                       | ua/l       |         | ND            |                | 1                                                                                                                |
| (91-38-7)<br>178 4 Chloro |               |        |           | (MIXE = 0)                           | ·         |                                       |                                                                                                                  |                                                                                                                                                                                                                                    |                                         |                         | -3.1       |         | (MRL = 5)     |                | · 1                                                                                                              |
| nhenvi Phenvi             | x             |        | Y         | ND                                   |           |                                       |                                                                                                                  | l l                                                                                                                                                                                                                                |                                         |                         |            |         | ND            |                |                                                                                                                  |
| Ether (7005-72-3)         |               | 1      |           | (MRL = 5)                            |           |                                       |                                                                                                                  |                                                                                                                                                                                                                                    |                                         | 1                       | ug/i       |         |               |                | 1                                                                                                                |
| 18B. Chrysene             | ~             |        |           | ND                                   |           |                                       |                                                                                                                  |                                                                                                                                                                                                                                    |                                         |                         |            |         |               |                |                                                                                                                  |
| (218-01-9)                | _ ^           |        | X         | (MRL = 5)                            | ļ         |                                       |                                                                                                                  |                                                                                                                                                                                                                                    |                                         | 1                       | ug/l       |         | ND            |                | 1                                                                                                                |
| 19B. Dibenzo (a,h)        |               |        |           | ND                                   |           |                                       |                                                                                                                  |                                                                                                                                                                                                                                    |                                         |                         |            |         | (MRL = 5)     |                |                                                                                                                  |
| Anthracene                | X             |        | X         |                                      |           |                                       |                                                                                                                  |                                                                                                                                                                                                                                    |                                         | 1                       | ua/i       |         | ND            |                | 1                                                                                                                |
| (53-70-3)                 |               |        |           |                                      |           |                                       |                                                                                                                  |                                                                                                                                                                                                                                    |                                         |                         |            |         | (MRL = 5)     |                | • ]                                                                                                              |
| henzene (95-50-1)         | X             | I      | X         |                                      |           |                                       |                                                                                                                  |                                                                                                                                                                                                                                    |                                         | 1                       | uu/l       |         | ND            |                | 1                                                                                                                |
| 21B. 1,3-Dichloro-        | <del></del> † |        |           | <u>(MIKL = 5)</u>                    |           |                                       |                                                                                                                  |                                                                                                                                                                                                                                    |                                         | ····                    |            |         | (MRL = 5)     |                |                                                                                                                  |
| benzene (541-73-1)        | ×             |        | X         | (MRL = 5)                            | 1         |                                       |                                                                                                                  |                                                                                                                                                                                                                                    |                                         | 1                       | ug/i       |         | ND            |                | 1                                                                                                                |
| DA EODM 2510 20           | (Day 0        | 05)    |           |                                      |           |                                       | and the second |                                                                                                                                                                                                                                    |                                         |                         | -          |         | (MRL = 5)     |                | 1                                                                                                                |

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|                                                                 | (              |        |                 |                         | EPA I.D. NUMBER (copy from Item 1 of form |                   |                   |                                        |                           |                                                                                                                | R<br>Form Approved.<br>OMB No. 2040-00 |                                          |                        | Forms by ChemSV     |                       |
|-----------------------------------------------------------------|----------------|--------|-----------------|-------------------------|-------------------------------------------|-------------------|-------------------|----------------------------------------|---------------------------|----------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------------------|------------------------|---------------------|-----------------------|
| CONTINUED FROM                                                  | PAGE V         | -6     |                 |                         |                                           | CAD 077           | 966349            |                                        | 001                       | 1                                                                                                              | OMB No<br>Approva                      | ), 2040-0086<br>I expires 7-31-88        | 5                      |                     |                       |
| 1. POLLUTANT                                                    | 2.             | MARK " | X <sup>41</sup> |                         | an a  | 3. E              | FFLUENT           |                                        |                           | land a state of the | 4. U                                   | VITS                                     | 5, IN                  | TAKE (optional)     | and the second        |
| AND CAS                                                         | a. TEST-       | b. BÉ- | c. BE-          | a. MAXIMUM DAIL         | Y VALUE                                   | b. MAXIMUM 30     | DAY VALUE         | c. LONG TERM                           | AVRG. VALUE               |                                                                                                                |                                        | an a | a. LONO                | TERM                |                       |
| NUMBER<br>(If available)                                        | ING<br>REQUIR- | LIEVED | LIEVED<br>ÅB-   | (1)                     | (2) MASS                                  | (if avail)<br>(1) | able)<br>(2) MASS | (if av.<br>(1)                         | illable)<br>(2) MASS      | d. NO. OF<br>ANALYSES                                                                                          | a. CONCEN-                             | b. MASS                                  | AVERAG                 | E VALUE<br>(2) MASS | b. NO. OF<br>ANALYSES |
| COME EDACTION                                                   | ED ED          | SENT   | SENT            |                         |                                           | CONCENTRATION     |                   | CONCENTRATION                          |                           |                                                                                                                | TRATION                                |                                          | CONCENTRATION          |                     |                       |
| 22B 1 4-Dichloro-                                               | - DASCA        | CUIRA  |                 |                         | <b>0</b>                                  |                   |                   | ger film i Statestyne (n. 1913).       | a hijik operation of some |                                                                                                                |                                        |                                          | ND                     |                     |                       |
| benzene (106-46-7)                                              | X              |        | Х               | (MRL = 5)               |                                           |                   |                   |                                        |                           | 1                                                                                                              | ug/l                                   |                                          | (MRL = 5)              |                     | 1                     |
| benzidine<br>(91-94-1)                                          | х              |        | х               | ND<br>(MRL = 10)        |                                           |                   |                   | ······································ |                           | 1                                                                                                              | ug/l                                   |                                          | ND<br>(MRL = 10)       |                     | 1                     |
| 24B. Diethyl<br>Phthalate<br>(84-66-2)                          | x              |        | х               | <b>ND</b><br>(MRL = 5)  |                                           |                   |                   |                                        |                           | 1                                                                                                              | ug/l                                   |                                          | ND<br>(MRL = 5)        |                     | 1                     |
| 25B. Dimethyl<br>Phthalate<br>(131-11-3)                        | x              |        | х               | <b>ND</b><br>(MRL = 5)  |                                           |                   |                   |                                        |                           | 1                                                                                                              | ug/l                                   |                                          | <b>ND</b><br>(MRL = 5) |                     | 1                     |
| 26B. DI-N-Butyl<br>Phthalate<br>(84-74-2)                       | x              |        | х               | <b>ND</b><br>(MRL = 5)  |                                           |                   |                   |                                        |                           | 1                                                                                                              | ug/l                                   |                                          | ND<br>(MRL = 5)        |                     | 1                     |
| 27B. 2,4-Dinitro-<br>toluene (121-14-2)                         | х              |        | х               | ND<br>(MRL = 10)        |                                           |                   |                   |                                        |                           | 1                                                                                                              | ug/l                                   |                                          | ND<br>(MRL = 5)        |                     | 1                     |
| 28B. 2,6-Dinitro-<br>toluene (606-20-2)                         | х              |        | х               | ND<br>(MRL = 10)        |                                           |                   |                   |                                        |                           | 1                                                                                                              | ug/l                                   |                                          | ND<br>(MRL = 5)        |                     | 1                     |
| 29B. DI-N-Octyl<br>Phthalate<br>(117-84-0)                      | х              |        | х               | <b>ND</b><br>(MRL = 5)  |                                           |                   |                   |                                        |                           | 1                                                                                                              | ug/l                                   |                                          | ND<br>(MRL = 5)        |                     | 1                     |
| 30B: 1,2-Diphenyl-<br>hydrazine (as Azo-<br>benzene) (122-66-7) | х              |        | х               | <b>ND</b><br>(MRL = 10) |                                           |                   |                   |                                        |                           | 1                                                                                                              | ug/l                                   |                                          | ND<br>(MRL = 10)       |                     | 1                     |
| 31B. Fluorathene<br>(206-44-0)                                  | х              |        | х               | ND<br>(MRL = 5)         |                                           |                   |                   |                                        |                           | 1                                                                                                              | ug/l                                   |                                          | ND<br>(MRL = 5)        |                     | 1                     |
| 32B. Fluorene<br>(86-73-7)                                      | х              |        | х               | ND<br>(MRL = 5)         |                                           |                   |                   |                                        |                           | 1                                                                                                              | ug/l                                   |                                          | (MRI = 5)              |                     | 1                     |
| 33B. Hexachloro-<br>benzene (118-74-1)                          | х              |        | х               | ND<br>(MRL = 5)         |                                           |                   |                   |                                        |                           | 1                                                                                                              | ug/l                                   |                                          | ND<br>(MRL = 5)        |                     | 1                     |
| 34B. Hexa-<br>chlorobutadiene<br>(87-68-3)                      | x              |        | х               | <b>ND</b><br>(MRL = 5)  |                                           |                   |                   |                                        |                           | 1                                                                                                              | ug/l                                   |                                          | <b>ND</b><br>(MRL = 5) |                     | 1                     |
| 35B. Hexachloro-<br>cyclopentadiene<br>(77-47-4)                | x              |        | х               | <b>ND</b><br>(MRL = 10) |                                           |                   |                   |                                        |                           | 1                                                                                                              | ug/l                                   |                                          | ND<br>(MRL = 10)       |                     | 1                     |
| 36B. Hexachloro-<br>ethane (67-72-1)                            | x              |        | Х               | ND<br>(MRL = 5)         | ······································    |                   |                   |                                        |                           | 1                                                                                                              | ug/l                                   |                                          | ND<br>(MRL = 5)        |                     | 1                     |
| 37B. Indeno<br>(1,2,3- <i>cd)</i> . Pyrene<br>(193-39-5)        | х              |        | х               | <b>ND</b><br>(MRL = 5)  |                                           |                   |                   |                                        |                           | 1                                                                                                              | ug/l                                   |                                          | ND<br>(MRL = 5)        |                     | 1                     |
| 38B. Isophorone<br>(78-59-1)                                    | x              |        | х               | ND<br>(MRL = 5)         |                                           |                   |                   |                                        |                           | 1                                                                                                              | ug/l                                   |                                          | ND<br>(MRI = 5)        |                     | 1                     |
| 39B. Naphthalene<br>(91-20-3)                                   | х              |        | х               | ND<br>(MRL = 5)         |                                           |                   |                   |                                        |                           | 1                                                                                                              | ug/l                                   |                                          | (MRL = 5)              |                     | 1                     |
| 40B, Nitrobenzene<br>(98-95-3)                                  | х              |        | х               | ND<br>(MRL = 5)         |                                           |                   |                   |                                        |                           | 1                                                                                                              | ug/l                                   |                                          | ND<br>(MRI = 5)        |                     | 1                     |
| 41B. N-Nitro-<br>sodimethylamine<br>(62-75-9)                   | x              |        | х               | <b>ND</b><br>(MRL = 10) |                                           |                   |                   |                                        |                           | 1                                                                                                              | ug/l                                   |                                          | ND<br>(MRL = 10)       |                     | 1                     |
| 42B. N-Nitrosodi- N-<br>Propylamine<br>(621-64-7)               | x              |        | х               | <b>ND</b><br>(MRL = 5)  |                                           |                   |                   |                                        |                           | 1                                                                                                              | ug/l                                   |                                          | <b>ND</b><br>(MRL = 5) |                     | 1                     |

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| CONTINUED FROM                         | <u>n</u>   | ONT      |          |                           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       | ( AD 07       | 7966349    |                                      |             |                                                                                                                  | Forma by Cleen                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | sw. p/n11197.55.             | 21:11/1/98:5/n222000000 |
|----------------------------------------|------------|----------|----------|---------------------------|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|---------------|------------|--------------------------------------|-------------|------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-------------------------|
| 1. POLLUTANT                           | 23 - Z3    | MARK "   | X"       | Landres (Construction)    |           | 3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | EFELUENT              |               |            |                                      | 101         | MITS                                                                                                             | 5 IA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ITAL CONFINENCE              |                         |
| AND CAS                                | a. TEST-   | b. BE-   | c. BE-   | a. MAXIMUM DA             | ILY VALUE | b. MAXIMUM 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | DAY VALUE             | C. LONG TERM  | AVRG VALUE |                                      | <u>4; U</u> |                                                                                                                  | 0, II                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | TEDM                         |                         |
| NUMBER                                 | ING        | LIEVED   | LIEVED   |                           |           | (if ave                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | illable)              | (if ava       | ilable)    | d NO OF                              |             | a summer prototion of the                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                              | NO OF                   |
| (if available)                         | REQUIR-    | PRE-     | AB-      |                           | (2) MASS  | (1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | (2) MASS              | (1)           | (2) MASS   | ANALYSES                             | a. CONCEN-  | b. MASS                                                                                                          | (1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | /21MARS                      | ANALYSES                |
| GC/MS FRACTION                         | - BASE/    | NEUTRA   |          | POLINDS (contin           | uad)      | CONCENTRATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                       | CONCENTRATION |            | and a stranger second second         | TRATION     |                                                                                                                  | CONCENTRATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | (2) MASS                     |                         |
| 43B. N-Nitro-                          |            | <u> </u> |          |                           | 150       | And the second sec | All the second second |               |            | A STREET STREET STREET STREET STREET |             | Second for the second | Part of the second seco | and the second second second |                         |
| sodiphenylamine<br>(86-30-6)           | х          |          | Х        | <b>ND</b><br>(MRL = 5)    |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |               |            | 1                                    | ug/l        |                                                                                                                  | ND<br>(MRL = 5)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                              | 1                       |
| 44B. Phenanthrene<br>(85-01-8)         | х          |          | Х        | ND<br>(MRL = 5)           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |               |            | 1                                    | ug/l        |                                                                                                                  | ND                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <u> </u>                     | 1                       |
| 45B. Pyrene<br>(129-00-0)              | х          |          | х        |                           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |               |            | 1                                    |             |                                                                                                                  | (MRL = 5)<br>ND                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                              | 4                       |
| 46B. 1,2,4-Tri-                        | x          |          |          | ND                        |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |               |            |                                      |             |                                                                                                                  | (MRL = 5)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                              | 1                       |
| (120-82-1)                             |            |          | ^        | (MRL = 5)                 |           | State Landson and Management                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                       |               |            | 1                                    | ug/l        |                                                                                                                  | (MRL = 5)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                              | 1                       |
| GUINS FRACTION                         | - PESTIC   | JDES     |          |                           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |               |            |                                      |             |                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                              |                         |
| 1P. Aldrin<br>(309-00-2)               |            |          | Х        | ND<br>(MRL = 0.02)        |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |               |            | 1                                    | ug/i        | <u></u>                                                                                                          | ND<br>(MRL = 0.02)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                              | 1                       |
| 2Ρ. α-BHC<br>(319-85-7)                |            |          | х        | ND<br>(MRL = 0.02)        |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |               |            | 1                                    | ug/l        |                                                                                                                  | ND                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                              | 1                       |
| 3P.ß-BHC<br>(319-85-7)                 |            |          | Х        | ND<br>(MRL = 0.02)        |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |               |            | 1                                    | uq/l        |                                                                                                                  | (MRL = 0.02)<br>ND                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                              | 1                       |
| 4P. γ-BHC<br>(58-89-9)                 |            |          | х        | ND<br>(MRL = 0.02)        |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |               |            | 1                                    | ua/I        |                                                                                                                  | (MRL = 0.02)<br>ND                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                              |                         |
| 5P. δ-BHC<br>(319-86-8)                |            |          | х        | ND                        |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |               |            | 1                                    |             |                                                                                                                  | (MRL = 0.02)<br>ND                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                              |                         |
| 6P. Chlordane (57-                     |            |          | <u>х</u> | (MRL = 0.02)<br>ND        |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |               |            |                                      | ug/i        |                                                                                                                  | (MRL = 0.02)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                              | 1                       |
| 74-9)<br>7P. 4,4'-DDT                  |            |          | <b>x</b> | (MRL = 0.2)<br>ND         | ·····     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ·                     |               |            | 1                                    | ug/I        |                                                                                                                  | (MRL = 0.2)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                              | 1                       |
| (50-29-3)<br>8P. 4,4'-DDE              |            |          | <br>     | (MRL = 0.02)              |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |               | ·          | 1                                    | ug/l        |                                                                                                                  | (MRL = 0.02)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                              | 1                       |
| (72-55-9)<br>9P 44'-000                |            |          |          | (MRL = 0.02)              |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ·····                 |               |            | 1                                    | ug/l        |                                                                                                                  | ND<br>(MRL = 0.02)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                              | 1                       |
| (72-54-8)                              |            |          | X        | (MRL ≈ 0.02)              |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |               |            | 1                                    | ug/l        |                                                                                                                  | ND<br>(MRL = 0.02)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                              | 1                       |
| (60-57-1)                              |            |          | Х        | ND<br>(MRL = 0.02)        |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |               |            | 1                                    | ug/l        |                                                                                                                  | ND<br>(MRL = 0.02)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                              | 1                       |
| 11P. α-Endosulfan<br>(115-29-7)        |            |          | х        | ND<br>(MRL = 0.02)        |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |               |            | 1                                    | ug/l        |                                                                                                                  | $\frac{ND}{(MBL = 0.02)}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                              | 1                       |
| 12P. ß-Endosulfan<br>(115-29-7)        |            |          | х        | ND<br>(MRL = 0.02)        |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |               |            | 1                                    | ug/l        |                                                                                                                  | ND                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                              | 1                       |
| 13P: Endosulfan<br>Sulfate (1031-07-8) |            |          | х        | ND<br>(MRL = 0.02)        |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |               |            | 1                                    | ug/l        |                                                                                                                  | (MIKL = 0.02)<br>ND                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                              | 1                       |
| 14P. Endrin<br>(72-20-8)               |            |          | х        | $\frac{ND}{(MRL = 0.02)}$ |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |               |            | 1                                    |             |                                                                                                                  | (MRL = 0.02)<br>ND                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                              |                         |
| 15P. Endrin<br>Aldehvde                |            |          | x        | ND                        |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |               |            |                                      |             |                                                                                                                  | (MRL = 0.02)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                              | ·                       |
| (7421-93-4)<br>16P. Hentechlor         |            |          |          | (MRL = 0.02)              |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |               |            | 1                                    | ug/l        |                                                                                                                  | (MRL = 0.02)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                              | 1                       |
| (75-44-8)                              | (Day 0     | 05)      | х        | ND<br>(MRL = 0.02)        |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |               |            | 1                                    | ug/l        |                                                                                                                  | ND<br>(MRL = 0.02)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                              | 1                       |
|                                        | - (Rev. 2- | 00)      |          |                           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       | PAGE V-8 (Out | fall 001)  |                                      |             |                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ONTINUE ON P                 | AGE V-9                 |

|                                           | (        |                |             |                      | EPA I                        | D. NUMBER (copy      | from Item 1 of f     |                                                                                                                  | LL NUMBER                             | 1        |                                       |                                               | Forms by Cherr            | stw. phi11197.v5      | 21;11/1/08;5/n222YYYXXXX   |
|-------------------------------------------|----------|----------------|-------------|----------------------|------------------------------|----------------------|----------------------|------------------------------------------------------------------------------------------------------------------|---------------------------------------|----------|---------------------------------------|-----------------------------------------------|---------------------------|-----------------------|----------------------------|
| CONTINUED FRO                             | M PAGE   | V-8            |             |                      |                              | CAD 07               | 7966349              |                                                                                                                  | 001                                   |          | Form Ap<br>OMB No<br>Approva          | oproved.<br>5. 2040-0086<br>Il expires 7-31-8 | 8                         |                       |                            |
| 1. POLLUTANT                              | - 2      | . MARK         | "X"         |                      | nt (sprage grand damendaria) | 3.                   | EFFLUENT             |                                                                                                                  |                                       |          | 4. U                                  | NITS                                          | 5.1                       | <b>TAKE</b> (optional |                            |
| AND CAS<br>NUMBER                         | a, TEST  | b. BE-         | c. BE-      | a. MAXIMUM DA        | ILY VALUE                    | b. MAXIMUM 30        |                      | c. LONG TERM                                                                                                     |                                       | d NO OF  |                                       |                                               | a. LON                    | G TERM<br>E VALUE     | b NO OF                    |
| (if available)                            | REQUIR   | - PRE-<br>SENT | AB-<br>SENT | (1)<br>CONCENTRATION | (2) MASS                     | (1)<br>CONCENTRATION | (2) MASS             | (1)<br>CONCENTRATION                                                                                             | (2) MASS                              | ANALYSES | a. CONCEN-<br>TRATION                 | b. MASS                                       | (1)<br>CONCENTRATION      | (2) MASS              | ANALYSES                   |
| GC/MS FRACTIO                             | N-PEST   | ICIDES (       | continu     | ed)                  |                              |                      | N STRAGEN IN ADDRESS | and the second |                                       |          |                                       |                                               |                           | and the state of the  | . Salati Sociali di Salati |
| 17P. Heptachlor<br>Epoxide<br>(1024-57-3) |          |                | x           | ND<br>(MRL = 0.02)   |                              |                      |                      |                                                                                                                  |                                       | 1        | ug/l                                  |                                               | <b>ND</b><br>(MRL = 0.02) |                       | 1                          |
| 18P. PCB-1242<br>(53469-21-9)             |          |                | x           | ND<br>(MRL = 0.2)    |                              |                      |                      |                                                                                                                  | · · · · · · · · · · · · · · · · · · · | 1        | ug/l                                  |                                               | ND<br>(MRL = 0.2)         |                       | 1                          |
| 19P. PCB-1254<br>(11097-69-1)             |          |                | x           | ND<br>(MRL = 0.2)    |                              |                      |                      |                                                                                                                  |                                       | 1        | ug/l                                  |                                               | ND<br>(MRL = 0.2)         |                       | 1                          |
| 20P. PCB-1221<br>(11104-28-2)             |          |                | x           | ND<br>(MRL = 0.2)    |                              |                      |                      |                                                                                                                  |                                       | 1        | ug/l                                  |                                               | ND<br>(MRL = 0.2)         |                       | 1                          |
| 21P. PCB-1232<br>(11141-16-5)             |          |                | х           | ND<br>(MRL = 0.2)    |                              |                      |                      |                                                                                                                  |                                       | 1        | ug/l                                  |                                               | ND<br>(MRL = 0.2)         |                       | 1                          |
| 22P. PCB-1248<br>(12672-29-6)             |          |                | x           | ND<br>(MRL = 0.2)    |                              |                      |                      |                                                                                                                  |                                       | 1        | ug/l                                  |                                               | ND<br>(MRL = 0.2)         |                       | 1                          |
| 23P. PCB-1260<br>(11096-82-5)             |          |                | х           | ND<br>(MRL = 0.2)    |                              |                      |                      |                                                                                                                  |                                       | 1        | ug/l                                  |                                               | ND<br>(MRL = 0.2)         |                       | 1                          |
| 24P. PCB-1016<br>(12674-11-2)             |          |                | х           | ND<br>(MRL = 0.2)    |                              |                      |                      |                                                                                                                  |                                       | 1        | ug/l                                  |                                               | ND<br>(MRL = 0.2)         |                       | 1                          |
| 25P. Toxaphene<br>(8001-35-2)             |          |                | x           | ND<br>(MRL = 0.5)    |                              |                      |                      |                                                                                                                  |                                       | 1        | ug/l                                  |                                               | ND<br>(MRL = 0.5)         |                       | 1                          |
| EPA FORM 3510-                            | 2C (Rev. | 2-85)          |             |                      |                              |                      |                      | PAGE V-9 (Ou                                                                                                     | tfall 001)                            | •••      | · · · · · · · · · · · · · · · · · · · | · · · · · · · · · · · · · · · · · · ·         |                           |                       | •                          |

PAGE V-9 (Outfall 001)

PLEASE PRINT O, , PE IN THE UNSHADED AREAS ONLY. You report some or all of this information on separate sheets (use the same format) instead of completing these pages. SEE INSTRUCTIONS.

### . NUMBER (copy from Item 1 of Form 1)

CAD 077966349

Form Approved. OMB No. 2040-0086 Approval expires 7-31-88

Forms by Cherna

15;pin11197;v5 21;11/1/98;s/nZZZYYYXXX

| V. INTAKE AN                | D EFFL                                  | UENT C                               | HARACTEI                                    | RISTICS (cor                                        | tinued from                                | page 3                              | of Form 2-C,                                      |                                               |                                         |                                      |                                    |                                                   |                                         |                                                     |                                               |                                          |                                                |                                       |                                 | OUTFALL NO<br>002                        |
|-----------------------------|-----------------------------------------|--------------------------------------|---------------------------------------------|-----------------------------------------------------|--------------------------------------------|-------------------------------------|---------------------------------------------------|-----------------------------------------------|-----------------------------------------|--------------------------------------|------------------------------------|---------------------------------------------------|-----------------------------------------|-----------------------------------------------------|-----------------------------------------------|------------------------------------------|------------------------------------------------|---------------------------------------|---------------------------------|------------------------------------------|
| PART A - You I              | must pro                                | ovide the                            | résults of a                                | it least one a                                      | nalysis for e<br>2, E                      | very pol                            | lutant in this<br>NT                              | table. Com                                    | plete one                               | table for (                          | each out                           | tfall. See ins                                    | structions                              | for additional<br>3. UN                             | details<br>IITS                               |                                          |                                                | 4. INTAK                              | E (optional)                    | an a |
| 1. POLLOT                   |                                         | a. MAX                               |                                             | Y VALUE                                             | b. MAXIN                                   | MUM 30<br>(if ava                   | DAY VALUE<br>ilable)                              | c. LON                                        | IG TERM .<br>(if aveilable<br>(1)       | AVRG, V.<br>י)<br>I                  | ALUE                               | d. NO. C                                          | F                                       | (specify )                                          | f blank)                                      |                                          | a. LONG<br>AVERAG                              | G TERM<br>E VALUE                     |                                 | b. NO. OF                                |
|                             |                                         | CONCEN                               | TRATION                                     | (2) MASS                                            | CONCENT                                    | RATION                              | (2) MASS                                          | CONCE                                         | NTRATION                                | (2) M                                | IASS                               | 100010                                            |                                         | RATION                                              | b. MASS                                       | CON                                      | CENTRATION                                     | (2) MA                                | SS                              | ANALIGES                                 |
| a. Biochemical<br>Demand (B | Oxygen<br>OD)                           | (MR                                  | <b>ID</b><br>L = 4)                         |                                                     |                                            |                                     |                                                   |                                               |                                         |                                      |                                    | 1                                                 |                                         | mg/i                                                |                                               | ()                                       | <b>ND</b><br>//RL = 4)                         |                                       |                                 | 1                                        |
| b. Chemical C<br>Demand (C  | Dxygen<br>OD)                           | 1                                    | 39                                          |                                                     |                                            |                                     |                                                   |                                               |                                         |                                      |                                    | 1                                                 |                                         | mg/l                                                |                                               |                                          | 449                                            |                                       |                                 | 1                                        |
| c. Total Org<br>Carbon (To  | ianic<br>DC)                            | 0                                    | .9                                          |                                                     |                                            |                                     |                                                   |                                               |                                         |                                      |                                    | 1                                                 |                                         | mg/l                                                |                                               |                                          | 0.9                                            |                                       |                                 | 1                                        |
| d. Total Susp<br>Solids (TS | ended<br>SS)                            |                                      | 8                                           |                                                     |                                            |                                     |                                                   |                                               | ·                                       |                                      |                                    | 1                                                 |                                         | mg/l                                                |                                               | (1                                       | <b>ND</b><br>/IRL = 5)                         |                                       |                                 | 1                                        |
| e. Ammonia (                | (as N)                                  | 0.                                   | 06                                          |                                                     |                                            |                                     |                                                   |                                               |                                         |                                      |                                    | 1                                                 |                                         | mg/l                                                |                                               | (MF                                      | ND<br>RL = 0.05)                               |                                       |                                 | 1                                        |
|                             |                                         | VALUE                                |                                             |                                                     | VALUE                                      |                                     |                                                   | VALUE                                         |                                         |                                      |                                    |                                                   |                                         |                                                     |                                               | VALI                                     | JE                                             |                                       |                                 | ·····                                    |
| T, Flow                     |                                         | 1/41.115                             | N/A                                         |                                                     |                                            | N/                                  | 'A<br>                                            |                                               | N                                       | /A                                   |                                    |                                                   |                                         | GPD                                                 |                                               |                                          | N//                                            | Ą                                     |                                 | N/A                                      |
| g. Tempera                  | lture                                   | VALUE V<br>N/A                       |                                             |                                                     | VALUE                                      |                                     |                                                   | VALUE                                         | Ξ                                       |                                      |                                    |                                                   |                                         | _                                                   |                                               | VALU                                     | JE                                             |                                       |                                 |                                          |
| (winter)                    |                                         | N/A                                  |                                             | 1/0110                                              | N/                                         | A<br>                               |                                                   | N.                                            | /A                                      |                                      |                                    |                                                   | °(                                      | )                                                   |                                               | N//                                      | A                                              |                                       | N/A                             |                                          |
| h. Tempera<br>(summei       | iture<br>r)                             |                                      | N/A                                         |                                                     | VALUE                                      | N/                                  | A                                                 |                                               | =<br>N/                                 | /A                                   |                                    |                                                   |                                         | °                                                   | 2                                             |                                          | JE<br>N//                                      | Ą                                     |                                 | N/A                                      |
| í, pH                       | na na sana na sana na sana na sana sana | MINIMU<br>7                          | JM M<br>.8                                  | IAXIMUM<br>8.1                                      | MINIMU                                     | M                                   | MAXIMUM                                           |                                               | $\geq$                                  | $\langle$                            | _                                  | 34                                                |                                         | STANDAR                                             |                                               |                                          |                                                |                                       |                                 |                                          |
| PART B -                    | Mark ")<br>which i<br>column            | " in colui<br>s limited o<br>2a, you | mn 2-a for (<br>either direc<br>must provid | each pollutan<br>lly, or indirect<br>le quantitativ | t you know<br>ly but expre<br>e data or an | or have<br>issly, in a<br>i explana | reason to be<br>an effluent lin<br>ation of their | lieve is pres<br>nitations gui<br>presence in | ient. Mark<br>ideline, yo<br>your discl | "X" in col<br>u must pr<br>harge. Cc | lumn 2-b<br>rovide th<br>omplete o | o for each po<br>e results of a<br>on table for a | llutant yo<br>at least or<br>each outfa | u believe to b<br>ne analysis fo<br>all. See the in | e absent. I<br>r that pollut<br>structions fi | f you mark<br>ant. For ot<br>or addition | column 2a f<br>her pollutant<br>al details and | or any po<br>s for whic<br>t requirer | llutant<br>h you mark<br>nents. |                                          |
| 1. POLLUT-<br>ANT AND       | 2. MA                                   | RK "X"                               | a MAXIM                                     |                                                     |                                            | 3. EFFI                             |                                                   |                                               |                                         | C TEDM                               | AVDO 1                             |                                                   |                                         |                                                     | 4. UNIT                                       | \$                                       |                                                | 5. IN                                 | TAKE (optiona                   | <u>1)</u>                                |
| CAS NO.                     | LIEVED                                  | LIEVED                               |                                             |                                                     |                                            |                                     | (if available                                     |                                               | C. LOIN                                 | (if avai                             | avre.<br>Iable)                    | d.                                                | NO. OF                                  |                                                     | (specify if ble                               | ink)                                     | A                                              | a. LONG<br>VERAGE                     | VALUE                           | 6. NO, OF                                |
| (in evaluable)              | PRE-<br>SENT                            | AB-SENT                              | (1)<br>CONCENTF                             | TATION (2                                           | ) MASS                                     | CONCEN                              | TRATION                                           | (2) MASS                                      | CONCEN                                  | 1)<br>ITRATION                       | (2) M                              | IASS AI                                           | VALYSES                                 | a. CON                                              | CEN-                                          | b. MASS                                  | (1<br>CONCENT                                  | )<br>RATION                           | (2) MASS                        | ANALYSES                                 |
| a. Bromide<br>(24959-67-9)  | x                                       |                                      | 78.                                         | 5                                                   |                                            |                                     |                                                   |                                               |                                         |                                      |                                    |                                                   | 1                                       | mg                                                  | /1                                            |                                          | 81                                             | .4                                    |                                 | 1                                        |
| b. Chlorine                 |                                         | ×                                    | ND                                          |                                                     |                                            |                                     |                                                   |                                               |                                         |                                      | ·····                              |                                                   | ······                                  |                                                     | ,,                                            |                                          | NI                                             | <del>,</del> +                        |                                 |                                          |
| Total Residual              |                                         |                                      | (MRL =                                      | 0.1)                                                |                                            |                                     |                                                   |                                               |                                         |                                      |                                    |                                                   | 1                                       | mg                                                  | //                                            |                                          | (MRL =                                         | = 0.1)                                |                                 | 1                                        |
| c, Color                    |                                         | ×                                    | (MRL =                                      | = 5)                                                |                                            |                                     |                                                   |                                               |                                         |                                      |                                    |                                                   | 1                                       | mg                                                  | /                                             |                                          | (MRL                                           | <b>)</b><br>= 5)                      |                                 | 1                                        |
| o. Fecal<br>Coliform        |                                         | x                                    | ND<br>(MRL =                                | 2)                                                  |                                            |                                     |                                                   |                                               |                                         |                                      |                                    |                                                   | 1                                       | MPN                                                 | 100ml                                         |                                          | NI<br>(MRL                                     | <b>)</b><br>= 2)                      |                                 | 1                                        |
| (16984-48-8)                | x                                       |                                      | 1.0                                         |                                                     |                                            |                                     |                                                   |                                               |                                         |                                      |                                    |                                                   | 1                                       | mg                                                  | /1                                            |                                          | 1.0                                            | 0                                     |                                 | 1                                        |
| Nitrite (as M)              | x                                       |                                      | 0.3                                         |                                                     |                                            |                                     |                                                   |                                               |                                         |                                      |                                    |                                                   | 1                                       | ma                                                  | /                                             |                                          | 0.4                                            | 3                                     |                                 | 1                                        |

I R

Nitrite (as N)

1

mg/l

1

0.3

| (                                                    |         |         |                                        |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                          | d             | 966349                                                                                                          |           | <u>.</u>   |          | Forms by Chem                                | sw(707)80                                                                                                       | 21;11/1/98;s/nZZZYYYYXXX                                                                                        |
|------------------------------------------------------|---------|---------|----------------------------------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|---------------|-----------------------------------------------------------------------------------------------------------------|-----------|------------|----------|----------------------------------------------|-----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| 1. POLLUT-                                           | МА      | RK "X"  |                                        |          | 3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                          |               |                                                                                                                 |           | 4. UI      | NITS     | 5. 1                                         | TAKE (optional)                                                                                                 | in a start and a start and a start a st |
| CAS NO.                                              | LIEVED  | LIEVED  | u. ( <i>WEXIMON</i>                    |          | (il ava                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | lable)                                   | C. LONG TERM  | llable)                                                                                                         | d, NO, OF |            |          | AVERAG                                       |                                                                                                                 | b. NO. OF                                                                                                       |
| (if available)                                       | PRE-    | AB-SENT | (1)                                    | (2) MASS | (1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | (2) MASS                                 | (1)           | (2) MASS                                                                                                        | ANALYSES  | a, CONCEN- | b. MASS  | (1)                                          | (2) MASS                                                                                                        | ANALYSES                                                                                                        |
| g. Nitrogen,                                         | - OLINI | AD-SENT | CONCENTRATION                          |          | CONCENTRATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | C. C | CONCENTRATION | 1999 to the second s |           | TRATION    |          | CONCENTRATION                                |                                                                                                                 | Alley Startes                                                                                                   |
| Total Organic<br>(as N)                              | x       |         | 0.16                                   |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | _                                        |               |                                                                                                                 | 1         | mg/l       |          | 0.1                                          |                                                                                                                 | 1                                                                                                               |
| h. Oil and<br>Grease                                 | x       |         | <b>ND</b><br>(MRL = 5.0)               |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                          |               |                                                                                                                 | 1         | mg/l       |          | ND<br>(MRL = 5.0)                            |                                                                                                                 | 1                                                                                                               |
| i. Phosphorus<br><i>(as P),</i> Total<br>(7723-14-0) | x       |         | 0.06                                   |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                          |               |                                                                                                                 | 1         | mg/l       |          | 0.06                                         |                                                                                                                 | 1                                                                                                               |
| j. Radioactivity                                     | 1       |         |                                        |          | Annual Control |                                          |               | X-C-allichten Asy                                                                                               |           |            |          |                                              |                                                                                                                 |                                                                                                                 |
| (1) Alpha,<br>Total                                  | x       |         | <b>0.0 <u>+</u> 290</b><br>(MDA = 270) |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                          |               |                                                                                                                 | 1         | pCi/l      | <u> </u> | <b>22</b> <u>+</u> <b>250</b><br>(MDA = 270) | in the second | 1                                                                                                               |
| (2) Beta, Total                                      | x       |         | <b>460 ± 290</b><br>(MDA = 480)        |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                          |               |                                                                                                                 | 1         | pCi/l      | ,        | <b>160 ± 280</b><br>(MDA = 440)              |                                                                                                                 | 1                                                                                                               |
| (3) Radium,<br>Total                                 | x       |         | <b>0.7 <u>+</u> 1.4</b><br>(MDA = 3.6) |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                          |               |                                                                                                                 | 1         | pCi/l      |          | 0.1 <u>+</u> 2.0<br>(MDA = 3.6)              |                                                                                                                 | 1                                                                                                               |
| (4) Radium<br>226, Total                             | x       |         | <b>0.1 ± 0.2</b><br>(MDA = 0.7)        |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                          |               |                                                                                                                 | 1         | pCi/l      |          | 0.1 ± 0.3<br>(MDA = 1.0)                     |                                                                                                                 | 1                                                                                                               |
| k: Sunate<br>(as SO <sub>4</sub> )<br>(14808-79-8)   | x       |         | 2620                                   |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                          |               |                                                                                                                 | 1         | mg/l       |          | 2540                                         |                                                                                                                 | 1                                                                                                               |
| l. Sulfide<br>(as S)                                 | x       |         | ND<br>(MRL = 1)                        |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                          |               |                                                                                                                 | 1         | mg/l       | Ma,      | ND<br>(MRL = 1)                              |                                                                                                                 | 1                                                                                                               |
| (as SO <sub>3</sub> )<br>(14265-45-3)                |         | x       | <b>ND</b><br>(MRL = 2)                 |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                          |               |                                                                                                                 | 1         | mg/l       |          | ND<br>(MRL = 2)                              |                                                                                                                 | 1                                                                                                               |
| n. Surfactants                                       | x       |         | ND<br>(MRL = 0.05)                     |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                          |               |                                                                                                                 | 1         | mg/l       |          | ND<br>(MRL = 0.05)                           |                                                                                                                 | 1                                                                                                               |
| Total<br>(7429-90-5)                                 | x       |         | <b>ND</b><br>(MRL = 0.05)              |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                          |               |                                                                                                                 | 1         | mg/l       |          | 0.085                                        |                                                                                                                 | 1                                                                                                               |
| p. Banum,<br>Total<br>(7440-39-3)                    | x       |         | <b>ND</b><br>(MRL = 0.005)             |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                          |               |                                                                                                                 | 1         | mg/l       |          | <b>ND</b><br>(MRL = 0.005)                   |                                                                                                                 | 1                                                                                                               |
| q. Boron,<br>Total<br>(7440-42-8)                    | x       |         | 4.26                                   |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                          |               |                                                                                                                 | 1         | mg/i       |          | 4.44                                         |                                                                                                                 | 1                                                                                                               |
| r. Coball,<br>Total<br>(7440-48-4)                   | x       |         | 0.002                                  |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                          |               |                                                                                                                 | 1         | mg/l       |          | <b>ND</b><br>(MRL = 0.001)                   |                                                                                                                 | 1                                                                                                               |
| s. Iron, Total<br>(7439-89-6)                        | x       |         | 0.022                                  |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                          |               |                                                                                                                 | 1         | mg/l       |          | <b>ND</b><br>(MRL = 0.02)                    |                                                                                                                 | 1                                                                                                               |
| t. Magnesium,<br>Total<br>(7439-95-4)                | x       |         | 1150                                   |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                          |               |                                                                                                                 | 1         | mg/l       |          | 1190                                         |                                                                                                                 | 1                                                                                                               |
| u.Molybdenum<br>, Total<br>(7439-98-7)               | x       |         | N/A                                    |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                          |               |                                                                                                                 |           |            |          | <b>ND</b><br>(MRL = 0.01)                    |                                                                                                                 | 1                                                                                                               |
| v. Manganese,<br>Total<br>(7439-96-5)                | x       |         | <b>ND</b><br>(MRL = 0.005)             |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                          |               |                                                                                                                 | 1         | mg/l       |          | <b>ND</b><br>(MRL = 0.005)                   |                                                                                                                 | 1                                                                                                               |
| w. Tin, Total<br>(7440-31-5)                         | x       |         | ND<br>(MRL = 0.005)                    |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                          |               |                                                                                                                 | 1         | mg/l       |          | ND<br>(MRL = 0.005)                          |                                                                                                                 | 1                                                                                                               |
| x. Litanium,<br>Total<br>(7440-32-6)                 | x       |         | <b>ND</b><br>(MRL = 0.005)             |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                          |               |                                                                                                                 | 1         | mg/l       |          | ND<br>(MRL = 0.005)                          |                                                                                                                 | 1                                                                                                               |

| 1                       |                                                                      |
|-------------------------|----------------------------------------------------------------------|
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| PLEASE PRINT O.         | . 'E IN THE UNSHADED AREAS ONLY. You report some or all of           |
| this information on sep | arate sheets (use the same format) instead of completing these pages |
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| SEE INSTRUCTIONS.       | and a second completing these pages                                  |

NUMBER (copy from Item 1 of Form 1) CAD 077966349

Forms by ChemS Form Approved. OMB No. 2040-0086 Approval expires 7-31-88

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|-------------------------------------|--------------------|------------------------|---------------------------------------|-----------------------------|-----------------------------------|------------------------------------------|---------------------------|-----------------------------------|------------------------------|-------------------------|----------------------------------|-------------------------|---------------------------------------------------------|-------------------------------------|--------------------------------------------|-----------------------------------------------|----------------------------------------|-----------------------|-----------------------------|
| V. INTAKE AN                        | ID EFFL            | UENT C                 | HARACTERIST                           | ICS (cont                   | inued from page                   | 3 of Form                                | 12-0)                     |                                   |                              |                         |                                  |                         |                                                         |                                     |                                            |                                               |                                        |                       | OUTFALL NO.<br>003          |
| PART A - You                        | must pro           | ovide the              | results of at lea                     | ist one an                  | alysis for every                  | ollutant in                              | this table                | e. Complete o                     | ne table for                 | each out                | Ifall See ins                    | struction               | s for additions                                         | I details                           |                                            |                                               |                                        |                       |                             |
|                                     |                    |                        |                                       |                             | 2. EFFL                           | JENT                                     |                           |                                   |                              | <u>adon our</u>         |                                  |                         | 3. U                                                    | NITS                                |                                            | 4                                             | INTAKE (                               | optionall             | and the second black of the |
| 1. POLLUI                           | ANI                | a. MAX                 | IMUM DAILY V                          | ALUE                        | b. MAXIMUM                        | 30 DAY V/                                | ALUE                      | c. LONG TER                       | M AVRG. V                    | ALUE                    |                                  |                         | (specify                                                | if blank)                           |                                            | a. LONG                                       | TERM                                   |                       |                             |
|                                     |                    | CONCE                  | 1)<br>NTRATION (i                     | ) MASS                      | (1)<br>CONCENTRATIO               | (2)                                      | MASS                      | (1)<br>CONCENTRATI                | (2) N                        | MASS                    | d, NO, O<br>ANALYSI              | DF<br>ES a              |                                                         | b: MASS                             |                                            | AVERAGE                                       | (2) MASS                               |                       | b. NO. OF<br>ANALYSES       |
| a. Biochemical<br>Demand (E         | Oxygen<br>30D)     | MR                     | <b>ID</b><br>L = 4)                   |                             |                                   |                                          |                           |                                   |                              |                         | 1                                |                         | mg /l                                                   |                                     | (MR                                        | <b>ND</b><br>L = 4)                           |                                        |                       | 1                           |
| b. Chemical (<br>Demand (C          | Oxygen<br>COD)     | 1                      | 56                                    |                             |                                   |                                          |                           |                                   |                              |                         | 1                                |                         | mg /I                                                   |                                     | 4                                          | 49                                            |                                        |                       | 1                           |
| c. Total Org<br>Carbon (T           | gànic<br>OC)       | 1                      | .0                                    |                             |                                   |                                          |                           |                                   |                              |                         | 1                                | -                       | mg /l                                                   |                                     | 0                                          | .9                                            |                                        |                       | 1                           |
| d. Total Susp<br>Solids (TS         | ended<br>SS)       |                        | 11                                    |                             |                                   |                                          |                           |                                   |                              |                         | 1                                |                         | mg /I                                                   |                                     | MRI<br>(MRI                                | <b>ID</b><br>L = 5)                           |                                        |                       | 1                           |
| e. Ammonia                          | (as N)             | (MRL                   | <b>ID</b><br>= 0.05)                  |                             | VALUE                             |                                          |                           | <u></u>                           |                              |                         | 1                                |                         | mg /l                                                   |                                     | N<br>(MRL                                  | <b>ID</b><br>= 0.05)                          |                                        |                       | 1                           |
| f. Flow                             |                    |                        | N/A N/A                               |                             |                                   |                                          |                           | VALUE                             | N/A                          |                         |                                  |                         | GPD                                                     |                                     | VALUE                                      | N/A                                           |                                        |                       | N/A                         |
| d Temper                            | turo               | VALUE                  |                                       |                             | VALUE                             |                                          |                           | VALUE                             |                              |                         |                                  |                         |                                                         |                                     | VALUE                                      |                                               | <del>.</del>                           |                       |                             |
| g. rompere<br>(winter)              | )                  |                        | N/A N/A                               |                             |                                   |                                          |                           |                                   | N/A                          |                         |                                  |                         | o                                                       | С                                   |                                            | N/A                                           |                                        |                       | N/A                         |
| h. Tempera<br>(summe                | ature<br>r)        | VALUE                  | N/A                                   |                             | VALUE                             | N/A                                      |                           | VALUE                             | N/A                          |                         |                                  |                         | 0,                                                      | ~                                   | VALUE                                      |                                               |                                        |                       |                             |
| i. pH                               |                    | MINIMU                 |                                       |                             | MINIMUM                           | MAXIM                                    | UM                        | Ranan - Carl Street               |                              |                         |                                  |                         |                                                         | ی<br>                               |                                            |                                               |                                        |                       | N/A                         |
| PART B -                            | Mark "X            | in colu                | mn 2-a for each                       | o.i                         | Vou know or ha                    |                                          | lo holiovo                | lo órocont M                      |                              |                         | 12                               | 0                       | STANDAF                                                 | RD UNITS                            |                                            |                                               |                                        |                       |                             |
|                                     | which is<br>column | s limited (<br>2a, you | either directly, c<br>must provide qu | r indirectly<br>iantitative | but expressly,<br>data or an expl | n an efflue<br>ination of t              | nt limitati<br>heir prese | ons guideline,<br>ence in your di | you must p<br>scharge. Co    | rovide the<br>omplete c | e results of a<br>on table for e | at least deach oul      | ou believe to i<br>one analysis fo<br>Ifall. See the ir | or that pollutan<br>istructions for | ou mark co<br>t. For other<br>additional c | olumn 2a foi<br>r pollutants<br>details and r | any pollut<br>for which y<br>equiremen | ant<br>5u mark<br>ts. |                             |
| 1. POLLUT-                          | 2. MA              | RK "X"                 |                                       |                             | 3. El                             | FLUENT                                   | -000)                     |                                   |                              |                         |                                  |                         |                                                         | 4. UNITS                            |                                            |                                               | 5. INTAK                               | E (ontiona            | <u>n</u>                    |
| CAS NO.                             | a. BE-             | b. BE-                 | a. MAXIMUM                            | DAILY VAI                   | LUE   B. N                        | IAXIMUM                                  | 30 DAY V                  | ALUE c. L                         | ONG TERM                     | AVRG. V                 | VALUE                            | ang Kayin<br>Sing Kayin |                                                         | (specify if blank                   | )                                          | a.                                            | LONG TE                                | RM                    |                             |
| (if available)                      | PRE-<br>SENT       | AB-SENT                | (1)<br>CONCENTRATIC                   | N (2)                       |                                   | (1)<br>ENTRATION                         | (2) M                     |                                   | (if avai<br>(1)<br>ENTRATION | (2) M                   | ASS d.                           | NO. OF<br>VALYSE        | S a CON                                                 | ICEN-                               | . MASS                                     | AVI<br>(1)                                    | ERAGE VA                               | LUE<br>(2) MASS       | b. NO. OF<br>ANALYSES       |
| a. Bromide<br>(24959-67-9)          | x                  |                        | 83.1                                  |                             |                                   | <u> </u>                                 |                           |                                   |                              |                         |                                  | 1                       | mg                                                      | ı /I                                |                                            | 81.4                                          | A HON                                  | <u>//</u>             | 1                           |
| b. Chlorine<br>Total Residual       | x                  |                        | ND<br>(MRL = 0.1)                     |                             |                                   |                                          |                           |                                   |                              |                         |                                  | 1                       | mg                                                      | ; /I                                |                                            | ND<br>(MRL = (                                | 1                                      |                       | 1                           |
| c. Color                            | x                  |                        | ND<br>(MRL = 5)                       |                             |                                   |                                          |                           |                                   |                              |                         |                                  | 1                       | mg                                                      | //                                  |                                            | MRL =                                         | 5)                                     |                       | 1                           |
| 0. ⊦ecal<br>Coliform<br>e. Eluorida | x                  |                        | ND<br>(MRL = 2)                       | _                           |                                   |                                          |                           |                                   |                              |                         |                                  | 1                       | MPN                                                     | 100ml                               |                                            | ND<br>(MRL =                                  | 2)                                     |                       | 1                           |
| (16984-48-8)<br>f, Nitrate-         | X                  |                        | 1.0                                   |                             |                                   |                                          |                           |                                   |                              | ·                       |                                  | 1                       | mg                                                      | //                                  |                                            | 1.0                                           |                                        |                       | 1                           |
| Nitrite (as N)                      | Х                  | 0.3                    |                                       |                             | l                                 |                                          |                           |                                   |                              | 1                       | mg                               | //                      |                                                         | 0.3                                 |                                            |                                               | 1                                      |                       |                             |

F

|                              | j          |                |                |                                                                                                                  |               |                                        | CAj                                      | 56349       |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                          | Forms by Chem                         | ISW(707)864-08                                       | 21;11/1/98;s/nZZZYYYYXXX |
|------------------------------|------------|----------------|----------------|------------------------------------------------------------------------------------------------------------------|---------------|----------------------------------------|------------------------------------------|-------------|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|---------------------------------------|------------------------------------------------------|--------------------------|
| 1. POLLUT-                   | 1          | ₹K "X"         |                |                                                                                                                  | 3.            | EFFLUENT                               |                                          |             |                                          | 4, U                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | NITS                                     | 5. IN                                 | TAKE L I                                             | )                        |
| ANT AND                      | a          | b. BE-         | a. MAXIMUM E   | DAILY VALUE                                                                                                      | b. MAXIMUM (  | 0 DAY VALUE                            | C. LONG TEKIVI                           | AVRG. VALUE |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                          | a. LONC                               | TERM                                                 |                          |
| CAS NO.                      | LIEVED     | LIEVED         |                |                                                                                                                  | (if ava       | ilable)                                | (if ava                                  | ilable)     | d. NO. OF                                | and the design of the second se |                                          | AVERAG                                | E VALUE                                              | b. NO. OF                |
| (if available)               | PRE-       |                | (1)            | (2) MASS                                                                                                         | (1)           | (2) MASS                               | (1)                                      | (2) MACC    | ANALYSES                                 | a. CONCEN-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | h MÁCC                                   | (1)                                   | (1) MACC                                             | ANALYSES                 |
|                              | SENT       | AB-SENT        | CONCENTRATION  | (2) 11/00                                                                                                        | CONCENTRATION | (2) 10/100                             | CONCENTRATION                            | (2) 10/050  | Construction of Section 11, 11, 11, 2011 | TRATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | D. MASS                                  | CONCENTRATION                         | (Z) WASS                                             |                          |
| g. Nitrogen,                 |            |                |                |                                                                                                                  |               |                                        |                                          |             |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                          |                                       |                                                      |                          |
| Total Organic                | х          |                | 0.7            |                                                                                                                  |               |                                        |                                          |             | 1                                        | mg/I                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                          | 0.1                                   |                                                      | 1                        |
| (as N)                       |            |                |                |                                                                                                                  |               |                                        |                                          |             |                                          | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                          |                                       |                                                      |                          |
| h. Oil and                   |            |                | ND             |                                                                                                                  |               |                                        |                                          |             |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                          | ND                                    |                                                      |                          |
| Grease                       | X          |                | (MRI = 5.0)    |                                                                                                                  |               |                                        |                                          |             | 1                                        | mg/l                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                          | (MPL = 5.0)                           |                                                      | 1                        |
| i Phosphorus                 |            |                |                |                                                                                                                  | ·             |                                        | L                                        |             |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                          | (10111) = 3.0)                        |                                                      |                          |
| (as P) Total                 | v          |                | 0.00           |                                                                                                                  |               |                                        |                                          |             | 4                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                          | 0.00                                  |                                                      |                          |
| (7723-14-0)                  |            |                | 0.05           |                                                                                                                  |               |                                        |                                          |             |                                          | ing/i                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                          | 0.00                                  |                                                      |                          |
|                              |            | Ange and Angel |                |                                                                                                                  |               | AG000000000000000000000000000000000000 | anan an |             | and goine there are                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                          |                                       | on the contract lines. The second configuration is a |                          |
| j. Radioactivity             |            |                |                | and the second |               |                                        | Vaun Grieben Bagers aus Pa               |             |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | an a | Manager and the second                |                                                      |                          |
| (1) Alpha.                   |            |                | 0.0 + 320      |                                                                                                                  |               |                                        |                                          |             |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                          | 22 + 250                              |                                                      |                          |
| Total                        | X          |                | (MDA = 270)    |                                                                                                                  |               |                                        |                                          |             | 1                                        | pCi/l                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                          | $22 \pm 250$                          |                                                      | 1                        |
|                              |            |                |                |                                                                                                                  |               |                                        |                                          |             |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                          | (MDA - 270)                           |                                                      |                          |
| (2) Beta, Total              | x          |                | 550 ± 290      |                                                                                                                  |               |                                        |                                          |             | 1                                        | nCi/l                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                          | 160 ± 280                             |                                                      | 1                        |
| Service and a service of the |            |                | (MDA = 420)    |                                                                                                                  |               |                                        |                                          |             | -                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                          | (MDA = 440)                           |                                                      | •                        |
| (3) Radium,                  | x          |                | 0.4 ± 0.73     |                                                                                                                  |               |                                        |                                          |             | 4                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                          | 0.1 + 2.0                             |                                                      |                          |
| Total                        | <u>^</u>   |                | (MDA = 2.31)   |                                                                                                                  |               |                                        |                                          |             | •                                        | pew                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                          | (MDA = 3.6)                           |                                                      | 1                        |
| (4) Radium                   |            |                | 0.0 + 0.21     |                                                                                                                  |               |                                        |                                          |             |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <u> </u>                                 | 0.1 + 0.3                             |                                                      |                          |
| 226, Total                   |            |                | (MDA = 0.71)   |                                                                                                                  | 1             |                                        |                                          |             | 1                                        | pCi/l                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                          | (MDA = 1.0)                           |                                                      | 1                        |
| k, Sulfate                   |            |                |                |                                                                                                                  |               |                                        |                                          |             |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                          | (MDA = 1.0)                           |                                                      |                          |
| (as SO₄)                     | x          |                | 2760           |                                                                                                                  |               |                                        |                                          |             | 1                                        | mall                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                          | 2540                                  |                                                      |                          |
| (14808-79-8)                 |            |                |                |                                                                                                                  |               |                                        |                                          |             | •                                        | ingn                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                          | 2040                                  |                                                      | 1                        |
| I. Sulfide                   |            |                | ND             |                                                                                                                  |               |                                        |                                          |             |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                          | ND                                    |                                                      |                          |
| (as S)                       | x          |                | (MRI = 1)      |                                                                                                                  |               |                                        |                                          |             | 1                                        | mg/l                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                          |                                       |                                                      | 1                        |
| m. Sulfite                   |            |                |                | ·····                                                                                                            |               |                                        |                                          |             | ·                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                          | (MRL = 1)                             |                                                      |                          |
| (as SO <sub>2</sub> )        |            | x              | ND             |                                                                                                                  |               |                                        |                                          |             | 4                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                          | ND                                    |                                                      |                          |
| (14265-45-3)                 |            | Ŷ              | (MRL = 2)      |                                                                                                                  |               |                                        |                                          |             | i i                                      | mg/i                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                          | (MRL = 2)                             |                                                      | 1                        |
|                              |            |                |                |                                                                                                                  |               |                                        |                                          |             | · · · · · · · · · · · · · · · · · · ·    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                          | · · · · · · · · · · · · · · · · · · · |                                                      |                          |
| n. Surfactants               | x          |                | 0.06           |                                                                                                                  |               |                                        |                                          |             | 1                                        | mall                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                          | ND                                    |                                                      | 1                        |
|                              |            |                |                |                                                                                                                  |               |                                        |                                          |             | •                                        | ingn                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                          | (MRL = 0.05)                          |                                                      |                          |
| o. Aluminum,                 |            |                |                |                                                                                                                  |               |                                        |                                          |             | ·····                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                          |                                       |                                                      | 1                        |
| Total                        | x          |                | 0.082          |                                                                                                                  |               |                                        | 1                                        |             | 1                                        | ma/l                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                          | 0.085                                 |                                                      | 1                        |
| (7429-90-5)                  |            |                |                |                                                                                                                  |               |                                        |                                          |             | _                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                          |                                       |                                                      |                          |
| p. Barium,                   |            |                | ND             |                                                                                                                  |               |                                        |                                          |             |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                          |                                       |                                                      | · · · · · ·              |
| Total                        | X          |                |                |                                                                                                                  |               |                                        |                                          |             | 1                                        | ma/l                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                          | ND                                    |                                                      | 1                        |
| (7440-39-3)                  |            |                | (WAL = 0.003)  |                                                                                                                  |               |                                        |                                          |             |                                          | J                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                          | (MRL = 0.005)                         |                                                      |                          |
| q, Boron,                    |            |                |                |                                                                                                                  |               |                                        |                                          |             |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                          |                                       |                                                      |                          |
| Total                        | X          |                | 4.59           |                                                                                                                  |               |                                        |                                          |             | 1                                        | mg/l                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                          | 4.44                                  |                                                      | 1                        |
| (7440-42-8)                  |            |                |                |                                                                                                                  |               |                                        |                                          |             |                                          | <b></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                          |                                       |                                                      |                          |
| r. Cobalt,                   |            |                | ND             |                                                                                                                  |               |                                        |                                          |             |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                          |                                       | - · · ·                                              |                          |
| Total                        | х          |                | (MRL = 0.001)  |                                                                                                                  |               |                                        |                                          |             | 1                                        | ma/l                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                          | ND                                    |                                                      | 1 1                      |
| (7440-48-4)                  |            |                | (WINE = 0.001) | · · · · · · · · · · · · · · · · · · ·                                                                            |               |                                        |                                          |             |                                          | J                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                          | (MRL = 0.001)                         |                                                      | · ·                      |
| s. Iron, Total               | v          |                | 0 227          |                                                                                                                  |               |                                        |                                          |             |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                          | ND                                    |                                                      |                          |
| (7439-89-6)                  | ^          |                | U.221          |                                                                                                                  |               |                                        |                                          |             | 1                                        | mg/l                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                          | (MRI = 0.02)                          |                                                      | ] 1                      |
| t. Magnesium,                |            |                |                |                                                                                                                  |               | · · · · · · · · · · · · · · · · · · ·  |                                          |             |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                          | (111112 0.02)                         |                                                      |                          |
| Total                        | х          |                | 1250           |                                                                                                                  |               |                                        |                                          |             | 1                                        | mali                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                          | 1100                                  |                                                      | 4                        |
| (7439-95-4)                  |            |                |                |                                                                                                                  |               |                                        |                                          |             | •                                        | mgn                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                          | 1130                                  |                                                      |                          |
| u.Molybdenum                 |            |                |                |                                                                                                                  |               |                                        |                                          |             |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                          |                                       |                                                      |                          |
| , Total                      | х          |                | N/A            |                                                                                                                  |               |                                        |                                          |             |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                          | ND                                    |                                                      | 1                        |
| (7439-98-7)                  |            |                |                |                                                                                                                  |               |                                        |                                          |             |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                          | (MRL = 0.01)                          |                                                      |                          |
| v. Manganese,                |            |                | ND             |                                                                                                                  | 1             |                                        |                                          |             |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                          |                                       | ••••                                                 |                          |
| Total                        | х          |                |                |                                                                                                                  |               |                                        |                                          |             | 1                                        | ma/l                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                          | ND                                    |                                                      | 1                        |
| (7439-96-5)                  |            |                | (MRL = 0.005)  |                                                                                                                  |               |                                        |                                          |             | -                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                          | (MRL = 0.005)                         |                                                      |                          |
| w. Tin, Total                | <b>,</b> 7 |                | ND             |                                                                                                                  |               |                                        |                                          |             | _                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                          | ND                                    |                                                      |                          |
| (7440-31-5)                  | ×          |                | (MRL = 0.005)  |                                                                                                                  | ]             |                                        |                                          |             | 1                                        | mg/l                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                          |                                       |                                                      | 1                        |
| x. Titanium,                 |            |                |                |                                                                                                                  |               |                                        |                                          |             |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                          |                                       |                                                      | <b>├─────</b> ┃          |
| Total                        | х          |                | ND             |                                                                                                                  |               |                                        |                                          |             | 1                                        | mall                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                          | ND                                    |                                                      | 4                        |
| (7440-32-6)                  |            |                | (MRL = 0.005)  |                                                                                                                  |               |                                        |                                          |             | L L                                      | myn                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                          | (MRL = 0.005)                         |                                                      | '                        |

| PLEASE PRIN<br>this informatior<br>SEE INSTRUC | /<br>IT G.<br>1 on sep<br>CTIONS. | . PE IN T<br>arate she                | HE UNSI<br>eets (use                 | HADED ARI                                        | EAS ONLY.                                       | You report                                 | l some or all of<br>leting these pag                      | jes.                                   |                                          | Ē, .ī                                   | NUMBE                          | R (copy fr<br>CAD (                      | om Item 1                                 | 1 of Form 1)<br>9                               |                                        |                        | Form Ap<br>OMB No<br>Approve                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | oproved.<br>5. 2040-0<br>al expires  | Forms by Cher<br>1086<br>7-31-88       | /<br>                          | 15p/n11197.v5.2 | 1:11/1/98:s/nZZZYYYXXXX        |
|------------------------------------------------|-----------------------------------|---------------------------------------|--------------------------------------|--------------------------------------------------|-------------------------------------------------|--------------------------------------------|-----------------------------------------------------------|----------------------------------------|------------------------------------------|-----------------------------------------|--------------------------------|------------------------------------------|-------------------------------------------|-------------------------------------------------|----------------------------------------|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|----------------------------------------|--------------------------------|-----------------|--------------------------------|
| V. INTÅKE ÅN                                   | ID EFFL                           | UENT CI                               | HARACT                               | ERISTICS (                                       | continued fro                                   | om page 3                                  | of Form 2-C)                                              |                                        |                                          |                                         |                                |                                          |                                           |                                                 |                                        |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                      |                                        |                                | οι              | JTFALL NO.<br>004              |
| PART A - You                                   | must pre                          | ovide the                             | results o                            | f at least on                                    | e analysis fo                                   | ir every pol                               | llutant in this ta                                        | ble. Com                               | plete one                                | table for e                             | ach out                        | iall. See ir                             | nstruction                                | s for addition                                  | al details                             |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ka ta kao                            | and the second                         |                                |                 |                                |
| 1. POLLUT                                      | ANT                               | a. MAXI                               |                                      |                                                  | 2<br>b. MAX                                     | EFFLUEN<br>XIMUM 30                        | NT<br>DAY VALUE<br>ailable)                               | c. LON                                 | IG TERM /                                | AVRG. VA                                |                                |                                          |                                           | 3, L<br>(specif                                 | INITS<br>y if blank)                   |                        | Annual Control of Cont | a. LONC                              | 4. INTAK<br>3 TERM                     | E (optior                      | <u>ial)</u>     |                                |
|                                                |                                   | (<br>CONCET                           | 1)<br>NTRATION                       | (2) MAS                                          | S CONCI                                         | (1)<br>ENTRATION                           | (2) MASS                                                  | CONCE                                  | (1)                                      | (2) MA                                  | .SS                            | ANALYS                                   | SES a                                     | CONCEN-                                         | Б. М                                   | ASS                    | (<br>CONCEN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                      | (2) M                                  | ASS                            | ۸ŀ              | VALYSES                        |
| a. Biochemical<br>Demand (F                    | Oxygen<br>3OD)                    | N<br>(MR                              | <b>ID</b><br>L = 4)                  |                                                  |                                                 |                                            |                                                           |                                        |                                          |                                         |                                | 1                                        | difficiently and strong                   | mg/l                                            | 1                                      |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <u>diministration</u>                | <u>. 22000.2000.00000</u>              |                                | <u></u>         | <u>ayî la detan ye. ya 199</u> |
| b. Chemical (<br>Demand (C                     | Dxygen<br>COD)                    | 4                                     | 15                                   |                                                  |                                                 |                                            |                                                           |                                        |                                          |                                         |                                | 1                                        |                                           | mg/l                                            |                                        |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                      |                                        |                                |                 |                                |
| c. Total Orç<br>Carbon (T                      | janic<br>OC)                      | 0                                     | ).7                                  | 1                                                |                                                 |                                            |                                                           |                                        |                                          | ·····                                   |                                | 1                                        |                                           | mg/l                                            | 1                                      |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                      |                                        |                                | <u> </u>        |                                |
| d, Total Susp<br>Solids (T/                    | vended<br>SS)                     | (MR                                   | <b>ID</b><br>(L = 5)                 |                                                  |                                                 |                                            |                                                           |                                        |                                          |                                         |                                | 1                                        |                                           | mg/l                                            | 1                                      |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                      |                                        |                                |                 |                                |
| e. Ammonia                                     | (as N)                            | MRL                                   | ID<br>=0.05)                         |                                                  |                                                 |                                            |                                                           | -                                      |                                          |                                         |                                | 1                                        |                                           | mg/i                                            |                                        |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                      |                                        |                                | <u></u>         |                                |
| f. Flow                                        |                                   | VALUE                                 | (MRL =0.05 )  <br>VALUE<br>N/A       |                                                  |                                                 | E Ni                                       | /A                                                        | VALUE                                  | :<br>N/                                  | /A                                      |                                |                                          |                                           | GPD                                             |                                        |                        | VALUE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | I                                    |                                        |                                |                 |                                |
| g. Temper:                                     | ature                             | VALUE                                 | N                                    | ·                                                | VALUE                                           | Ē                                          |                                                           | VALUE                                  | <u> </u>                                 |                                         |                                |                                          |                                           |                                                 |                                        |                        | VALUE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                      |                                        |                                |                 |                                |
| (winter)                                       | <u>1</u>                          | VALUE                                 | IN/                                  | A                                                |                                                 | N//                                        | A                                                         |                                        | N//                                      | A                                       |                                |                                          |                                           |                                                 | <u>'C</u>                              |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                      |                                        |                                |                 |                                |
| h. Tempera<br>(summe                           | iture<br>r)                       |                                       | N                                    | /A                                               |                                                 | -<br>N/                                    | /A                                                        |                                        | N/                                       | Α                                       |                                |                                          |                                           | c                                               | °C                                     |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                      |                                        |                                |                 |                                |
| L pH                                           |                                   | MINIMU<br>7                           | JM<br>'.8                            | MAXIMUM<br>8.2                                   | MINIM                                           | IUM                                        | MAXIMUM                                                   |                                        | $\geq$                                   | $\overline{\langle}$                    |                                | 12                                       |                                           | STANDA                                          |                                        | 9                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                      |                                        |                                |                 |                                |
| PART B -                                       | Mark "X<br>which it<br>column     | t" in colur<br>s limited e<br>2a, you | nn 2-a fo<br>either dire<br>must pro | r each pollu'<br>etly, or indir<br>vide quantita | tant you know<br>ectly but exp<br>ative data or | w or have i<br>pressly, in a<br>an explana | reason to belie<br>an effluent limit<br>ation of their pr | ve is prese<br>ations gui<br>esence in | ent. Mark '<br>deline, you<br>your discł | "X" in colu<br>J must pro<br>targe. Cor | mn 2-b<br>wide the<br>mplete c | for each p<br>results of<br>in table for | ollutant yo<br>f at least c<br>r each out | ou believe to<br>one analysis<br>tfall. See the | be absen<br>for that po<br>instruction | t. If you<br>Mutant. F | mark co<br>For other<br>ditional c                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | lumn 2a f<br>pollutant<br>letails an | for any po<br>ts for whic<br>d require | ollutant<br>ch you m<br>ments. | iark            |                                |
| 1. POLLUT-                                     | 2. M/                             | RK "X"                                |                                      |                                                  |                                                 | 3. EFFI                                    | LUENT                                                     |                                        |                                          | an House and an an                      |                                |                                          |                                           |                                                 |                                        |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <u>r</u>                             | 5. IN                                  | TAKE (c                        | ontional)       |                                |
| ANT AND<br>CAS NO.                             | a. BE-<br>LIEVED                  | b. BE-<br>LIEVED                      | a. MAXI                              |                                                  | VALUE                                           | b, MA)                                     | KIMUM 30 DAY<br>(If available)                            | VALUE                                  | c. LON                                   | 3 TERM A<br>(Il availa                  | AVRG, V<br>able)               | ALUE                                     | d. NO. OF                                 |                                                 | (specify                               | if blank)              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | A                                    | a. LONG                                | TERM<br>E VALUE                |                 | b. NÓ. OF                      |
| (II available)                                 | PRE-<br>SENT                      | AB-SENT                               | (1<br>CONCEN                         | I)<br>ITRATION                                   | (2) MASS                                        | (1<br>CONCEN                               | 1)<br>ITRATION (2                                         | ) MASS                                 | (1<br>CONCEN                             | )<br>TRATION                            | (2) M/                         | ASS P                                    | ANALYSE                                   | iS a. CO<br>TRA                                 | NCEN-                                  | b. M                   | ASS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | (1<br>CONCEN                         | )<br>TRATION                           | (2) M/                         | 495             | ANALYSES                       |
| a. Bromide<br>(24959-67-9)                     | ×                                 | ļ'                                    | 80                                   | 1.9                                              |                                                 |                                            |                                                           |                                        |                                          |                                         |                                |                                          | 1                                         | m                                               | ıg/l                                   |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                      |                                        |                                |                 |                                |
| b. Chlorine<br>Total Residual                  | x                                 | !                                     | MRL                                  | <b>D</b><br>= 0.1)                               |                                                 |                                            |                                                           |                                        |                                          |                                         |                                |                                          | 1                                         | m                                               | ıg/l                                   |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | [                                    |                                        |                                |                 |                                |
| c. Color                                       | x                                 | !                                     | MRI                                  | <b>D</b><br>_ = 5)                               |                                                 |                                            |                                                           |                                        |                                          |                                         |                                |                                          | 1                                         | m                                               | ıg/l                                   |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                      |                                        |                                |                 |                                |
| d. Fecal<br>Coliform                           | '                                 | x                                     | M<br>(MRI                            | <b>D</b><br>_ = 2)                               |                                                 |                                            |                                                           |                                        |                                          |                                         |                                |                                          | 1                                         | MPN                                             | 100ml                                  |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                      |                                        |                                |                 |                                |
| e. Fluoride<br>(16984-48-8)                    | x                                 | []                                    | 1.                                   | .0                                               |                                                 |                                            |                                                           |                                        |                                          |                                         |                                |                                          | 1                                         | m                                               | ıg/l                                   |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                      |                                        |                                |                 |                                |
| i. Nitrate-<br>Nitrite (as N)                  | x '                               | 0.3                                   |                                      |                                                  |                                                 |                                            |                                                           |                                        |                                          |                                         |                                |                                          | 1                                         | m                                               | ıg/l                                   |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                      |                                        |                                |                 |                                |

| (                             | . ·          |           |                      |             |                             |                                      |                                          | 7966349                         |           |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Forme by Chem           | ISW(707)8        | 21;11/1/98; <del>s/nZZZYYYXXX</del> |
|-------------------------------|--------------|-----------|----------------------|-------------|-----------------------------|--------------------------------------|------------------------------------------|---------------------------------|-----------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|------------------|-------------------------------------|
| 1. POLLUT-                    |              | RK "X"    |                      |             | 3.                          | EFFLUENT                             |                                          |                                 |           | 4. U       | NITS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 5.                      | NTAKE (uptional) | 2                                   |
| CAS NO.                       | LIEVED       | LIEVED    |                      | DAILT VALUE | U. IMAXIMUM<br>(if ava      | allable)                             | C. LONG TERM                             | AVRG, VALUE                     | d. NO. OF |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | a. LONG                 | STERM<br>EVALUE  | 5 NO OF                             |
| (if available)                | PRE-<br>SENT | AB-SENT   | (1)<br>CONCENTRATION | (2) MASS    | (1)<br>CONCENTRATION        | (2) MASS                             |                                          | (2) MASS                        | ANALYSES  | a. CONCEN- | b. MASS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | (1)<br>(1)              | (2) MASS         | ANALYSES                            |
| g. Nitrogen,                  |              | UND OWNER |                      |             | CONCLIMINATION              | understanderstander alle afferten ge | CONCENTION                               |                                 |           | IRALION    | - <u>1997 - 1997 - 1997 - 1997 - 1997 - 19</u> 97 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 199<br>- 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1977 - 1977 - 1977 - | CONCENTRATION           |                  |                                     |
| Total Organic                 | x            |           | (MRL = 0.1)          |             |                             |                                      |                                          |                                 | 1         | mg/l       | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                         |                  |                                     |
| h. Oil and                    |              |           | ND                   | ·····       |                             |                                      |                                          |                                 |           |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                         |                  |                                     |
| Grease                        | X            |           | (MRL = 5.0)          |             |                             |                                      |                                          |                                 | 1         | mg/l       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                         |                  |                                     |
| i. Phosphorus                 |              |           | 0.09                 |             |                             |                                      |                                          |                                 |           |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                         |                  |                                     |
| (7723-14-0)                   |              |           | 0.00                 |             |                             |                                      |                                          |                                 | 1         | mg/i       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                         |                  |                                     |
| j. Radioactivity              | 1            |           |                      |             | 1.5.5.7.7.7.7.7.7.980072-7. |                                      | an a | 17. jai. en Cambrander en en en |           |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Weighten administration | ter and a second | 1                                   |
| (1) Alpha,                    | x            |           | 8.5 <u>+</u> 210     | ·           |                             |                                      |                                          |                                 | 4         |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                         |                  |                                     |
| lotal                         |              |           | (MDA = 270)          |             |                             |                                      |                                          |                                 | •         | рси        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ļ                       |                  |                                     |
| (2) Beta, Total               | x            |           | (MDA = 420)          |             |                             |                                      |                                          |                                 | 1         | pCi/l      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                         |                  |                                     |
| (3) Radium,                   | x            |           | 0.1 <u>+</u> 1.65    |             |                             |                                      |                                          |                                 | 1         |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                         |                  |                                     |
| (4) Radium                    |              |           | (MDA = 4.6)          |             |                             |                                      |                                          |                                 |           | рси        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                         |                  |                                     |
| 226, Total                    | X            |           | (MDA = 1.1)          |             |                             |                                      |                                          |                                 | 1         | pCi/l      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                         |                  |                                     |
| k. Sulfate                    | v            |           | 2540                 |             |                             |                                      |                                          |                                 | _         |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                         |                  |                                     |
| (14808-79-8)                  |              |           | 2340                 |             |                             |                                      |                                          |                                 | 1         | mg/l       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                         |                  |                                     |
| I. Sulfide                    |              | x         | ND                   |             |                             |                                      |                                          |                                 | 1         | ma/l       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                         |                  |                                     |
| m, Sulfite                    |              |           | (MRL = 1)            |             |                             |                                      |                                          |                                 | •         |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                         |                  |                                     |
| (as SO <sub>3</sub> )         |              | x         | ND<br>(MRL = 2)      |             |                             |                                      |                                          |                                 | 1         | mg/l       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                         |                  |                                     |
| (14203-43-3)                  |              |           | ND                   |             |                             | ·                                    |                                          |                                 |           |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                         |                  |                                     |
|                               | ×            |           | (MRL = 0.05)         |             |                             |                                      |                                          |                                 | 1         | mg/l       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                         |                  |                                     |
| Total                         | х            |           | 0.089                |             |                             |                                      |                                          |                                 | 1         | mg/l       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                         |                  |                                     |
| (7429-90-5)                   |              |           |                      |             |                             |                                      |                                          |                                 | •         | ingn       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                         |                  |                                     |
| Total                         | х            |           | ND                   |             |                             |                                      |                                          |                                 | 1         | ma/l       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                         |                  |                                     |
| (7440-39-3)<br>g. Botop       |              |           | (MRL = 0.005)        |             |                             |                                      |                                          |                                 |           | ingri      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                         |                  |                                     |
| Total                         | х            |           | 4.35                 |             |                             |                                      |                                          |                                 | 1         | ma/l       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                         |                  |                                     |
| (7440-42-8)<br>r. Cobalt      |              |           |                      |             |                             |                                      |                                          |                                 | •         |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                         |                  |                                     |
| Total                         | х            |           |                      |             |                             |                                      |                                          |                                 | 1         | ma/l       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                         |                  |                                     |
| (7440-48-4)<br>s. Iron, Total |              |           |                      |             |                             |                                      |                                          |                                 |           |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                         |                  |                                     |
| (7439-89-6)                   | x            |           | (MRL =0.02)          |             |                             |                                      |                                          |                                 | 1         | mg/l       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                         |                  |                                     |
| t. Magnesium,<br>Total        | v            |           | 1170                 |             |                             |                                      |                                          |                                 |           |            | ÷                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                         |                  |                                     |
| (7439-95-4)                   |              |           | 1170                 |             |                             |                                      |                                          |                                 | 1         | mg/i       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                         |                  |                                     |
| u.Molybdenum<br>Total         |              |           | ND                   |             |                             |                                      |                                          |                                 |           |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                         |                  |                                     |
| (7439-98-7)                   | Â            |           | (MRL = 0.01)         |             |                             |                                      |                                          |                                 | 1         | mg/l       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                         |                  |                                     |
| v. Manganese,<br>Total        | Y            |           | ND                   |             |                             |                                      |                                          |                                 |           |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                         |                  |                                     |
| (7439-96-5)                   |              |           | (MRL = 0.005)        |             |                             |                                      |                                          |                                 | 1         | mg/I       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                         |                  |                                     |
| w. Tin, Total<br>(7440-31-5)  | x            |           |                      |             |                             |                                      |                                          |                                 | 1         | ma/l       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                         |                  |                                     |
| x. Titanium,                  |              |           |                      |             |                             |                                      |                                          |                                 |           |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                         |                  |                                     |
| Total<br>(7440-32-6)          | x            |           | (MRL = 0.005)        |             |                             |                                      |                                          |                                 | 1         | mg/l       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                         |                  |                                     |

| · · · · · · · · · · · · · · · · · · · | Ć                                                                                           |                                                                                                           |                                                                                               |                                                                                                                                                                                  | EPA I.C                                                                                                                                                                     | ). NUMBER (copy                                                                                                                                                                      | from Item 1 of F                                                                                                                                                          |                                                                                                                                                                                     | LL NUMBER                                                                                                                                                            | ]                                                                                                                                                                 | Form A                                                                                                                                                               | pproved.                                                                                                                                                                 | Forme by Chem                                                                                                                                | sph11197.v5   | 5.21:11/1/98:s/nZZZYYYXXX |
|---------------------------------------|---------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|---------------|---------------------------|
| CONTINUED FRC                         | OM PAGE                                                                                     | 2 OF FC                                                                                                   | D <u>RM 2-C</u>                                                                               |                                                                                                                                                                                  |                                                                                                                                                                             | CAD 07                                                                                                                                                                               | 7966349                                                                                                                                                                   | 00                                                                                                                                                                                  | 2, 003, 004                                                                                                                                                          |                                                                                                                                                                   | OMB N                                                                                                                                                                | o. 2040-0086<br>al expires 7-31-8                                                                                                                                        | ( <b>A</b>                                                                                                                                   |               |                           |
| PART C-                               | If you an<br>2-a for a<br>waslew<br>believe<br>of at lea<br>dinitrop<br>concent<br>be discl | re a prima<br>all such G<br>ater outfa<br>is absent<br>ist one ar<br>henol, or<br>rations of<br>narged. N | C/MS fr<br>C/MS fr<br>Ils, and i<br>If you r<br>alysis fc<br>2-methy<br>f 100 pp<br>lote that | stry and this outfall<br>actions that apply<br>nonrequired GC/M<br>mark column 2a for<br>or that pollutant of<br>1-4, 6 dinitropheno<br>b or greater. Other<br>there are 7 pages | contains proces<br>to your industry<br><i>IS fractions)</i> , mar<br>r any pollutant, y<br>you know or hav<br>I, you must provi<br>wise, for pollutar<br>to this part, plez | is wastewater, refe<br>and for ALL toxic n<br>trk "X" in column 2<br>ou must provide th<br>re reason to believe<br>ide the results of a<br>nts for which you n<br>ase review each ca | If to Table 2c-2 in<br>netals, cyanides,<br>-b for each pollul<br>re results of at le<br>e it will be dische<br>t least one analy<br>nark column 2b,<br>nerkullv. Complet | the instructions to<br>and total phenols,<br>tant you know or h<br>ast one analysis for<br>irged in concentral<br>sis for each of the<br>you must either su<br>e one table (all 7 g | determine which<br>if you are not re-<br>ave reason to be<br>in that pollutant.<br>ions of 10 ppb o<br>se pollutants which<br>bomit at least one<br>ages) for each c | sh of the GC/MS<br>equired to mark<br>elleve is present<br>if you mark colu-<br>ir greater. If you<br>ich you know or<br>e analysis or bri-<br>wifall. See instr- | 3 fractions you mi<br>column 2-a (secc<br>L Mark "X" in colu<br>umn 2b for any po<br>mark column 2b<br>have reason to b<br>efly describe the<br>uptions for addition | Just test for: Mark<br>indary industries<br>imn 2-c for each<br>illutant, you mus<br>for acrolein, acry<br>elleve that you c<br>reasons the polli-<br>inal details and t | "X" in column<br>, nonprocess<br>pollutant you<br>t provide the result<br>/lonitrile, 2,4<br>lischarge in<br>utant is expected to<br>mutante |               |                           |
| 1. POLLUTANT                          | 2                                                                                           | MARK "                                                                                                    | <u>X"</u>                                                                                     |                                                                                                                                                                                  |                                                                                                                                                                             | 3.                                                                                                                                                                                   | EFFLUENT                                                                                                                                                                  | Concentration of the second second                                                                                                                                                  | 4900) 101                                                                                                                                                            | ditan. occure.                                                                                                                                                    | 4, U                                                                                                                                                                 | INITS                                                                                                                                                                    | equirements.                                                                                                                                 | TAKE (optiona | ί)                        |
| NUMBER                                | a. test-                                                                                    | D. BE-                                                                                                    | C. BE-                                                                                        |                                                                                                                                                                                  | ILY VALUE                                                                                                                                                                   | b. MAXIMUM 30                                                                                                                                                                        | DAY VALUE                                                                                                                                                                 | C. LONG TERM                                                                                                                                                                        | AVRG, VALUE                                                                                                                                                          | d. NO, OF                                                                                                                                                         |                                                                                                                                                                      |                                                                                                                                                                          | a. LONG                                                                                                                                      | 3 TERM        | h. NO. OF                 |
| (if available)                        | REQUIR-<br>ED                                                                               | PRE-<br>SENT                                                                                              | AB-<br>SENT                                                                                   | (1)<br>CONCENTRATION                                                                                                                                                             | (2) MASS                                                                                                                                                                    | (1)<br>CONCENTRATION                                                                                                                                                                 | (2) MASS                                                                                                                                                                  | (1)<br>CONCENTRATION                                                                                                                                                                | (2) MASS                                                                                                                                                             | ANALYSES                                                                                                                                                          | a. CONCEN-                                                                                                                                                           | b. MASS                                                                                                                                                                  |                                                                                                                                              | (2) MASS      | ANALYSES                  |
| METALS, CYANII                        | DE, AND                                                                                     | TOTAL                                                                                                     | PHENOI                                                                                        | LS                                                                                                                                                                               |                                                                                                                                                                             |                                                                                                                                                                                      |                                                                                                                                                                           |                                                                                                                                                                                     |                                                                                                                                                                      |                                                                                                                                                                   |                                                                                                                                                                      |                                                                                                                                                                          | 1 CONCENTION                                                                                                                                 |               |                           |
| 1M. Antimony,<br>Total (7440-36-0)    |                                                                                             |                                                                                                           | x                                                                                             |                                                                                                                                                                                  |                                                                                                                                                                             |                                                                                                                                                                                      |                                                                                                                                                                           |                                                                                                                                                                                     |                                                                                                                                                                      |                                                                                                                                                                   |                                                                                                                                                                      |                                                                                                                                                                          |                                                                                                                                              |               |                           |
| 2M. Arsenic, Total<br>(7440-38-2)     |                                                                                             |                                                                                                           | x                                                                                             |                                                                                                                                                                                  |                                                                                                                                                                             |                                                                                                                                                                                      |                                                                                                                                                                           |                                                                                                                                                                                     |                                                                                                                                                                      |                                                                                                                                                                   |                                                                                                                                                                      |                                                                                                                                                                          |                                                                                                                                              |               |                           |
| 3M. Beryllium,<br>Total (7440-41-7)   |                                                                                             |                                                                                                           | x                                                                                             |                                                                                                                                                                                  |                                                                                                                                                                             |                                                                                                                                                                                      |                                                                                                                                                                           |                                                                                                                                                                                     |                                                                                                                                                                      |                                                                                                                                                                   |                                                                                                                                                                      |                                                                                                                                                                          |                                                                                                                                              |               |                           |
| 4M. Cadmium,<br>Total (7440-43-9)     |                                                                                             |                                                                                                           | x                                                                                             |                                                                                                                                                                                  |                                                                                                                                                                             |                                                                                                                                                                                      |                                                                                                                                                                           |                                                                                                                                                                                     |                                                                                                                                                                      |                                                                                                                                                                   |                                                                                                                                                                      |                                                                                                                                                                          |                                                                                                                                              |               |                           |
| 5M. Chromium,<br>Total (7440-47-3)    |                                                                                             |                                                                                                           | x                                                                                             |                                                                                                                                                                                  |                                                                                                                                                                             |                                                                                                                                                                                      |                                                                                                                                                                           |                                                                                                                                                                                     |                                                                                                                                                                      | 1                                                                                                                                                                 |                                                                                                                                                                      |                                                                                                                                                                          |                                                                                                                                              |               |                           |
| 6M. Copper, Total<br>(7440-50-8)      |                                                                                             |                                                                                                           | x                                                                                             |                                                                                                                                                                                  |                                                                                                                                                                             |                                                                                                                                                                                      | Not                                                                                                                                                                       | Applicable f                                                                                                                                                                        | pr                                                                                                                                                                   | +                                                                                                                                                                 |                                                                                                                                                                      |                                                                                                                                                                          |                                                                                                                                              | <u>,</u>      |                           |
| 7M. Lead, Total<br>(7439-92-1)        |                                                                                             |                                                                                                           | x                                                                                             |                                                                                                                                                                                  |                                                                                                                                                                             |                                                                                                                                                                                      | Non                                                                                                                                                                       | Process                                                                                                                                                                             |                                                                                                                                                                      |                                                                                                                                                                   |                                                                                                                                                                      |                                                                                                                                                                          |                                                                                                                                              |               |                           |
| 8M. Mercury, total<br>(7439-97-6)     |                                                                                             |                                                                                                           | x                                                                                             |                                                                                                                                                                                  |                                                                                                                                                                             |                                                                                                                                                                                      | Was                                                                                                                                                                       | stewaters                                                                                                                                                                           |                                                                                                                                                                      |                                                                                                                                                                   |                                                                                                                                                                      |                                                                                                                                                                          | +                                                                                                                                            | ·····         |                           |
| 9M. Nickel, Total<br>(7440-02-0)      |                                                                                             |                                                                                                           | x                                                                                             |                                                                                                                                                                                  |                                                                                                                                                                             |                                                                                                                                                                                      |                                                                                                                                                                           |                                                                                                                                                                                     |                                                                                                                                                                      |                                                                                                                                                                   |                                                                                                                                                                      |                                                                                                                                                                          |                                                                                                                                              |               | -                         |
| 10M. Selenium,<br>Total (7782-49-2)   |                                                                                             |                                                                                                           | x                                                                                             |                                                                                                                                                                                  |                                                                                                                                                                             |                                                                                                                                                                                      |                                                                                                                                                                           |                                                                                                                                                                                     |                                                                                                                                                                      |                                                                                                                                                                   |                                                                                                                                                                      |                                                                                                                                                                          |                                                                                                                                              |               |                           |
| 11M. Silver, Total<br>(7440-22-4)     |                                                                                             |                                                                                                           | x                                                                                             |                                                                                                                                                                                  |                                                                                                                                                                             |                                                                                                                                                                                      |                                                                                                                                                                           |                                                                                                                                                                                     |                                                                                                                                                                      |                                                                                                                                                                   |                                                                                                                                                                      |                                                                                                                                                                          |                                                                                                                                              |               |                           |
| 12M. Thallium,<br>Total (7440-28-0)   |                                                                                             |                                                                                                           | x                                                                                             |                                                                                                                                                                                  |                                                                                                                                                                             |                                                                                                                                                                                      |                                                                                                                                                                           |                                                                                                                                                                                     |                                                                                                                                                                      |                                                                                                                                                                   |                                                                                                                                                                      |                                                                                                                                                                          |                                                                                                                                              |               |                           |
| 13M. Zinc, Total<br>(7440-66-6)       |                                                                                             |                                                                                                           | x                                                                                             |                                                                                                                                                                                  |                                                                                                                                                                             |                                                                                                                                                                                      |                                                                                                                                                                           |                                                                                                                                                                                     |                                                                                                                                                                      |                                                                                                                                                                   |                                                                                                                                                                      |                                                                                                                                                                          | +                                                                                                                                            | <u> </u>      |                           |
| 14M. Cyanide,<br>Total (57-12-5)      |                                                                                             |                                                                                                           | x                                                                                             |                                                                                                                                                                                  |                                                                                                                                                                             |                                                                                                                                                                                      |                                                                                                                                                                           |                                                                                                                                                                                     |                                                                                                                                                                      |                                                                                                                                                                   |                                                                                                                                                                      |                                                                                                                                                                          |                                                                                                                                              |               |                           |
| 15M. Phenols,<br>Total                |                                                                                             |                                                                                                           | x                                                                                             |                                                                                                                                                                                  |                                                                                                                                                                             |                                                                                                                                                                                      |                                                                                                                                                                           |                                                                                                                                                                                     |                                                                                                                                                                      |                                                                                                                                                                   |                                                                                                                                                                      |                                                                                                                                                                          |                                                                                                                                              |               |                           |
| DIOXIN                                |                                                                                             | ala internet                                                                                              |                                                                                               |                                                                                                                                                                                  |                                                                                                                                                                             |                                                                                                                                                                                      |                                                                                                                                                                           |                                                                                                                                                                                     |                                                                                                                                                                      |                                                                                                                                                                   | i <u> </u>                                                                                                                                                           |                                                                                                                                                                          |                                                                                                                                              |               |                           |
| 2,3,7,8 Tetra-<br>chlorodibenzo-P     |                                                                                             |                                                                                                           | x                                                                                             | DESCRIBE RESU                                                                                                                                                                    | JLTS                                                                                                                                                                        |                                                                                                                                                                                      |                                                                                                                                                                           |                                                                                                                                                                                     | <u></u>                                                                                                                                                              | - <u>**-</u>                                                                                                                                                      |                                                                                                                                                                      | <u></u>                                                                                                                                                                  |                                                                                                                                              |               |                           |

| CONTINUED FROM                                   | <u>n (</u>     | ONT     |                 |                                          |             |                      |                                                 | ( JD 07                               | 7966349     |           |                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Forms by Chem                                                                                                  | sw(                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1;11/1/98;s/nZZZYYYXXX                   |
|--------------------------------------------------|----------------|---------|-----------------|------------------------------------------|-------------|----------------------|-------------------------------------------------|---------------------------------------|-------------|-----------|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|
| 1. POLLUTANT                                     | 1997 (A. 1997) | MARK "  | X"              |                                          |             |                      | EFFLUENT                                        |                                       |             |           | 4. U                    | NITS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 5. IN                                                                                                          | TAKE (optional)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Netter and the second                    |
| AND CAS                                          | a, TEST-       | b. BE-  | c. BE-          | a. MAXIMUM [                             | DAILY VALUE | b. MAXIMUM 30        | DAY VALUE                                       | c. LONG TERM                          | AVRG. VALUE |           |                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | a. LONG                                                                                                        | STERM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                          |
| NUMBER                                           | ING            | LIEVED  | LIEVED          | warmen and a special sector starts       |             | (if ava              | ilablé)                                         | (if ava                               | ilable)     | d. NO. OF |                         | antenna al construction de la construc-<br>la construction de la construction<br>de la construction de la construction<br>de la construction de la construction<br>de la construction de la construction<br>de la construction de la construc | AVERAG                                                                                                         | E VALUE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | b. NO. OF                                |
| (n' available)                                   | REQUIR-        | SENT    | AB-             | (1)<br>CONCENTRATION                     | (2) MASS    | (1)<br>CONCENTRATION | (2) MASS                                        |                                       | (2) MASS    | ANALYSES  | a. CONCEN-              | b. MASS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                | (2) MASS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ANALYSES                                 |
| GC/MS FRACTION                                   | - VOLA         | TILE CO | MPOUN           | DS                                       |             | CONCENTION           | nyakan nanan sana Kabupatén<br>Manan menangkan  | CONCENTRATION                         |             |           |                         | nan ar ann an an a'                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CONCENTRATION                                                                                                  | <ul> <li>A second s</li></ul> |                                          |
| 1V. Acrolein                                     |                |         | an Breach an Ba | ALAN ANA ANA ANA ANA ANA ANA ANA ANA ANA |             | 0                    | r en de verste harringen ampetite and anne en e | ning of Factorian States and States 1 |             |           | ANTING ANT NA ANTAL AND |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | and a second |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | an a |
| (107-02-8)                                       |                |         | X               |                                          |             |                      |                                                 |                                       |             |           |                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                          |
| 2V. Acrylonitrile<br>(107-13-1)                  |                |         | x               |                                          |             |                      |                                                 |                                       |             |           |                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                          |
| 3V. Benzene<br>(71-43-2)                         |                |         | x               |                                          |             |                      |                                                 |                                       |             |           |                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                          |
| 4V. Bis (Chloro-<br>methyl) Ether<br>(542-88-1)  |                |         | x               |                                          |             |                      |                                                 |                                       |             |           |                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                          |
| 5V. Bromoform<br>(75-25-2)                       |                |         | x               |                                          |             |                      |                                                 |                                       |             |           |                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | *                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                          |
| 6V. Carbon<br>Tetrachloride<br>(56-23-5)         |                |         | x               |                                          |             |                      |                                                 |                                       |             |           |                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                          |
| 7V. Chlorobenzene<br>(108-90-7)                  |                |         | x               |                                          |             |                      |                                                 |                                       |             |           |                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                          |
| 8V. Chlorodi-<br>bromomethane<br>(124-48-1)      |                |         | x               |                                          |             |                      |                                                 |                                       |             |           |                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                          |
| 9V. Chloroethane<br>(75-00-3)                    |                |         | x               |                                          |             |                      | Not A                                           | pplicable fo                          | r           |           |                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                          |
| 10V. 2-Chloro-<br>ethylvinyl Ether<br>(110-75-8) |                |         | x               |                                          |             |                      | Non-I                                           | Process                               |             |           |                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                          |
| 11V. Chloroform<br>(67-66-3)                     |                |         | x               |                                          |             |                      | Wast                                            | ewaters                               |             |           |                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                          |
| 12V. Dichloro-<br>bromomethane<br>(75-27-4)      |                |         | x               |                                          |             |                      |                                                 |                                       |             |           |                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                          |
| 13V. Dichloro-<br>difluoromethane<br>(75-71-8)   |                |         | x               |                                          |             |                      |                                                 |                                       |             |           |                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                          |
| 14V. 1,1-Dichloro-<br>ethane (75-34-3)           |                |         | x               |                                          |             |                      |                                                 |                                       |             |           |                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                          |
| 15V. 1,2-Dichloro-<br>ethane (107-06-2)          |                |         | x               |                                          |             |                      |                                                 |                                       |             |           |                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                          |
| 16V. 1,1-Dichloro-<br>ethylene (75-35-4)         |                |         | x               |                                          |             |                      |                                                 |                                       |             |           |                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                          |
| 17V. 1,2-Dichloro-<br>propane (78-87-5)          |                |         | x               |                                          |             |                      |                                                 |                                       |             |           |                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                          |
| 18V. 1,3-Dichloro-<br>propylene (542-75-6)       |                |         | x               |                                          |             |                      |                                                 |                                       |             |           |                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                          |
| 19V. Ethylbenzene<br>(100-41-4)                  |                |         | x               |                                          |             |                      |                                                 |                                       |             |           |                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                          |
| 20V. Methyl<br>Bromlde (74-83-9)                 |                |         | x               |                                          |             |                      |                                                 |                                       |             |           |                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                          |
| 21V. Methyl<br>Chloride (74-87-3)                |                |         | x               |                                          |             |                      |                                                 |                                       |             |           |                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                          |

EPA FORM 3510-2C (Rev. 2-85)

|                                                   | (                          |              |                  |                | EPA I.C                                  | D. NUMBER (copy         | from Item 1 of fo: | rm 1) JTFA                                                                                                       | LL NUMBER                 | ]                                        |                           |                                                | Forms by Chen                            | aSW( n111975/5.                         | .21;11/1/98;a/nZZZYYYYXXXX |
|---------------------------------------------------|----------------------------|--------------|------------------|----------------|------------------------------------------|-------------------------|--------------------|------------------------------------------------------------------------------------------------------------------|---------------------------|------------------------------------------|---------------------------|------------------------------------------------|------------------------------------------|-----------------------------------------|----------------------------|
| CONTINUED FROM                                    | PAGE                       | V-4          |                  |                |                                          | CAD 077                 | 7966349            | 00                                                                                                               | 2, 003, 004               |                                          | Form A<br>OMB N<br>Approv | oproved.<br>5. 2040-0086<br>5. expires 7-31-88 | ı                                        |                                         |                            |
| 1 POLLITANT                                       |                            | MARK         | Vii              |                |                                          | <u> </u>                | CELLIENT           |                                                                                                                  |                           |                                          | A Providence              | NITO                                           | <u>в</u> и                               | TAKE (aptional                          | A STATE                    |
| AND CAS<br>NUMBER<br>(If available)               | a, TEST-<br>ING<br>REQUIR: | b, BE-       | c: BE-<br>LIEVED | a, MAXIMUM     | DAILY VALUE                              | b. MAXIMUM 3<br>(If ava | 0 DAY VALUE        | c. LONG TERM<br>(if av)                                                                                          | I AVRG. VALUE<br>allable) | d, NO, OF                                | a CONCEN-                 | h Magg                                         | a. LONG<br>AVERAG                        | E VALUE                                 | b, NO, OF                  |
|                                                   | ED                         | SENT         | SENT             | CONCENTRATION  | (2) MASS                                 | CONCENTRATION           | (2) MASS           | CONCENTRATION                                                                                                    | (2) MASS                  | ANALISES                                 | TRATION                   | 0. 101703                                      | CONCENTRATION                            | (2) MASS                                | ANALISCO                   |
| GC/MS FRACTION                                    | - VOLA                     | TILE CO      | MPOUN            | DS (continued) | And Anna Anna Anna Anna Anna Anna Anna A |                         |                    |                                                                                                                  |                           |                                          |                           | Carlo (ng mandang biri) (bir                   | (***), ***, **************************** |                                         |                            |
| 22V. Methylene,                                   |                            | T CONTRACTOR | 1 CONTRACTOR NO  |                |                                          | T                       |                    | T                                                                                                                |                           | 1                                        | T                         | 1                                              |                                          | <u></u>                                 | T                          |
| Chloride (75-09-2)<br>23V, 1,1,2,2-Tetra-         |                            |              | ×                |                |                                          |                         |                    |                                                                                                                  |                           |                                          |                           |                                                |                                          |                                         |                            |
| chloroethane<br>(79-34-5)                         |                            |              | x                |                |                                          |                         |                    |                                                                                                                  |                           |                                          |                           |                                                |                                          |                                         |                            |
| 24V. Tetrachloro-<br>ethylene (127-18-4)          |                            |              | x                |                |                                          |                         |                    |                                                                                                                  |                           |                                          |                           |                                                |                                          |                                         |                            |
| 25V. Toluene<br>(108-88-3)                        |                            |              | x                |                |                                          |                         |                    |                                                                                                                  |                           |                                          |                           |                                                |                                          |                                         |                            |
| 26V. 1,2-Trans-<br>Dichloroethylene<br>(156-60-5) |                            |              | x                |                |                                          |                         | Not A              | pplicable fo                                                                                                     | r                         |                                          |                           |                                                |                                          |                                         |                            |
| 27V. 1,1,1-Tri-<br>chloroethane<br>(71-55-6)      |                            |              | x                |                |                                          |                         | Non-F              | rocess                                                                                                           |                           |                                          |                           |                                                |                                          |                                         |                            |
| 28V. 1,1,2-Tri-<br>Chloroethane<br>(79-00-5)      |                            |              | x                |                |                                          |                         | Waste              | waters                                                                                                           |                           |                                          |                           |                                                |                                          |                                         |                            |
| 29V. Trichloro-<br>ethylene (79-01-6)             |                            |              | x                |                |                                          |                         |                    |                                                                                                                  |                           |                                          |                           |                                                |                                          |                                         |                            |
| 30V. Trichloro-<br>fluoromethane<br>(75-69-4)     |                            |              | x                |                |                                          |                         |                    |                                                                                                                  |                           |                                          |                           |                                                |                                          |                                         |                            |
| 31V. Vinyl<br>Chloride (75-01-4)                  |                            |              | x                |                |                                          |                         |                    |                                                                                                                  |                           |                                          |                           |                                                |                                          |                                         |                            |
| <b>GC/MS FRACTION</b>                             | - ACID                     | COMPOL       | JNDS             |                |                                          |                         |                    |                                                                                                                  |                           | 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1 |                           |                                                |                                          | 2012 - 10 - 10 - 10 - 10 - 10 - 10 - 10 |                            |
| 1A, 2-Chlorophenol<br>(95-57-8)                   |                            |              | x                |                |                                          |                         |                    | and the second |                           |                                          |                           |                                                |                                          |                                         | - Service and Service .    |
| 2A. 2,4-Dichloro-<br>phenol (120-83-2)            |                            |              | x                |                |                                          |                         | ·                  |                                                                                                                  |                           |                                          |                           |                                                |                                          |                                         |                            |
| 3A. 2,4-Dimethyl-<br>phenol (105-67-9)            |                            |              | x                |                |                                          |                         |                    |                                                                                                                  |                           |                                          |                           |                                                |                                          |                                         |                            |
| 4A. 4,6-Dinitro-0-<br>Cresol (534-52-1)           |                            |              | x                |                |                                          |                         |                    |                                                                                                                  |                           |                                          |                           |                                                |                                          |                                         | 1                          |
| 5A. 2,4-Dinitro-<br>phenol (51-28-5)              |                            |              | x                |                |                                          |                         |                    |                                                                                                                  |                           |                                          |                           |                                                |                                          |                                         |                            |
| 6A. 2-Nitrophenol<br>(88-75-5)                    |                            |              | x                |                |                                          |                         |                    |                                                                                                                  |                           |                                          |                           |                                                |                                          |                                         |                            |
| 7A. 4-Nitrophenol<br>(100-02-7)                   |                            |              | x                |                |                                          |                         |                    |                                                                                                                  | · · · · · · · · ·         |                                          |                           |                                                |                                          |                                         |                            |
| 8A. P-Chloro-M-<br>Cresol (59-50-7)               |                            |              | x                |                |                                          |                         |                    |                                                                                                                  |                           |                                          |                           |                                                |                                          | 1                                       |                            |
| 9A. Pentachloro-<br>phenol (87-86-5)              |                            |              | x                |                |                                          |                         |                    |                                                                                                                  |                           |                                          |                           |                                                |                                          |                                         |                            |
| 10A. Phenol<br>(108-95-2)                         |                            |              | x                |                |                                          |                         |                    |                                                                                                                  |                           |                                          |                           |                                                |                                          |                                         |                            |
| 11A: 2,4,6-Tri-<br>chlorophenol (88<br>06-2)      |                            |              | x                |                |                                          |                         |                    |                                                                                                                  |                           |                                          |                           |                                                |                                          |                                         |                            |

| CONTINUED FROM      | 1              | ONT    |        |                                     |                       |                                          | .D 07                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 7966349                      |            | Ferms by ChemiSW( /n  1197x/521:11/1/08:xhzZZ?YYY)000 |                       |                                    |               |                   |                               |
|---------------------|----------------|--------|--------|-------------------------------------|-----------------------|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------|-------------------------------------------------------|-----------------------|------------------------------------|---------------|-------------------|-------------------------------|
| 1. POLLUTANT        | نوهم المنتخرين | MARK " | X"     |                                     |                       | 3,                                       | EFFLUENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | angerte. Angerte             |            | Plagad Katalagia                                      | 4 []                  | NITS                               | 5 1           | JTAK - (ontional) | 1765 and the desidence of the |
| AND CAS             | a. TEST-       | b. BE- | c. BE- | a. MAXIMUM DA                       | ILY VALUE             | b: MAXIMUM 30                            | DAY VALUE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | C LONG TERM                  | AVRG VALUE | ing an ann an ann an an an an an an an an a           |                       | Conferences and Annual States      |               | TERM              | Second and second second      |
| NUMBER              | ING            | LIEVED | LIEVED | and the second states of the second | and the second second | (if ava                                  | ilable)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | fif ave                      | ulahia)    | d NO OF                                               |                       | and to be store and the Conference | AVERAG        |                   | NO OF                         |
| (if available)      | REQUIR-        | PRE-   | AB-    | (1)                                 |                       | (1)                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | (1)                          | initiad)   | ANIAL VOED                                            | a CONCEN-             | H MACC                             |               |                   | ANIAL YOFC                    |
|                     | ED             | SENT   | SENT   | CONCENTRATION                       | (2) MASS              | CONCENTRATION                            | (2) MASS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | CONCENTRATION                | (2) MASS   | ANALIGLO                                              | TRATION               | 0.101400                           | CONCENTRATION | (2) MASS          | ANALISES                      |
| GC/MS FRACTION      | - BASE/        | NEUTRA | U COM  | POLINDS                             |                       | . Million and a                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                              |            | Strates a second states                               |                       | and the first in the state of the  | CENCENTION    |                   | Sector Sector                 |
| 1R Accordentitione  |                |        |        | 001100                              |                       | a an | A Construction of the second sec | Commission States and States |            | Senanda da Antonema da                                | and the second second |                                    |               |                   |                               |
| no. Acenaphinene    |                |        | х      |                                     |                       |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                              |            |                                                       |                       |                                    |               |                   |                               |
| (03-32-9)           |                |        |        |                                     |                       |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                              |            |                                                       |                       |                                    |               |                   |                               |
| 2B. Acenaphylene    |                |        | х      |                                     |                       |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                              |            |                                                       |                       |                                    |               |                   |                               |
| (208-96-8)          |                |        |        |                                     |                       |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                              |            |                                                       |                       |                                    |               |                   |                               |
| 38. Anthracene      |                |        | x      |                                     |                       |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                              |            |                                                       |                       |                                    |               |                   |                               |
| (120-12-7)          |                |        |        |                                     |                       |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                              |            |                                                       |                       |                                    |               |                   |                               |
| 4B. Benzidine       |                |        | x      |                                     |                       |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                              |            |                                                       |                       |                                    |               |                   |                               |
| (92-87-5)           |                |        |        |                                     |                       |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                              |            |                                                       |                       |                                    |               |                   |                               |
| oB. Benzo (a)       |                |        |        |                                     |                       |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                              |            |                                                       |                       |                                    |               |                   |                               |
| Anthracene          |                |        | х      |                                     |                       |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                              |            |                                                       |                       |                                    |               |                   |                               |
| (56-55-3)           |                |        |        |                                     |                       |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                              |            |                                                       |                       |                                    |               |                   |                               |
| 6B. Benzo (a)       |                |        | x      |                                     |                       |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                              |            |                                                       |                       |                                    |               |                   |                               |
| Pyrene (50-32-8)    |                |        |        |                                     |                       |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                              |            |                                                       |                       |                                    |               |                   |                               |
| 78.3,4-Benzo-       |                |        |        |                                     |                       |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                              |            |                                                       |                       |                                    |               |                   |                               |
| flouranthene        |                |        | X      |                                     |                       |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                              |            |                                                       |                       |                                    |               |                   |                               |
| (205-99-2)          |                |        |        |                                     |                       |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                              |            |                                                       |                       |                                    | 1             |                   | 1 8                           |
| 8B. Benzo (ghi)     |                |        |        |                                     |                       |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                              |            |                                                       |                       |                                    |               |                   |                               |
| Perylene            |                |        | х      |                                     |                       |                                          | Not An                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | hlicable for                 |            |                                                       |                       |                                    | :             |                   |                               |
| (191-24-2)          |                |        |        |                                     |                       |                                          | not Ap                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                              |            |                                                       |                       |                                    |               |                   |                               |
| 9B. Benzo (k)       |                |        |        |                                     |                       | +                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                              |            |                                                       |                       |                                    |               |                   |                               |
| Flouranthene        |                |        | x      |                                     |                       |                                          | Non-Pr                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | bcess                        |            |                                                       |                       |                                    |               |                   |                               |
| (207-08-9)          |                |        |        |                                     |                       | 1                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                              |            |                                                       |                       |                                    |               |                   |                               |
| 10B. Bis (2-Chloro- |                |        |        |                                     |                       | · · · · · · · · · · · · · · · · · · ·    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                              |            |                                                       |                       |                                    |               |                   |                               |
| ethoxy) Methane     |                |        | x      |                                     |                       |                                          | Wastev                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | vaters                       |            |                                                       |                       |                                    |               |                   |                               |
| (111-91-1)          |                |        | ~      |                                     |                       |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                              |            |                                                       |                       |                                    | 1             |                   |                               |
| 11B. Bis (2-Chloro- |                |        |        |                                     |                       |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                              |            |                                                       |                       |                                    |               |                   |                               |
| ethyl) Ether        |                |        | x      |                                     |                       |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                              |            |                                                       |                       |                                    |               |                   |                               |
| (111-44-4)          |                |        |        |                                     |                       |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                              |            |                                                       |                       |                                    |               |                   |                               |
| 12B. Bis (2-Chloro- |                |        | -      |                                     |                       |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                              |            |                                                       |                       |                                    |               |                   |                               |
| isopropyl) Ether    |                |        | x      |                                     |                       |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                              |            |                                                       |                       |                                    |               |                   |                               |
| (102-60-1)          |                |        | ~      |                                     |                       |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                              |            |                                                       |                       |                                    |               |                   |                               |
| 13B. Bis (2-Chloro- |                |        |        |                                     |                       |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                              |            |                                                       |                       |                                    |               | ·····             |                               |
| ethyl) Phthalate    |                | x      | x      |                                     |                       |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                              |            |                                                       |                       |                                    |               |                   |                               |
| (117-81-7)          |                |        | ^      |                                     |                       |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                              |            |                                                       |                       |                                    |               |                   |                               |
| 14B. 4-Bromo-       |                | _      |        |                                     |                       |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                              |            |                                                       |                       |                                    |               |                   |                               |
| phenyl Phenyl       |                |        | - v    |                                     |                       |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                              |            |                                                       |                       |                                    |               |                   |                               |
| Ether (101-55-3)    |                |        | ^      |                                     |                       |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                              |            |                                                       |                       |                                    |               |                   |                               |
| 15B. Butyl Benzvl   |                |        |        |                                     |                       |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                              |            |                                                       |                       |                                    |               |                   |                               |
| Phthalate (85-68-7) |                |        | x      |                                     |                       |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                              |            |                                                       |                       |                                    |               |                   |                               |
| 16B. 2-Chloro-      |                |        |        |                                     |                       |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                              |            |                                                       |                       |                                    |               |                   |                               |
| nanthalene          |                |        | ~      |                                     |                       |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                              |            |                                                       |                       |                                    |               |                   |                               |
| (91-58-7)           |                |        |        |                                     |                       |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                              |            |                                                       |                       |                                    |               |                   |                               |
| 17B 4-Chloro-       |                |        |        |                                     |                       |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                              |            |                                                       |                       |                                    |               |                   |                               |
| nhenyl Phenyl       |                |        | ~      |                                     |                       |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                              |            |                                                       |                       |                                    |               |                   |                               |
| Fiber (7005-72-3)   |                | 1      | ^      |                                     |                       |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                              |            |                                                       |                       |                                    |               |                   |                               |
| 18B Chrysene        |                |        |        |                                     |                       |                                          | ·                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                              |            |                                                       |                       |                                    |               |                   |                               |
| (218-01-0)          |                | 1      | x      |                                     |                       |                                          | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                              |            |                                                       |                       |                                    |               |                   |                               |
| 10B Dibenzo (o.k)   |                |        |        |                                     |                       |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                              |            |                                                       |                       |                                    |               |                   |                               |
|                     |                |        |        |                                     |                       |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                              |            |                                                       |                       |                                    |               |                   |                               |
|                     |                |        | x      |                                     |                       |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                              |            |                                                       |                       |                                    |               |                   |                               |
| 200 1 2 0-11-       |                |        |        |                                     |                       | ļ [                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                              |            |                                                       |                       |                                    |               |                   |                               |
| LUD. I, Z-UICHIORO- |                |        | x      |                                     |                       |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                              |            |                                                       |                       |                                    |               |                   |                               |
| 21P 1 2 Diable      |                |        |        |                                     |                       |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                              |            |                                                       |                       |                                    |               |                   |                               |
| AID. 1,3-DICHIORO-  | - 1            |        | x      |                                     |                       |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                              |            |                                                       |                       |                                    |               |                   |                               |
| Uenzene (541-73-1)  |                |        |        |                                     |                       |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -                            |            |                                                       |                       |                                    |               |                   |                               |
|                                         |          | 16      |                     |               | EPA I.C                                 | D. NUMBER (copy<br>CAD 07     | from Item 1 of for<br>7966349 |                                                           | LL NUMBER<br>02, 003, 004      |                       | Form A<br>OMB N                          | pproved.<br>o. 2040-0086 | Forms by Chen                         | , pin11197.v5 (     | 21;11/1/98;9/n7ZZYYYYXX                  |
|-----------------------------------------|----------|---------|---------------------|---------------|-----------------------------------------|-------------------------------|-------------------------------|-----------------------------------------------------------|--------------------------------|-----------------------|------------------------------------------|--------------------------|---------------------------------------|---------------------|------------------------------------------|
| 1 POLILITANT                            | 2        | MARK "  | <b>yu</b> angaanian |               | . <b>I</b>                              | <b>o</b>                      | CECILICAIT                    | ang panalah panang sa | and and a state of the State   |                       | Approv                                   | ai expires 7-31-88       | )<br>                                 | TAKE (and a -1      |                                          |
| AND CAS                                 | a. TEST- | 5, 8E-  | c. BE-              | a. MAXIMUM DA | ILY VALUE                               | UE b. MAXIMUM 30 DAY VALUE c. |                               | c, LONG TERM                                              | C, LONG TERM AVRG. VALUE       |                       | 4:0                                      |                          | a, LON                                | G TERM              |                                          |
| (if available)                          | REQUIR-  | PRE-    | AB-                 |               | (2) MASS                                | (if ava<br>(1)                | (2) MASS                      | (If au<br>(1)                                             | ailable)<br>(2) MASS           | ANALYSES              | a. CONCEN-                               | b, MASS                  | AVERAG                                | E VALUE<br>(2) MASS | 6, NO, OF                                |
| GCIMS ERACTION                          | BASE     | VELITRA | COME                |               | പ                                       | CONCENTRATION                 |                               | CONCENTRATION                                             |                                | a and a second second | TRATION                                  |                          | CONCENTRATION                         |                     |                                          |
| 22B 1 4-Dichloro-                       |          |         |                     |               | eo)                                     |                               |                               |                                                           | Children de La commencia de la | and an order of the   | an a |                          |                                       |                     | an a |
| benzene (106-46-7)                      |          |         | x                   |               |                                         |                               |                               |                                                           |                                |                       |                                          |                          |                                       |                     |                                          |
| 23B. 3,3'-Dichloro-                     |          |         |                     |               |                                         |                               |                               |                                                           |                                |                       |                                          |                          |                                       |                     |                                          |
| benzidine<br>(91-94-1)                  |          |         | x                   |               |                                         |                               | :                             |                                                           |                                |                       |                                          |                          |                                       |                     |                                          |
| 24B, Diethyl                            | <b> </b> |         |                     |               |                                         |                               |                               |                                                           |                                |                       |                                          |                          |                                       |                     |                                          |
| Phthalate                               |          |         | х                   |               |                                         |                               |                               |                                                           |                                |                       |                                          |                          |                                       |                     |                                          |
| (84-66-2)                               |          |         |                     |               | · ·····                                 |                               |                               |                                                           |                                |                       |                                          |                          |                                       |                     |                                          |
| 25B. Ulmetnyi<br>Phthalate              |          |         | v                   |               |                                         |                               |                               |                                                           |                                |                       |                                          |                          |                                       |                     |                                          |
| (131-11-3)                              |          |         | ^                   |               |                                         |                               |                               |                                                           |                                |                       |                                          |                          |                                       |                     |                                          |
| 26B. DI-N-Butyl                         |          |         |                     |               | • • • • • • • • • • • • • • • • • • • • |                               |                               |                                                           |                                | 1                     |                                          |                          |                                       |                     |                                          |
| Phinalate<br>(84-74-2)                  | 1        |         | x                   |               |                                         |                               |                               |                                                           |                                |                       |                                          |                          |                                       |                     |                                          |
| 27B. 2,4-Dinitro-                       |          |         |                     |               |                                         |                               |                               |                                                           |                                |                       |                                          |                          |                                       |                     |                                          |
| toluene (121-14-2)                      |          |         | X                   |               |                                         |                               |                               |                                                           |                                |                       |                                          |                          |                                       |                     |                                          |
| 28B. 2,6-Dinitro-<br>toluene (606-20-2) | 1        |         | х                   |               |                                         |                               |                               |                                                           |                                |                       |                                          |                          |                                       |                     |                                          |
| 29B. DI-N-Octyl                         |          |         |                     |               |                                         |                               |                               |                                                           |                                | +                     |                                          |                          |                                       |                     |                                          |
| Phthalate<br>(117-84-0)                 |          |         | x                   |               |                                         |                               | ΝΟΙ ΑΡ                        | Discussion of the second                                  |                                |                       |                                          |                          |                                       |                     |                                          |
| 308. 1,2-Diphenyl-                      |          |         |                     |               |                                         |                               | Non-Pr                        | ocess                                                     |                                |                       |                                          |                          |                                       |                     |                                          |
| benzene) (122-66-7)                     |          |         | x                   |               |                                         |                               |                               |                                                           |                                |                       |                                          |                          |                                       |                     |                                          |
| 31B. Fluorathene                        |          |         | x                   |               | ····                                    |                               | Wastev                        | /aters                                                    |                                |                       |                                          |                          | · · · · · · · · · · · · · · · · · · · |                     |                                          |
| (206-44-0)<br>32B, Fluorene             |          |         |                     |               |                                         |                               |                               |                                                           |                                |                       |                                          |                          |                                       |                     |                                          |
| (86-73-7)                               |          |         | X                   |               |                                         |                               |                               |                                                           |                                |                       |                                          |                          |                                       |                     |                                          |
| 33B. Hexachloro-                        |          |         | x                   |               |                                         |                               |                               |                                                           |                                |                       |                                          |                          |                                       |                     |                                          |
| 34B. Hexa-                              | <u> </u> |         |                     |               |                                         |                               |                               |                                                           |                                |                       |                                          |                          |                                       |                     |                                          |
| chlorobutadiene                         |          |         | x                   |               |                                         |                               |                               |                                                           |                                |                       |                                          |                          |                                       | 1                   |                                          |
| (87-68-3)<br>35B Hexachloro-            |          |         |                     |               |                                         |                               |                               |                                                           |                                |                       |                                          |                          |                                       |                     |                                          |
| cyclopentadiene                         |          |         | x                   |               |                                         |                               |                               |                                                           |                                |                       |                                          |                          |                                       |                     |                                          |
| 36B. Hexachloro-                        |          |         |                     |               |                                         |                               |                               | ······································                    |                                |                       |                                          |                          |                                       |                     |                                          |
| ethane (67-72-1)                        |          |         | <u>×</u>            |               |                                         |                               |                               |                                                           |                                |                       |                                          |                          |                                       |                     |                                          |
| 3/B. Indeno                             |          |         |                     |               |                                         |                               |                               |                                                           |                                |                       |                                          |                          |                                       |                     |                                          |
| (193-39-5)                              |          |         | X                   |               |                                         |                               |                               |                                                           |                                |                       |                                          |                          |                                       |                     |                                          |
| 38B. Isophorone                         |          |         | x                   |               |                                         |                               |                               |                                                           |                                |                       |                                          |                          |                                       |                     |                                          |
| (78-59-1)<br>39B. Naphthalene           |          |         |                     |               |                                         |                               |                               |                                                           |                                |                       |                                          |                          |                                       |                     |                                          |
| (91-20-3)                               |          |         | X                   |               |                                         |                               |                               |                                                           |                                |                       |                                          |                          |                                       |                     |                                          |
| 40B. Nitropenzene<br>(98-95-3)          |          |         | x                   |               |                                         |                               |                               |                                                           |                                |                       |                                          |                          |                                       |                     |                                          |
| 41B. N-Nitro-                           |          |         |                     |               |                                         |                               |                               |                                                           |                                | <b> </b>              |                                          |                          |                                       |                     |                                          |
| sodimethylamine                         |          |         | x                   |               |                                         |                               |                               |                                                           |                                |                       |                                          |                          |                                       |                     |                                          |
| 42B. N-Nitrosodi- N-                    |          |         |                     |               |                                         |                               |                               |                                                           |                                |                       |                                          |                          |                                       |                     |                                          |
| Propylamine                             |          |         | x                   |               |                                         |                               |                               |                                                           |                                |                       |                                          |                          |                                       |                     |                                          |
| (621-64-7)                              | L        |         |                     |               |                                         |                               |                               |                                                           |                                |                       |                                          |                          |                                       |                     |                                          |

| 1 POLLUTANT                                    |                             |              |             |                      |                                  |                      |           | D 07                        | 7966349                                                                                                         |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                             | Forms by Cheni                  | SW( n11197;v5.2      | 21:11/1/98;4/n222YYYYXXX                                 |
|------------------------------------------------|-----------------------------|--------------|-------------|----------------------|----------------------------------|----------------------|-----------|-----------------------------|-----------------------------------------------------------------------------------------------------------------|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|---------------------------------|----------------------|----------------------------------------------------------|
| I. FULLUIAN                                    | ili.<br>Marine i <b>m</b> a | MARK ">      | <b>("</b>   |                      | yoʻgʻ litti taraqiyadi.          | 3. E                 | FELUENT   |                             | 12000000000000000000000000000000000000                                                                          | ana ana ang ang ang ang ang ang ang ang | 4 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | NITS                                        | 5 INTAKE (pollonal)             |                      |                                                          |
| AND CAS                                        | a. TEST-                    | b. BE-       | c. BE-      | a. MAXIMUM DA        | ILY VALUE                        | b. MAXIMUM 30 I      | DAY VALUE | c. LONG TERM                | VRG. VALUE                                                                                                      | Constant Constant Section               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <u></u>                                     | a, LONO                         | G TERM               | Street Street Street                                     |
| NUMBER                                         | ING                         | LIEVED       | LIEVED      |                      | Company of Constant of Berlinson | (If avai             | lable)    | (if ava                     | lable)                                                                                                          | d. NO. OF                               | <ul> <li>A spectrum of the second s</li></ul> |                                             | AVERAG                          | E VALUE              | b. NO. OF                                                |
| (ir available)                                 | ED                          | PRE-<br>SENT | AB-<br>SENT | (1)<br>CONCENTRATION | (2) MASS                         | (1)<br>CONCENTRATION | (2) MASS  | (1)<br>CONCENTRATION        | (2) MASS                                                                                                        | ANALYSES                                | a, CONCEN-<br>TRATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | b. MASS                                     | (1)<br>CONCENTRATION            | (2) MASS             | ANALYSES                                                 |
| GC/MS FRACTION                                 | - BASE/I                    | NEUTRÀ       | L COM       | POUNDS (continu      | ued)                             |                      |           |                             |                                                                                                                 | A Digital Andreas                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | and a second of the second                  | and a subscription of the sound | nang nangarang ang k |                                                          |
| 43B. N-Nitro-<br>sodiphenylamine<br>(86-30-6)  |                             |              | x           |                      |                                  |                      |           |                             |                                                                                                                 |                                         | anna tarb i gal tind ping                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | a ing ang ang ang ang ang ang ang ang ang a |                                 | <u></u>              | <u>, in a straight and defension of shareful the sec</u> |
| 44B. Phenanthrene<br>(85-01-8)                 |                             |              | x           |                      |                                  |                      |           |                             |                                                                                                                 | -                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                             |                                 |                      |                                                          |
| 45B, Pyrene<br>(129-00-0)                      |                             |              | x           |                      |                                  |                      |           |                             |                                                                                                                 |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                             |                                 |                      |                                                          |
| 46B. 1,2,4-Tri-<br>Chlorobenzene<br>(120-82-1) |                             |              | x           |                      |                                  |                      |           |                             |                                                                                                                 |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                             |                                 |                      |                                                          |
| GC/MS FRACTION                                 | - PESTIC                    | CIDES        |             |                      |                                  | in the second second |           | a and a state of the second |                                                                                                                 | a george george angewere                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | The Origination of the State                |                                 |                      |                                                          |
| 1P. Aldrin<br>(309-00-2)                       |                             |              | x           |                      | *******                          |                      |           |                             | And Andrewson |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                             |                                 |                      |                                                          |
| 2P.α-BHC<br>(319-85-7)                         |                             |              | x           |                      |                                  |                      | Not R     | equired for                 |                                                                                                                 |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                             |                                 |                      |                                                          |
| 3P.ß-BHC<br>(319-85-7)                         |                             |              | х           |                      |                                  |                      | steam     | electric fac                | lities and                                                                                                      |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | . <u></u>                                   |                                 |                      |                                                          |
| 4Ρ. γ-BHC (58-<br>89-9)                        |                             |              | x           |                      |                                  |                      |           |                             | nues unu                                                                                                        |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                             |                                 |                      |                                                          |
| 5P. δ-BHC<br>(319-86-8)                        |                             |              | x           |                      |                                  |                      | Not A     | pplicable for               |                                                                                                                 |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                             |                                 |                      |                                                          |
| 6P. Chlordane (57<br>74-9)                     |                             |              | x           |                      |                                  |                      | Non-F     | rocess                      |                                                                                                                 |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                             |                                 |                      |                                                          |
| 7P. 4,4'-DDT<br>(50-29-3)                      |                             |              | x           |                      |                                  |                      | Waste     | waters                      |                                                                                                                 |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | · · · · · · · · · · · · · · · · · · ·       |                                 |                      |                                                          |
| 8P. 4,4'-DDE<br>(72-55-9)                      |                             |              | x           |                      |                                  |                      |           |                             |                                                                                                                 |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                             |                                 |                      |                                                          |
| 9P. 4,4'-DDD<br>(72-54-8)                      |                             |              | x           |                      |                                  |                      |           |                             | ·                                                                                                               |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                             |                                 |                      |                                                          |
| 10P, Dieldrin<br>(60-57-1)                     |                             |              | x           |                      |                                  |                      |           |                             | · · · · · · · · · · · · · · · · · · ·                                                                           |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                             |                                 |                      |                                                          |
| 11P, α-Endosulfan<br>(115-29-7)                |                             |              | x           |                      |                                  |                      |           |                             |                                                                                                                 |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                             |                                 |                      |                                                          |
| 12P. ß-Endosulfan<br>(115-29-7)                |                             |              | x           |                      |                                  |                      |           |                             |                                                                                                                 |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                             |                                 |                      |                                                          |
| 13P. Endosulfan<br>Sulfate (1031-07-8)         |                             |              | x           |                      |                                  |                      | ······    |                             |                                                                                                                 |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                             |                                 |                      |                                                          |
| 14P. Endrin<br>(72-20-8)                       |                             |              | x           |                      |                                  |                      |           |                             |                                                                                                                 |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                             |                                 |                      |                                                          |
| 15P. Endrin<br>Aldehyde<br>(7421-93-4)         |                             |              | x           |                      |                                  |                      |           |                             |                                                                                                                 |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ······                                      |                                 |                      |                                                          |
| 16P. Heptachlor<br>(75-44-8)                   |                             | 05)          | x           |                      |                                  |                      |           |                             |                                                                                                                 |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                             |                                 |                      |                                                          |

| CONTINUED FROM                                      |                                  | √-8                        |                  |               | EPA I.(   | D. NUMBER (copy<br>CAD 07      | from Item 1 of fo.<br>7966349    | rm 1)( TFA            | LL NUMBER<br>12, 003, 004 |            | Form A<br>OMB N<br>Approv | pproved.<br>o. 2040-0086<br>al expires 7-31-8 | Forms by Chem              | 5w(7                               | .21:11/1/98:s/nZZZYYYYXXX |
|-----------------------------------------------------|----------------------------------|----------------------------|------------------|---------------|-----------|--------------------------------|----------------------------------|-----------------------|---------------------------|------------|---------------------------|-----------------------------------------------|----------------------------|------------------------------------|---------------------------|
| 1. POLLUTANT<br>AND CAS<br>NUMBER<br>(if available) | 2.<br>a. TEST-<br>ING<br>BEOLUB- | MARK "<br>b. BE-<br>LIEVED | C. BE-<br>LIEVED | a. MAXIMUM DA | ILY VALUE | 3:<br>b. MAXIMUM 30<br>(If ava | EFFLUENT<br>DAY VALUE<br>ilable) | c. LONG TERM          | AVRG, VALUE               | d. NO. OF  | 4. U<br>a. CONCEN-        | NITS                                          | 5. IN<br>a. LONO<br>AVERAG | ITAKE (optional<br>TERM<br>E VALUE | b, NO, OF                 |
|                                                     | ED                               | SENT                       | SENT             | CONCENTRATION | (2) MASS  | CONCENTRATION                  | (2) MASS                         | CONCENTRATION         | (2) MASS                  | 710121020- | TRATION                   | D. 111 100                                    | CONCENTRATION              | (2) MASS                           |                           |
| GC/MS FRACTION                                      | - PESTI                          | CIDES (                    | continue         | ed)           |           |                                |                                  | Const Marina Constant |                           |            |                           |                                               |                            | <u></u>                            |                           |
| 17P. Heptachlor<br>Epoxide<br>(1024-57-3)           |                                  | i                          | x                |               |           |                                |                                  |                       |                           |            |                           |                                               |                            |                                    |                           |
| 18P. PCB-1242<br>(53469-21-9)                       |                                  |                            | x                |               |           | Not Requir                     | ed for                           |                       |                           |            |                           |                                               |                            |                                    |                           |
| 19P. PCB-1254<br>(11097-69-1)                       |                                  |                            | x                |               |           | steam elec                     | tric facilitie                   | s and                 |                           |            |                           |                                               |                            |                                    |                           |
| 20P. PCB-1221<br>(11104-28-2)                       |                                  |                            | x                |               |           | Not Applic                     | able for                         |                       |                           | -          |                           |                                               |                            |                                    |                           |
| 21P. PCB-1232<br>(11141-16-5)                       |                                  |                            | x                |               |           | Non-Proce                      | SS                               |                       |                           |            |                           |                                               |                            |                                    |                           |
| 22P. PCB-1248<br>(12672-29-6)                       |                                  |                            | x                |               |           | Mactowate                      |                                  |                       |                           |            |                           |                                               |                            |                                    |                           |
| 23P, PCB-1260<br>(11096-82-5)                       |                                  |                            | x                |               |           | Wastewate                      | 15                               |                       |                           |            |                           |                                               |                            |                                    |                           |
| 24P. PCB-1016<br>(12674-11-2)                       |                                  |                            | x                |               |           |                                |                                  |                       |                           |            |                           |                                               |                            |                                    |                           |
| 25P. Toxaphene<br>(8001-35-2)                       |                                  |                            | x                |               |           |                                |                                  |                       |                           |            |                           |                                               |                            |                                    |                           |

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Appendix C

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## ANALYTICAL RESULTS



January 2, 2001

Service Request No: K2005315

Clint Gans Pacific Gas & Electric Company 9 Mls N.W. of Avilla Beach Avila Beach, CA 93424

#### Re: Diablo Canyon NPDES

Dear Clint:

Enclosed are the revised pages for the sample(s) submitted to our laboratory on July 19, 2000. For your reference, these analyses have been assigned our service request number K2005315.

Please call if you have any questions. My extension is 3316.

Respectfully submitted,

Columbia Analytical Services, Inc.

Jeff Christian Laboratory Director

JC/gep

Page 1 of

#### **Inorganic Data Qualifiers**

- \* The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- i The MRL/MDL has been elevated due to a matrix interference.
- X See case narrative.

#### **Metals Data Qualifiers**

- # The control limit criteria is not applicable. See case narrative.
- B The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- E The reported value is estimated because of the presence of matrix interference.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
- i The MRL/MDL has been elevated due to a matrix interference.
- X See case narrative.
- \* The duplicate analysis not within control limits. See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.

#### **Organic Data Qualifiers**

- . The result is an outlier. See case narrative.
  - # The control limit criteria is not applicable. See case narrative.
  - A A tentatively identified compound, a suspected aldol-condensation product.
  - B The analyte was found in the associated method blank at a level that is significant relative to the sample result.
  - C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated concentration that is less than the MRL out greater than or equal to the MDL.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results (25% for CLP Pesticides).
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- i The MRL/MDL has been elevated due to a chromatographic interference.
- X See case narrative.

#### Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- L The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

#### Acronyms

| ASTM       | American Society for Testing and Materials                                           |
|------------|--------------------------------------------------------------------------------------|
| A2LA       | American Association for Laboratory Accreditation                                    |
| CARB       | California Air Resources Board                                                       |
| CAS Number | Chemical Abstract Service registry Number                                            |
| CFC        | Chlorofiuorocarbon                                                                   |
| CFU        | Colony-Forming Unit                                                                  |
| DEC        | Department of Environmental Conservation                                             |
| DEQ        | Department of Environmental Quality                                                  |
| DHS        | Department of Health Services                                                        |
| DOE        | Department of Ecology                                                                |
| DOH        | Department of Health                                                                 |
| EPA        | U. S. Environmental Protection Agency                                                |
| ELAP       | Environmental Laboratory Accreditation Program                                       |
| GC         | Gas Chromatography                                                                   |
| GC/MS      | Gas Chromatography/Mass Spectrometry                                                 |
| l          | Estimated concentration. The value is less than the method reporting limit, but      |
|            | greater than the method detection limit.                                             |
| LUFT       | Leaking Underground Fuel Tank                                                        |
| М          | Modified                                                                             |
| MCL        | Maximum Contaminant Level is the highest permissible concentration of a substance    |
|            | allowed in drinking water as established by the USEPA.                               |
| MDL        | Method Detection Limit                                                               |
| MPN        | Most Probable Number                                                                 |
| MRL        | Method Reporting Limit                                                               |
| NA         | Not Applicable                                                                       |
| NAN        | Not Analyzed                                                                         |
| NC         | Not Calculated                                                                       |
| NCASI      | National Council of the Paper Industry for Air and Stream Improvement                |
| ND         | Not Detected at or above the MRL                                                     |
| NIOSH      | National Institute for Occupational Safety and Health                                |
| PQL        | Practical Quantitation Limit                                                         |
| RCRA       | Resource Conservation and Recovery Act                                               |
| SIM        | Selected Ion Monitoring                                                              |
| TPH        | Total Petroleum Hydrocarbons                                                         |
| tr         | Trace level is the concentration of an analyte that is less than the POL but greater |
|            | than or equal to the MDL.                                                            |
|            | - · · •                                                                              |

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Analytical Report

Client: Project: Sample Matrix: Pacific Gas and Electric Company Diablo Canyon NPDES Water Service Request: K2005315 Date Collected: 7/19/2000 Date Received: 7/20/2000

Base Neutral/Acid Semivolatile Organic Compounds

| Sample Name: | 001 Intake Composite |                 | Units: | ug/L (ppb) |
|--------------|----------------------|-----------------|--------|------------|
| Lab Code:    | K2005315-014         |                 | Basis: | NA         |
| Test Notes:  | Prep An              | s Dilution Date | Date   | Result     |

|   |                              | Prep      | Analysis |     |                                        | Diminon | Date      | for a large of       | The secold | Notec |
|---|------------------------------|-----------|----------|-----|----------------------------------------|---------|-----------|----------------------|------------|-------|
|   | 6 <b>D</b>                   | Method    | Method   | MRL | MDL                                    | Factor  | Extracted | Analyzed             | Result     | Notes |
| , | Analyte                      |           | (0.5     | e   | 0.5                                    | 1       | 7/21/2000 | 8/2/2000             | ND         |       |
| 1 | Bis(2-chloroethyl) Ether     | EPA 3520C | 625      | 5   | 0.5                                    | 1       | 7/21/2000 | 8/2/2000             | ND         |       |
| 1 | Phenol                       | EPA 3520C | 625      | 2   | 0.5                                    | 1       | 7/21/2000 | 8/2/2000             | ND         |       |
|   | 2. Chlorophenol              | EPA 3520C | 625      | 2   | 0.7                                    | 1       | 7/21/2000 | 8/2/2000             | ND         |       |
| 1 | 1.2 Diablarabenzene          | EPA 3520C | 625      | 2   | 0.3                                    | 1       | 7/21/2000 | 8/2/2000             | ND         |       |
|   | 1.3 Dichlorobenzene          | EPA 3520C | 625      | 2   | 0.5                                    | 1       | 7/21/2000 | 8/2/2000             | ND         |       |
|   | 1.4 Dichlorobenzene          | EPA 3520C | 625      | 5   | 0.4                                    | 1       | 7/21/2000 | 8/2/2000             | ND         |       |
|   | Dis(2 shlaroisopropyl) Ether | EPA 3520C | 625      | 5   | 0.8                                    | 1       | 7/21/2000 | 8/2/2000             | ND         |       |
|   | Bis(2-cilloroisopiopy) Euror | EPA 3520C | 625      | 5   | 0.5                                    | 1       | 7/21/2000 | 8/2/2000             | ND         |       |
|   | Hexachioloculatic            | EPA 3520C | 625      | 5   | 0.7                                    | 1       | 7/21/2000 | 0/2/2000             | ND         |       |
|   | N-Nitrosoui-ii-pi opyranimie | EPA 3520C | 625      | 5   | 0.8                                    | L       | 7/21/2000 | 6/2/2000             |            |       |
|   | Nitrobenzene                 | EPA 3520C | 625      | 5   | 0.5                                    | 1       | 7/21/2000 | 8/2/2000             |            |       |
|   | Isophorone                   | EPA 3520C | 625      | 5   | 0.8                                    | I       | 7/21/2000 | 8/2/2000             |            |       |
|   | 2-Nitrophenol                | EPA 3520C | 625      | 5   | 2                                      | 1       | 7/21/2000 | 8/2/2000             |            |       |
|   | 2,4-Dimethylphenol           | EPA 3520C | 625      | 5   | 0.8                                    | 1       | 7/21/2000 | 8/2/2000             | ND         |       |
|   | Bis(2-chloroethoxy)methane   | EFA 3520C | 625      | 5   | 0.9                                    | 1       | 7/21/2000 | 8/2/2000             | ND         |       |
|   | 2,4-Dichlorophenol           | EFA 3520C | 625      | 5   | 0.6                                    | 1       | 7/21/2000 | 8/2/2000             | ND         |       |
|   | 1,2,4-Trichlorobenzene       | EPA 3520C | 625      | 5   | 0.7                                    | 1       | 7/21/2000 | 8/2/2000             | ND         |       |
|   | Naphthalene                  | EPA 3320C | 625      | 5   | 0.7                                    | 1       | 7/21/2000 | 8/2/2000             | ND         |       |
|   | Hexachlorobutadiene          | EPA 3520C | 625      | 5   | 0.8                                    | 1       | 7/21/2000 | 8/2/2000             | ND         |       |
|   | 4-Chloro-3-methylphenol      | EPA 3520C | 625      | 5   | 0.7                                    | 1       | 7/21/2000 | 8/2/2000             | ND         |       |
|   | 2.4.6-Trichlorophenol        | EPA 3520C | 625      | 5   | 0.6                                    | 1       | 7/21/2000 | 8/2/2000             | ND         |       |
|   | 2-Chloronaphthalene          | EPA 3520C | 625      | 5   | 0.6                                    | 1       | 7/21/2000 | 8/2/2000             | ND         | •     |
|   | Acenaphthylene               | EPA 3520C | 625      | 5   | 0.9                                    | 1       | 7/21/2000 | 8/2/2000             | ND         |       |
|   | Dimethyl Phthalate           | EPA 3520C | 625      | 5   | 0.8                                    | j       | 7/21/2000 | 8/2/2000             | ND         |       |
|   | Acenanhthene                 | EPA 3520C | 625      | 20  | 6                                      | ī       | 7/21/2000 | 8/2/2000             | ND         |       |
|   | 2 A-Dinitrophenol            | EPA 3520C | 625      | 20  | Š                                      | ī       | 7/21/2000 | 8/2/2000             | ND         |       |
|   | A Nitrophenol                | EPA 3520C | 625      | 20  | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | 1       | 7/21/2000 | 8/2/2000             | ND         |       |
|   | 4-Millophonon                | EPA 3520C | 625      | 2   | 0.5                                    | 1       | 7/21/2000 | 8/2/2000             | ND         |       |
|   | A Chlorophenyl Phenyl Ether  | EPA 3520C | 625      | 2   | 0.0                                    | 1       | 7/21/2000 | 8/2/2000             | ND         |       |
|   | 4-Chlotophonyr i nonyr 2000  | EPA 3520C | 625      | 2   | 1                                      | 1       | 7/21/2000 | 8/2/2000             | ND         |       |
|   | Dietnyi Phillalace           | EPA 3520C | 625      | 20  | 2                                      | 1       | 7/21/2000 | 8/2/2000             | ND         |       |
|   | 2-Meinyi-4,0-dimit ophone    | EPA 3520C | 625      | 5   | 0.8                                    | 1       | 7/21/2000 | 8/2/2000             | ND         |       |
|   | 4-Bromophenyi Flicityi Edit  | EPA 3520C | 625      | 5   | 1                                      | 1       | 7/21/2000 | 8/2/2000             | ND         |       |
|   | Hexachlorobenzene            | EPA 3520C | 625      | 20  | 2                                      | 1       | 7/21/2000 | 8/2/2000<br>9/5/5000 | ND         |       |
|   | Pentachlorophenol (PCP)      | EPA 3520C | 625      | 5   | 0.7                                    | 1       | //21/2000 | 0/2/2000             | ND         |       |
|   | Phenanthrene                 | EPA 3520C | 625      | 5   | 0.8                                    | 1       | 7/21/2000 | 8/2/2000             | ND         |       |
|   | Anthracene                   | EDA 3520C | 625      | 5   | 2                                      | 1       | 7/21/2000 | 8/2/2000             |            |       |
|   | Di-n-butyl Phthalate         | EFA 35200 | 62.5     | 5   | 2                                      | 1       | 7/21/2000 | 8/2/2000             |            |       |
|   | Fluoranthene                 | EPA 3320C | 625      | 5   | 2                                      | 1       | 7/21/2000 | 8/2/2000             | ND         |       |
|   | Pyrene                       | EPA 3520C | 625      | 5   | 2                                      | 1       | 7/21/2000 | 8/2/2000             | ND         |       |
|   | Butyl Benzyl Phthalate       | EPA 3520C | 625      | 10  | 0.7                                    | 1       | 7/21/2000 | 8/2/2000             | ND         |       |
|   | 3 3'-Dichlorobenzidine       | EPA 3520C | 625      | ج   | 0.7                                    | 1       | 7/21/2000 | 8/2/2000             | ND         |       |
|   | Benz(a)anthracene            | EPA 3520C | 625      | 5   | 0.5                                    | I       | 7/21/2000 | 8/2/2000             | ND         |       |
|   | Chrysene                     | EPA 3520C | 025      | 2   | 0.0                                    | •       |           |                      |            |       |
|   | Chijoono                     |           |          |     |                                        |         |           |                      |            |       |

G. Clt 1/2/01 \_\_ Date: \_\_\_

Approved By:

05315SVM.AY1 -- 14 1/2/2001

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#### Analytical Report

Client:Pacific Gas and Electric CompanyService Request:K2005315Project:Diablo Canyon NPDESDate Collected:7/19/2000Sample Matrix:WaterDate Received:7/20/2000

Base Neutral/Acid Semivolatile Organic Compounds

| Sample Name:<br>Lab Code:<br>Test Notes: | 001 Intake Composi<br>K2005315-014 | ite                |        |      |                    |                   |                  | Units:<br>Basis: | ug/L (ppb)<br>NA |
|------------------------------------------|------------------------------------|--------------------|--------|------|--------------------|-------------------|------------------|------------------|------------------|
|                                          | Prep                               | Analysis<br>Method | MRI.   | MDI. | Dilution<br>Factor | Date<br>Extracted | Date<br>Analyzed | Result           | Resul<br>Notes   |
| Analyte                                  | TATECHOR                           | Ligotitou          |        |      | 1                  | 7/21/2000         | 00000            | רוא              |                  |
| Di-n-octyl Phthalate                     | EPA 3520C                          | 625                | 2      | 0.0  | 1                  | 7/21/2000         | 8/2/2000         |                  |                  |
| Benzo(b)fluoranthene                     | EPA 3520C                          | 625                | 5      | 0.0  | 1                  | 7/21/2000         | 8/2/2000         | ND               |                  |
| Benzo(k)fluoranthene                     | EPA 3520C                          | 625                | ר<br>ג | 0.0  | 1                  | 7/21/2000         | 8/2/2000         | ND               |                  |
| Benzo(a)pyrene                           | EPA 3520C                          | 625                | 5      | 2    | 1                  | 7/21/2000         | 8/2/2000         | ND               |                  |
| Indeno(1,2,3-cd)pyrene                   | EPA 3520C                          | 625                | 5      | 2    | 1                  | 7/21/2000         | 8/2/2000         | ND               |                  |
| Dibenz(a,h)anthracene                    | EPA 3520C                          | 625                | 5      | 2    | î                  | 7/21/2000         | 8/2/2000         | ND               |                  |
| Benzo(g,h,i)perylene                     | EPA 3520C                          | 625                | 50     | 30   | i                  | 7/21/2000         | 8/2/2000         | ND               |                  |
| Benzidine                                | EPA 35200                          | 625                | 5      | 5    | 1                  | 7/21/2000         | 8/2/2000         | ND               |                  |
| Bis(2-ethylhexyl)Phthalate               | EPA 3520C                          | 625                | 5      | 0.9  | 1                  | 7/21/2000         | 8/2/2000         | ND               |                  |
| 2-Methyinaphthalene                      | EPA 3520C                          | 625                | 10     | 0.8  | 1                  | 7/21/2000         | 8/2/2000         | ND               |                  |
| Azobenzene                               | EPA 3520C                          | 625                | 10     | 0.5  | 1                  | 7/21/2000         | 8/2/2000         | ND               |                  |
| Hexachlorocyclopeniadiene                | EPA 3520C                          | 625                | 10     | 0.6  | 1                  | 7/21/2000         | 8/2/2000         | ND               |                  |
| N-Nitrosodimethylamine                   | EPA 3520C                          | 625                | 5      | 1    | 1                  | 7/21/2000         | 8/2/2000         | ND               |                  |
| N-Nitrosociphenylanine                   | EPA 3520C                          | 625                | 5      | -    | 1                  | 7/21/2000         | 8/2/2000         | ND               |                  |
| Bis(chioromethyl)ether                   | FPA 3520C                          | 625                | 10     | 2    | 1                  | 7/21/2000         | 8/2/2000         | ND               |                  |
| 2,4-Dinitrotoluene                       | EPA 3520C                          | 625                | 10     | 2    | 1                  | 7/21/2000         | 8/2/2000         | ND               |                  |

Searched as a tentatively-identified compound.

Approved By: \_\_\_\_\_\_ IS2P/050897p 053155VM.AY1 - 14 1/2/2001

A.C.L.

1/2/01 Date:

01005 Page No.:

#### Analytical Report

.

Client: Project: Sample Matrix: Pacific Gas and Electric Company Diablo Canyon NPDES Water

Service Request: K2005315 Date Collected: 7/19/2000 Date Received: 7/20/2000

#### Base Neutral/Acid Semivolatile Organic Compounds

| Sample Name:<br>Lab Code:<br>Test Notes: | 001 Discharge Cor<br>K2005315-023 | nposite  |          |      |      | Units:<br>Basis: | ug/L (ppb)<br>NA |
|------------------------------------------|-----------------------------------|----------|----------|------|------|------------------|------------------|
|                                          | Dran                              | Analysis | Dilution | Date | Date |                  | Resu             |

|                                   | Prep       | Analysis |     |     | Dilution | Date      | Date                 |        | Result |
|-----------------------------------|------------|----------|-----|-----|----------|-----------|----------------------|--------|--------|
| Amoluto                           | Method     | Method   | MRL | MDL | Factor   | Extracted | Analyzed             | Result | Notes  |
| Analyte                           |            | (25      | F   | 0.5 | 1        | 7/21/2000 | e /2 /2000           |        |        |
| Bis(2-chloroethyl) Ether          | EPA 3520C  | 625      | 5   | 0.5 | 1        | 7/21/2000 | 8/2/2000<br>8/2/2000 |        |        |
| Phenol                            | EPA 3520C  | 625      | 5   | 0.5 | 1        | 7/21/2000 | 8/2/2000             |        |        |
| 2-Chlorophenol                    | EPA 3520C  | 623      | 5   | 0.7 | 1        | 7/21/2000 | 8/2/2000             |        |        |
| 1,3-Dichlorobenzene               | EPA 3520C  | 625      | 5   | 0.5 | 1        | 7/21/2000 | 8/2/2000             | ND     |        |
| 1,2-Dichlorobenzene               | EPA 3520C  | 625      | 5   | 0.5 | 1        | 7/21/2000 | 8/2/2000<br>9/2/2000 |        |        |
| 1,4-Dichlorobenzene               | EPA 3520C  | 625      | 2   | 0.4 | 1        | 7/21/2000 | 0/2/2000             |        |        |
| Bis(2-chloroisopropyl) Ether      | EPA 3520C  | 625      | 5   | 0.0 | 1        | 7/21/2000 | 8/2/2000<br>8/2/2000 |        |        |
| Hexachloroethane                  | EPA 3520C  | 625      | 2   | 0.5 | 1        | 7/21/2000 | 8/2/2000             |        |        |
| N-Nitrosodi-n-propylamine         | EPA 3520C  | 625      | 2   | 0.7 | 1        | 7/21/2000 | 8/2/2000             |        |        |
| Nitrobenzene                      | EPA 3520C  | 625      | Ş   | 0.8 | 1        | 7/21/2000 | 8/2/2000             |        |        |
| Isophorone                        | EPA 3520C  | 625      | 2   | 0.5 | 1        | 7/21/2000 | 8/2/2000             | ND     |        |
| 2-Nitrophenol                     | EPA 3520C  | 625      | 5   | 0.8 | 1        | 7/21/2000 | 8/2/2000             | ND     |        |
| 2.4-Dimethylphenol                | EPA 3520C  | 625      | 5   | 2   | 1        | 7/21/2000 | 8/2/2000             | ND     |        |
| Bis(2-chloroethoxy)methane        | EPA 3520C  | 625      | 5   | 0.8 | 1        | 7/21/2000 | 8/2/2000             | ND     |        |
| 2.4-Dichlorophenol                | EPA 3520C  | 625      | 5   | 0.9 | 1        | 7/21/2000 | 8/2/2000             | ND     |        |
| 1.2.4-Trichlorobenzene            | EPA 3520C  | 625      | 5   | 0.6 | 1        | 7/21/2000 | 8/2/2000             | ND     |        |
| Nanhthaiene                       | EPA 3520C  | 625      | 5   | 0.7 | 1        | 7/21/2000 | 8/2/2000             | ND     |        |
| Heyachlorobutadiene               | EPA 3520C  | 625      | 5   | 0.7 | 1        | 7/21/2000 | 8/2/2000             | ND     |        |
| 4-Chloro-3-methylphenol           | EPA 3520C  | 625      | 5   | 0.8 | 1        | 7/21/2000 | 8/2/2000             | ND     |        |
| 2 4 6 Trichlorophenol             | EPA 3520C  | 625      | 5   | 0.7 | 1        | 7/21/2000 | 8/2/2000             | ND     |        |
| 2.Chloronaphthalene               | EPA 3520C  | 625      | 5   | 0.6 | I        | 7/21/2000 | 8/2/2000             | ND     |        |
| Acenantithylene                   | EPA 3520C  | 625      | 5   | 0.6 | 1        | 7/21/2000 | 8/2/2000             | ND     |        |
| Dimethyl Phthalate                | EPA 3520C  | 625      | 5   | 0.9 | 1        | 7/21/2000 | 8/2/2000             | ND     |        |
| Acenandthene                      | EPA 3520C  | 625      | 5   | 0.8 | 1        | 7/21/2000 | 8/2/2000             | ND     |        |
| 2 4 Dinitrophenol                 | EPA 3520C  | 625      | 20  | 6   | 1        | 7/21/2000 | 8/2/2000             | ND     |        |
| A Nitronhenol                     | EPA 3520C  | 625      | 20  | 2   | 1        | 7/21/2000 | 8/2/2000             | ND     |        |
| Fluorene                          | EPA 3520C  | 625      | 5   | 0.9 | 1        | 7/21/2000 | 8/2/2000             | ND     |        |
| A Chlorophenyl Phenyl Ether       | EPA 3520C  | 625      | 5   | 0.8 | 1        | 7/21/2000 | 8/2/2000             | ND     |        |
| Disthul Dethalate                 | EPA 3520C  | 625      | 5   | 1   | 1        | 7/21/2000 | 8/2/2000             | ND     |        |
| 2 Mathyl 4 6-dinitrophenol        | EPA 3520C  | 625      | 20  | 2   | 1        | 7/21/2000 | 8/2/2000             | ND     |        |
| A Dramonhenvil Phenvil Ether      | EPA 3520C  | 625      | 5   | 0.8 | 1        | 7/21/2000 | 8/2/2000             | ND     |        |
| 4-Bromophenyi i nonyi Duno.       | EPA 3520C  | 625      | 5   | 1   | 1        | 7/21/2000 | 8/2/2000             | ND     |        |
| Dentachlorophenol (PCP)           | EPA 3520C  | 625      | 20  | 2   | 1        | 7/21/2000 | 8/2/2000             | ND     |        |
| Pentachiorophenor (1 C1)          | EPA 3520C  | 625      | 5   | 0.7 | 1        | 7/21/2000 | 8/2/2000             | ND     |        |
| Phenanunrene                      | EPA 3520C  | 625      | 5   | 0.8 | 1        | 7/21/2000 | 8/2/2000             | ND     |        |
| Anthracene<br>Di lucul Distiglata | EPA 3520C  | 625      | 5   | 2   | 1        | 7/21/2000 | 8/2/2000             | ND     |        |
| Di-n-butyl Phinalate              | EPA 3520C  | 625      | 5   | 2   | 1        | 7/21/2000 | 8/2/2000             | ND     |        |
| Fluoranthene                      | EDA 3500C  | 625      | 5   | 2   | 1        | 7/21/2000 | 8/2/2000             | ND ·   |        |
| Pyrene                            | ED & 3520C | 625      | 5   | 2   | 1        | 7/21/2000 | 8/2/2000             | ND     |        |
| Butyl Benzyl Phinalate            | 57 A 3520C | 625      | 10  | 0.7 | 1        | 7/21/2000 | 8/2/2000             | ND     |        |
| 3,3'-Dichlorobenziaine            | EFA 3520C  | 625      | 5   | 0.7 | 1        | 7/21/2000 | 8/2/2000             | ND     |        |
| Benz(a)anthracene                 | EFA 33200  | 625      | 5   | 0.5 | i        | 7/21/2000 | 8/2/2000             | ND     |        |
| Chrysene                          | EPA 33200  | 640      |     | 0.0 | ۰.       |           |                      |        |        |

Approved By:

F. Cla 12/01 Date: \_\_\_

#### Analytical Report

| Client:        | Service Request:                                 | K2005315 |            |
|----------------|--------------------------------------------------|----------|------------|
| Project:       | Date Collected:                                  | 7/19/00  |            |
| Sample Matrix: | Date Received:                                   | 7/20/00  |            |
|                | Base Neutral/Acid Semivolatile Organic Compounds |          |            |
| Sample Name:   | 001 Discharge Composite                          | Units:   | ug/L (ppb) |
| Lab Code:      | K2005315-023                                     | Basis:   | NA         |

| Analyte                    | Prep<br>Method | Analysis<br>Method | MRL | MDL | Dilution<br>Factor | Date<br>Extracted | Date<br>Analyzed | Result | Result<br>Notes |
|----------------------------|----------------|--------------------|-----|-----|--------------------|-------------------|------------------|--------|-----------------|
| Di-n-octvl Phthalate       | EPA 3520C      | 625                | 5   | 0.6 | 1                  | 7/21/00           | 8/2/00           | ND     |                 |
| Benzo(b)fluoranthene       | EPA 3520C      | 625                | 5   | 0.8 | 1                  | 7/21/00           | 8/2/00           | ND     |                 |
| Benzo(k)fluoranthene       | EPA 3520C      | 625                | 5   | 0.6 | 1                  | 7/21/00           | 8/2/00           | ND     |                 |
| Benzo(a)pyrene             | EPA 3520C      | 625                | 5   | 0.7 | 1                  | 7/21/00           | 8/2/00           | ND     |                 |
| Indeno(1.2.3-cd)pyrene     | EPA 3520C      | 625                | 5   | 2   | 1                  | 7/21/00           | 8/2/00           | ND     |                 |
| Dibenz(a.h)anthracene      | EPA 3520C      | 625                | 5   | 2   | 1                  | 7/21/00           | 8/2/00           | ND     |                 |
| Benzo(g,h,i)pervlene       | EPA 3520C      | 625                | 5   | 2   | 1                  | 7/21/00           | 8/2/00           | ND     |                 |
| Benzidine                  | EPA 3520C      | 625                | 50  | 30  | 1                  | 7/21/00           | 8/2/00           | ND     |                 |
| Bis(2-ethylhexyl)Phthalate | EPA 3520C      | 625                | 5   | 5   | 1                  | 7/21/00           | 8/2/00           | ND     |                 |
| 2-Methylnaphthalene        | EPA 3520C      | 625                | 5   | 0.9 | 1                  | 7/21/00           | 8/2/00           | ND     |                 |
| Azobenzene                 | EPA 3520C      | 625                | 10  | 0.8 | 1                  | 7/21/00           | 8/2/00           | ND     |                 |
| Hexachlorocyclopentadiene  | EPA 3520C      | 625                | 10  | 0.5 | 1                  | 7/21/00           | 8/2/00           | ND     |                 |
| N-Nitrosodimethylamine     | EPA 3520C      | 625                | 10  | 0.6 | 1                  | 7/21/00           | 8/2/00           | ND     |                 |
| N-Nitrosodiphenylamine     | EPA 3520C      | 625                | 5   | 1   | 1                  | 7/21/00           | 8/2/00           | ND     |                 |
| Bis(chloromethyl)ether *   | EPA 3520C      | 625                | 5   | -   | 1                  | 7/21/00           | 8/2/00           | ND     |                 |
| 2.4-Dinitrotoluene         | EPA 3520C      | 625                | 10  | 2   | 1                  | 7/21/00           | 8/2/00           | ND     |                 |
| 2,6-Dinitrotoluene         | EPA 3520C      | 625                | 10  | 2   | ·1                 | 7/21/00           | 8/2/00           | ND     |                 |

Searched as a tentatively-identified compound.

A.

12/01 Date:

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Approved By: 1S2P/050897p

Test Notes:

05315SVM.AYI - 23 1/2/01

Page No.:

Analytical Report

Client: **Project:** Sample Matrix:

1

Pacific Gas and Electric Company Diablo Canyon NPDES Water

Service Request: K2005315 Date Collected: NA Date Received: NA

> Units: ug/L (ppb) Basis: NA

#### Base Neutral/Acid Semivolatile Organic Compounds

| Sample Name:<br>Lab Code: | Method Blank<br>KWG2002803-10 |  |
|---------------------------|-------------------------------|--|
| Test Notes:               |                               |  |

|                              | Pren      | Analysis |     |     | Dilution | Date               | Date     |        | Result |
|------------------------------|-----------|----------|-----|-----|----------|--------------------|----------|--------|--------|
| A malerta                    | Method    | Method   | MRL | MDL | Factor   | Extracted          | Analyzed | Result | Notes  |
| Analyte                      | Incomou   |          | _   |     |          | <b>m</b> (n f (n c |          |        |        |
| Bis(2-chloroethyl) Ether     | EPA 3520C | 625      | 5   | 0.5 | 1        | 7/21/00            | 8/1/00   | ND     |        |
| Phenol                       | EPA 3520C | 625      | 5   | 0.5 | 1        | 7/21/00            | 8/1/00   | ND     |        |
| 2-Chlorophenol               | EPA 3520C | 625      | 5   | 0.7 | 1        | 7/21/00            | 8/1/00   | ND     |        |
| 1.3-Dichlorobenzene          | EPA 3520C | 625      | 5   | 0.3 | 1        | 7/21/00            | 8/1/00   | ND     |        |
| 1.2-Dichlorobenzene          | EPA 3520C | 625      | 5   | 0.3 | 1        | 7/21/00            | 8/1/00   | ND     |        |
| 1 4-Dichlorobenzene          | EPA 3520C | 625      | 5   | 0.4 | 1        | 7/21/00            | 8/1/00   | ND     |        |
| Bis(2-chloroisopropyl) Ether | EPA 3520C | 625      | 5   | 0.8 | 1        | 7/21/00            | 8/1/00   | ND     |        |
| Hexachloroethane             | EPA 3520C | 625      | 5   | 0.5 | 1        | 7/21/00            | 8/1/00   | ND     |        |
| N-Nitrosodi-n-propylamine    | EPA 3520C | 625      | 5   | 0.7 | 1        | 7/21/00            | 8/1/00   | ND     |        |
| Nitrobenzene                 | EPA 3520C | 625      | 5   | 0.8 | 1        | 7/21/00            | 8/1/00   | ND     |        |
| Isophorone                   | EPA 3520C | 625      | 5   | 0.5 | 1        | 7/21/00            | 8/1/00   | ND     |        |
| 2-Nitrophenol                | EPA 3520C | 625      | 5   | 0.8 | 1        | 7/21/00            | 8/1/00   | ND     |        |
| 2 4-Dimethylphenol           | EPA 3520C | 625      | 5   | 2   | 1        | 7/21/00            | 8/1/00   | ND     |        |
| Ris(2-chloroethoxy)methane   | EPA 3520C | 625      | 5   | 0.8 | 1        | 7/21/00            | 8/1/00   | ND     |        |
| 2 4-Dichlorophenol           | EPA 3520C | 625      | 5   | 0.9 | 1        | 7/21/00            | 8/1/00   | ND     |        |
| 1 2 4-Trichlorobenzene       | EPA 3520C | 625      | 5   | 0.6 | 1        | 7/21/00            | 8/1/00   | ND     |        |
| Nanhthalene                  | EPA 3520C | 625      | 5   | 0.7 | 1        | 7/21/00            | 8/1/00   | ND     |        |
| Hexachlorobutadiene          | EPA 3520C | 625      | 5   | 0.7 | 1        | 7/21/00            | 8/1/00   | ND     |        |
| 4-Chloro-3-methviphenol      | EPA 3520C | 625      | 5   | 0.8 | 1        | 7/21/00            | 8/1/00   | ND     |        |
| 2.4.6-Trichlorophenol        | EPA 3520C | 625      | 5   | 0.7 | 1        | 7/21/00            | 8/1/00   | ND     |        |
| 2. Chloronaphthalene         | EPA 3520C | 625      | 5   | 0.6 | 1        | 7/21/00            | 8/1/00   | ND     |        |
| Acenaphthylene               | EPA 3520C | 625      | 5   | 0.6 | 1        | 7/21/00            | 8/1/00   | ND     |        |
| Dimethyl Phthalate           | EPA 3520C | 625      | 5   | 0.9 | 1        | 7/21/00            | 8/1/00   | ND     |        |
| Acenaphthene                 | EPA 3520C | 625      | 5   | 0.8 | 1        | 7/21/00            | 8/1/00   | ND     |        |
| 2.4-Dinitrophenol            | EPA 3520C | 625      | 20  | 6   | 1        | 7/21/00            | 8/1/00   | ND     |        |
| 4-Nitrophenol                | EPA 3520C | 625      | 20  | 2   | 1        | 7/21/00            | 8/1/00   | ND     |        |
| Fluorene                     | EPA 3520C | 625      | 5   | 0.9 | 1        | 7/21/00            | 8/1/00   | ND     |        |
| 4-Chlorophenyl Phenyl Ether  | EPA 3520C | 625      | 5   | 0.8 | 1        | 7/21/00            | 8/1/00   | ND     |        |
| Diethyl Phthalate            | EPA 3520C | 625      | 5   | 1   | 1        | 7/21/00            | 8/1/00   | ND     |        |
| 2-Methyl-4-6-dinitrophenol   | EPA 3520C | 625      | 20  | 2   | 1        | 7/21/00            | 8/1/00   | ND     |        |
| 4-Bromophenyl Phenyl Ether   | EPA 3520C | 625      | 5   | 0.8 | 1        | 7/21/00            | 8/1/00   | ND     |        |
| Hexachlorobenzene            | EPA 3520C | 625      | 5   | 1   | 1        | 7/21/00            | 8/1/00   | ND     |        |
| Pentachlorophenol (PCP)      | EPA 3520C | 625      | 20  | 2   | 1        | 7/21/00            | 8/1/00   | ND     |        |
| Phenanthrene                 | EPA 3520C | 625      | 5   | 0.7 | 1        | 7/21/00            | 8/1/00   | ND     |        |
| Anthracene                   | EPA 3520C | 625      | 5   | 0.8 | 1        | 7/21/00            | 8/1/00   | ND     |        |
| Di-n-butyl Phthalate         | EPA 3520C | 625      | 5   | 2   | 1        | 7/21/00            | 8/1/00   | ND     |        |
| Fluoranthene                 | EPA 3520C | 625      | 5   | 2   | 1        | 7/21/00            | 8/1/00   | ND     |        |
| Durane                       | EPA 3520C | 625      | 5   | 2   | 1        | 7/21/00            | 8/1/00   | ND     |        |
| Butyl Renzyl Phthalate       | EPA 3520C | 625      | 5   | 2   | 1        | 7/21/00            | 8/1/00   | ND     |        |
| 2 2 Dichlorobenzidine        | EPA 3520C | 625      | 10  | 0.7 | 1        | 7/21/00            | 8/1/00   | ND     |        |
| Dong(o)onthracane            | EPA 3520C | 625      | 5   | 0.7 | 1        | 7/21/00            | 8/1/00   | ND     |        |
| Chrysene                     | EPA 3520C | 625      | 5   | 0.5 | 1        | 7/21/00            | 8/1/00   | ND     |        |

7. C/ Date: 1/2/01 Approved By:

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#### Analytical Report

Service Request: K2005315 Date Collected: NA Pacific Gas and Electric Company Client: Diablo Canyon NPDES **Project:** Date Received: NA Sample Matrix: Water

.

#### Base Neutral/Acid Semivolatile Organic Compounds

| Sample Name:<br>Lab Code:<br>Test Notes: | Method Blank<br>KWG2002803-10 |                    |     |     |                    |                   |                  | Units:<br>Basis: | ug/L (ppb)<br>NA |
|------------------------------------------|-------------------------------|--------------------|-----|-----|--------------------|-------------------|------------------|------------------|------------------|
| Analyta                                  | Prep<br>Method                | Analysis<br>Method | MRL | MDL | Dilution<br>Factor | Date<br>Extracted | Date<br>Analyzed | Result           | Result<br>Notes  |

| Analyte                    | Method    | Method | MIKL | WDL | Factor | Extracted | Anaryzea       | кезши | Notes |
|----------------------------|-----------|--------|------|-----|--------|-----------|----------------|-------|-------|
| Di-n-octvl Phthalate       | EPA 3520C | 625    | 5    | 0.6 | 1      | 7/21/00   | 8/1/00         | ND    |       |
| Benzo(b)fluoranthene       | EPA 3520C | 625    | 5    | 0.8 | 1      | 7/21/00   | <b>8/1/0</b> 0 | ND    |       |
| Benzo(k)fluoranthene       | EPA 3520C | 625    | 5    | 0.6 | 1      | 7/21/00   | 8/1/00         | ND    |       |
| Benzo(a)nyrene             | EPA 3520C | 625    | 5    | 0.7 | 1      | 7/21/00   | 8/1/00         | ND    |       |
| Indeno(1 2 3-cd)pyrene     | EPA 3520C | 625    | 5    | 2   | 1      | 7/21/00   | 8/1/00         | ND    |       |
| Dihenz(a h)anthracene      | EPA 3520C | 625    | 5    | 2   | 1      | 7/21/00   | 8/1/00         | ND    |       |
| Benzo(g h i)nerviene       | EPA 3520C | 625    | 5    | 2   | 1      | 7/21/00   | 8/1/00         | ND    |       |
| Benzidine                  | EPA 3520C | 625    | 50   | 30  | 1      | 7/21/00   | 8/1/00         | ND    |       |
| Bis(2-ethylhexyl)Phthalate | EPA 3520C | 625    | 5    | 5   | 1      | 7/21/00   | 8/1/00         | ND    |       |
| 2-Methylnaphthalene        | EPA 3520C | 625    | 5    | 0.9 | 1      | 7/21/00   | 8/1/00         | ND    |       |
| Azobenzene                 | EPA 3520C | 625    | 10   | 0.8 | 1      | 7/21/00   | 8/1/00         | ND    |       |
| Hexachlorocyclopentadienė  | EPA 3520C | 625    | 10   | 0.5 | 1      | 7/21/00   | 8/1/00         | ND    |       |
| N-Nitrosodimethylamine     | EPA 3520C | 625    | 10   | 0.6 | 1      | 7/21/00   | 8/1/00         | ND    |       |
| N-Nitrosodinhenvlamine     | EPA 3520C | 625    | 5    | 1   | 1      | 7/21/00   | 8/1/00         | ND    |       |
| Bis(chloromethyl)ether *   | EPA 3520C | 625    | 5    | -   | 1      | 7/21/00   | 8/1/00         | ND    |       |
| 2 4-Dinitrotoluene         | EPA 3520C | 625    | 10   | 2   | 1      | 7/21/00   | 8/1/00         | ND    |       |
| 2,6-Dinitrotoluene         | EPA 3520C | 625    | 10   | 2   | 1      | 7/21/00   | 8/1/00         | ND    |       |

Searched as a tentatively-identified compound.

F.C.

Date: 1/2/01

00009

Approved By: 1S2P/050897p



August 24, 2000

Service Request No: K2005315

Clint Gans Pacific Gas & Electric Company 9 Mls N.W. of Avilla Beach Avila Beach, CA 93424

#### Re: Diablo Canyon NPDES

Dear Clint:

Enclosed are the results of the sample(s) submitted to our laboratory on July 19, 2000. For your reference, these analyses have been assigned our service request number K2005315.

All analyses were performed according to our laboratory's quality assurance program. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the samples analyzed.

Please call if you have any questions. My extension is 3316.

Respectfully submitted,

Columbia Analytical Services, Inc.

Jeff Christian Laboratory Director

JC/afs

Page 1 of 1P

## Acronyms

| ASTM       | American Society for Testing and Materials                                           |
|------------|--------------------------------------------------------------------------------------|
| A2LA       | American Association for Laboratory Accreditation                                    |
| CARB       | California Air Resources Board                                                       |
| CAS Number | Chemical Abstract Service registry Number                                            |
| CFC        | Chlorofluorocarbon                                                                   |
| CFU        | Colony-Forming Unit                                                                  |
| DEC        | Department of Environmental Conservation                                             |
| DEQ        | Department of Environmental Quality                                                  |
| DHS        | Department of Health Services                                                        |
| DOE        | Department of Ecology                                                                |
| DOH        | Department of Health                                                                 |
| EPA        | U. S. Environmental Protection Agency                                                |
| ELAP       | Environmental Laboratory Accreditation Program                                       |
| GC         | Gas Chromatography                                                                   |
| GC/MS      | Gas Chromatography/Mass Spectrometry                                                 |
| LUFT       | Leaking Underground Fuel Tank                                                        |
| М          | Modified                                                                             |
| MCL        | Maximum Contaminant Level is the highest permissible concentration of a              |
|            | substance allowed in drinking water as established by the USEPA.                     |
| MDL        | Method Detection Limit                                                               |
| MPN        | Most Probable Number                                                                 |
| MRL        | Method Reporting Limit                                                               |
| NA         | Not Applicable                                                                       |
| NC         | Not Calculated                                                                       |
| NCASI      | National Council of the Paper Industry for Air and Stream Improvement                |
| ND         | Not Detected                                                                         |
| NIOSH      | National Institute for Occupational Safety and Health                                |
| PQL        | Practical Quantitation Limit                                                         |
| RCRA       | Resource Conservation and Recovery Act                                               |
| SIM        | Selected Ion Monitoring                                                              |
| TPH        | Total Petroleum Hydrocarbons                                                         |
| tr         | Trace level is the concentration of an analyte that is less than the PQL but greater |
|            | than or equal to the MDL.                                                            |

#### **Inorganic Data Qualifiers**

- \* The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.

The analyte was found in the associated method blank at a level that is significant relative to the sample result.

- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- i The MRL/MDL has been elevated due to a matrix interference.
- X See case narrative.

#### Metals Data Qualifiers

- # The control limit criteria is not applicable. See case narrative.
- B The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- E The reported value is estimated because of the presence of matrix interference.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
- i The MRL/MDL has been elevated due to a matrix interference.

See case narrative.

- The duplicate analysis not within control limits.
- + The correlation coefficient for the MSA is less than 0.995.

#### Organic Data Qualifiers

- \* The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results (25% for CLP Pesticides).
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- i The MRL/MDL has been elevated due to a matrix interference.
  - The chromatogram resembles a petroleum product but does not match the calibration standard.
- $\sum$  The chromatogram does not resemble a petroleum product.
- X See case narrative.

Client: Project: Sample Matrix: Pacific Gas and Electric Company Diablo Canyon NPDES Water Service Request No.: Date Received: K2005315 7/19/00

#### CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for sample(s) designated for Tier II data deliverables. When appropriate to the method, method blank results have been reported with each analytical test. Surrogate recoveries have been reported for all applicable organic analyses. Additional quality control analyses reported herein include: Laboratory Duplicate (DUP), Matrix Spike (MS), and Matrix/Duplicate Matrix Spike (MS/DMS).

All EPA recommended holding times have been met for analyses in this sample delivery group.

#### **General Chemistry**

Fluoride was analyzed initially using EPA Method 300.0 (ion chromatography). Due to the elevated chloride concentrations, the fluoride was not resolvable without performing a relatively large dilution. The results reported from the Method 300.0 analysis reflect a 100x dilution of the original sample.

A second fluoride analysis was performed using EPA Method 340.2 (ion specific electrode). The elevated dissolved salts present in the samples did not interfere with this analysis. However, the analysis using Method 340.2 was performed seven days past the recommended hold time. Inspection of the results, including the raw water intake, shows an analyzed concentration of 1.0 mg/L for all samples. These results are consistent with published typical values for fluoride in open ocean seawater (i.e. approximately 1 mg/L). The extended time to analysis for the second fluoride determination does not appear to be significant.

#### <u>Metals</u>

The matrix spike recoveries of arsenic, chromium, and copper were below the normal CAS/Kelso control limit. The cause of the low bias was confirmed as matrix interference (i.e. samples are seawater) via post-spike analysis. As per EPA guidelines, no further corrective action was feasible because the native concentrations were below the reporting limit and the associated recoveries were in an acceptable range for this application (i.e. direct analysis of seawater without chemical separation of the analyte from the matrix).

The Matrix Spike (MS) recovery of boron is not applicable. The analyte concentration in the sample was significantly higher than the added spike concentration, preventing accurate evaluation of the spike recovery.

#### **Volatiles**

The samples were analyzed using two different methods. Acrolein and Acrylonitrile were run by EPA 624, while the other analytes were determined using EPA 8260B. The EPA 8260 procedure was used for the majority of the analytes in order to obtain greater sensitivity (i.e. reporting limits). No anomalies associated with the EPA 8260

analysis were observed. Approved by \_\_\_\_\_\_ Date \_\_\_\_\_ Date \_\_\_\_\_ Date \_\_\_\_\_\_ For the EPA 624 analysis, the upper control criterion was exceeded for the Toluene-d8 surrogate in 001 Intake Composite, and the Toluene-d8 and Dichloroethane-d4 surrogates in 001 Discharge Composite. No target analytes were detected in the sample. The error associated with an elevated recovery equates to a high bias. The quality of the sample data has not been significantly affected. No further corrective action was feasible.

#### Semivolatiles

The semivolatiles are reported to the CAS/Kelso Method Detection Limit (MDL) rather than the Method Reporting Limit (MRL) because the required detection limits for a number of compounds are below the CAS/Kelso MRL. Benzidine was the only compound where the required limit was not achievable by CAS/Kelso using routine EPA methodology (CAS/Kelso MDL=30 ug/L; Required Detection Limit=10 ug/L).

Bis(chloromethyl)ether was analyzed as a Tentatively Identified Compound (TIC) because it is not included in the standard analyte mix. No response for the associated ions was observed.

#### Pesticides/PCBs

No anomalies associated with the analysis of these samples were observed. An LCS/DLCS is reported to provide precision data for the batch. A single matrix spike was performed for pesticides and PCBs.

#### **Butyltins**

No anomalies associated with the analysis of these samples were observed.

#### **Dioxin**

The dioxin analysis was sub-contracted to an outside laboratory. The results are included as Appendix C.

#### Radiochemistry

The radiochemistry analyses were sub-contracted to an outside laboratory. The results are included as Appendix D.

| Approved by | Stal CE | Date | 8/23/00    |
|-------------|---------|------|------------|
|             |         |      | . <i>4</i> |

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#### Analytical Report

ent:Pacific Gas and Electric Companyject:Diablo Canyon NPDESSample Matrix:Water

 Service Request:
 K2005315

 Date Collected:
 7/18/00

 Date Received:
 7/19/00

 Date Extracted:
 NA

 Date Analyzed:
 7/19/00

Coliform, Fecal SM 9221E Units: MPN/100 ml

|               |              | Time Test |         |     |        |  |
|---------------|--------------|-----------|---------|-----|--------|--|
| Sample Name   | Lab Code     | MRL       | Started |     | Result |  |
| 002 Discharge | K2005315-001 | 2         | 1000    | hrs | ND     |  |
| 003 Discharge | K2005315-002 | 2         | 1000    | hrs | ND     |  |
| 004 Discharge | K2005315-003 | 2         | 1000    | hrs | ND     |  |
| 001 Intake    | K2005315-004 | 2         | 1000    | hrs | ND     |  |
| 001 Discharge | K2005315-005 | 2         | 1000    | hrs | 2      |  |

SM

Standard Methods for the Examination of Water and Wastewater, 18th Ed., 1992.

| 7                                             |  |
|-----------------------------------------------|--|
| Approved By:                                  |  |
| BACT7/102194<br>05315WET.LJI - BactFC 8/23/00 |  |

8/23/00 \_\_\_\_\_ Date: \_\_\_\_\_



#### Laboratory Chronicle

Client:Pacific Gas and Electric Company'roject:Diablo Canyon NPDESSample Matrix:Water

# Service Request: K2005315 Date Collected: 7/18,19/00 Date Received: 7/19-20/00 Date Extracted: NA

**Inorganic Parameters** 

|                                 | EPA    |               |
|---------------------------------|--------|---------------|
| Analyte                         | Method | Date Analyzed |
| Ammonia as Nitrogen             | 350.1  | 8/8,10/00     |
| Biochemical Oxygen Demand (BOD) | 405.1  | 7/20/00       |
| Chemical Oxygen Demand (COD)    | 410.2  | 8/9,11/00     |
| Bromide                         | 300.0  | 8/8/00        |
| Chlorine, Total Residual        | 330.4  | 7/19,20/00    |
| Color                           | 110.2  | 7/20/00       |
| Cyanide, Total                  | 335.2  | 7/26/00       |
| Fluoride                        | 340.2  | 8/23/00       |
| Fluoride                        | 300.0  | - 8/8/00      |
| itrate+Nitrite as Nitrogen      | 353.2  | 8/9,11/00     |
| trogen, Total Kjeldahl (TKN)    | 351.4  | 8/9/00        |
| Phenolics. Total                | 420.1  | 7/24/00       |
| Phosphorus, Total               | 365.3  | 8/10/00       |
| Solids, Total Suspended (TSS)   | 160.2  | 7/20/00       |
| Sulfate                         | 300.0  | 8/8/00        |
| Sulfide                         | 376.1  | 7/21/00       |
| Sulfite                         | 377.1  | 7/19,20/00    |
| Carbon, Total Organic (TOC)     | 415.1  | 8/9/00        |
| Methylene Blue Active Substance | 425.1  | 7/21/00       |

-pproved By:

LCS/060194 05315WET.LJ1 - LabChron 8/23/00

X) Date:



#### Analytical Report

| Client:         | Pacific Gas and Electric Company |
|-----------------|----------------------------------|
| 'roject:        | Diablo Canyon NPDES              |
| -Sample Matrix: | Water                            |

 Service Request:
 K2005315

 Date Collected:
 7/18,19/00

 Date Received:
 7/19-20/00

 Date Extracted:
 NA

#### Inorganic Parameters Units: mg/L (ppm)

|                                 |               | Sample Name:<br>Lab Code: | 002 Discharge<br>K2005315-001 | <b>003 Discharge</b><br>K2005315-002 | <b>001 Intake</b><br><b>Composite</b><br>K2005315-014 |
|---------------------------------|---------------|---------------------------|-------------------------------|--------------------------------------|-------------------------------------------------------|
| Analyte                         | EPA<br>Method | MRL                       |                               |                                      |                                                       |
| Ammonia as Nitrogen             | 350.1         | 0.05                      | 0.06                          | ND                                   | ND                                                    |
| Biochemical Oxygen Demand (BOD) | 405.1         | 4                         | ND                            | ND                                   | ND                                                    |
| Chemical Oxygen Demand (COD)    | 410.2         | 5                         | 139                           | 156                                  | 449                                                   |
| Bromide                         | 300.0         | 0.2                       | 78.5                          | 83.1                                 | 81.4                                                  |
| Chlorine, Total Residual        | 330.4         | 0.1                       | ND                            | ND                                   | ND                                                    |
| Color                           | 110.2         | 5                         | ND                            | ND                                   | ND                                                    |
| Cyanide, Total                  | 335.2         | 0.01                      | -                             | -                                    | ND                                                    |
| Fluoride                        | 340.2 (X)     | 0.2                       | 1.0                           | 1.0                                  | 1.0                                                   |
| Fluoride                        | 300.0         | 10                        | ND                            | ND                                   | ND                                                    |
| Nitrate+Nitrite as Nitrogen     | 353.2         | 0.2                       | 0.3                           | 0.3                                  | 0.3                                                   |
| itrogen, Total Kjeldahl (TKN)   | 351.4         | . 0.1                     | 0.1                           | 0.7                                  | 0.1                                                   |
| Inenolics, Total                | 420.1         | 0.01                      | -                             | -                                    | ND                                                    |
| Phosphorus, Total               | 365.3         | 0.01                      | 0.06                          | 0.09                                 | 0.06                                                  |
| Solids, Total Suspended (TSS)   | 160.2         | 5                         | 8                             | 11                                   | ND                                                    |
| Sulfate                         | 300.0         | 0.2                       | 2620                          | 2760                                 | 2540                                                  |
| Sulfide                         | 376.1         | 1                         | ND                            | ND                                   | ND                                                    |
| Sulfite                         | 377.1         | 2                         | ND                            | ND                                   | ND                                                    |
| Carbon, Total Organic (TOC)     | 415.1         | 0.5                       | 0.9                           | 1.0                                  | 0.9                                                   |
| Methylene Blue Active Substance | 425.1         | 0.05                      | ND                            | 0.06                                 | ND                                                    |
| Nitrogen, Total Organic         | 351.4/350.1   | - ·                       | 0.16                          | 0.7                                  | 0.1                                                   |

\_pproved By:

3S30EPA/102094

Page No.: 00008

8/23/00

Date:

05315WET.LJ1 - Mixed 8/23/00

Analytical Report

| Client:       | Pacific Gas and Electric Company |
|---------------|----------------------------------|
| Project:      | Diablo Canyon NPDES              |
| ample Matrix: | Water                            |

 Service Request:
 K2005315

 Date Collected:
 7/18,19/00

 Date Received:
 7/19-20/00

 Date Extracted:
 NA

#### Inorganic Parameters Units: mg/L (ppm)

|                                 |               | Sample Name:<br>Lab Code: | 001 Discharge<br>Composite<br>K2005315-023 | 004 Discharge<br>Composite<br>K2005315-024 | <b>Method Blank</b><br>K2005315-MB |
|---------------------------------|---------------|---------------------------|--------------------------------------------|--------------------------------------------|------------------------------------|
| Analyte                         | EPA<br>Method | MRL                       |                                            |                                            |                                    |
| Ammonia as Nitrogen             | 350.1         | 0.05                      | ND                                         | ND                                         | ND                                 |
| Biochemical Oxygen Demand (BOD) | 405.1         | 4                         | ND                                         | ND                                         | -                                  |
| Chemical Oxygen Demand (COD)    | 410.2         | 5                         | 489                                        | 415                                        | ND                                 |
| Bromide                         | 300.0         | 0.2                       | 81.0                                       | 80.9                                       | ND                                 |
| Chlorine, Total Residual        | 330.4         | 0.1                       | ND                                         | ND                                         | ND                                 |
| Color                           | 110.2         | 5                         | ND                                         | ND                                         | ND                                 |
| Cyanide, Total                  | 335.2         | 0.01                      | ND                                         | -                                          | ND                                 |
| Fluoride                        | 340.2 (X)     | 0.2                       | 1.0                                        | 1.0                                        | ND                                 |
| Fluoride                        | 300.0         | . 10                      | ND                                         | ND                                         | ND                                 |
| Nitrate+Nitrite as Nitrogen     | 353.2         | 0.2                       | 0.3                                        | 0.3                                        | ND                                 |
| Nitrogen, Total Kjeldahl (TKN)  | 351.4         | 0.1                       | ND .                                       | ND                                         | ND                                 |
| enolics. Total                  | 420.1         | 0.01                      | ND                                         | -                                          | ND                                 |
| Phosphorus. Total               | 365.3         | 0.01                      | 0.06                                       | 0.08                                       | ND                                 |
| Solids, Total Suspended (TSS)   | 160.2         | 5                         | ND                                         | ND                                         | ND                                 |
| Sulfate                         | 300.0         | 0.2                       | 2640                                       | 2540                                       | ND                                 |
| Sulfide                         | 376.1         | 1                         | ND                                         | ND                                         | ND                                 |
| Sulfite                         | 377.1         | 2                         | ND                                         | ND                                         | ND                                 |
| Carbon. Total Organic (TOC)     | 415.1         | 0.5                       | 0.8                                        | 0.7                                        | ND                                 |
| Methylene Blue Active Substance | 425.1         | 0.05                      | ND                                         | ND                                         | ND                                 |
| Nitrogen. Total Organic         | 351.4/350.1   | -                         | ND                                         | ND                                         | ND                                 |

\_proved By:

3S30EPA/102094

3/25/00 Date:

Page No.: 00009

05315WET.LJ1 - Mixed (2) 8/23/00

#### Analytical Report

| Client:         | Pacific Gas and Electric Company |
|-----------------|----------------------------------|
| `roject:        | Diablo Canyon NPDES              |
| -Sample Matrix: | Water                            |

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 Service Request:
 K2005315

 Date Collected:
 7/19/00

 Date Received:
 7/20/00

 Date Extracted:
 8/4/00

#### Total Metals Units: µg/L (ppb)

|           |        | Sample Name:<br>Lab Code: | 002 Discharge<br>K2005315-001 | 003 Discharge<br>K2005315-002 |
|-----------|--------|---------------------------|-------------------------------|-------------------------------|
|           |        | Date Analyzed:            | 8/8-16/00                     | 8/8-16/00                     |
|           | EPA    |                           |                               |                               |
| Analyte   | Method | MRL                       |                               |                               |
| Aluminum  | 200.7  | 50                        | ND                            | 82                            |
| Barium    | 200.7  | 5                         | ND                            | ND                            |
| Boron     | 200.7  | 50                        | 4260                          | 4590                          |
| Cobalt    | 200.8  | 1                         | 2                             | ND                            |
| Iron      | 200.7  | 20                        | 22                            | 227                           |
| Magnesium | 200.7  | 20                        | 1150000                       | 1250000                       |
| Manganese | 200.7  | 5                         | ND                            | ND ·                          |
| Tin       | 200.8  | 5                         | ND                            | ND                            |
| Titanium  | 200.7  | 5                         | ND                            | ND                            |

Approved By:

3S30EPA/102094 05315ICP.BR1 - 1, 2 8/16/00

Date: 8/160

Page No.: 00010

#### Analytical Report

## Client:Pacific Gas and Electric CompanyProject:Diablo Canyon NPDESSample Matrix:Water

 Service Request:
 K2005315

 Date Collected:
 7/19/00

 Date Received:
 7/20/00

 Date Extracted:
 7/24, 8/4/00

#### Total Metals Units: µg/L (ppb)

| •          |               | Sample Name:<br>Lab Code:<br>Date Analyzed: | 001 Intake<br>Composite<br>K2005315-014<br>7/24-8/10/00 | 001 Discharge<br>Composite<br>K2005315-023<br>7/24-8/10/00 | 004 Discharge<br>Compsite<br>K2005315-024<br>7/24-8/10/00 |
|------------|---------------|---------------------------------------------|---------------------------------------------------------|------------------------------------------------------------|-----------------------------------------------------------|
| Analyte    | EPA<br>Method | MRL                                         |                                                         |                                                            |                                                           |
| Aluminum   | 200.7         | · 50                                        | 85                                                      | 76                                                         | 89                                                        |
| Antimony   | 200.8         | 1                                           | ND                                                      | ND                                                         | ND                                                        |
| Arsenic    | 200.9         | 5                                           | ND                                                      | ND                                                         | ND                                                        |
| Barium     | 200.7         | 5                                           | ND                                                      | ND                                                         | ND                                                        |
| Beryllium  | 200.8         | 1                                           | ND                                                      | ND                                                         | ND                                                        |
| Boron      | 200.7         | 50                                          | 4440                                                    | 4370                                                       | 4350                                                      |
| Cadmium    | 200.8         | 1                                           | ND                                                      | ND                                                         | ND                                                        |
| Chromium   | 200.9         | 2                                           | ND                                                      | ND                                                         | ND                                                        |
| Cobalt     | 200.8         | 1                                           | ND                                                      | ND                                                         | ND                                                        |
| Copper     | 200.9         | 2                                           | ND                                                      | ND                                                         | ND                                                        |
| on         | 200.7         | 20                                          | ND                                                      | ND                                                         | ND                                                        |
| ead        | 200.8         | 1                                           | ND                                                      | ND                                                         | ND                                                        |
| Magnesium  | 200.7         | 20                                          | 1190000                                                 | 1180000                                                    | 1170000                                                   |
| Manganese  | 200.7         | 5                                           | ND                                                      | ND                                                         | ND                                                        |
| Mercury    | 245.1         | 0.2                                         | ND                                                      | ND                                                         | ND                                                        |
| Molybdenum | 200.7         | 10                                          | ND                                                      | ND                                                         | ND                                                        |
| Nickel     | 200.9         | 3                                           | ND                                                      | ND                                                         | ND                                                        |
| Selenium   | SM 3114B      | 1                                           | ND                                                      | ND                                                         | ND                                                        |
| Silver     | 200.8         | 1                                           | ND                                                      | ND                                                         | ND                                                        |
| Thallium   | 200.8         | 1                                           | ND                                                      | ND                                                         | ND                                                        |
| Tin        | 200.8         | 5                                           | ND                                                      | ND                                                         | ND                                                        |
| Titanium   | 200.7         | 5                                           | ND                                                      | ND                                                         | ND                                                        |
| Zinc       | 200.7         | . 10                                        | 21                                                      | 26                                                         | ND                                                        |

Approved By: \_\_\_\_\_\_ 3S30EPA/102094 05315ICP.BR1 - 14, 23, 24 8/15/00

5/00 Date: \_\_\_\_\_ Page No.: 00011

#### Analytical Report

| Client:             | Pacific Gas and Electric Company |
|---------------------|----------------------------------|
| <pre>'roject:</pre> | Diablo Canyon NPDES              |
| -Sample Matrix:     | Water                            |

Service Request: K2005315 Date Collected: NA Date Received: NA Date Extracted: 7/24, 8/4/00

#### Total Metals Units: µg/L (ppb)

|            |          | Sample Name:   | Method Blank |
|------------|----------|----------------|--------------|
|            |          | Lab Code:      | K2005315-MB  |
|            |          | Date Analyzed: | 7/24-8/10/00 |
|            | EPA      |                |              |
| Analyte    | Method   | MRL            |              |
| Aluminum   | 200.7    | 50             | ND           |
| Antimony   | 200.8    | 1              | ND           |
| Arsenic    | 200.9    | 5              | ND           |
| Barium     | 200.7    | 5              | ND           |
| Beryllium  | 200.8    | 1              | ND           |
| Boron      | 200.7    | 50             | ND           |
| Cadmium    | 200.8    | 1              | ND           |
| Chromium   | 200.9    | 2              | ND           |
| Cobalt     | 200.8    | 1              | ND           |
| Copper     | 200.9    | 2              | ND           |
| on         | 200.7    | 20             | ND           |
| read       | 200.8    | 1              | ND           |
| Magnesium  | 200.7    | 20             | ND           |
| Manganese  | 200.7    | 5              | ND           |
| Mercury    | 245.1    | 0.2            | ND           |
| Molybdenum | 200.7    | 10             | ND           |
| Nickel     | 200.9    | 3              | ND           |
| Selenium   | SM 3114B | 1              | ND           |
| Silver     | 200.8    | 1              | ND           |
| Thallium . | 200.8    | 1              | ND           |
| Tin ·      | 200.8    | . 5            | ND           |
| Titanium   | 200.7    | 5              | ND           |
| Zinc       | 200.7    | 10             | ND           |

Approved By: \_\_\_\_\_ 3S30EPA/102094 05315ICP.BR1 - MB 8/15/00

3/15/00 Date: 00012

Page No.:

#### Analytical Report

ient:Pacific Gas and Electric Companyject:Diablo Canyon NPDESSample Matrix:Water

 Service Request:
 K2005315

 Date Collected:
 7/18-19/00

 Date Received:
 7/19-20/00

 Date Extracted:
 8/7/00

 Date Analyzed:
 8/8/00

#### Oil and Grease EPA Method 413.1 Units: mg/L (ppm)

| Sample Name             | Lab Code     | MRL  | Result |
|-------------------------|--------------|------|--------|
| 002 Discharge           | K2005315-001 | 5.0  | ND     |
| 003 Discharge           | K2005315-002 | 5.0  | ND     |
| 001 Intake Composite    | K2005315-014 | .5.0 | ND     |
| 001 Discharge Composite | K2005315-023 | 5.0  | ND     |
| 004 Discharge Composite | K2005315-024 | 5.0  | ND     |
| Method Blank            | K000807-WB   | 5.0  | ND     |
|                         |              |      |        |

Approved By: \_\_\_\_\_M

IAMRL/102594 05315PHC.KH1 - 413w 8/8/00 hulen

Date: \_\_\_\_\_8/8/00

| Client:        | Pacia |
|----------------|-------|
| Project:       | Diab  |
| Sample Matrix: | Wate  |

cific Gas and Electric Company ablo Canyon NPDES nter

## Service Request: K2005315 Date Collected: 07/19/2000 Date Received: 07/20/2000

#### **Volatile Organic Compounds**

| Sample Name:                           | 001 Intake Composite | Units: | ug/L |
|----------------------------------------|----------------------|--------|------|
| Lab Code:                              | K2005315-014         | Basis: | NA   |
| Extraction Method:<br>Analysis Method: | EPA 5030B<br>8260B   | Level: | Low  |

| Analyte Name                | Result Q | MRL  | Dilution<br>Factor | Date<br>Extracted | Date<br>Analyzed | Extraction<br>Lot | Note |
|-----------------------------|----------|------|--------------------|-------------------|------------------|-------------------|------|
| Dichlorodifluoromethane     | ND U     | 0.50 | 1                  | 08/02/00          | 08/02/00         | KWG2002991        |      |
| Chloromethane               | ND U     | 0.50 | ī                  | 08/02/00          | 08/02/00         | KWG2002991        |      |
| Vinyl Chloride              | ND U     | 0.50 | 1                  | 08/02/00          | 08/02/00         | KWG2002991        |      |
| Bromomethane                | ND U     | 0.50 | 1                  | 08/02/00          | 08/02/00         | KWG2002991        | ···· |
| Chloroethane                | ND U     | 0.50 | 1                  | 08/02/00          | 08/02/00         | KWG2002991        |      |
| 1.1-Dichloroethene          | ND U     | 0.50 | 1                  | 08/02/00          | 08/02/00         | KWG2002991        |      |
| Trichlorofluoromethane      | ND U     | 0.50 | 1                  | 08/02/00          | 08/02/00         | KWG2002991        |      |
| Methylene Chloride          | ND U     | 1.0  | 1                  | 08/02/00          | 08/02/00         | KWG2002991        |      |
| trans-1.2-Dichloroethene    | ND U     | 0.50 | 1                  | 08/02/00          | 08/02/00         | KWG2002991        |      |
| 1.1-Dichloroethane          | ND U     | 0.50 | 1                  | 08/02/00          | 08/02/00         | KWG2002991        |      |
| Chloroform                  | ND U     | 0.50 | 1                  | 08/02/00          | 08/02/00         | KWG2002991        |      |
| 1.1.1-Trichloroethane (TCA) | ND U     | 0.50 | 1                  | 08/02/00          | 08/02/00         | KWG2002991        |      |
| C Tetrachloride             | ND U     | 0.50 | 1                  | 08/02/00          | 08/02/00         | KWG2002991        |      |
| Bare                        | ND U     | 0.50 | 1                  | 08/02/00          | 08/02/00         | KWG2002991        |      |
| 1.2-Dichloroethane (EDC)    | ND U     | 0.50 | 1                  | 08/02/00          | 08/02/00         | KWG2002991        |      |
| Trichloroethene (TCE)       | ND U     | 0.50 | 1                  | 08/02/00          | 08/02/00         | KWG2002991        |      |
| 1.2-Dichloropropane         | ND U     | 0.50 | 1                  | 08/02/00          | 08/02/00         | KWG2002991        |      |
| Bromodichloromethane        | ND U     | 0.50 | 1                  | 08/02/00          | 08/02/00         | KWG2002991        |      |
| 2-Chloroethyl Vinyl Ether   | ND U     | 1.0  | 1                  | 08/02/00          | 08/02/00         | KWG2002991        | *    |
| trans-1.3-Dichloropropene   | ND U     | 0.50 | . 1                | 08/02/00          | 08/02/00         | KWG2002991        |      |
| Toluene                     | ND U .   | 0.50 | 1                  | 08/02/00          | 08/02/00         | KWG2002991        |      |
| cis-1.3-Dichloropropene     | ND U     | 0.50 | 1                  | 08/02/00          | 08/02/00         | KWG2002991        |      |
| 1.1.2-Trichloroethane       | ND U     | 0.50 | 1                  | 08/02/00          | 08/02/00         | KWG2002991        |      |
| Tetrachloroethene (PCE)     | ND U     | 0.50 | 1                  | 08/02/00          | 08/02/00         | KWG2002991        |      |
| Dibromochloromethane        | ND U     | 0.50 | 1                  | 08/02/00          | 08/02/00         | KWG2002991        |      |
| Chlorobenzene               | ND U     | 0.50 | 1                  | 08/02/00          | 08/02/00         | KWG2002991        |      |
| Ethylbenzene                | ND U     | 0.50 | 1                  | 08/02/00          | 08/02/00         | KŴG2002991        |      |
| Bromoform                   | ND U     | 0.50 | 1                  | 08/02/00          | 08/02/00         | KWG2002991        |      |
| 1.1.2.2-Tetrachloroethane   | ND U     | 0.50 | 1                  | 08/02/00          | 08/02/00         | KWG2002991        |      |

\* See Case Narrative

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#### CULUMDIA ANALI TICAL SERVICES, INC.

#### Analytical Results

| Client:        | Pacific Gas and Electric Company | Service Request: | K2005315   |
|----------------|----------------------------------|------------------|------------|
| Project:       | Diablo Canyon NPDES              | Date Collected:  | 07/19/2000 |
| Sample Matrix: | Water                            | Date Received:   | 07/20/2000 |

#### **Volatile Organic Compounds**

| Sample Name:<br>Lab Code: | 001 Intake Composite<br>K2005315-014 |                   |            | Units:<br>Basis: | ug/L<br>NA |
|---------------------------|--------------------------------------|-------------------|------------|------------------|------------|
| Surrogate Name            | %Rec                                 | Control<br>Limits | Note       |                  |            |
| Tolucne-d8                | 104                                  | 83-116            | Acceptable |                  | • <u> </u> |
| 4-Bromofluorobenzene      | 105                                  | 75-120            | Acceptable |                  |            |
| Dibromofluoromethane      | 108                                  | 87-115            | Acceptable |                  |            |

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| Client:  |         |
|----------|---------|
| Projects | :       |
| Sample   | Matrix: |

Pacific Gas and Electric Company Diablo Canyon NPDES Water

 Service Request:
 K2005315

 Date Collected:
 07/19/2000

 Date Received:
 07/20/2000

### Volatile Organic Compounds

| Sample Name:                           | 001 Discharge Composite | Units: | ug/L |
|----------------------------------------|-------------------------|--------|------|
| Lab Code:                              | K2005315-023            | Basis: | NA   |
| Extraction Method:<br>Analysis Method: | EPA 5030B<br>8260B      | Level: | Low  |

|                               |        |    |        | Dilution | Date      | Date       | Extraction |      |
|-------------------------------|--------|----|--------|----------|-----------|------------|------------|------|
| Analyte Name                  | Result | Q  | MRL    | Factor   | Extracted | Analyzed   | Lot        | Note |
| Dichlorodifluoromethane       | ND     | U  | 0.25   | . 1      | 08/02/00  | 08/02/00   | KWG2002991 |      |
| Chloromethane                 | ND     | U  | 0.25   | 1        | 08/02/00  | 08/02/00   | KWG2002991 |      |
| Vinyl Chloride                | ND     | U  | 0.3    | 1        | 08/02/00  | 08/02/00   | KWG2002991 |      |
| Bromomethane                  | ND     | U  | 0.3    | 1        | 08/02/00  | 08/02/00   | KWG2002991 |      |
| Chloroethane                  | ND     | U  | 0.25   | 1        | 08/02/00  | 08/02/00   | KWG2002991 |      |
| 1.1-Dichloroethene            | ND     | U  | 0.25   | 1        | 08/02/00  | 08/02/00   | KWG2002991 |      |
| Trichlorofluoromethane        | ND     | U  | 0.25   | I        | 08/02/00  | 08/02/00   | KWG2002991 |      |
| Methylene Chloride            | ND     | U  | 0.50   | 1        | 08/02/00  | 08/02/00   | KWG2002991 |      |
| trans-1.2-Dichloroethene      | ND     | U  | 0.25   | . 1      | 08/02/00  | 08/02/00 • | KWG2002991 |      |
| 1.1-Dichloroethane            | ND     | U  | 0.25   | 1        | 08/02/00  | 08/02/00   | KWG2002991 |      |
| Chloroform                    | ND     | U  | 0.25   | 1        | 08/02/00  | 08/02/00   | KWG2002991 |      |
| l, l. l-Trichloroethane (TCA) | ND     | U  | 0.25   | 1        | 08/02/00  | 08/02/00   | KWG2002991 |      |
| C Tetrachloride               | ND     | U  | 0.25   | 1        | 08/02/00  | 08/02/00   | KWG2002991 |      |
| Benne                         | ND     | U  | 0.25   | 1        | 08/02/00  | 08/02/00   | KWG2002991 |      |
| 1.2-Dichloroethane (EDC)      | ND     | U  | 0.25   | 1        | 08/02/00  | 08/02/00   | KWG2002991 |      |
| Trichloroethene (TCE)         | ND     | U  | 0.25   | 1        | 08/02/00  | 08/02/00   | KWG2002991 |      |
| 1.2-Dichloropropane           | ND     | U  | 0.25   | 1        | 08/02/00  | 08/02/00   | KWG2002991 |      |
| Bromodichloromethane          | ND     | U  | 0.25   | 1        | 08/02/00  | 08/02/00   | KWG2002991 |      |
| 2-Chloroethyl Vinyl Ether     | ND     | U  | 0.50   | 1        | 08/02/00  | 08/02/00   | KWG2002991 | *    |
| trans-1,3-Dichloropropene     | ND     | U  | 0.25   | 1        | 08/02/00  | 08/02/00   | KWG2002991 |      |
| Toluene                       | ND     | U  | 0.25   | 1        | 08/02/00  | 08/02/00   | KWG2002991 |      |
| cis-1.3-Dichloropropene       | ND     | U  | 0.25   | 1        | 08/02/00  | 08/02/00   | KWG2002991 |      |
| 1.1.2-Trichloroethane         | ND     | U  | . 0.25 | 1        | 08/02/00  | 08/02/00   | KWG2002991 |      |
| Tetrachloroethene (PCE)       | ND     | U  | 0.25   | 1        | 08/02/00  | 08/02/00   | KWG2002991 |      |
| Dibromochloromethane          | ND I   | U. | 0.25   | 1        | 08/02/00  | 08/02/00   | KWG2002991 |      |
| Chlorobenzene                 | ND I   | U  | 0.25   | · 1      | 08/02/00  | 08/02/00   | KWG2002991 |      |
| Ethylbenzene                  | ND I   | U  | 0.25   | 1        | 08/02/00  | 08/02/00   | KWG2002991 |      |
| Bromoform                     | ND I   | IJ | 0.3    | 1        | 08/02/00  | 08/02/00   | KWG2002991 |      |
| 1.1.2.2-Tetrachloroethane     | ND (   | J  | 0.25   | 1        | 08/02/00  | 08/02/00   | KWG2002991 |      |

\* See Case Narrative

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#### CULUMDIA ANALI HUAL SERVICES, INC.

#### Analytical Results

| Client:        | Pacific Gas and Electric Company | Service Request: | K2005315   |
|----------------|----------------------------------|------------------|------------|
| Project:       | Diablo Canyon NPDES              | Date Collected:  | 07/19/2000 |
| Sample Matrix: | Water                            | Date Received:   | 07/20/2000 |

#### **Volatile Organic Compounds**

| Sample Name:         | 001 Discharge Comj | Units: ug/L       |            |                                        |
|----------------------|--------------------|-------------------|------------|----------------------------------------|
| Lab Code:            | K2005315-023       | Basis: NA         |            |                                        |
| Surrogate Name       | %Rec               | Control<br>Limits | Note       |                                        |
| Toluene-d8           | 103                | 83-116            | Acceptable | ************************************** |
| 4-Bromofluorobenzene | 103                | 75-120            | Acceptable |                                        |

Acceptable

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Dibromofluoromethane

107

87-115

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| Client:        |
|----------------|
| Project:       |
| Sample Matrix: |

Pacific Gas and Electric Company Diablo Canyon NPDES Water

Service Request: K2005315 Date Collected: NA Date Received: NA

#### Volatile Organic Compounds

| Sample Name:                           | Method Blank       | Units: | ug/L |
|----------------------------------------|--------------------|--------|------|
| Lab Code:                              | KWG2002991-6       | Basis: | NA   |
| Extraction Method:<br>Analysis Method: | EPA 5030B<br>8260B | Level: | Low  |

| Analyte Name                | Result Q | MRL  | Dilution<br>Factor | Date<br>Extracted | Date<br>Analyzed | Extraction<br>Lot | Note |
|-----------------------------|----------|------|--------------------|-------------------|------------------|-------------------|------|
| Dichlorodifluoromethane     | ND U     | 0.50 | 1                  | 08/02/00          | 08/02/00         | KWG2002991        |      |
| Chloromethane               | ND U     | 0.50 | 1                  | 08/02/00          | 08/02/00         | KWG2002991        |      |
| Vinyl Chloride              | ND U     | 0.50 | 1                  | 08/02/00          | 08/02/00         | KWG2002991        |      |
| Bromomethane                | ND U     | 0.50 | 1                  | 08/02/00          | 08/02/00         | KWG2002991        |      |
| Chloroethane                | ND U     | 0.50 | 1                  | 08/02/00          | 08/02/00         | KWG2002991        |      |
| 1.1-Dichloroethene          | ND U     | 0.50 | 1                  | 08/02/00          | 08/02/00         | KWG2002991        |      |
| Trichlorofluoromethane      | ND U     | 0.50 | 1                  | 08/02/00          | 08/02/00         | KWG2002991        |      |
| Methylene Chloride          | ND U     | 1.0  | 1                  | 08/02/00          | 08/02/00         | KWG2002991        |      |
| trans-1,2-Dichloroethene    | ND U     | 0.50 | 1                  | 08/02/00          | 08/02/00         | KWG2002991        |      |
| 1.1-Dichloroethane          | ND U     | 0.50 | 1                  | 08/02/00          | 08/02/00         | KWG2002991        | ••   |
| Chloroform                  | ND U     | 0.50 | 1                  | 08/02/00          | 08/02/00         | KWG2002991        |      |
| 1,1,1-Trichloroethane (TCA) | ND U     | 0.50 | 1                  | 08/02/00          | 08/02/00         | KWG2002991        |      |
| Ce Tetrachloride            | ND U     | 0.50 | 1                  | 08/02/00          | 08/02/00         | KWG2002991        |      |
| Bere                        | ND U     | 0.50 | 1                  | 08/02/00          | 08/02/00         | KWG2002991        |      |
| 1.2-Dichloroethane (EDC)    | ND U     | 0.50 | 1                  | 08/02/00          | 08/02/00         | KWG2002991        |      |
| Trichloroethene (TCE)       | ND U     | 0.50 | 1                  | 08/02/00          | 08/02/00         | KWG2002991        |      |
| 1.2-Dichloropropane         | ND U     | 0.50 | 1                  | 08/02/00          | 08/02/00         | KWG2002991        |      |
| Bromodichloromethane        | ND U     | 0.50 | 1                  | 08/02/00          | 08/02/00         | KWG2002991        |      |
| 2-Chloroethyl Vinyl Ether   | ND U     | 1.0  | 1                  | 08/02/00          | 08/02/00         | KWG2002991        | *    |
| trans-1.3-Dichloropropene   | ND U     | 0.50 | 1                  | 08/02/00          | 08/02/00         | KWG2002991        |      |
| Toluene ·                   | . ND U   | 0.50 | 1                  | 08/02/00          | 08/02/00         | KWG2002991        |      |
| cis-1.3-Dichloropropene     | ND U     | 0.50 | : I                | 08/02/00          | 08/02/00         | KWG2002991        |      |
| 1.1.2-Trichloroethane       | ND U     | 0.50 | 1                  | 08/02/00          | 08/02/00         | KWG2002991        |      |
| Tetrachloroethene (PCE)     | ND U     | 0.50 | 1                  | 08/02/00          | 08/02/00         | KWG2002991        |      |
| Dibromochloromethane        | ND U     | 0.50 | 1                  | 08/02/00          | 08/02/00         | KWG2002991        |      |
| Chlorobenzene               | ND U     | 0.50 | 1                  | 08/02/00          | 08/02/00         | KWG2002991        |      |
| Ethylbenzene                | ND U     | 0.50 | 1                  | 08/02/00          | 08/02/00         | KWG2002991        |      |
| Bromoform                   | ND U     | 0.50 | 1                  | 08/02/00          | 08/02/00         | KWG2002991        |      |
| 1.1.2.2-Tetrachloroethane   | ND U     | 0.50 | 1                  | 08/02/00          | 08/02/00         | KWG2002991        |      |

\* See Case Narrative

| Client:        | Pacific Gas and Electric Company |  | Service Request: | K2005315 |
|----------------|----------------------------------|--|------------------|----------|
| Project:       | Diablo Canyon NPDES              |  | Date Collected:  | NA       |
| Sample Matrix: | Water                            |  | Date Received:   | NA       |
|                |                                  |  |                  |          |

#### **Volatile Organic Compounds**

| Sample Name:<br>Lab Code:          | Method Blank<br>KWG2002991-6 |                   |                          | Units: ug/L<br>Basis: NA |
|------------------------------------|------------------------------|-------------------|--------------------------|--------------------------|
| Surrogate Name                     | %Rec                         | Control<br>Limits | Note                     |                          |
| Toluene-d8<br>4-Bromofluorobenzene | 100<br>101                   | 83-116<br>75-120  | Acceptable<br>Acceptable |                          |

Dibromofluoromethane 102 87-115 Acceptable

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| Client:        |  |
|----------------|--|
| Project:       |  |
| Sample Matrix: |  |

Pacific Gas and Electric Company Diablo Canyon NPDES water

Service Request: K2005315 Date Collected: NA Date Received: NA

#### Volatile Organic Compounds

| Sample Name:                           | Method Blank       | Units: | ug/L |
|----------------------------------------|--------------------|--------|------|
| Lab Code:                              | KWG2003030-3       | Basis: | NA   |
| Extraction Method:<br>Analysis Method: | EPA 5030B<br>8260B | Level: | Low  |

|                             |        |   |       | Dilution | Date       | Date     | Extraction |          |
|-----------------------------|--------|---|-------|----------|------------|----------|------------|----------|
| Analyte Name                | Result | Q | MRL   | Factor   | Extracted  | Analyzed | Lot        | Note     |
| Dichlorodifluoromethane     | ND     | U | 0.50  | 1        | 08/03/00   | 08/03/00 | KWG2003030 |          |
| Chloromethane               | ND     | U | 0.50  | 1        | 08/03/00   | 08/03/00 | KWG2003030 |          |
| Vinyl Chloride              | ND     | U | 0.50  | 1        | 08/03/00   | 08/03/00 | KWG2003030 |          |
| Bromomethane                | ND     | U | 0.50  | 1        | 08/03/00   | 08/03/00 | KWG2003030 | ,        |
| Chloroethane                | ND     | U | 0.50  | 1        | 08/03/00   | 08/03/00 | KWG2003030 |          |
| 1.1-Dichloroethene          | ND     | U | 0.50  | 1        | 08/03/00   | 08/03/00 | KWG2003030 |          |
| Trichlorofluoromethane      | ND     | U | 0.50  | 1        | 08/03/00   | 08/03/00 | KWG2003030 |          |
| Methylene Chloride          | ND     | U | 1.0 . | 1        | 08/03/00   | 08/03/00 | KWG2003030 |          |
| trans-1.2-Dichloroethene    | ND     | U | 0.50  | 1        | 08/03/00   | 08/03/00 | KWG2003030 |          |
| 1.1-Dichloroethane          | ND     | U | 0.50  | 1        | 08/03/00   | 08/03/00 | KWG2003030 |          |
| Chloroform                  | ND     | U | 0.50  | 1        | 08/03/00   | 08/03/00 | KWG2003030 |          |
| 1.1.1-Trichloroethane (TCA) | ND     | U | 0.50  | 1        | 08/03/00   | 08/03/00 | KWG2003030 |          |
| Ca Tetrachloride            | ND     | U | 0.50  | 1        | 08/03/00   | 08/03/00 | KWG2003030 | <u> </u> |
| Bei                         | ND     | U | 0.50  | 1        | 08/03/00 · | 08/03/00 | KWG2003030 |          |
| 1.2-Dichloroethane (EDC)    | ND     | U | 0.50  | 1        | 08/03/00   | 08/03/00 | KWG2003030 |          |
| Trichloroethene (TCE)       | ND     | U | 0.50  | 1        | 08/03/00   | 08/03/00 | KWG2003030 |          |
| 1.2-Dichloropropane         | ND     | U | 0.50  | 1        | 08/03/00   | 08/03/00 | KWG2003030 |          |
| Bromodichloromethane        | ND     | U | 0.50  | 1        | 08/03/00   | 08/03/00 | KWG2003030 |          |
| 2-Chloroethyl Vinyl Ether   | ND I   | U | 1.0   | 1        | 08/03/00   | 08/03/00 | KWG2003030 |          |
| trans-1.3-Dichloropropene   | ND I   | U | 0.50  | . 1      | 08/03/00   | 08/03/00 | KWG2003030 |          |
| loluene                     | ND 1   | J | 0.50  | 1        | 08/03/00   | 08/03/00 | KWG2003030 |          |
| c1s-1.3-Dichloropropene     | ND I   | J | 0.50  | 1        | 08/03/00   | 08/03/00 | KWG2003030 |          |
| 1.1.2-Trichloroethane       | ND I   | J | 0.50  | 1        | 08/03/00   | 08/03/00 | KWG2003030 |          |
| Tetrachloroethene (PCE)     | ND (   | J | 0.50  | 1        | 08/03/00   | 08/03/00 | KWG2003030 |          |
| Dibromochloromethane        | ND (   | J | 0.50  | 1        | 08/03/00   | 08/03/00 | KWG2003030 |          |
| Chlorobenzene               | ND (   | J | 0.50  | 1        | 08/03/00   | 08/03/00 | KWG2003030 |          |
| Elhylbenzene                | ND (   | J | 0.50  | 1        | 08/03/00   | 08/03/00 | KWG2003030 |          |
| Bromoform                   | ND U   | J | 0.50  | 1        | 08/03/00   | 08/03/00 | KWG2003030 |          |
| 1.1.2.2-Tetrachloroethane   | ND U   | J | 0.50  | 1        | 08/03/00   | 08/03/00 | KWG2003030 |          |

| Client:        | Pacific Gas and Electric Company |  | Service Request: k | K2005315 |
|----------------|----------------------------------|--|--------------------|----------|
| Project:       | Diablo Canyon NPDES              |  | Date Collected: N  | NA       |
| Sample Matrix: | water                            |  | Date Received: N   | NA       |

#### **Volatile Organic Compounds**

| Sample Name:<br>Lab Code:                                 | Method Blank<br>KWG2003030-3 |                            |                                        | Units:<br>Basis: | ug/L<br>NA |
|-----------------------------------------------------------|------------------------------|----------------------------|----------------------------------------|------------------|------------|
| Surrogate Name                                            | %Rec                         | Control<br>Limits          | Note                                   |                  |            |
| Toluene-d8<br>4-Bromofluorobenzene<br>Dibromofluoromethan | 103<br>e 103<br>e 103        | 83-116<br>75-120<br>87-115 | Acceptable<br>Acceptable<br>Acceptable |                  | <b></b>    |

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| Client:        | Pacific Gas and Electric Company | Service Request: | K2005315   |
|----------------|----------------------------------|------------------|------------|
| Project:       | Diablo Canyon NPDES              | Date Collected:  | 07/19/2000 |
| Sample Matrix: | Water                            | Date Received:   | 07/20/2000 |

#### **Volatile Organic Compounds**

| Sample Name:                           | 001 Intake Composite | Units: | ug/L |
|----------------------------------------|----------------------|--------|------|
| Lab Code:                              | K2005315-014         | Basis: | NA   |
| Extraction Method:<br>Analysis Method: | EPA 5030B<br>624     | Level: | Low  |

| Analyte Name  | Result Q | MRL | Dilution<br>Factor | Date<br>Extracted | Date<br>Analyzed | Extraction<br>Lot | Note |
|---------------|----------|-----|--------------------|-------------------|------------------|-------------------|------|
| Acrolein      | ND U     | 20  | 1                  | 08/02/00          | 08/02/00         | KWG2002998        |      |
| Acrylonitrile | ND U     | 20  | 1                  | 08/02/00          | 08/02/00         | KWG2002998        |      |

| Surrogate Name        | %Rec | Control<br>Limits | Note                   |   |
|-----------------------|------|-------------------|------------------------|---|
| 1.2-Dichloroethane-d4 | 113  | 76-114            | Acceptable             | • |
| Toluene-d8            | 137  | 88-110            | Outside Control Limits |   |
| 4-Bromofluorobenzene  | 112  | 86-115            | Acceptable             |   |

00022 Page 1 of 1 SuperSet Reference: RR1445

#### UULUIVIDIA ANALY FICAL SERVICES, INC.

#### Analytical Results

| Client:        | Pacific Gas and Electric Company | Service Request: | K2005315   |
|----------------|----------------------------------|------------------|------------|
| Project:       | Diablo Canyon NPDES              | Date Collected:  | 07/19/2000 |
| Sample Matrix: | Water                            | Date Received:   | 07/20/2000 |

#### Volatile Organic Compounds

| Sample Name:<br>Lab Code:              | 001 Discharge Composite<br>K2005315-023 |  | Units:<br>Basis: | ug/L<br>NA |
|----------------------------------------|-----------------------------------------|--|------------------|------------|
| Extraction Method:<br>Analysis Method: | EPA 5030B<br>624                        |  | Level:           | Low        |

| Analyte Name  | Result Q | MRL | Dilution<br>Factor | Date<br>Extracted | Date<br>Anaivzed | Extraction<br>Lot | Note |
|---------------|----------|-----|--------------------|-------------------|------------------|-------------------|------|
| Acrolein      | ND U     | 20  | 1                  | 08/02/00          | 08/02/00         | KWG2002998        |      |
| Acrylonitrile | ND U     | 20  | 1                  | 08/02/00          | 08/02/00         | KWG2002998        |      |

| Surrogate Name                      | %Rec       | Control<br>Limits | Note                                             |  |
|-------------------------------------|------------|-------------------|--------------------------------------------------|--|
| 1.2-Dichloroethane-d4<br>Toluene-d8 | 116<br>114 | 76-114<br>88-110  | Outside Control Limits<br>Outside Control Limits |  |
| 4-Bromofluorobenzene                | 111        | 86-115            | Acceptable                                       |  |

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#### Analytical Results

| Client:        | Pacific Gas and Electric Company | Service Request: | K2005315 |
|----------------|----------------------------------|------------------|----------|
| Project:       | Diablo Canyon NPDES              | Date Collected:  | NA       |
| Sample Matrix: | Water                            | Date Received:   | NA       |

#### **Volatile Organic Compounds**

| Sample Name:                           | Method Blank     | Units: | ug/L |
|----------------------------------------|------------------|--------|------|
| Lab Code:                              | KWG2002998-4     | Basis: | NA   |
| Extraction Method:<br>Analysis Method: | EPA 5030B<br>624 | Level: | Low  |

| Analyte Name  | Result Q | MRL | Dilution<br>Factor | Date<br>Extracted | Date<br>Analyzed | Extraction<br>Lot | Note |
|---------------|----------|-----|--------------------|-------------------|------------------|-------------------|------|
| Acrolein      | ND U     | 20  | 1                  | 08/01/00          | 08/01/00         | KWG2002998        |      |
| Acrylonitrile | ND U     | 20  | Î                  | 08/01/00          | 08/01/00         | KWG2002998        |      |

| Surrogate Name        | %Rec | Control<br>Limits | Note       |  |
|-----------------------|------|-------------------|------------|--|
| 1.2-Dichloroethane-d4 | 105  | 76-114            | Acceptable |  |
| Toluene-d8            | 108  | 88-110            | Acceptable |  |
| 4-Bromofluorobenzene  | 109  | 86-115            | Acceptable |  |

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Analytical Report

Client: Project: Sample Matrix:

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Pacific Gas and Electric Company Diablo Canyon NPDES Water

001 Intake Composite

K2005315-014

Service Request: K2005315 Date Collected: 7/19/00 Date Received: 7/20/00

Units: ug/L (ppb)

Basis: NA

#### Base Neutral/Acid Semivolatile Organic Compounds

Sample Name: Lab Code: Test Notes:

| Analyte                            | Prep<br>Method | Analysis<br>Method | MRL | MDL | Dilution<br>Factor | Date<br>Extracted | Date<br>Analyzed | Result   | Result<br>Notes |
|------------------------------------|----------------|--------------------|-----|-----|--------------------|-------------------|------------------|----------|-----------------|
| Bis(2-chloroethyl) Ether           | EPA 3520C      | 625                | 5   | 0.5 | 1                  | 7/21/00           | 8/2/00           |          |                 |
| Phenol                             | EPA 3520C      | 625                | 5   | 0.5 | 1                  | 7/21/00           | 8/2/00           |          |                 |
| 2-Chlorophenol                     | EPA 3520C      | 625                | 5   | 0.5 | 1                  | 7/21/00           | 8/2/00           |          |                 |
| 1.3-Dichlorobenzene                | EPA 3520C      | 625                | 5   | 0.7 | 1                  | 7/21/00           | 8/2/00           |          |                 |
| 1.2-Dichlorobenzene                | EPA 3520C      | 625                | 5   | 0.3 | 1                  | 7/21/00           | 8/2/00           |          |                 |
| 1.4-Dichlorobenzene                | EPA 3520C      | 625                | .5  | 0.5 | 1                  | 7/21/00           | 8/2/00           | ND       |                 |
| Bis(2-chloroisopropyl) Ether       | EPA 3520C      | 625                | 5   | 0.4 | 1                  | 7/21/00           | 8/2/00           |          |                 |
| Hexachloroethane                   | FPA 3520C      | 625                | 5   | 0.0 | 1                  | 7/21/00           | 8/2/00           | · ND     |                 |
| N-Nitrosodi-n-propylamine          | EPA 3520C      | 625                | 5   | 0.5 | 1                  | 7/21/00           | 8/2/00           |          |                 |
| Nitrobenzene                       | EPA 3520C      | 625                | 5   | 0.7 | 1                  | 7/21/00           | 8/2/00           |          |                 |
| Isonhorone                         | EPA 3520C      | 625                | 2   | 0.8 | 1                  | 7/21/00           | 8/2/00           | ND<br>ND |                 |
| 2-Nitrophenol                      | EDA 3520C      | 625                | 5   | 0.5 | 1                  | //21/00           | 8/2/00           | ND       |                 |
| 2 4-Dimethylphenol                 | EPA 3520C      | 625                | 2   | 0.8 | 1                  | 7/21/00           | 8/2/00           | ND       |                 |
| Bis(2-chloroethoxy)methane         | EFA 3520C      | 023                | 2   | 2   | 1                  | 7/21/00           | 8/2/00           | ND       |                 |
| 2 4-Dichlorophenol                 | EFA 3520C      | 025                | 2   | 0.8 | 1                  | 7/21/00           | 8/2/00           | ND       |                 |
| 1.2.4-Dichlorophenor               | EFA 3320C      | 625                | 2   | 0.9 | 1                  | 7/21/00           | 8/2/00           | ND       |                 |
| Naphthalene                        | EFA 33200      | 625                | 2   | 0.6 | 1                  | 7/21/00           | 8/2/00           | ND       |                 |
| Heyschlorobutadiene                | EFA 3520C      | 625                | 2   | 0.7 | 1                  | 7/21/00           | 8/2/00           | ND       |                 |
| 4. Chloro 3 methylphonol           | EPA 3520C      | 625                | 5   | 0.7 | I                  | 7/21/00           | 8/2/00           | ND       |                 |
| 2.4.6 Trichlorophenol              | EPA 35200      | 625                | 5   | 0.8 | 1                  | 7/21/00           | 8/2/00           | ND       |                 |
| 2.4 0-memorophenor                 | EPA 3520C      | 625                | 2   | 0.7 | 1                  | 7/21/00           | 8/2/00           | ND       |                 |
| honaphinaiche                      | EPA 35200      | 625                | 2   | 0.6 | 1                  | 7/21/00           | 8/2/00           | ND       |                 |
| Dimethyl Phthelete                 | EPA 3520C      | 625                | 5   | 0.6 | 1                  | 7/21/00           | 8/2/00           | ND       |                 |
| Aconomhthana                       | EPA 35200      | 625                | 2   | 0.9 | 1                  | 7/21/00           | 8/2/00           | ND       |                 |
| 2 4 Dinitrophonol                  | EPA 3520C      | 625                | 5   | 0.8 | 1                  | 7/21/00           | 8/2/00           | ND       |                 |
| 4 Nitranhanal                      | EPA 3520C      | 625                | 20  | 6   | 1                  | 7/21/00           | 8/2/00           | ND       |                 |
| This area                          | EPA 3520C      | 625                | 20  | 2   | 1                  | 7/21/00           | 8/2/00           | ND       |                 |
| A Obligged and Diversity Diversity | EPA 3520C      | 625                | 5   | 0.9 | 1                  | 7/21/00           | 8/2/00           | ND       |                 |
| 4-Chlorophenyi Phenyi Ether        | EPA 3520C      | 625                | 5   | 0.8 | 1                  | 7/21/00           | 8/2/00           | ND       |                 |
| Dietnyi Phinalate                  | EPA 3520C      | 625                | 5   | 1   | 1                  | 7/21/00           | 8/2/00           | ND       |                 |
| 2-Methyl-4,0-dinitrophenol         | EPA 3520C      | 625                | 20  | 2   | 1                  | 7/21/00           | 8/2/00           | ND       |                 |
| 4-Bromophenyl Phenyl Ether         | EPA 3520C      | 625                | 5   | 0.8 | 1                  | 7/21/00           | 8/2/00           | ND       |                 |
| Piexachiorobenzene                 | EPA 3520C      | 625                | 5   | 1   | 1                  | 7/21/00           | 8/2/00           | ND       |                 |
| Pentachiorophenol (PCP)            | EPA 3520C      | 625                | 20  | 2   | 1                  | 7/21/00           | 8/2/00           | ND       |                 |
| Phenanthrene                       | EPA 3520C      | 625                | 5   | 0.7 | 1                  | 7/21/00           | 8/2/00           | ND       |                 |
| Anthracene                         | EPA 3520C      | 625                | 5   | 0.8 | 1                  | 7/21/00           | 8/2/00           | ND       |                 |
| Di-n-butyl Phthalate               | EPA 3520C      | 625                | 5   | 2   | 1                  | 7/21/00           | 8/2/00           | ND       |                 |
| Fluoranthene                       | EPA 3520C      | 625                | 5   | 2   | 1                  | 7/21/00           | 8/2/00           | ND       |                 |
| Pyrene                             | EPA 3520C      | 625                | 5   | 2   | 1                  | 7/21/00           | 8/2/00           | ND       |                 |
| Butyl Benzyl Phthalate             | EPA 3520C      | 625                | 5   | 2   | 1                  | 7/21/00           | 8/2/00           | ND       |                 |
| 3,3'-Dichlorobenzidine             | EPA 3520C      | 625                | 10  | 0.7 | 1                  | 7/21/00           | 8/2/00           | ND       |                 |
| Benz(a)anthracene                  | EPA 3520C      | 625                | 5   | 0.7 | 1                  | 7/21/00           | 8/2/00           | ND       |                 |
| Chrysene                           | EPA 3520C      | 625                | 5   | 0.5 | 1                  | 7/21/00           | 8/2/00           | ND       |                 |

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Date:

Approved By: 053155VM.AY1 - 148/17/00

AUG 18 2000 Page No.: 00025

Analytical Report

Client: Project: Sample Matrix: Pacific Gas and Electric Company Diablo Canyon NPDES Water

001 Intake Composite K2005315-014 Service Request: K2005315 Date Collected: 7/19/00 Date Received: 7/20/00

Units: ug/L (ppb)

Basis: NA

#### Base Neutral/Acid Semivolatile Organic Compounds

Sample Name: Lab Code: Test Notes:

Dilution Date Date Result Prep Analysis Method MRL MDL Factor Extracted Analyzed Result Notes Analyte Method ND 625 5 0.6 1 7/21/00 8/2/00 Di-n-octyl Phthalate EPA 3520C Benzo(b)fluoranthene EPA 3520C 625 5 5 5 5 5 5 5 5 5 0.8 1 7/21/00 8/2/00 ND Benzo(k)fluoranthene EPA 3520C 625 0.6 1 7/21/00 8/2/00 ND Benzo(a)pyrene EPA 3520C 625 0.7 1 7/21/00 8/2/00 ND ND Indeno(1,2,3-cd)pyrene 625 2 7/21/00 8/2/00 EPA 3520C 1 2 8/2/00 ND 625 7/21/00 Dibenz(a,h)anthracene EPA 3520C 1 EPA 3520C 625 2 1 7/21/00 8/2/00 ND Benzo(g,h,i)perylene Benzidine EPA 3520C 625 50 30 1 7/21/00 8/2/00 ND 625 5 5 7/21/00 8/2/00 ND Bis(2-ethylhexyl)Phthalate EPA 3520C 1 5 ND 2-Methylnaphthalene EPA 3520C 625 0.9 1 7/21/00 8/2/00 ND Azobenzene EPA 3520C 625 10 0.8 1 7/21/00 8/2/00 ND 10 8/2/00 625 0.5 7/21/00 Hexachlorocyclopentadiene EPA 3520C 1 10 7/21/00 8/2/00 ND N-Nitrosodimethylamine EPA 3520C 625 0.6 1 N-Nitrosodiphenylamine 625 5 7/21/00 8/2/00 ND EPA 3520C 1 1 5 7/21/00 8/2/00 ND Bis(chloromethyl)ether \* EPA 3520C 625 -1

Searched as a tentatively-identified compound.

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Approved By: \_\_\_\_\_\_

05315SVM.AY1 - 14 8/18/00

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00026 Page No.

Analytical Report

Client: Project: Sample Matrix:

Pacific Gas and Electric Company Diablo Canyon NPDES Water

Service Request: K2005315 Date Collected: 7/19/00 Date Received: 7/20/00

#### Base Neutral/Acid Semivolatile Organic Compounds

Sample Name: Lab Code: Test Notes:

001 Discharge Composite K2005315-023

Units: ug/L (ppb) Basis: NA

| Analyte                      | Prep<br>Method | Analysis<br>Method | MRL      | MDL         | Dilution<br>Factor | Date<br>Extracted | Date<br>Analyzed | Result   | Result<br>Notes |
|------------------------------|----------------|--------------------|----------|-------------|--------------------|-------------------|------------------|----------|-----------------|
| Bis(2-chloroethyl) Ether     | EPA 3520C      | 62.5               | 5        | 0.5         | 1                  | 7/21/00           | e /0 /00         |          |                 |
| Phenol                       | EPA 3520C      | 625                | 5        | 0.5         | 1                  | 7/21/00           | 8/2/00<br>8/2/00 |          |                 |
| 2-Chlorophenol               | EPA 3520C      | 625                | 5        | 0.7         | 1                  | 7/21/00           | 8/2/00           |          |                 |
| 1,3-Dichlorobenzene          | EPA 3520C      | 625                | 5        | 0.7         | 1                  | 7/21/00           | 8/2/00           | ND       |                 |
| 1,2-Dichlorobenzene          | EPA 3520C      | 625                | 5        | 0.5         | 1                  | 7/21/00           | 8/2/00           | ND       |                 |
| 1,4-Dichlorobenzene          | EPA 3520C      | 625                | 5        | 0.5         | 1                  | 7/21/00           | 8/2/00           |          |                 |
| Bis(2-chloroisopropyl) Ether | EPA 3520C      | 625                | 5        | 0.4         | 1                  | 7/21/00           | 8/2/00           | ND       |                 |
| Hexachloroethane             | EPA 3520C      | 625                | 5        | 0.6         | · 1<br>1           | 7/21/00           | 8/2/00           | ND       |                 |
| N-Nitrosodi-n-propylamine    | EPA 3520C      | 625                | 5        | 0.5         | 1                  | //21/00           | 8/2/00           | ND       |                 |
| Nitrobenzene                 | EPA 3520C      | 625                | 2        | 0.7         | 1                  | //21/00           | 8/2/00           | ND       |                 |
| Isophorone                   | EPA 3520C      | 625                | 5        | 0.8         | 1                  | 7/21/00           | 8/2/00           | ND       |                 |
| 2-Nitrophenol                | ETA 35200      | 023                | 2        | 0.5         | 1                  | 7/21/00           | 8/2/00           | ND       |                 |
| 2 4-Dimethylphenol           | ETA 35200      | 025                | 2        | 0.8         | 1                  | 7/21/00           | 8/2/00           | ND       |                 |
| Bis(2-chloroethoyy)methane   | EFA 35200      | 025                | 2        | 2           | 1                  | 7/21/00           | 8/2/00           | ND       |                 |
| 2 4-Dichlorophenal           | EPA 35200      | 625                | . 5      | 0.8         | 1                  | 7/21/00           | <b>8/2/</b> 00   | ND       |                 |
| 1.2.4-Trichlorobenzene       | EPA 35200      | 625                | 5        | 0.9         | 1                  | 7/21/00           | 8/2/00           | ND       |                 |
| Naphthalana                  | EPA 3520C      | 625                | 5        | 0.6         | 1                  | 7/21/00           | 8/2/00           | ND       |                 |
| Heynohlorohutadiana          | EPA 3520C      | 625                | 5        | 0.7         | 1                  | 7/21/00           | 8/2/00           | ND       |                 |
| A Chlore 2 methylahoural     | EPA 3520C      | 625                | 5        | 0.7         | 1                  | 7/21/00           | 8/2/00           | ND       |                 |
| 2.4.6 Trichlesenhaud         | EPA 3520C      | 625                | 5        | 0.8         | 1                  | 7/21/00           | 8/2/00           | ND       |                 |
| 2.4.0-Inchiorophenol         | EPA 3520C      | 625                | 5        | 0.7         | 1                  | 7/21/00           | 8/2/00           | ND       |                 |
| oronaphinaiene               | EPA 3520C      | 625                | 5        | 0.6         | 1                  | 7/21/00           | 8/2/00           | ND       |                 |
| aphinylene                   | EPA 3520C      | 625                | 5        | 0.6         | 1                  | 7/21/00           | 8/2/00           | ND       |                 |
| Dimethyl Phthalate           | EPA 3520C      | 625                | 5        | 0.9         | 1                  | 7/21/00           | 8/2/00           | ND       |                 |
| Acenaphthene                 | EPA 3520C      | 625                | 5        | 0.8         | 1                  | 7/21/00           | 8/2/00           | ND       |                 |
| 2,4-Dinitrophenol            | EPA 3520C      | 625                | 20       | 6           | 1                  | 7/21/00           | 8/2/00           | ND       |                 |
| 4-Nitrophenol                | EPA 3520C      | 625                | 20       | 2           | 1                  | 7/21/00           | 8/2/00           | ND       |                 |
| Fluorene                     | EPA 3520C      | 625                | 5        | 0.9         | 1                  | 7/21/00           | 8/2/00           | NTD      |                 |
| 4-Chlorophenyl Phenyl Ether  | EPA 3520C      | 625                | 5        | 0.8         | 1                  | 7/21/00           | 8/2/00           | ND       |                 |
| Diethyl Phihalate            | EPA 3520C      | 625                | 5        | 1           | 1                  | 7/21/00           | 8/2/00           | ND       |                 |
| 2-Methyl-4,6-dinitrophenol   | EPA 3520C      | 625                | 20       | 2           | ĩ                  | 7/21/00           | 8/2/00           |          |                 |
| 4-Bromophenyl Phenyl Ether   | EPA 3520C      | 625                | 5        | 0.8         | 1                  | 7/21/00           | 8/2/00           |          |                 |
| Hexachlorobenzene            | EPA 3520C      | 625                | 5        | 1           | ī                  | 7/21/00           | 8/2/00           |          |                 |
| Pentachlorophenol (PCP)      | EPA 3520C      | 625                | 20       | 2           | 1                  | 7/21/00           | 8/2/00           |          |                 |
| Phenanthrene                 | EPA 3520C      | 625                | 5        | 07          | 1                  | 7/21/00           | 8/2/00           |          |                 |
| Anthracene                   | EPA 3520C      | 625                | 5        | 0.8         | 1                  | 7/21/00           | 8/2/00           |          |                 |
| Di-n-butyl Phthalate         | EPA 3520C      | 625                | 5        | 2           | 1                  | 7/21/00           | 8/2/00           |          |                 |
| Fluoranthene                 | EPA 3520C      | 625                | 5        | 2           | 1                  | 7/21/00           | 8/2/00           |          |                 |
| Pyrene                       | EPA 3520C      | 625                | 5        | 2           | 1                  | 7/21/00           | 8/2/00           |          |                 |
| Butyl Benzyl Phthalate       | EPA 3520C      | 625                | 5        | 2           | 1                  | 7/21/00           | 8/2/00           |          |                 |
| 3,3'-Dichlorobenzidine       | EPA 3520C      | 625                | 10       | 07          | 1                  | 7/21/00           | 8/2/00           | ND<br>ND |                 |
| Benz(a)anthracene            | EPA 3520C      | 625                | 5        | 0.7         | 1                  | 7/21/00           | 8/2/00           | ND       |                 |
| Chrysene                     | EPA 3520C      | 625                | ر .<br>ح | 0.7         | 1                  | //21/00           | 8/2/00           | ND       |                 |
| J                            |                | 020                | 2        | U. <b>D</b> | i                  | 7/21/00           | 8/2/00           | ND       |                 |

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#### Analytical Report

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Client: Project: Comple Matrix: Service Request: K2005315 Date Collected: 7/19/00 Date Received: 7/20/00

Units: ug/L (ppb)

Basis: NA

#### Base Neutral/Acid Semivolatile Organic Compounds

Sample Name: Lab Code: Test Notes: 001 Discharge Composite K2005315-023

Diablo Canyon NPDES

Water

Pacific Gas and Electric Company

| Analyte                    | Prep<br>Method | Analysis<br>Method | MRL | MDL | Dilution<br>Factor | Date<br>Extracted | Date<br>Analyzed | Result | Result<br>Notes |
|----------------------------|----------------|--------------------|-----|-----|--------------------|-------------------|------------------|--------|-----------------|
| Di-n-octyl Phthalate       | EPA 3520C      | 625                | 5   | 0.6 | 1                  | 7/21/00           | 8/2/00           | ND     |                 |
| Benzo(b)fluoranthene       | EPA 3520C      | 625                | 5   | 0.8 | 1                  | 7/21/00           | 8/2/00           | ND     |                 |
| Benzo(k)fluoranthene       | EPA 3520C      | 625                | 5   | 0.6 | 1                  | 7/21/00           | 8/2/00           | ND.    |                 |
| Benzo(a)pyrene             | EPA 3520C      | 625                | 5   | 0.7 | 1                  | 7/21/00           | 8/2/00           | ND     |                 |
| Indeno(1,2,3-cd)pyrene     | EPA 3520C      | 625                | 5   | 2   | 1                  | 7/21/00           | 8/2/00           | ND     |                 |
| Dibenz(a,h)anthracene      | EPA 3520C      | 625                | 5   | 2   | 1                  | 7/21/00           | 8/2/00           | ND     |                 |
| Benzo(g,h,i)perylene       | EPA 3520C      | 625                | 5   | 2   | 1                  | 7/21/00           | 8/2/00           | ND     |                 |
| Benzidine                  | EPA 3520C      | 625                | 50  | 30  | 1                  | 7/21/00           | 8/2/00           | ND     |                 |
| Bis(2-ethylhexyl)Phthalate | EPA 3520C      | 625                | 5   | 5   | 1                  | 7/21/00           | 8/2/00           | ND     |                 |
| 2-Methylnaphthalene        | EPA 3520C      | 625                | 5   | 0.9 | 1                  | 7/21/00           | 8/2/00           | ND     |                 |
| Azobenzene                 | EPA 3520C      | 625                | 10  | 0.8 | 1                  | 7/21/00           | 8/2/00           | ND     |                 |
| Hexachlorocyclopentadiene  | EPA 3520C      | 625                | 10  | 0.5 | 1                  | 7/21/00           | 8/2/00           | ND     |                 |
| N-Nitrosodimethylamine     | EPA 3520C      | 625                | 10  | 0.6 | 1                  | 7/21/00           | 8/2/00           | ND     |                 |
| N-Nitrosodiphenylamine     | EPA 3520C      | 625                | 5   | 1   | 1                  | 7/21/00           | 8/2/00           | ND     |                 |
| Bis(chloromethyl)ether *   | EPA 3520C      | 625                | 5   | -   | 1                  | 7/21/00           | 8/2/00           | ND     |                 |

Searched as a tentatively-identified compound.

Approved By:

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Date: AUG 1 8 2000

00028 Page No.:

053155VM.AY1 - 23 8/18/00

1S2P/050897p

Analytical Report

Client: Project: Sample Matrix: Pacific Gas and Electric Company Diablo Canyon NPDES Water

Method Blank

KWG2002803-10

Service Request: K2005315 Date Collected: NA Date Received: NA

Units: ug/L (ppb)

Basis: NA

#### Base Neutral/Acid Semivolatile Organic Compounds

Sample Name: Lab Code: Test Notes:

Prep Analysis Dilution Date Date Result Analyte Method Method MRL MDL Factor Extracted Analyzed Result Notes Bis(2-chloroethyl) Ether EPA 3520C 625 5 0.5 1 7/21/00 8/1/00 ND Phenol EPA 3520C 625 5 0.5 1 7/21/00 8/1/00 ND 2-Chlorophenol 5 5 EPA 3520C 625 0.7 1 7/21/00 8/1/00 ND 1.3-Dichlorobenzene EPA 3520C 625 0.3 1 7/21/00 8/1/00 ND 1,2-Dichlorobenzene 5 EPA 3520C 625 0.3 1 7/21/00 8/1/00 ND 1.4-Dichlorobenzene 5 EPA 3520C 625 0.4 1 7/21/00 8/1/00 ND Bis(2-chloroisopropyl) Ether EPA 3520C 625 5 0.8 1 7/21/00 8/1/00 ND Hexachloroethane EPA 3520C 625 5 0.5 1 7/21/00 8/1/00 ND N-Nitrosodi-n-propylamine EPA 3520C 625 5 0.7 1 7/21/00 8/1/00 ND Nitrobenzene 5 EPA 3520C 625 0.8 1 7/21/00 8/1/00 ND Isophorone 5 EPA 3520C 625 0.5 1 7/21/00 8/1/00 ND 2-Nitrophenol 5 EPA 3520C 625 0.8 1 7/21/00 8/1/00 ND 2,4-Dimethylphenol EPA 3520C 5 625 2 1 7/21/00 8/1/00 ND Bis(2-chloroethoxy)methane EPA 3520C 625 5 0.8 7/21/00 8/1/00 ND 1 2,4-Dichlorophenol EPA 3520C 5 5 5 625 0.9 1 7/21/00 8/1/00 ND 1,2,4-Trichlorobenzene EPA 3520C 625 0.6 1 7/21/00 8/1/00 ND Naphthalene EPA 3520C 625 0.7 7/21/00 8/1/00 ND 1 Hexachlorobutadiene 5 EPA 3520C 625 0.7 1 7/21/00 8/1/00 ND 4-Chloro-3-methylphenol EPA 3520C 625 5 0.8 7/21/00 8/1/00 1 ND 2 4.6-Trichlorophenol EPA 3520C 625 5 0.7 7/21/00 8/1/00 ND 1 5 'oronaphthalene EPA 3520C 625 0.6 1 7/21/00 8/1/00 ND aphthylene 5 EPA 3520C 625 0.6 7/21/00 8/1/00 1 ND Dimethyl Phthalate 5 EPA 3520C 625 0.9 1 7/21/00 8/1/00 ND Acenaphthene 5 EPA 3520C 625 0.8 1 7/21/00 8/1/00 ND 2,4-Dinitrophenol EPA 3520C 625 20 6 1 7/21/00 8/1/00 ND 4-Nitrophenol EPA 3520C 625 20 2 1 7/21/00 8/1/00 ND Fluorene EPA 3520C 625 5 0.9 1 7/21/00 8/1/00 ND 5 4-Chlorophenyl Phenyl Ether EPA 3520C 625 0.8 1 7/21/00 8/1/00 ND Diethyl Phthalate EPA 3520C 625 5 1 1 7/21/00 8/1/00 ND 2-Methyl-4,6-dinitrophenol EPA 3520C 625 20 2 1 7/21/00 8/1/00 ND 4-Bromophenyl Phenyl Ether EPA 3520C 625 5 0.8 7/21/00 8/1/00 1 ND Hexachlorobenzene EPA 3520C 625 5 7/21/00 8/1/00 1 1 ND Pentachlorophenol (PCP) EPA 3520C 625 20 2 1 7/21/00 8/1/00 ND Phenanthrene EPA 3520C 625 5 0.7 1 7/21/00 8/1/00 ND Anthracene EPA 3520C 625 5 0.8 1 7/21/00 8/1/00 ND Di-n-butyl Phthalate EPA 3520C 625 5 2 8/1/00 1 7/21/00 ND Fluoranthene EPA 3520C 5 625 2 1 7/21/00 8/1/00 ND Pyrene EPA 3520C 625 5 2 7/21/00 8/1/00 1 ND Butyl Benzyl Phthalate EPA 3520C 625 5 2 1 7/21/00 8/1/00 ND 3,3'-Dichlorobenzidine EPA 3520C 625 10 0.7 7/21/00 8/1/00 1 ND Benz(a)anthracene EPA 3520C 625 5 0.7 1 7/21/00 8/1/00 ND Chrysene 5 EPA 3520C 625 0.5 1 7/21/00 8/1/00 ND

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Approved By: 053155VM.AYI - MB 8/17/00 AUG 1 8 2000

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#### Analytical Report

Client: Project: Sample Matrix: Pacific Gas and Electric Company Diablo Canyon NPDES Water Service Request: K2005315 Date Collected: NA Date Received: NA

Units: ug/L (ppb)

Basis: NA

#### Base Neutral/Acid Semivolatile Organic Compounds

| Sample Name: | Method Blank  |
|--------------|---------------|
| Lab Code:    | KWG2002803-10 |
| Test Notes:  |               |

| Analyte                    | Prep<br>Method | Analysis<br>Method | MRL | MDL | Dilution<br>Factor | Date<br>Extracted | Date<br>Analyzed | Result | Result<br>Notes |
|----------------------------|----------------|--------------------|-----|-----|--------------------|-------------------|------------------|--------|-----------------|
| Di-n-octyl Phthalate       | EPA 3520C      | 625                | 5   | 0.6 | 1                  | 7/21/00           | 8/1/00           | ND     |                 |
| Benzo(b)fluoranthene       | EPA 3520C      | 625                | 5   | 0.8 | 1                  | 7/21/00           | 8/1/00           | ND     |                 |
| Benzo(k)fluoranthene       | EPA 3520C      | 625                | 5   | 0.6 | 1                  | 7/21/00           | 8/1/00           | ND     |                 |
| Benzo(a)pyrene             | EPA 3520C      | 625                | 5   | 0.7 | 1                  | 7/21/00           | 8/1/00           | ND     |                 |
| Indeno(1,2,3-cd)pyrene     | EPA 3520C      | 625                | 5   | 2   | 1                  | 7/21/00           | 8/1/00           | ND     |                 |
| Dibenz(a,h)anthracene      | EPA 3520C      | 625                | 5   | 2   | 1                  | 7/21/00           | 8/1/00           | ND     |                 |
| Benzo(g,h,i)perylene       | EPA 3520C      | 625                | 5   | 2   | 1                  | 7/21/00           | 8/1/00           | ND     |                 |
| Benzidine                  | EPA 3520C      | 625                | 50  | 30  | 1                  | 7/21/00           | 8/1/00           | ND     |                 |
| Bis(2-ethylhexyl)Phthalate | EPA 3520C      | 625                | 5   | 5   | 1                  | 7/21/00           | 8/1/00           | ND     |                 |
| 2-Methylnaphthalene        | EPA 3520C      | 625                | 5   | 0.9 | 1                  | 7/21/00           | 8/1/00           | ND     |                 |
| Azobenzene                 | EPA 3520C      | 625                | 10  | 0.8 | 1                  | 7/21/00           | 8/1/00           | ND     |                 |
| Hexachlorocyclopentadiene  | EPA 3520C      | 625                | 10  | 0.5 | 1                  | 7/21/00           | 8/1/00           | ND     |                 |
| N-Nitrosodimethylamine     | EPA 3520C      | 625                | 10  | 0.6 | 1                  | 7/21/00           | 8/1/00           | ND     |                 |
| N-Nitrosodiphenylamine     | EPA 3520C      | 625                | 5   | 1   | 1                  | 7/21/00           | 8/1/00           | ND     |                 |
| Bis(chloromethyl)ether *   | EPA 3520C      | 625                | 5   | -   | 1                  | 7/21/00           | 8/1/00           | ND     |                 |

Searched as a tentatively-identified compound.

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Date: AUG 1 8 2000

Approved By: 1S2P/050897p 05315SVM.AY1 - MB 8/18/00

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00030 Page No.:

#### Analytical Report

C<sup>11</sup>ont: ct: Sample Matrix:

Pacific Gas and Electric Company Diablo Canyon NPDES Water

 Service Request:
 K2005315

 Date Collected:
 7/19/00

 Date Received:
 7/20/00

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#### **Organochlorine** Pesticides

Sample Name: Lab Code: Test Notes:

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001 Intake Composite K2005315-014

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Units: ug/L (ppb) Basis: NA

| Analyte             | Prep<br>Method | Analysis<br>Method | MRL. | Dilution<br>Factor | Date<br>Extracted | Date<br>Analyzed | Result                                  | Result<br>Notes |
|---------------------|----------------|--------------------|------|--------------------|-------------------|------------------|-----------------------------------------|-----------------|
| alpha-BHC           | EPA 3520C      | 8081A              | 0.02 | 1                  | 7/24/00           | 7/28/00          | ND                                      |                 |
| beta-BHC            | EPA 3520C      | 8081A              | 0.02 | 1                  | 7/24/00           | 7/28/00          | ND                                      |                 |
| gamma-BHC (Lindane) | EPA 3520C      | 8081A              | 0.02 | 1                  | 7/24/00           | 7/28/00          | ND                                      |                 |
| delta-BHC           | EPA 3520C      | 8081A              | 0.02 | 1                  | 7/24/00           | 7/28/00          | ND                                      |                 |
| Heptachlor          | EPA 3520C      | 8081A              | 0.02 | 1                  | 7/24/00           | 7/28/00          | ND                                      |                 |
| Aldrin              | EPA 3520C      | 8081A              | 0.02 | 1                  | 7/24/00           | 7/28/00          | ND                                      |                 |
| Heptachlor Epoxide  | EPA 3520C      | 8081A              | 0.02 | 1                  | 7/24/00           | 7/28/00          | ND                                      |                 |
| E- Ifan I           | EPA 3520C      | 8081A              | 0.02 | 1                  | 7/24/00           | 7/28/00          | ND                                      |                 |
| Da                  | EPA 3520C      | 8081A              | 0.02 | 1                  | 7/24/00           | 7/28/00          | ND                                      |                 |
| 4,4'-DDE            | EPA 3520C      | 8081A              | 0.02 | 1                  | 7/24/00           | 7/28/00          | ND                                      |                 |
| Endrin              | EPA 3520C      | 8081A              | 0.02 | 1                  | 7/24/00           | 7/28/00          | ND                                      |                 |
| Endosulfan II       | EPA 3520C      | 8081A              | 0.02 | 1                  | 7/24/00           | 7/28/00          | ND                                      |                 |
| 4,4'-DDD            | EPA 3520C      | 8081A              | 0.02 | 1                  | 7/24/00           | 7/28/00          | ND                                      |                 |
| Endrin Aldehyde     | EPA 3520C      | 8081A              | 0.02 | 1                  | 7/24/00           | 7/28/00          | ND                                      |                 |
| Endosulfan Sulfate  | EPA 3520C      | 8081A              | 0.02 | 1                  | 7/24/00           | 7/28/00          | ND                                      |                 |
| 4,4'-DDT            | EPA 3520C      | 8081A              | 0.02 | 1                  | 7/24/00           | 7/28/00          | ND                                      |                 |
| Toxaphene           | EPA 3520C      | 8081A              | 0.5  | 1                  | 7/24/00           | 7/28/00          | ND                                      |                 |
| Chlordane           | EPA 3520C      | 8081A              | 0.2  | 1                  | 7/24/00           | 7/28/00          | NTD                                     |                 |
| 2,4'-DDE            | EPA 3520C      | 8081A              | 0.02 | 1                  | 7/24/00           | 7/28/00          |                                         | •               |
| 2,4'-DDD            | EPA 3520C      | 8081A              | 0.02 | 1                  | 7/24/00           | 7/28/00          |                                         |                 |
| 2,4'-DDT            | EPA 3520C      | 8081A              | 0.02 | 1                  | 7/24/00           | 7/28/00          | ND                                      |                 |
|                     |                |                    |      |                    |                   |                  | ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ |                 |

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1S22/020597p

00031 Page No.:

Date: 8-3-0

#### Analytical Report

Client: ct: Sample Matrix:

Pacific Gas and Electric Company Diablo Canyon NPDES Water 
 Service Request:
 K2005315

 Date Collected:
 7/19/00

 Date Received:
 7/20/00

Organochlorine Pesticides

Sample Name: Lab Code: .Test Notes:

.

001 Discharge Composite K2005315-023 Units: ug/L (ppb) Basis: NA

| Analyte             | Prep<br>Method | Analysis<br>Method | MRL  | Dilution<br>Factor | Date<br>Extracted | Date<br>Analyzed | Result | Result<br>Notes |
|---------------------|----------------|--------------------|------|--------------------|-------------------|------------------|--------|-----------------|
| alpha-BHC           | EPA 3520C      | 8081A              | 0.02 | 1                  | 7/24/00           | 7/28/00          | ND     |                 |
| beta-BHC            | EPA 3520C      | 8081A              | 0.02 | 1                  | 7/24/00           | 7/28/00          | ND     |                 |
| gamma-BHC (Lindane) | EPA 3520C      | 8081A              | 0.02 | 1                  | 7/24/00           | 7/28/00          | ND     |                 |
| delta-BHC           | EPA 3520C      | 8081A              | 0.02 | 1                  | 7/24/00           | 7/28/00          | ND     |                 |
| Heptachlor          | EPA 3520C      | 8081A              | 0.02 | 1                  | 7/24/00           | 7/28/00          | ND     |                 |
| Aldrin              | EPA 3520C      | 8081A              | 0.02 | 1                  | 7/24/00           | 7/28/00          | ND     |                 |
| Heptachlor Epoxide  | EPA 3520C      | 8081A              | 0.02 | ľ                  | 7/24/00           | 7/28/00          | ND     |                 |
| Er ilfan I          | EPA 3520C      | 8081A              | 0.02 | 1                  | 7/24/00           | 7/28/00          | ND     |                 |
| D <sub>1</sub>      | EPA 3520C      | 8081A              | 0.02 | · 1                | 7/24/00           | 7/28/00          | ND     |                 |
| 4,4'-DDE            | EPA 3520C      | 8081A              | 0.02 | 1                  | 7/24/00           | 7/28/00          | ND     |                 |
| Endrin              | EPA 3520C      | 8081A              | 0.02 | 1                  | 7/24/00           | 7/28/00          | ND     |                 |
| Endosulfan II       | EPA 3520C      | 8081A              | 0.02 | 1                  | 7/24/00           | 7/28/00          | ND     |                 |
| 4,4'-DDD            | EPA 3520C      | 8081A              | 0.02 | 1                  | 7/24/00           | 7/28/00          | ND     |                 |
| Endrin Aldehyde     | EPA 3520C      | 8081A              | 0.02 | 1                  | 7/24/00           | 7/28/00          | ND     |                 |
| Endosulfan Sulfate  | EPA 3520C      | 8081A              | 0.02 | 1                  | 7/24/00           | 7/28/00          | ND     |                 |
| 4,4'-DDT -          | EPA 3520C      | 8081A              | 0.02 | · 1                | 7/24/00           | 7/28/00          | ND     |                 |
| Toxaphene           | EPA 3520C      | 8081A              | 0.5  | - 1                | 7/24/00           | 7/28/00          | ND     |                 |
| Chlordane           | EPA 3520C      | 8081A              | 0.2  | 1                  | 7/24/00           | 7/28/00          | ND     |                 |
| 2,4'-DDE            | EPA 3520C      | 8081A              | 0.02 | 1                  | 7/24/00           | 7/28/00          | ND     |                 |
| 2,4'-DDD            | EPA 3520C      | 8081A              | 0.02 | 1                  | 7/24/00           | 7/28/00          | ND     |                 |
| 2,4'-DDT            | EPA 3520C      | 8081A              | 0.02 | 1                  | 7/24/00           | 7/28/00          | ND     |                 |

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Date: <u>8-3-00</u>

05315SVG.AY2 - 23 8/2/00

00032 Page No.:

#### Analytical Report

vt: \_\_\_\_ect: Sample Matrix: Pacific Gas and Electric Company Diablo Canyon NPDES Water Service Request: K2005315 Date Collected: NA Date Received: NA

Organochlorine Pesticides

| Sample Name: | Method Blank | Units: ug/L (ppb) |
|--------------|--------------|-------------------|
| Lab Code:    | K200724-MB   | Basis: NA         |
| Test Notes:  |              |                   |

| Analyte             | Prep<br>Method | Analysis<br>Method | MRL  | Dilution<br>Factor | Date<br>Extracted | Date<br>Analyzed | Result | Result<br>Notes |
|---------------------|----------------|--------------------|------|--------------------|-------------------|------------------|--------|-----------------|
| alpha-BHC           | EPA 3520C      | 8081A              | 0.02 | 1                  | 7/24/00           | 7/28/00          | ND     |                 |
| beta-BHC            | EPA 3520C      | 8081A              | 0.02 | 1                  | 7/24/00           | 7/28/00          | ND     |                 |
| gamma-BHC (Lindane) | EPA 3520C      | 8081A              | 0.02 | 1                  | 7/24/00           | 7/28/00          | ND     |                 |
| delta-BHC           | EPA 3520C      | 8081A              | 0.02 | 1                  | 7/24/00           | 7/28/00          | ND     |                 |
| Heptachlor          | EPA 3520C      | 8081A              | 0.02 | 1                  | 7/24/00           | 7/28/00          | ND     |                 |
| Aldrin              | EPA 3520C      | 8081A              | 0.02 | 1                  | 7/24/00           | 7/28/00          | ND     |                 |
| Hertachlor Epoxide  | EPA 3520C      | 8081A              | 0.02 | 1                  | 7/24/00           | 7/28/00          | ND     |                 |
| E fan I             | EPA 3520C      | 8081A              | 0.02 | 1                  | 7/24/00           | 7/28/00          | ND     |                 |
| Dierorin            | EPA 3520C      | 8081A              | 0.02 | 1                  | 7/24/00           | 7/28/00          | ND     |                 |
| 4,4'-DDE            | EPA 3520C      | 8081A              | 0.02 | 1                  | 7/24/00           | 7/28/00          | ND     |                 |
| Endrin              | EPA 3520C      | 8081A              | 0.02 | 1                  | 7/24/00           | 7/28/00          | ND     |                 |
| Endosulfan II       | EPA 3520C      | 8081A              | 0.02 | 1                  | 7/24/00           | 7/28/00          | ND     |                 |
| 4,4'-DDD            | EPA 3520C      | 8081A              | 0.02 | 1                  | 7/24/00           | 7/28/00          | ND     |                 |
| Endrin Aldehyde     | EPA 3520C      | 8081A              | 0.02 | 1                  | 7/24/00           | 7/28/00          | ND     |                 |
| Endosulfan Sulfate  | EPA 3520C      | 8081A              | 0.02 | 1                  | 7/24/00           | 7/28/00          | ND     |                 |
| 4,4'-DDT            | EPA 3520C      | 8081A              | 0.02 | 1                  | 7/24/00           | 7/28/00          | ND     |                 |
| Toxaphene           | EPA 3520C      | 8081A              | 0.5  | 1                  | 7/24/00           | 7/28/00          | ND     |                 |
| Chlordane           | EPA 3520C      | 8081A              | 0.2  | 1                  | 7/24/00           | 7/28/00          | ND     |                 |
| 2,4'-DDE            | EPA 3520C      | 8081A              | 0.02 | 1                  | 7/24/00           | 7/28/00          | ND     |                 |
| 2,4'-DDD            | EPA 3520C      | 8081A              | 0.02 | 1                  | 7/24/00           | 7/28/00          | ND     |                 |
| 2,4'-DDT            | EPA 3520C      | 8081A              | 0.02 | 1                  | 7/24/00           | 7/28/00          | ND     |                 |

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Date: 8-3-00

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#### Analytical Report

#### Client: ct: Sample Matrix:

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Pacific Gas and Electric Company Diablo Canyon NPDES Water

 Service Request:
 K2005315

 Date Collected:
 7/19/00

 Date Received:
 7/20/00

#### Polychlorinated Biphenyls (PCBs)

.

Sample Name: Lab Code: Test Notes:

001 Intake Composite K2005315-014

Units: ug/L (ppb) Basis: NA

| Analyte      | Prep<br>Method | Analysis<br>Method | MRL | Dilution<br>Factor | Date<br>Extracted | Date<br>Analyzed | Result | Result<br>Notes |
|--------------|----------------|--------------------|-----|--------------------|-------------------|------------------|--------|-----------------|
| Aroclor 1016 | EPA 3520C      | 8082               | 0.2 | 1                  | 7/24/00           | 8/4/00           | ND     |                 |
| Aroclor 1221 | EPA 3520C      | 8082               | 0.2 | 1                  | 7/24/00           | 8/4/00           | ND     |                 |
| Aroclor 1232 | EPA 3520C      | 8082               | 0.2 | 1                  | 7/24/00           | 8/4/00           | ND     |                 |
| Aroclor 1242 | EPA 3520C      | 8082               | 0.2 | 1                  | 7/24/00           | 8/4/00           | ND     |                 |
| Aroclor 1248 | EPA 3520C      | 8082               | 0.2 | 1                  | 7/24/00           | 8/4/00           | ND     |                 |
| Aroclor 1254 | EPA 3520C      | 8082               | 0.2 | 1                  | 7/24/00           | 8/4/00           |        |                 |
| Aroclor 1260 | EPA 3520C      | 8082               | 0.2 | 1                  | 7/24/00           | 8/4/00           | ND     |                 |

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\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_.

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#### Analytical Report

#### C<sup>1:</sup>out: ct: Sample Matrix:

Pacific Gas and Electric Company Diablo Canyon NPDES Water

 Service Request:
 K2005315

 Date Collected:
 7/19/00

 Date Received:
 7/20/00

#### Polychlorinated Biphenyls (PCBs)

Sample Name: . Lab Code: Test Notes:

001 Discharge Composite K2005315-023

Units: ug/L (ppb) Basis: NA

| Analyte      | Prep<br>Method | Analysis<br>Method | MRL | Dilution<br>Factor | Date<br>Extracted | Date<br>Analyzed | Result | Result<br>Notes |
|--------------|----------------|--------------------|-----|--------------------|-------------------|------------------|--------|-----------------|
| Aroclor 1016 | EPA 3520C      | 8082               | 0.2 | 1                  | 7/24/00           | 8/4/00           | ND     |                 |
| Aroclor 1221 | EPA 3520C      | 8082               | 0.2 | 1                  | 7/24/00           | 8/4/00           | ND     |                 |
| Aroclor 1232 | EPA 3520C      | 8082               | 0.2 | 1                  | 7/24/00           | 8/4/00           | ND     |                 |
| Aroclor 1242 | EPA 3520C      | 8082               | 0.2 | 1                  | 7/24/00           | 8/4/00           | ND     |                 |
| Aroclor 1248 | EPA 3520C      | 8082               | 0.2 | . 1                | 7/24/00           | 8/4/00           | ND     |                 |
| Aroclor 1254 | EPA 3520C      | 8082               | 0.2 | - 1                | 7/24/00           | 8/4/00           |        |                 |
| Aroclor 1260 | EPA 3520C      | 8082               | 0.2 | 1                  | 7/24/00           | 8/4/00           | ND     |                 |

A: ed By: \_\_\_\_\_\_\_\_\_\_

Date: 8-9-00

05315SVG.AY3 - 23 8/9/00

00035 Page No.:

#### Analytical Report

Client: xt: Sample Matrix:

Pacific Gas and Electric Company Diablo Canyon NPDES Water

Service Request: K2005315 Date Collected: NA Date Received: NA

.

Units: ug/L (ppb)

Basis: NA

#### Polychlorinated Biphenyls (PCBs)

| Sample Name: | Method Blank |  |
|--------------|--------------|--|
| Lab Code:    | KWG2002837-7 |  |
| Test Notes:  |              |  |

| Analyte      | Prep<br>Method | Analysis<br>Method | MRL | Dilution<br>Factor | Date<br>Extracted | Date<br>Analyzed | Result | Result<br>Notes |
|--------------|----------------|--------------------|-----|--------------------|-------------------|------------------|--------|-----------------|
| Aroclor 1016 | EPA 3520C      | 8082               | 0.2 | 1                  | 7/24/00           | 8/4/00           | ND     |                 |
| Aroclor 1221 | EPA 3520C      | 8082               | 0.2 | 1                  | 7/24/00           | 8/4/00           | ND     |                 |
| Aroclor 1232 | EPA 3520C      | 8082               | 0.2 | 1                  | 7/24/00           | 8/4/00           | ND     |                 |
| Aroclor 1242 | EPA 3520C      | 8082               | 0.2 | 1                  | 7/24/00           | 8/4/00           | ND     |                 |
| Aroclor 1248 | EPA 3520C      | 8082               | 0.2 | 1                  | 7/24/00           | 8/4/00           | ND     |                 |
| Aroclor 1254 | EPA 3520C      | 8082               | 0.2 | 1                  | 7/24/00           | 8/4/00           | ND     |                 |
| Aroclor 1260 | EPA 3520C      | 8082               | 0.2 | 1                  | 7/24/00           | 8/4/00           | ND     |                 |

A ed By: <u>VN</u> 16220020597p

\_\_\_\_\_Date: <u>8-9-00</u>

05315SVG.AY3 - MB 8/9/00

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#### Analytical Report

Client: ct: Sample Matrix:

Pacific Gas and Electric Company Diablo Canyon NPDES Water

Service Request: K2005315 Date Collected: 7/19/00 Date Received: 7/20/00

#### Butyltins

Sample Name: Lab Code: Test Notes:

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001 Intake Composite K2005315-014

Units: ug/L (ppb) Basis: NA

O O O Page No.:

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| Analyte               | Prep<br>Method | Analysis<br>Method | MRL  | Dilution<br>Factor | Date<br>Extracted | Date<br>Analyzed | Result | Result<br>Notes |
|-----------------------|----------------|--------------------|------|--------------------|-------------------|------------------|--------|-----------------|
| Tetra-n-butyltin      | EPA 3520C      | Krone              | 0.05 | 1                  | 7/25/00           | 7/28/00          | ND     |                 |
| Tri-n-butyltin Cation | EPA 3520C      | Krone              | 0.02 | 1                  | 7/25/00           | 7/28/00          | ND     |                 |
| Di-n-butyltin Cation  | EPA 3520C      | Krone              | 0.05 | 1                  | 7/25/00           | 7/28/00          | ND     |                 |
| n-Butyltin Cation     | EPA 3520C      | Krone              | 0.05 | 1                  | 7/25/00           | 7/28/00          | ND     |                 |

ed By: 15220 ng7p

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\_ Date: \_ 8-3-0

05315SVG.AYI - 14 8/2/00

Analytical Report

C"ont: ect: Sample Matrix:

Pacific Gas and Electric Company Diablo Canyon NPDES Water

 Service Request:
 K2005315

 Date Collected:
 7/19/00

 Date Received:
 7/20/00

#### Butyltins

Sample Name: Lab Code: Test Notes:

001 Discharge Composite K2005315-023

Units: ug/L (ppb) Basis: NA

| Analyte               | Prep<br>Method | Analysis<br>Method | MRL  | Dilution<br>Factor | Date<br>Extracted | Date<br>Analyzed | Result | Result<br>Notes |
|-----------------------|----------------|--------------------|------|--------------------|-------------------|------------------|--------|-----------------|
| Tetra-n-butyltin      | EPA 3520C      | Krone              | 0.05 | 1                  | 7/25/00           | 7/28/00          | ND     |                 |
| Tri-n-butyltin Cation | EPA 3520C      | Krone              | 0.02 | 1                  | 7/25/00           | 7/28/00          | ND     |                 |
| Di-n-butyltin Cation  | EPA 3520C      | Krone              | 0.05 | 1                  | 7/25/00           | 7/28/00          | ND     |                 |
| n-Butyltin Cation     | EPA 3520C      | Krone              | 0.05 | 1                  | 7/25/00           | 7/28/00          | ND     |                 |

\_Date: 8-3-00

Analytical Report

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Pacific Gas and Electric Company Diablo Canyon NPDES Water Service Request: K2005315 Date Collected: NA Date Received: NA

Butyltins

Sample Name: Lab Code: Test Notes:

Method Blank KWG2002851-4 Units: ug/L (ppb) Basis: NA

| Analyte               | Prep<br>Method | Analysis<br>Method | MRL  | Dilution<br>Factor | Date<br>Extracted | Date<br>Analyzed | Result | Result<br>Notes |
|-----------------------|----------------|--------------------|------|--------------------|-------------------|------------------|--------|-----------------|
| Tetra-n-butyltin      | EPA 3520C      | Krone              | 0.05 | 1                  | 7/25/00           | 7/28/00          | ND     |                 |
| Tri-n-butyltin Cation | EPA 3520C      | Krone              | 0.02 | 1                  | 7/25/00           | 7/28/00          | ND     |                 |
| Di-n-butyltin Cation  | EPA 3520C      | Krone              | 0.05 | 1                  | 7/25/00           | 7/28/00          | ND     |                 |
| n-Butyltin Cation     | EPA 3520C      | Krone              | 0.05 | 1                  | 7/25/00           | 7/28/00          | ND     |                 |

ed By:  $\sqrt{}$ 1S22/020597p

05315SVG.AY1 - MB 8/2/00

Page No.: 00039

Date: 8-3-00

#### APPENDIX A QA/QC RESULTS

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#### QA/QC Report

Client:Pacific Gas and Electric Companyroject:Diablo Canyon NPDESSample Matrix:Water

## Service Request: K2005315 Date Collected: 7/19/00 Date Received: 7/20/00 Date Extracted: NA

#### Duplicate Summary Inorganic Parameters Units: mg/L (ppm)

Sample Name:001 Intake CompositeLab Code:K2005315-014DUP

|                                 |        |      |           | Duplicate |         | Relative   |
|---------------------------------|--------|------|-----------|-----------|---------|------------|
|                                 | EPA    |      | Sample    | Sample    |         | Percent    |
| Analyte                         | Method | MRL  | Result    | Result    | Average | Difference |
| Ammonia as Nitrogen             | 350.1  | 0.05 | ND        | ND        | ND      | -          |
| Biochemical Oxygen Demand (BOD) | 405.1  | 4    | ND        | ND        | ND      | -          |
| Chemical Oxygen Demand (COD)    | 410.2  | 5    | 449       | 425       | 437     | 5          |
| Bromide                         | 300.0  | 0.2  | 81.4      | 80.1      | 80.8    | 2          |
| Chlorine, Residual              | 330.4  | 0.1  | ND (L1)   | ND        | ND      | -          |
| Color                           | 110.2  | 20   | ND (L2)   | ND        | ND      | -          |
| Cyanide, Total                  | 335.2  | 0.01 | ND        | ND        | ND      | -          |
| Fluoride                        | 340.2  | 0.2  | 1.0       | 1.0       | 1.0     | < 1        |
| Fluoride                        | 300.0  | 10   | ND        | ND        | ND      | -          |
| trate+Nitrite as Nitrogen       | 353.2  | 0.2  | 0.3       | 0.3       | 0.3     | < 1        |
| -√itrogen, Total Kjeldahl (TKN) | 351.4  | 0.1  | 0.1       | 0.2       | 0.2     | 50         |
| Phenolics, Total                | 420.1  | 0.01 | ND        | ND        | ND      | -          |
| Phosphorus, Total               | 365.3  | 0.01 | 0.06 (L1) | 0.06      | 0.06    | < 1        |
| Solids, Total Suspended (TSS)   | 160.2  | 5    | 8 (L)     | ND        | NC      | NC         |
| Sulfate                         | 300.0  | 0.2  | 2540      | 2550      | 2540    | < 1        |
| Sulfide                         | 376.1  | 1    | ND        | ND        | ND      | -          |
| Sulfite                         | 377.1  | 2    | ND        | ND        | ND      | -          |
| Carbon, Total Organic (TOC)     | 415.1  | 0.5  | 0.9       | 0.9       | 0.9     | < 1        |
| Methylene Blue Active Substance | 425.1  | 0.05 | ND (L1)   | ND        | ND      | -          |

L1 L2 Duplicate analysis was performed on Sample 002 Discharge; Lab Code K2005315-001DUP. Duplicate analysis was performed on Sample 003 Discharge; Lab Code K2005315-002DUP.

Approved By:

DUP1SEPA/102194 05315WET.L11 - MixedDup 8/23/00 Date: 8173100

Page No.: 00041

#### QA/QC Report

| Tlient:        | Pacific Gas and Electric Company |
|----------------|----------------------------------|
| _·oject:       | Diablo Canyon NPDES              |
| Sample Matrix: | Water                            |

#### Service Request: K2005315 Date Collected: 7/19/00 Date Received: 7/20/00 Date Extracted: NA

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#### Matrix Spike Summary **Inorganic Parameters** Units: mg/L (ppm)

| Sample Name:<br>Lab Code: | 001 Intake Compos<br>K2005315-014MS | site          |      |                |                  |                            |                     | CAS<br>Percent                   |  |
|---------------------------|-------------------------------------|---------------|------|----------------|------------------|----------------------------|---------------------|----------------------------------|--|
| Analyte                   |                                     | EPA<br>Method | MRL  | Spike<br>Level | Sample<br>Result | Spiked<br>Sample<br>Result | Percent<br>Recovery | Recovery<br>Acceptance<br>Limits |  |
| Ammonia as Niti           | rogen                               | 350.1         | 0.05 | 2.00           | ND               | 2.05                       | 102                 | 75-125                           |  |
| Chemical Oxyger           | n Demand (COD)                      | 410.2         | 5    | 1000           | 449              | 1440                       | 99                  | 75-125                           |  |
| Bromide                   |                                     | 300.0         | 0.2  | 200            | 81.4             | 299                        | 109                 | 80-120                           |  |
| Chlorine, Residua         | al                                  | 330.4         | 0.1  | 1.8            | ND (M)           | 1.8                        | 100                 | 75-125                           |  |
| Cyanide, Total            |                                     | 335.2         | 0.01 | 0.10           | ND               | 0.09                       | 90                  | 75-125                           |  |
| Fluoride                  |                                     | 340.2         | 0.2  | 5.0            | 1.0              | 4.8                        | 76                  | 75-125                           |  |
| Fluoride                  |                                     | 300.0         | 10   | 200            | ND               | 220                        | 110                 | 75-125                           |  |
| rate+Nitrite as           | s Nitrogen                          | 353.2         | 0.2  | 2.0            | 0.3              | 2.3                        | 100                 | 75-125                           |  |
| -trogen, Total K          | Ljeldahl (TKN)                      | 351.4         | 0.1  | 20.0           | 0.1              | 23.3                       | 116                 | 75-125                           |  |
| Phenolics, Total          |                                     | 420.1         | 0.01 | 0.40           | ND               | 0.41                       | 102                 | 75-125                           |  |
| Phosphorus. Tota          | 1                                   | 365.3         | 0.01 | 1.0            | 0.06             | 0.83                       | 77                  | 75-125                           |  |
| Sulfate                   |                                     | 300.0         | 0.2  | 2000           | 2540             | 4650                       | 106                 | 80-120                           |  |
| Sulfide                   |                                     | 376.1         | 1    | 5              | ND               | 5                          | 100                 | 75-125                           |  |
| Carbon, Total Or          | ganic (TOC)                         | 415.1         | 0.5  | 25.0           | 0.9              | 25.1                       | 97                  | 85-115                           |  |
| Methylene Blue A          | Active Substance                    | 425.1         | 0.05 | 0.08           | ND (M)           | 0.09                       | 113                 | 75-125                           |  |

Μ

Matrix Spike analysis was performed on Sample 002 Discharge; Lab Code K2005315-001MS.

Page No.: 00042

22/05

Date:

#### QA/QC Report

Client:Pacific Gas and Electric CompanyProject:Diablo Canyon NPDESSample Matrix:Water

 Service Request:
 K2005315

 Date Collected:
 7/19/00

 Date Received:
 7/20/00

 Date Extracted:
 NA

Duplicate Summary Inorganic Parameters Units: mg/L (ppm)

| Sample Name: | 004 Discharge Composite |
|--------------|-------------------------|
| Lab Code:    | K2005315-024DUP         |

|                             |               |     |                  | Duplicate        |         | Relative              |
|-----------------------------|---------------|-----|------------------|------------------|---------|-----------------------|
| Analyte                     | EPA<br>Method | MRL | Sample<br>Result | Sample<br>Result | Average | Percent<br>Difference |
| Bromide                     | 300.0         | 0.2 | 80.9             | 82.4             | 81.6    | 2                     |
| Chlorine, Residual          | 330.4         | 0.1 | ND (L1)          | ND               | ND      | -                     |
| Fluoride                    | 340.2         | 0.2 | 1.0              | 1.0              | 1.0     | < 1                   |
| Fluoride                    | 300.0         | 10  | ND               | ND               | ND      | -                     |
| Nitrate+Nitrite as Nitrogen | 353.2         | 0.2 | 0.3              | 0.3              | 0.3     | < 1                   |
| Sulfate                     | 300.0         | 0.2 | 2540             | 2540             | 2540    | < 1                   |
| Sulfite                     | 377.1         | . 2 | ND (L2)          | ND               | ND      | -                     |

LI L2 Duplicate analysis was performed on Sample 001 Discharge Composite; Lab Code K2005315-023DUP. Duplicate analysis was performed on Sample 002 Discharge; Lab Code K2005315-001DUP.

Approved By:

DUP1SEPA/102194 05315WET.LJ1 - MixedDup (2) 8/23/00

Page No.:

#### QA/QC Report

### Client:Pacific Gas and Electric Companyoject:Diablo Canyon NPDESSample Matrix:Water

 Service Request:
 K2005315

 Date Collected:
 7/19/00

 Date Received:
 7/20/00

 Date Extracted:
 NA

#### Matrix Spike Summary Inorganic Parameters Units: mg/L (ppm)

| Sample Name:<br>Lab Code:<br>Analyte | 004 Discharge Con<br>K2005315-024MS | EPA<br>Method | MRL | Spike<br>Level | Sample<br>Result | Spiked<br>Sample<br>Result | Percent<br>Recovery | CAS<br>Percent<br>Recovery<br>Acceptance<br>Limits |
|--------------------------------------|-------------------------------------|---------------|-----|----------------|------------------|----------------------------|---------------------|----------------------------------------------------|
| Bromide                              |                                     | 300.0         | 0.2 | 200            | 81.0             | 299                        | 109                 | 80-120                                             |
| Chlorine, Residu                     | ıal                                 | 330.4         | 0.1 | 1.2            | ND (M)           | 1.3                        | 108                 | 75-125                                             |
| Fluoride                             |                                     | 340.2         | 0.2 | 7.5            | 1.0              | 6.8                        | 77                  | 75-125                                             |
| Fluoride                             |                                     | 300.0         | 10  | 200            | ND               | 220                        | 110                 | 75-125                                             |
| Nitrate+Nitrite a                    | s Nitrogen                          | 353.2         | 0.2 | 2.0            | 0.3              | 2.3                        | 100                 | 75-125                                             |
| Sulfate                              |                                     | 300.0         | 0.2 | 2000           | 2540             | 4690                       | 108                 | 80-120                                             |
|                                      |                                     |               |     |                |                  |                            |                     |                                                    |

М

Matrix Spike analysis was performed on Sample 001 Discharge Composite; Lab Code K2005315-023MS.

MSISEPA/102194

05315WET.LJ1 - mixedspk (2) 8/23/00

\_Date: 873/05

Page No.:

#### QA/QC Report

Client:Pacific Gas and Electric CompanyProject:Diablo Canyon NPDESSample Matrix:Water

 Service Request:
 K2005315

 Date Collected:
 7/19/00

 Date Received:
 7/20/00

 Date Extracted:
 7/24, 8/4/00

 Date Analyzed:
 7/24-8/7/00

Duplicate Summary Total Metals Units: µg/L (ppb)

Sample Name: Lab Code: 001 Intake Composite K2005315-014DUP

|          |          |     |        | Duplicate |         | Relative   |
|----------|----------|-----|--------|-----------|---------|------------|
|          | EPA      |     | Sample | Sample    |         | Percent    |
| Analyte  | Method   | MRL | Result | Result    | Average | Difference |
| Arsenic  | 200.9    | 5   | ND     | ND        | ND      | -          |
| Chromium | 200.9    | 2   | ND     | ND        | ND      | -          |
| Copper   | 200.9    | 2   | ND     | ND ·      | ND      | -          |
| Mercury  | 245.1    | 0.2 | ND     | ND        | ND      | -          |
| Nickel   | 200.9    | 3   | ND     | ND        | ND      | -          |
| Selenium | SM 3114B | 1   | ND     | ND        | ND      | -          |

Date: \_ 8/15/00

DUPISEPA/102194 05315ICP.BR1 - DUP GFAA, Se, Hg 8/15/00

Approved By: \_\_\_\_

#### QA/QC Report

| Client:        | Pacific Gas and Electric Company |
|----------------|----------------------------------|
| roject:        | Diablo Canyon NPDES              |
| Sample Matrix: | Water                            |

Service Request: K2005315 Date Collected: 7/19/00 Date Received: 7/20/00 Date Extracted: 7/24/00 Date Analyzed: 7/24/00

Duplicate Summary Total Metals Units: µg/L (ppb)

|              |                        | ГDA |
|--------------|------------------------|-----|
|              | ,                      |     |
| Lab Code:    | K2005315-024DUP        |     |
| Sample Name: | 004 Discharge Compsite | 5   |

|          |          |     |        | Duplicate |         | Relative   |
|----------|----------|-----|--------|-----------|---------|------------|
|          | EPA      |     | Sample | Sample    |         | Percent    |
| Analyte  | Method   | MRL | Result | Result    | Average | Difference |
| Selenium | SM 3114B | 1   | ND     | ND        | ND      | -          |

Date: 8/15/00

Approved By: DUPISEPA/102194 05315ICP.BR1 - DUP Se (2) 8/15/00

#### QA/QC Report

### Client:Pacific Gas and Electric CompanyProject:Diablo Canyon NPDESSample Matrix:Water

# Service Request: K2005315 Date Collected: 7/19/00 Date Received: 7/20/00 Date Extracted: 8/4/00 Date Analyzed: 8/8, 10/00

#### Duplicate Summary Total Metals Units: µg/L (ppb)

Sample Name: Lab Code: 002 Discharge K2005315-001DUP

|            |        |     |         | Duplicate |         | Relative   |
|------------|--------|-----|---------|-----------|---------|------------|
|            | EPA    |     | Sample  | Sample    |         | Percent    |
| Analyte    | Method | MRL | Result  | Result    | Average | Difference |
| Aluminum   | 200.7  | 50  | ND      | 82        | NC      | NC         |
| Antimony   | 200.8  | 1   | ND      | ND        | ND      | -          |
| Barium     | 200.7  | 5   | ND      | ND        | ND      | -          |
| Beryllium  | 200.8  | 1   | ND      | ND        | ND      | -          |
| Boron      | 200.7  | 50  | 4260    | 4250      | 4260    | <1         |
| Cadmium    | 200.8  | 1   | ND      | ND        | ND      | -          |
| Cobalt     | 200.8  | 1   | 2       | 2         | 2       | <1         |
| Iron       | 200.7  | 20  | 22      | 21        | · 22    | 5          |
| ead        | 200.8  | 1   | ND      | ND        | ND      | -          |
| Agnesium   | 200.7  | 20  | 1150000 | 1090000   | 1120000 | <1         |
| Manganese  | 200.7  | 5   | ND      | ND        | ND      | -          |
| Molvbdenum | 200.7  | 10  | ND      | ND        | ND      | -          |
| Silver     | 200.8  | 1   | ND      | ND        | ND      | -          |
| Thallium   | 200.8  | 1   | ND      | ND        | ND      | -          |
| Tin        | 200.8  | 5   | ND      | ND        | ND      | -          |
| Titanium   | 200.7  | 5   | 1760    | 1690      | 1720    | 4          |
| Zinc       | 200.7  | 10  | ND      | ND        | ND      | -          |

Date: 91000 Approved By: DUPISEPA/102194

05315ICP.BR1 - DUP ICP&MS 8/16/00

#### QA/QC Report

### Client:Pacific Gas and Electric CompanyProject:Diablo Canyon NPDESSample Matrix:Water

# Service Request: K2005315 Date Collected: 7/19/00 Date Received: 7/20/00 Date Extracted: 7/24, 8/4/00 Date Analyzed: 7/24-8/7/00

CAS

#### Matrix Spike Summary Total Metals Units: µg/L (ppb)

Sample Name: Lab Code: 001 Intake Composite K2005315-014MS

| Lab Code: | K2005315-014MS |     |                |                  | Spiked           |                     | Recovery             |
|-----------|----------------|-----|----------------|------------------|------------------|---------------------|----------------------|
| Analyte   |                | MRL | Spike<br>Level | Sample<br>Result | Sample<br>Result | Percent<br>Recovery | Acceptance<br>Limits |
| Arsenic   |                | 5   | 80             | ND               | 50               | 62 (N)              | 75-125               |
| Chromium  |                | 2   | 50             | ND               | 31               | 62 (N)              | 75-125               |
| Copper    |                | 2   | 100            | ND               | 74               | 74 (N)              | 75-125               |
| Mercury   |                | 0.2 | 1              | ND               | 1.0              | 100                 | 75-125               |
| Nickel    |                | 3   | 50             | ND               | 43               | 86                  | 75-125               |
| Selenium  |                | 1   | 20             | ND               | 17               | 85                  | 75-125               |
|           |                |     |                |                  |                  |                     |                      |

#### Approved By: \_\_\_\_

MS1S/102194 05315ICP.BR1 - Spike GFAA, Se, Hg 8/16/00

Page No.: 00048

22/02

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Date:

#### QA/QC Report

## Client:Pacific Gas and Electric CompanyProject:Diablo Canyon NPDESSample Matrix:Water

# Service Request: K2005315 Date Collected: 7/19/00 Date Received: 7/20/00 Date Extracted: 7/24/00 Date Analyzed: 7/24/00

#### Matrix Spike Summary Total Metals Units: µg/L (ppb)

| Sample Name:<br>Lab Code: | 004 Discharge Compsite<br>K2005315-024MS |     |       |        | •                |          | CAS<br>Percent         |
|---------------------------|------------------------------------------|-----|-------|--------|------------------|----------|------------------------|
|                           |                                          |     | Spike | Sample | Spiked<br>Sample | Percent  | Recovery<br>Acceptance |
| Analyte                   |                                          | MRL | Level | Result | Result           | Recovery | Limits                 |
| Selenium                  |                                          | . 1 | 20    | ND     | 17               | 85       | 75-125                 |

\_Date: 3/15/00

#### QA/QC Report

## Client:Pacific Gas and Electric CompanyProject:Diablo Canyon NPDESSample Matrix:Water

# Service Request: K2005315 Date Collected: 7/19/00 Date Received: 7/20/00 Date Extracted: 8/4/00 Date Analyzed: 8/8, 10/00

#### Matrix Spike Summary Total Metals Units: µg/L (ppb)

CAS 002 Discharge Sample Name: Percent Lab Code: K2005315-001MS Spiked Recovery Sample Acceptance Spike Sample Percent MRL Level Result Result Limits Recovery Analyte Aluminum 50 2000 ND 1900 95 75-125 1000 ND 102 75-125 1020 1 Antimony 5 2000 ND 1590 80 75-125 Barium 948 95 75-125 1 1000 ND Beryllium 50 400 4260 4630 82 (#) 75-125 Boron 1 1000 ND 934 93 75-125 Cadmium 950 95 75-125 1 1000 2 Cobalt 77 75-125 20 1000 22 788 -iron 1 1000 ND 880 88 75-125 Lead Manganese 5 500 ND 419 84 75-125 10 400 ND 332 83 75-125 Molybdenum 75-125 1 1000 ND 898 90 Silver 896 90 75-125 1 1000 ND Thallium 5 1000 ND 1050 105 75-125 Tin 87 75-125 10 500 ND 434 Zinc

Approved By: MS15/102194 05315ICP.BR1 - Spike ICP&MS 8/16/00

00050 Page No.:

Date:

#### QA/QC Report

| Client:        | Pacific Gas and Electric Company |  |
|----------------|----------------------------------|--|
| Project:       | Diablo Canyon NPDES              |  |
| Sample Matrix: | Water                            |  |

 Service Request:
 K2005315

 Date Collected:
 7/19/00

 Date Received:
 7/20/00

 Date Extracted:
 8/7/00

 Date Analyzed:
 8/8/00

#### Matrix Spike/Duplicate Matrix Spike Summary Oil and Grease EPA Method 413.1 Units: mg/L (ppm)

Sample Name:001 Intake CompositeLab Code:K2005315-001DMS

|         | Spike | Level | Sample | Spike | Result | Perc | ent R | cAS<br>CAS<br>Acceptance | Relative<br>Percent | CAS RPD<br>Acceptance |
|---------|-------|-------|--------|-------|--------|------|-------|--------------------------|---------------------|-----------------------|
| Analyte | MS    | DMS   | Result | MS    | DMS    | MS   | DMS   | Limits                   | Difference          | Limit                 |
| Oil     | 100   | 100   | ND     | 77    | 77     | 77   | 77    | 71-113                   | <1                  | 30                    |

Approved By:

8/8/00 Date:

00051 Page No.:

DMS1SRPD/120594 05315PHC.KH1 - dms 8/8/00

#### QA/QC Report

| Client:        | Pacific Gas and Electric Company |
|----------------|----------------------------------|
| Project:       | Diablo Canyon NPDES              |
| Sample Matrix: | Water                            |

#### Surrogate Recovery Summary Volatile Organic Compounds

| Extraction Method: | EPA 5030B |
|--------------------|-----------|
| Analysis Method:   | 8260B     |

Units: Level: PERCENT Low

| Sample Name                | Lab Code     | <u>Sur1</u> | <u>Sur2</u> | <u>Sur3</u> |
|----------------------------|--------------|-------------|-------------|-------------|
| 001 Intake Composite       | K2005315-014 | 104         | 105         | 108         |
| 001 Discharge Composite    | K2005315-023 | 103         | 103         | 107         |
| Method Blank               | KWG2002991-6 | 100         | 101         | 102         |
| Method Blank               | KWG2003030-3 | 103         | 103         | 103         |
| 001 Discharge CompositeMS  | KWG2002991-7 | 100         | 105         | 106         |
| 001 Discharge CompositeDMS | KWG2003030-7 | 102         | 106         | 108         |
| Lab Control Sample         | KWG2002991-4 | 101         | 104         | 105         |
| Lab Control Sample         | KWG2003030-4 | 102         | 104         | 107         |
|                            |              |             |             |             |

| Surrogate Recovery Control Limits | Control Limits (% | ate Recovery ( | 6) |
|-----------------------------------|-------------------|----------------|----|
|-----------------------------------|-------------------|----------------|----|

| Surl | Toluene-d8           | 83-116 |  |  |
|------|----------------------|--------|--|--|
| Sur2 | 4-Bromofluorobenzene | 75-120 |  |  |
| Sur3 | Dibromofluoromethane | 87-115 |  |  |

R\_\_\_\_\_lagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

00052

QA/QC Report

Client: Project: Sample Matrix: Pacific Gas and Electric Company Diablo Canyon NPDES Water

### Service Request: K2005315 Date Extracted: 08/02/2000 Date Analyzed: 08/02/2000

#### Matrix Spike/Duplicate Matrix Spike Summary Volatile Organic Compounds

| Sample Name:       | 001 Discharge Composite | Units:          | ug/L       |
|--------------------|-------------------------|-----------------|------------|
| Lab Code:          | K2005315-023            | Basis:          | NA         |
| Extraction Method: | EPA 5030B               | Level:          | Low        |
| Analysis Method:   | 8260B                   | Extraction Lot: | KWG2002991 |

|                       | Sample | 001 Disc<br>KV<br>M | harge Compo<br>VG2002991-<br>Iatrix Spike | ositeMS<br>7 | 001 Disch<br>KV<br><b>Duplic</b> | arge Compo<br>VG2003030-<br>ate Matrix S | siteDM<br>7<br>Spike | %Rec   |     | חקמ   |
|-----------------------|--------|---------------------|-------------------------------------------|--------------|----------------------------------|------------------------------------------|----------------------|--------|-----|-------|
| Analyte Name          | Result | Result              | Expected                                  | %Rec         | Result                           | Expected                                 | %Rec                 | Limits | RPD | Limit |
| 1.1-Dichloroethene    | ND     | 11                  | 10                                        | 110          | 8.9                              | 10                                       | 89                   | 42-178 | 21  | 30    |
| Benzene               | ND     | 10                  | 10                                        | 100          | 9.1                              | 10                                       | 91                   | 65-138 | 9   | 30    |
| Trichloroethene (TCE) | ND     | 10                  | 10                                        | 100          | 9.2                              | 10                                       | 92                   | 58-146 | 8   | 30    |
| Toluene               | ND     | 9.7                 | 10                                        | 97           | 8.9                              | 10                                       | 89                   | 68-135 | 9   | 30    |
| Chlorobenzene         | ND     | 11                  | 10                                        | 110          | 9.5                              | 10                                       | 95                   | 71-124 | 15  | 30    |

I flagged with an asterisk (\*) indicate values outside control criteria. Results flagged with a pound (#) indicate the control criteria is not applicable.

00053

QA/QC Report

| Chent:         |
|----------------|
| Project:       |
| Sample Matrix: |

Pacific Gas and Electric Company Diablo Canyon NPDES Water

Service Request: K2005315

#### Surrogate Recovery Summary Volatile Organic Compounds

Extraction Method:EPA 5030BAnalysis Method:624

Units: Level:

PERCENT Low

| Sample Name             | Lab Code     | <u>Sur1</u> | <u>Sur2</u> | <u>Sur3</u> |
|-------------------------|--------------|-------------|-------------|-------------|
| 001 Intake Composite    | K2005315-014 | 113         | 137 *       | 112         |
| 001 Discharge Composite | K2005315-023 | 116 *       | 114 *       | 111         |
| Method Blank            | KWG2002998-4 | 105         | 108         | 109         |
| Lab Control Sample      | KWG2002998-3 | 102         | 103         | 106         |

#### Surrogate Recovery Control Limits (%)

| Sur1 | 1.2-Dichloroethane-d4 | 76-114 |  |
|------|-----------------------|--------|--|
| Sur2 | Toluene-d8            | 88-110 |  |
| Sur3 | 4-Bromofluorobenzene  | 86-115 |  |

R agged with an asterisk (\*) indicate values outside control criteria.

Resurs flagged with a pound (#) indicate the control criteria is not applicable.

#### QA/QC Report

| Client:       | Pacific Gas and Electric Company |
|---------------|----------------------------------|
| Project:      | Diablo Canyon NPDES              |
| S ole Matrix: | Water                            |

Service Request: K2005315 Date Extracted: 08/01/2000 Date Analyzed: 08/01/2000

#### Lab Control Spike Summary Volatile Organic Compounds

.

| <b>Extraction Method:</b> | EPA 5030B |
|---------------------------|-----------|
| Analysis Method:          | 624       |

| Units:          | ug/L       |
|-----------------|------------|
| <b>Basis</b> :  | NA         |
| Level:          | Low        |
| Extraction Lot: | KWG2002998 |

| Analyte Name  | Lab Control Sample<br>KWG2002998-3<br>Lab Control Spike |          |      | %Rec   |      |
|---------------|---------------------------------------------------------|----------|------|--------|------|
|               | Result                                                  | Expected | %Rec | Limits |      |
| Acrolein      | .93                                                     | 100      | 93   | 50-150 | <br> |
| Acrylonitrile | 43                                                      | 50       | 86   | 50-150 |      |

Remarks flagged with an asterisk (\*) indicate values outside control criteria.

SuperSet Reference: RR1445

00055

Page 1 of 1

#### QA/QC Report

| Gant:<br>Project:<br>Sample Matrix:               | Pacific Gas :<br>Diablo Cany<br>Water                                                        | and Electric Company<br>von NPDES    | Surrogot | o Doooyowy | Summon     | ·      | Servi<br>Date<br>Date<br>Date<br>Date | ce Request:<br>collected:<br>e Received:<br>Extracted:<br>c Analyzed: | K2005315<br>7/19/00<br>7/20/00<br>7/21/00<br>8/1-2/00 |
|---------------------------------------------------|----------------------------------------------------------------------------------------------|--------------------------------------|----------|------------|------------|--------|---------------------------------------|-----------------------------------------------------------------------|-------------------------------------------------------|
| •                                                 |                                                                                              | Bace Neut                            | Surrogan | e Recovery | Organia Co | mounda |                                       |                                                                       |                                                       |
| Prep Method:<br>Analysis Method:                  | EPA 3520C<br>625                                                                             | Dast Incu                            |          | ennvolaure |            | mpomas |                                       | Units:<br>Basis:                                                      | PERCENT<br>NA                                         |
|                                                   |                                                                                              |                                      | Test     |            | Perc       | cent   | Rec                                   | o v e r                                                               | v                                                     |
| Sample Name                                       |                                                                                              | Lab Code                             | Notes    | 2FPHL      | PHLD6      | NBZ    | 2FBPH                                 | 246TBPHL                                                              | J<br>TPH                                              |
| 001 Intake Composit                               | e                                                                                            | K2005315-014                         |          | 53         | 63         | 74     | 73                                    | 75                                                                    | 113                                                   |
| 001 Discharge Comp                                | osite                                                                                        | K2005315-023                         |          | 60         | 69         | 78     | 68                                    | 70                                                                    | 108                                                   |
| 001 Intake Composit                               | e                                                                                            | K2005315-014MS                       |          | 57         | 66         | 77     | 74                                    | 89                                                                    | 112                                                   |
| 001 Intake Composite                              | e                                                                                            | K2005315-014DMS                      |          | 62         | 71         | 78     | 78                                    | 100                                                                   | 117                                                   |
| Method Blank                                      |                                                                                              | KWG2002803-10                        |          | 64         | 76         | 89     | 84                                    | 71                                                                    | 112                                                   |
|                                                   |                                                                                              |                                      |          |            |            |        |                                       | •                                                                     |                                                       |
|                                                   | CAS                                                                                          | Acceptance Limits:                   |          | 27-93      | 34-109     | 37-115 | 45-116                                | 45-112                                                                | 9-137                                                 |
| 2FPHL<br>PHLD6<br>NBZ<br>2FBPH<br>246TBPHL<br>TPH | 2-Fluorophen<br>Phenol-d6<br>Nitrobenzene<br>2-Fluorobiphe<br>2,4,6-Tribrom<br>p-Terphenyl-c | ol<br>-d5<br>enyl<br>nophenol<br>i14 |          |            |            |        |                                       |                                                                       |                                                       |

( (Haines

Date: AUG 1 8 2000

Approved By: \_ SUR6/071499p .

 $\underset{\mathsf{Page No.:}}{0000} 56$ 

#### QA/QC Report

| Ch<br>Project:<br>Sample Matrix:         | Pacific Gas and<br>Diablo Canyon<br>Water | Electric Con<br>NPDES | npany    |         |          |             |          |         |     | Ser<br>Da<br>Da<br>Da | vice Request:<br>ate Collected:<br>ate Received:<br>te Extracted:<br>ate Analyzed: | K2005315<br>7/19/00<br>7/20/00<br>7/21/00<br>8/2/00 |        |
|------------------------------------------|-------------------------------------------|-----------------------|----------|---------|----------|-------------|----------|---------|-----|-----------------------|------------------------------------------------------------------------------------|-----------------------------------------------------|--------|
| 4                                        |                                           | :                     | Matrix S | Spike/I | Duplicat | e Matrix S  | Spike Su | ummary  | •   |                       |                                                                                    |                                                     |        |
|                                          |                                           | Ba                    | se Neuti | al/Aci  | id Semiv | volatile Or | ganic C  | ompound | s   |                       |                                                                                    |                                                     |        |
| Sample Name:<br>Ląb Code:<br>Test Notes: | 001 Intake Com<br>K2005315-014N           | posite<br>AS,         | K2005    | 5315-0  | 14DMS    |             |          |         |     |                       | Units:<br>Basis:                                                                   | ug/L (ppb)<br>NA                                    |        |
|                                          |                                           |                       |          |         |          |             |          |         | Per | cent                  | Recover                                                                            | y .                                                 |        |
|                                          | Pren                                      | Analysis              |          | Snik    | e Tevel  | Sample      | Snike    | Result  |     |                       | CAS                                                                                | Relative<br>Percent                                 | Recult |
| Analyte                                  | Method                                    | Method                | MRL      | MS      | DMS      | Result      | MS       | DMS     | MS  | DMS                   | Limits                                                                             | Difference                                          | Notes  |
| Phenol                                   | EPA 3520C                                 | 625                   | 5        | 200     | 200      | ND          | 140      | 150     | 70  | 75                    | 55-96                                                                              | 7                                                   |        |
| 2-Chlorophenol                           | EPA 3520C                                 | 625                   | 5        | 200     | 200      | ND          | 130      | 140     | 65  | 70                    | 56-99                                                                              | 7                                                   |        |
| 1,4-Dichlorobenzene                      | EPA 3520C                                 | 625                   | 5        | 200     | 200      | ND          | 120      | 130     | 60  | 65                    | 46-95                                                                              | 8                                                   |        |
| N-Nitrosodi-n-propylami                  | EPA 3520C                                 | 625                   | 5        | 200     | 200      | ND          | 150      | 150     | 75  | 75                    | 43-122                                                                             | <1                                                  |        |
| 1,2,4-Trichlorobenzene                   | EPA 3520C                                 | 625                   | 5        | 200     | 200      | ND          | 140      | 140     | 70  | 70                    | 51-98                                                                              | <1                                                  |        |
| 4-C 3-methylpheno                        | EPA 3520C                                 | 625                   | 5        | 200     | 200      | ND          | 160      | 180     | 80  | 90                    | 56-128                                                                             | 12                                                  |        |
| Acenthene                                | EPA 3520C                                 | 625                   | 5        | 200     | 200      | ND          | 160      | 180     | 80  | 90                    | 58-102                                                                             | 12                                                  |        |
| 4-Nitrophenol                            | EPA 3520C                                 | 625                   | 20       | 200     | 200      | ND          | 160      | 180     | 80  | 90                    | 60-132                                                                             | 12                                                  |        |

Approved By: >MS/072898p<sup>05315SVM.AY1 - DMS 8/17/00</sup>

Pentachlorophenol (PCP

.

Pyrene

EPA 3520C

EPA 3520C

625

625

20

5

200

200

( ILbuies

200

200

ND

ND

150

200

170

210

75

100

85

105

AUG 1 8 2000

Date:

.

Page No.:

44-138

36-126

13

5

#### QA/QC Report

| lient:         | Pacific Gas and Electric Company | Service Request:          | K2005315 |
|----------------|----------------------------------|---------------------------|----------|
| Project:       | Diablo Canyon NPDES              | Date Collected:           | 7/19/00  |
| Sample Matrix: | Water                            | Date Received:            | 7/20/00  |
|                |                                  | Date Extracted:           | 7/24/00  |
|                |                                  | Date Analyzed:            | 7/28/00  |
|                | Su                               | urrogate Recovery Summary |          |
|                |                                  | Organochlorine Pesticides |          |
|                |                                  |                           |          |

Prep Method: EPA 3520C Analysis Method: 8081A

|                         |                | Test  | Percent Recovery     |                    |  |  |  |
|-------------------------|----------------|-------|----------------------|--------------------|--|--|--|
| Sample Name             | Lab Code       | Notes | Tetrachloro-m-xylene | Decachlorobiphenyl |  |  |  |
| 001 Intake Composite    | K2005315-014   |       | 77                   | 66                 |  |  |  |
| 001 Discharge Composite | K2005315-023   |       | 78                   | 68                 |  |  |  |
| 001 Intake Composite    | K2005315-014MS |       | 73                   | 75                 |  |  |  |
| Lab Control Sample      | K200724-LCS    |       | 76                   | 61                 |  |  |  |
| Lab Control Sample      | K200724-DLCS   |       | 82                   | 48                 |  |  |  |
| Method Blank            | K200724-MB     |       | 79                   | 62                 |  |  |  |

CAS Acceptance Limits:

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27-108

16-115

Units: PERCENT

Basis: NA

Approved By: \_\_\_\_ VN

SUR2/111397p 05315SVG.AY2 - SUR2 8/2/00

Page No.: 000058

#### QA/QC Report

| ient:<br>Project:<br>Sample Matrix:                                                                                           | Pacific Gas and<br>Diablo Canyon<br>Water                                                                                      | l Electric Con<br>NPDES                                                       | npany<br>Matrix<br>Organoo                                   | : Spike Su<br>chlorine F                                     | ummary<br>Pesticides                                                                        |                                                                              | Servi<br>Dat<br>Date<br>Date                            | ice Request:<br>e Collected:<br>e Received:<br>e Extracted:<br>e Analyzed:                       | K2005315<br>7/19/00<br>7/20/00<br>7/24/00<br>7/28/00 |
|-------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------------|--------------------------------------------------------------|---------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|---------------------------------------------------------|--------------------------------------------------------------------------------------------------|------------------------------------------------------|
| Sample Name:<br>Lab Code:<br>Test Notes:                                                                                      | 001 Intake Com<br>K2005315-014                                                                                                 | nposite<br>MS                                                                 |                                                              |                                                              |                                                                                             |                                                                              |                                                         | Units:<br>Basis:                                                                                 | ug/L (ppb)<br>NA                                     |
| Analyte                                                                                                                       | Prep<br>Method                                                                                                                 | Analysis<br>Method                                                            | MRL                                                          | Spike<br>Level                                               | Sample<br>Result                                                                            | Spiked<br>Sample<br>Result                                                   | Percent<br>Recovery                                     | CAS<br>Percent<br>Recovery<br>Acceptance<br>Limits                                               | Result<br>Notes                                      |
| alpha-BHC<br>beta-BHC<br>gamma-BHC (Lindan<br>delta-BHC<br>Heptachlor<br>Aldrin<br>otachlor Epoxide<br>dosulfan I<br>Dieldrin | EPA 3520C<br>EPA 3520C<br>EPA 3520C<br>EPA 3520C<br>EPA 3520C<br>EPA 3520C<br>EPA 3520C<br>EPA 3520C<br>EPA 3520C<br>EPA 3520C | 8081A<br>8081A<br>8081A<br>8081A<br>8081A<br>8081A<br>8081A<br>8081A<br>8081A | 0.02<br>0.02<br>0.02<br>0.02<br>0.02<br>0.02<br>0.02<br>0.02 | 0.38<br>0.38<br>0.38<br>0.38<br>0.38<br>0.38<br>0.38<br>0.38 | 5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5 | 0.35<br>0.40<br>0.40<br>0.38<br>0.33<br>0.36<br>0.38<br>0.31<br>0.38<br>0.42 | 92<br>105<br>105<br>100<br>87<br>95<br>100<br>82<br>100 | 35-150<br>35-150<br>29-154<br>35-150<br>17-149<br>40-122<br>35-150<br>35-150<br>19-185<br>25 150 |                                                      |

4,4'-DDE 8081A 0.38 ND0.42 EPA 3520C 0.02 111 Endrin EPA 3520C 8081A 0.02 0.38 ND 0.38 100 27-183 Endosulfan II EPA 3520C 8081A 0.02 0.38 ND 0.33 87 35-150 8081A 4,4'-DDD EPA 3520C 0.02 0.38 ND 0.42 111 35-150 Endrin Aldehyde EPA 3520C 8081A 0.02 0.38 ND 0.36 95 35-150 Endosulfan Sulfate EPA 3520C 8081A 0.02 0.38 ND 0.38 100 35-150 4,4'-DDT EPA 3520C 8081A 0.02 ND 0.42 27-173 .0.38 111

Approved By: <u>VN</u> MS/020597p

Date: <u>8-3-00</u>

Page No.: 00059

05315SVG.AY2 - MS 8/2/00
#### QA/QC Report

Pacific Gas and Electric Company Service Request: K2005315 Project: Diablo Canyon NPDES Date Collected: NA LCS Matrix: Water Date Received: NA Date Extracted: 7/24/00 Date Analyzed: 7/28/00 Laboratory Control Sample/Duplicate Laboratory Control Sample Summary Organochlorine Pesticides Sample Name: Lab Control Sample Units: ug/L (ppb) Lab Code: K200724-LCS, K200724-DLCS Basis: NA Test Notes: Percent Recovery CAS Relative Prep Analysis **True Value** Result Acceptance Percent Analyte Method Method LCS DLCS LCS DLCS LCS DLCS Limits Difference alpha-BHC EPA 3520C 8081A 0.20 0.20 0.18 0.19 90 95 60-140 5 beta-BHC EPA 3520C 8081A 0.20 0.20 0.19 0.21 95 105 60-140 10 gamma-BHC (Lindane) EPA 3520C 8081A 0.20 0.20 0.21 0.22 105 59-120 110 5 delta-BHC 8081A EPA 3520C 0.20 0.20 0.19 0.21 95 105 60-140 10 Heptachlor EPA 3520C 8081A 0.20 0.20 0.17 0.18 85 90 22-128 6 Aldrin 0.20 EPA 3520C 8081A 0.20 0.19 0.20 95 100 17-123 5 'eptachlor Epoxide EPA 3520C 8081A 0.20 0.20 0.20 0.20 100 100 60-140 <1 dosulfan I EPA 3520C 8081A 0.20 0.20 0.15 0.17 75 85 60-140 13 Dieldrin EPA 3520C 8081A 0.20 0.20 0.21 0.21 105 105 61-127 <1 4,4'-DDE EPA 3520C 8081A 0.20 0.20 0.20 0.22 100 110 60-140 10 Endrin EPA 3520C 8081A 0.20 0.20 0.20 0.20 100 100 60-133 <1 Endosulfan II EPA 3520C 8081A 0.20 0.20 0.16 0.19 80 95 60-140 17

lient:

Approved By: DLCS/080797p 05315SVG.AY2 - DLCS 8/2/00

4,4'-DDD

4,4'-DDT

Endrin Aldehyde

Endosulfan Sulfate

EPA 3520C

EPA 3520C

EPA 3520C

EPA 3520C

8081A

8081A

8081A

8081A

0.20

0.20

0.20

0.20

0.20

0.20

0.20

0.20

0.21

0.19

0.19

0.21

0.23

0.21

0.20

0.22

105

95

95

105

115

105

100

110

60-140

60-140

60-140

63-129

9

10

5

5

Date: 8-3-00

Page No.: 00060

Result

Notes

### QA/QC Report

|   | Client:              | Pacific Gas and I | Electric Company     |                                                 | Service Request:   | K2005315 |
|---|----------------------|-------------------|----------------------|-------------------------------------------------|--------------------|----------|
| _ | Project:             | Diablo Canyon N   | <b>IPDES</b>         |                                                 | Date Collected:    | 7/19/00  |
|   | Sample Matrix:       | Water             |                      |                                                 | Date Received:     | 7/20/00  |
|   |                      |                   |                      |                                                 | Date Extracted:    | 7/24/00  |
|   |                      |                   |                      |                                                 | Date Analyzed:     | 8/4/00   |
|   |                      |                   | Surrog:<br>Polychlor | ate Recovery Summary<br>inated Biphenyls (PCBs) |                    |          |
|   | Prep Method:         | EPA 3520C         |                      |                                                 | Units:             | PERCENT  |
|   | Analysis Method:     | 8082              |                      |                                                 | Basis:             | NA       |
|   |                      |                   |                      | Test                                            | Percent Recovery   |          |
|   | Sample Name          |                   | Lab Code             | Notes                                           | Decachlorobiphenyl |          |
|   | 001 Intake Composite | •                 | K2005315-014         |                                                 | 77                 |          |
|   |                      | ••                | 120005315 003        |                                                 | 00                 |          |

001 Discharge Composite K2005315-023 80 001 Intake Composite K2005315-014MS 94 Lab Control Sample KWG2002837-5 59 KWG2002837-6 Lab Control Sample 78 Method Blank KWG2002837-7 72

CAS Acceptance Limits:

5-140

Approved By:

VA/

SUR1/110697p 05315SVG.AY3 - SUR 8/9/00

Date: <u>8-9-00</u>

## QA/QC Report

| Client:<br>Project:<br>Sample Matrix:    | Pacific Gas and<br>Diablo Canyon<br>Water | l Electric Com<br>NPDES | ipany               |                         |                      |                            | Servi<br>Dat<br>Dat<br>Date | ice Request:<br>e Collected:<br>te Received:<br>e Extracted: | K2005315<br>7/19/00<br>7/20/00<br>7/24/00 |
|------------------------------------------|-------------------------------------------|-------------------------|---------------------|-------------------------|----------------------|----------------------------|-----------------------------|--------------------------------------------------------------|-------------------------------------------|
| •                                        |                                           | Pol                     | Matrix<br>ychlorina | t Spike St<br>ated Biph | ımmary<br>enyls (PCE | 3s)                        | Dat                         | e Analyzed:                                                  | 8/4/00                                    |
| Sample Name:<br>Lab Code:<br>Test Notes: | 001 Intake Con<br>K2005315-014            | nposite<br>MS           |                     |                         |                      |                            |                             | Units:<br>Basis:                                             | ug/L (ppb)<br>NA                          |
| Analyte                                  | Prep<br>Method                            | Analysis<br>Method      | MRL                 | Spike<br>Level          | Sample<br>Result     | Spiked<br>Sample<br>Result | Percent<br>Recovery         | CAS<br>Percent<br>Recovery<br>Acceptance<br>Limits           | e Result<br>Notes                         |
| Aroclor 1016<br>Aroclor 1260             | EPA 3520C<br>EPA 3520C                    | 8082<br>8082            | 0.2<br>0.2          | 3.8<br>3.8              | ND<br>ND             | 3.8<br>3.7                 | 100<br>97                   | 38-128<br>48-138                                             |                                           |

Approved By: \_

MS/020597p 05315SVG.AY3 - MS 8/9/00  $\mathcal{V}\mathcal{N}$ 

Date: 8-9-00

Page No.: 00062

#### QA/QC Report

| lient:                  | Pacific Gas and | Electric Comp       | bany                              |                      |                      |                 | Servi  | ice Request: | K2005315   |        |
|-------------------------|-----------------|---------------------|-----------------------------------|----------------------|----------------------|-----------------|--------|--------------|------------|--------|
| Project:                | Diablo Canyon   | NPDES               |                                   |                      |                      |                 | Dat    | e Collected: | NA         |        |
| LCS Matrix:             | Water           |                     |                                   |                      |                      |                 | Dat    | e Received:  | NA         |        |
|                         |                 |                     | •                                 |                      |                      |                 | Date   | Extracted:   | 7/24/00    |        |
|                         |                 |                     |                                   |                      |                      |                 | Dat    | e Analyzed:  | 8/4700     |        |
|                         | Laborato        | ory Control Sa<br>F | ample/Duplicat<br>Polychlorinated | te Laboi<br>I Bipher | ratory C<br>nyls (PC | Control<br>(Bs) | Sample | Summary      |            |        |
| Sample Name:            | Lab Control San | nple                |                                   |                      |                      |                 |        | Units:       | ug/L (ppb) |        |
| Lab Code:<br>Test Notes | KWG2002837-5    | 5, KWG20028         | 37-6                              |                      |                      |                 |        | Basis:       | NA         |        |
| Test Holes.             |                 |                     |                                   |                      | J                    | Perc            | ent F  | Recovery     | ÿ          |        |
|                         |                 |                     |                                   |                      |                      |                 |        | CAS          | Relative   |        |
|                         | Prep            | Analysis            | True Value                        | Re                   | sult                 |                 |        | Acceptance   | Percent    | Result |
| Analyte                 | Method          | Method              | LCS DLCS                          | LCS                  | DLCS                 | LCS             | DLCS   | Limits       | Difference | Notes  |

2.0

2.0

2.0

1.9

1.9

2.0

100

95

95

100

36-123

54-132

5

5 <sup>·</sup>

Approved By: <u>V</u>

DLCS/080797p 05315SVG.AY3 - DLCS 8/9/00

Aroclor 1016

Aroclor 1260

EPA 3520C

EPA 3520C

8082

8082

2.0

2.0

Date: 8-9-00

### QA/QC Report

| lient:               | Pacific Gas and Electric Compa | iny             | Se                     | rvice Request: | K2005315  |
|----------------------|--------------------------------|-----------------|------------------------|----------------|-----------|
| Project:             | Diablo Canyon NPDES            |                 | D                      | ate Collected: | 7/19/00   |
| Sample Matrix:       | Water                          |                 | I                      | Date Received: | 7/20/00   |
|                      |                                |                 | D                      | ate Extracted: | 7/25/00   |
|                      |                                |                 | D                      | ate Analyzed:  | 7/28/00   |
|                      |                                | Surrogate Recov | ery Summary            |                |           |
|                      |                                | Butylt          | ins                    |                |           |
| Prep Method:         | EPA 3520C                      |                 |                        | Units:         | PERCENT   |
| Analysis Method:     | Krone                          |                 |                        | Basis:         | NA        |
|                      |                                | Test            | Percent                | Recovery       |           |
| Sample Name          | Lab Code                       | Notes           | Tri-n-propyltin Cation | Tri-n-pentylt  | in Cation |
| 001 Intake Composite | e K2005315-014                 |                 | 81                     | 86             |           |
| 001 Discharge Comp   | osite K2005315-023             |                 | 93                     | 94             |           |
| 001 Intake Composite | e K2005315-014MS               |                 | 84                     | 86             |           |

K2005315-014DMS

KWG2002851-4

CAS Acceptance Limits:

30-115

71

84

36-102

78

89

SUR2/111397p

Approved By:

001 Intake Composite

Method Blank

05315SVG.AY1 - SUR2 8/3/00

 $\sqrt{N}$ 

Page No.:

. 26

Date: <u>8-3-00</u>

### QA/QC Report

| Clie                                     | Pacific Gas and Electric (              | Company                                                  | Service Request: | K2005315         |
|------------------------------------------|-----------------------------------------|----------------------------------------------------------|------------------|------------------|
| Project.                                 | Diablo Canyon NPDES                     |                                                          | Date Collected:  | 7/19/00          |
| Sample Matrix:                           | Water                                   |                                                          | Date Received:   | 7/20/00          |
|                                          |                                         |                                                          | Date Extracted:  | 7/25/00          |
|                                          |                                         |                                                          | Date Analyzed:   | 7/28/00          |
|                                          | · · · · ·                               | Matrix Spike/Duplicate Matrix Spike Summary<br>Butyltins |                  |                  |
| Sample Name:<br>Lab Code:<br>Fest Notes: | 001 Intake Composite<br>K2005315-014MS, | K2005315-014DMS                                          | Units:<br>Basis: | ug/L (ppb)<br>NA |
|                                          |                                         |                                                          | Percent Recovery | ,                |

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# APPENDIX B CHAIN-OF-CUSTODY INFORMATION

| Analytical CHAIN OF                                                                 |                                                                                                                               |                              |           |          |                               |            |                   |                                         | CUSTODY     |           |                  |               |               |                     |                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| An Employee-Own npany                                                               | 1317 South 1                                                                                                                  | 3th Ave. • K                 | (elso, WA | 98626 •  | (360) 577                     | 7-7222     | (800)             | 695                                     | .2 • F      | -AX (3    | 60) 636          | 5-1068        | ;             | F                   | PAGI                       | Ξ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| PROJECT NAME Diablo (<br>PROJECT NUMBER                                             | anyon                                                                                                                         | (PG.                         | + E)      |          | _/                            | 7          |                   |                                         |             |           |                  |               |               |                     | /                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| PROJECT MANAGER Clint Gans                                                          |                                                                                                                               |                              |           |          |                               |            |                   | 2 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |             |           |                  |               |               |                     |                            | mom []<br>P (1)<br>P (1) |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |            |           | <u>₹</u>    |        |            |    |
| PHONE #<br>(\$05) 545 - 3419<br>SAMPLER'S SIGNATURE<br>MAL Duft<br>SAMPLE I.D. DATE | PHONE #<br>(805) 545 - 3419<br>SAMPLER'S SIGNATURE<br>MAL DATE<br>SAMPLE I.D. DATE TIME LAB I.D. MATRIX<br>OOZ Disch on 7/w/o |                              |           |          |                               |            |                   | NW.H. Mgerprint                         | CB'S 418.10 | esticides | Thoropher Bolt A | AHC Tetral 81 | SC/MS-SIL SIL | tetals, Total       | ve list below)<br>Vanice 7 | OH, Cond Hex-C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 13-N, COS, 155, 7 | Concernation of the second sec | 2° / 1 40x | 0 1/66    | E each will |        |            |    |
| OOZ Discharge 7/18/                                                                 | 100                                                                                                                           | 1                            | H.D       | $f^{-}f$ |                               |            | $f = \frac{1}{2}$ | <u>, .</u>                              |             | ~ 8       |                  | <u>/ 4</u>    | /%            | 120                 |                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| REPORT REQUIREMENTS                                                                 | P.O. #                                                                                                                        | ICE INFOR                    | MATION    | • · · ·  | Circle whic                   | h metals   | are to l          | ре апа                                  | vzed:       |           |                  | ╺╾╸╌╴┛╸       |               | 1                   |                            | I                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| I. Routine Report: Method                                                           | Bill To:                                                                                                                      |                              |           |          | Total Me                      | etals: Al  | As S              | Sb Ba                                   | Bel         | B Ca      | Cd (             | Co C          | r Cu          | Fe I                | РЪМ                        | a Ma                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| II. Report Dup., MS, MSD as                                                         | TURNAR                                                                                                                        |                              |           |          | INDICAT                       | E STA      | ΓΕ ΗΥ[            | DROC                                    | ARBO        | N PR      | OCED             | URE:          | AK            |                     | WI                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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| required                                                                            | 24 h                                                                                                                          | YUND HEQ<br>II.              | 48 hr     | INTS STR | PECIAL                        | INSTR      | UCTIO             | NS/C                                    | OMME        | NTS:      |                  |               |               |                     |                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| III. Data Validation Report<br>(includes all raw data)                              |                                                                                                                               |                              |           |          |                               |            | در                | Je                                      | -11-        | ,C        | hrs              | ist;          | an            | £                   | )<br>07                    | de                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| IV. CLP Deliverable Report                                                          | ays)                                                                                                                          |                              | //        | ore      | S                             | amp        | ples              | ; 7                                     | 2 0         | COV       | në,              |               |               |                     |                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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| V. EDD                                                                              |                                                                                                                               | Please issue temps for Fecal |           |          |                               |            |                   |                                         |             |           |                  | Col           | i for         | ~mS                 | ,                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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| RELINQUISHED BY:<br>Mit Finth 7/18/00<br>Signature C. M. Date/Time                  | 15:30                                                                                                                         | Sittional                    | kal       |          | لیے<br>ED BY: _<br>حرد ر      | IA         | 1                 | 1 pc                                    | )d          |           | RELIN            | NQUIS         | SHED          | BY:                 |                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| Printed Name Firm Firm                                                              |                                                                                                                               |                              |           | 2 flz    | Date/Time Signature Date/Time |            |                   |                                         |             |           |                  |               |               | Signature Date/Time |                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| Anelytical CHAIN OF CU                                |               |              |           |       |                        |                                    |                      |        |            |               | USTODY SR#: 1 200 5: |          |                   |                     |                   |                         |               |             | 53/5                        |              |         |                         |                                                                                          |          |
|-------------------------------------------------------|---------------|--------------|-----------|-------|------------------------|------------------------------------|----------------------|--------|------------|---------------|----------------------|----------|-------------------|---------------------|-------------------|-------------------------|---------------|-------------|-----------------------------|--------------|---------|-------------------------|------------------------------------------------------------------------------------------|----------|
| An Employee-Owne ipany 1                              | 317 South 13t | th Ave. • Ke | lso, WA s | 98626 | (360) 57               | 7-7222                             | • (800)              | 695    | . • F      | AX (36        | 60) 636              | 6-1068   |                   | F                   | PAGE              | Ē                       | <u> </u>      | OFCOC #     |                             |              |         |                         |                                                                                          | ~        |
| PROJECT NAME DIUDIOCO                                 | myon          | DC           | cf        |       | T                      | 7                                  | 10                   | 7      | 7          | 1             | /                    | 75       | 7                 | 1                   | 1                 | 7                       | $\mathcal{T}$ | <b>À</b> S  | X/3                         | Vn           | 7       | 77                      | 1AT                                                                                      | $\neg a$ |
| PROJECT NUMBER                                        | 2             |              |           |       | 1                      | 1                                  |                      | / /    | ' <u> </u> |               | / /                  | 124      | ' /               | ' /                 |                   | ' I                     | / /           |             |                             | 200          | '       | '/                      | <u></u> <u> </u> |          |
| PROJECT MANAGER Clint                                 | GANS          |              |           |       | 781                    | /ଟୁ<br>                            |                      |        |            | NEN           |                      |          |                   |                     | <sup>Talatt</sup> | - [-                    |               |             |                             | 0            |         |                         | bm /                                                                                     |          |
| COMPANY/ADDRESS                                       |               |              |           |       | 7 <i>\</i>             | à. /.                              | below                | ĨĮĵ    | /°,        | 8 <u>8</u>    |                      |          | <u>8</u> ] [      | 1                   |                   | 1                       |               |             | I A                         | § / <b>1</b> |         | /                       | K X                                                                                      |          |
|                                                       |               |              |           | /     |                        |                                    | 9.99<br>8.99<br>8.99 |        |            |               |                      | 18       | 15                |                     |                   | lex-0                   | 13            | 13          | ĮĘ.                         | /- 7         |         |                         |                                                                                          |          |
| PHONE #                                               | FAX #         |              |           |       | 0 /07<br>0 /84         |                                    |                      | 200    | SEL.       | $\frac{3}{2}$ | Pler<br>BIA (        |          | 01                |                     |                   |                         | Pat           |             |                             | ' र्नु       | 7       | Sa                      | <u>ال</u>                                                                                |          |
| SAMPLER'S SIGNATURE                                   | /             |              |           |       |                        | 58<br>80                           |                      |        | E/S        | Sides C       |                      | 0        | 8 /3<br>8/3       |                     | list be           |                         |               |             | § /                         | SK.          | £/      | Ξ/J                     |                                                                                          |          |
| SAMPLE I.D. DATE                                      | TIME          | LAB I.D.     | MATRIX    | 7 \$  | \ <sup>&amp;</sup> &   |                                    |                      |        |            |               |                      |          | 100               |                     |                   |                         | W)            | <u>រ/ខ្</u> | $\langle / \langle \rangle$ | γv           | 7(_)    | 12 n                    | REMARKS                                                                                  |          |
| 001 Intake 7/18-19                                    | *             | 14           | H20       |       | X                      |                                    | 1                    |        | X          | [             | (                    |          |                   | $\overline{X}$      | (ک<br>ا           | $\overline{\mathbf{x}}$ | <u>ال</u>     | [           | X                           | X            |         | $\overline{\mathbf{x}}$ | Fall AA                                                                                  | -        |
| VOAL) 7/18                                            | 11:250        | 6            |           |       | <u> </u>               | × -                                |                      |        |            |               |                      |          |                   |                     |                   |                         |               | ·           |                             |              |         |                         | Davie S                                                                                  | -        |
| VOA(2) 7/18                                           | 2:35?         | 7            |           |       |                        | X                                  |                      |        |            |               |                      |          |                   |                     |                   |                         |               |             |                             |              |         | <u>├</u> ───┦           | Charles Charles                                                                          | -        |
| VOA(3) 7/18                                           | 5:402         | 8            |           |       |                        | <u>x</u>                           | -                    |        |            |               |                      |          |                   |                     |                   |                         |               |             |                             |              |         |                         | Uniter                                                                                   | -        |
| VOA(4) 7118                                           | 8:400         | · a          |           | 1     |                        | オー                                 |                      |        |            |               |                      |          |                   |                     |                   |                         |               |             |                             |              |         |                         |                                                                                          | -        |
| VDA(S) 7/18                                           | 11:100        | 12           |           | 1     |                        | $\overline{x}$                     |                      |        |            |               |                      |          |                   |                     |                   |                         | <sup>-</sup>  |             |                             |              |         | <b> </b>                |                                                                                          | _        |
| VOA(6) 7/19                                           | 2:35A         |              |           |       |                        | zt                                 |                      |        |            |               |                      |          |                   |                     |                   |                         |               |             |                             |              |         |                         |                                                                                          | _        |
| VOA(7) 7/19                                           | 5:35A         | 12           |           |       |                        | × -                                |                      |        |            |               |                      |          |                   | ••                  |                   |                         |               |             |                             |              |         |                         |                                                                                          |          |
| VDA(8) 71A                                            | 8:350         | 12           | V         |       |                        |                                    |                      |        |            |               |                      |          |                   |                     |                   |                         |               |             |                             |              |         |                         |                                                                                          | _        |
|                                                       |               | -1-1-1       |           |       | //                     |                                    |                      |        |            |               |                      |          |                   |                     |                   |                         |               |             |                             |              |         | I                       |                                                                                          | _        |
| REPORT REQUIREMENTS                                   | INVO          | ICE INFOR    | MATIO     | N     | Circle wh              | lich met                           | als are to           | be and | luzod:     |               |                      |          |                   |                     |                   |                         |               |             |                             |              |         |                         |                                                                                          | _        |
| I. Routine Report: Method                             | P.O. # _      |              |           |       | Total M                | Aetals:                            | Al As                | Sh B   | a Ro       | B Ca          | Cd                   | <u> </u> | ~ ~               | ٣.                  |                   |                         |               | • • • •     |                             |              |         |                         |                                                                                          |          |
| Blank, Surrogate, as                                  |               |              |           |       | Dissolved              | Metals:                            | Al As                | Sb B   | a Be       | B Ca          | o Cd                 | 000      |                   | - Fe                |                   | ng M                    | n Mo          | NE          | K Ag                        | Na           | Se S    | r TI S                  | Sn V Zn Hg                                                                               |          |
| Report Dur. MC MOD                                    |               |              |           |       | *INDICA                | TE ST                              | ATE HY               | DROC   | CARBO      |               |                      |          | · 4K              |                     |                   |                         |               |             | K Ag                        | Na           | Se S    | r TI (                  | Sn V Zn Hg                                                                               |          |
| required                                              | TURNAR        | OUND REQ     | UIREM     | ENTS  | SPECIA                 | L INST                             | RUCTI                | ONS/C  | OMM        | ENTS          |                      |          | <u>. ///</u>      |                     |                   | 1.                      |               |             | UTHE                        | <u>=R:</u>   | <u></u> | <u>(CIRC</u>            | CLE ONE)                                                                                 | -        |
| III. Data Validation Report                           | 24 h<br>5 Da  | r<br>av      | 48 hr.    |       | × 17                   | 5m1                                | s fra                | me     | ,cur       | n of          | 8                    | VC       | A -               | SAm                 | yle               | 11                      | ne            | 5.          |                             |              |         |                         |                                                                                          |          |
| (includes all raw data)Standard (10-15 working days)S |               |              |           |       |                        |                                    | Tef                  | fC     | hri        | ist           | TAA.                 | ~ f      | 1                 | mł                  | ۰ŀ                | 1DO                     | 15            | an          | 6                           | Th           | st      | nct                     | ions.                                                                                    |          |
| IV. CLP Deliverable Report Provide FAX Results        |               |              |           |       |                        |                                    | . ب ر                | Ū      |            |               |                      |          | v                 | •                   | -                 |                         |               |             |                             |              |         |                         |                                                                                          |          |
| Requested Report Date                                 |               |              |           |       |                        |                                    |                      |        |            |               |                      |          |                   |                     |                   |                         |               |             |                             |              | •       | -                       |                                                                                          |          |
| RELINQUISHED BY:                                      |               |              |           |       |                        |                                    |                      |        |            |               |                      |          |                   |                     |                   |                         |               |             |                             |              |         |                         |                                                                                          |          |
| 7/19 10:00 From the                                   |               |              |           |       |                        | RELINQUISHED BY:                   |                      |        |            |               |                      |          |                   |                     |                   | RECEIVED BY:            |               |             |                             |              |         |                         |                                                                                          |          |
| Date/ Ime<br>Des Comma CAS Strature Date              |               |              |           |       |                        | Date/Time Signature Date/Time Sign |                      |        |            |               |                      |          |                   | Signature Date/Time |                   |                         |               |             |                             |              |         |                         |                                                                                          |          |
| Printed Narde Firm Printed Name                       |               |              |           |       | Firm Printed Name Firm |                                    |                      |        |            |               |                      |          | Printed Name Firm |                     |                   |                         |               |             |                             |              |         |                         |                                                                                          |          |

|                                                                              |                                                                                              | 5            |  |  |  |  |
|------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|--------------|--|--|--|--|
| An Employee-Owned Company 1317 South 13th Ave. • Kelso, WA 98                | 1626 • (360) 577-7222 • (800) 695-7222 • FAX (360) 636-1068 PAGE OF COC #                    | ආ            |  |  |  |  |
| PROJECT NAME DIG DE DIG CANNER DICT                                          |                                                                                              | 78           |  |  |  |  |
| PROJECT NUMBER                                                               |                                                                                              | / 4          |  |  |  |  |
| PROJECT MANAGER                                                              |                                                                                              | / 9          |  |  |  |  |
| CINT CHITS                                                                   |                                                                                              | 5            |  |  |  |  |
|                                                                              |                                                                                              |              |  |  |  |  |
| PHONE # FAX #                                                                |                                                                                              |              |  |  |  |  |
| SAMPLER'S SUGNATURE                                                          |                                                                                              |              |  |  |  |  |
| SAMPLEID DATE TIME LAB I.D. MATRIX                                           | <u> </u>                                                                                     | ARKS         |  |  |  |  |
| 001 Discharge 7/18-19 * 23 140                                               | X XX X                                                      | 1/150        |  |  |  |  |
| VOAGO 7/18 11:40A 75 1                                                       |                                                                                              | in in        |  |  |  |  |
| VDA(2) 7/18 2:500 /6                                                         |                                                                                              | www.         |  |  |  |  |
| VDA(3) 7/10 5:55 17                                                          |                                                                                              | jan _        |  |  |  |  |
| V04/41 7119 9:000                                                            |                                                                                              |              |  |  |  |  |
|                                                                              |                                                                                              |              |  |  |  |  |
| VOR (S) 1/18 (1:55) / 7                                                      |                                                                                              |              |  |  |  |  |
| VUA(6) 7/19 2:50 A 20                                                        |                                                                                              |              |  |  |  |  |
| VOA (7) 7/19 550A 27                                                         |                                                                                              |              |  |  |  |  |
| $\sqrt{09(8)}$ $\frac{7}{19}$ $\frac{8}{500}$ $\frac{32}{21}$ $\frac{1}{19}$ |                                                                                              |              |  |  |  |  |
|                                                                              |                                                                                              |              |  |  |  |  |
| REPORT REQUIREMENTS INVOICE INFORMATION                                      | Circle which metals are to be applyzed:                                                      |              |  |  |  |  |
| P.O. #                                                                       |                                                                                              |              |  |  |  |  |
| Blank, Surrogate, as                                                         |                                                                                              | י Hg         |  |  |  |  |
| required                                                                     | TISSURVEUMIELAIS. AT AS SO BA BE B CA CO CO CO CO FE PO Mg Mn Mo Ni K Ag Na Se So TI Sn V Zo | n Hg         |  |  |  |  |
| II. Report Dup., MS, MSD as TURNAROUND REQUIREMENT                           | INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORHTWEST OTHER: (CIRCLE ONE                  | )            |  |  |  |  |
| 24 hr48 hr.                                                                  | \$125mis from pack of 8 you sample times                                                     |              |  |  |  |  |
| (includes all raw data)                                                      | i i zami s i i di di di di di di di di ta di ta di ta di |              |  |  |  |  |
| IV CLP Deliverable Report                                                    | ivs) - See Jett Christian for methods and Instruction                                        | ~S.          |  |  |  |  |
| V EDD                                                                        |                                                                                              |              |  |  |  |  |
| Bequested Benort Date                                                        | — <u>]</u>                                                                                   |              |  |  |  |  |
| A RELINQUISHED BY:                                                           |                                                                                              |              |  |  |  |  |
| Dur 7/19 10:00 - 1                                                           | RELINQUISHED BY: RECEIVED BY:                                                                | RECEIVED BY: |  |  |  |  |
| Signature Date/Time Anaure                                                   | Date/Time                                                                                    |              |  |  |  |  |
| Printed Name Firm Printed Name                                               | AIAI (                                                                                       |              |  |  |  |  |

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| Anr' tical                                            | IAIN OF                        | CUS                                                         | τοργ                     | SR#: 1200,5315                                                        |                   |               |                    |          |            |                     |                 |           |          |            |  |
|-------------------------------------------------------|--------------------------------|-------------------------------------------------------------|--------------------------|-----------------------------------------------------------------------|-------------------|---------------|--------------------|----------|------------|---------------------|-----------------|-----------|----------|------------|--|
| An Employee - Owned - Inpany 1317 South 13th Ave. • K | elso, WA 98626 •               | (360) 577-7222 • (                                          | ,<br>300) 695-7          | - • FAX (360)                                                         | 636-1068          | 1             | PAGE               |          |            |                     |                 |           |          |            |  |
| PROJECT NAME Diablo Canyon<br>PROJECT NUMBER          | DLCP                           |                                                             | JIEX J                   | EMD                                                                   | 8151A[]           |               | tes []             |          |            | h)/                 | 5060            | -         | 7        | . / 5 /    |  |
| Clint Gign S                                          | /                              | TAINERS<br>ics by GC/                                       | below)                   | 1 1664 S<br>7 1664 S<br>1664 H<br>Teners ()                           | 81414 []<br>1151M |               | ssolved            | Chrom [] |            |                     | A A             |           | E/J      |            |  |
| PHONE # FAX #                                         |                                | C C C C C C C C C C C C C C C C C C C                       | Fingerprint<br>CID Scree | 141817<br>41817<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10 | Tetra             | 8310 [] SIM   | below)<br>Dist     |          |            |                     | J.              | Å.        | H.       | 3          |  |
| SAMPLE I.D. DATE TIME LAB I.D.                        | MATRIX N                       | Semivol<br>Semivol<br>625<br>624<br>1<br>Fydroca<br>Gao Cca |                          |                                                                       | PAHS<br>PAHS      | PAH<br>Metals | Cyanide            |          |            |                     | 30              | <i>zv</i> | YLE      | REMARKS    |  |
| 004 Discharte, 7/184 24 -24                           | 1420                           |                                                             | T                        |                                                                       |                   | <u> </u>      |                    | <u> </u> | _          | X                   | X               | X         | $\times$ | F. Whit on |  |
| Continue                                              |                                |                                                             |                          |                                                                       | _                 |               |                    |          |            |                     |                 |           |          | Survey     |  |
| to point                                              |                                |                                                             |                          |                                                                       |                   |               |                    |          |            |                     |                 |           |          | Chona,     |  |
|                                                       |                                |                                                             |                          |                                                                       |                   |               | $\left  - \right $ |          | _          |                     |                 |           | · ·      |            |  |
|                                                       |                                |                                                             |                          |                                                                       |                   |               |                    |          |            |                     |                 |           |          |            |  |
|                                                       |                                |                                                             |                          |                                                                       |                   |               |                    |          | -          |                     |                 |           |          |            |  |
|                                                       |                                |                                                             |                          |                                                                       |                   |               |                    |          |            |                     |                 |           |          |            |  |
|                                                       |                                |                                                             |                          |                                                                       | -                 |               |                    |          |            |                     |                 |           |          |            |  |
|                                                       | RMATION                        | Circle which metals                                         | are to be anal           | vzed:                                                                 |                   |               |                    |          |            |                     |                 |           |          | · · ·      |  |
| I. Routine Report: Method     Bill To:                |                                | Total Metals: Al                                            | As Sb Ba                 | Be B Ca                                                               | Cd Co (           | Cr Cu Fe      | Pb N               | lg Mn N  | /lo Ni     | K Ag                | Na              | Se Si     | r Ti S   | Sn V Zn Hg |  |
| Blank, Surrogate, as required                         |                                | Dissolved Metals: Al                                        | As Sb Ba                 | a Be B Ca                                                             | Cd Co             | Cr Cu Fe      | Pb N               | lg Min I | Mo Ni      | K Ag                | ) Na            | Se S      | r TI S   | Sn V Zn Hg |  |
| II. Report Dup., MS, MSD as TURNAROUND RE             | QUIREMENTS                     | *INDICATE STAT                                              | E HYDROC                 | ARBON PRO                                                             | CEDURE            | E: AK · C/    | A WI               | NORHT    | WEST       | OTH                 | ER:             |           | _ (CIR   | CLE ONE)   |  |
| III. Data Validation Report                           | 48 hr.                         | - Spe                                                       | Jeff                     | Choi                                                                  | < tia             | n 4r          | ~w                 | Potr     | w          | ) <i>C</i> ~        | $\sim \partial$ | In        | stn      | nition).   |  |
| (includes all raw data)5 Day5 Landard (10-1           | 5 working days)                |                                                             |                          |                                                                       | <u>،</u>          |               |                    |          |            |                     |                 |           |          |            |  |
| IV. CLP Deliverable Report Provide FAX R              | lesuits                        |                                                             |                          |                                                                       |                   |               |                    |          |            |                     |                 |           |          |            |  |
| V. EDD                                                | port Date                      | ~                                                           |                          |                                                                       |                   | •             |                    |          |            |                     |                 |           |          |            |  |
| BELINQUISHED BY:                                      | RECE                           |                                                             |                          |                                                                       |                   |               |                    |          |            |                     |                 |           |          |            |  |
| Signature Date/Time                                   | yei ba                         | wide                                                        | J                        |                                                                       |                   |               |                    | - nE     | CEIVED BI: |                     |                 |           |          |            |  |
| Plinted Name Firm                                     | Date/Timer Signature Date/Time |                                                             |                          |                                                                       |                   |               |                    |          |            | Signature Date/Time |                 |           |          |            |  |

# APPENDIX C DIOXIN RESULTS



August 15, 2000

#### Alta Batch I.D.: 8844

Mr. Jeff Christian Columbia Analytical Services 1317 South 13<sup>th</sup> Avenue Kelso, WA 98626

Dear Mr. Christian,

Enclosed are the results for the two effluent samples received at Alta Analytical Laboratory on July 25, 2000. This work was authorized under your Purchase Order #K2005315A. These samples were analyzed using EPA Method 8290 for tetra to octa chlorinated dioxins and dibenzofurans. A standard turnaround time was requested for this work.

The following report consists of a Sample Inventory (Section I), Analytical Results (Section II) and the Appendix. The Appendix contains a copy of the chain-of-custody, a list of data qualifiers and abbreviations, our current certifications and copies of the raw data (if requested).

If you have any questions regarding this report please feel free to contact me.

Sincerely,

Robert S. Mitzel Vice-President of HRMS Operations

Alta Analytical Laboratory Inc. 5070 Robert J. Mathews Parkway El Dorado Hills, CA 95762 FAX (916) 933-0940 (916) 933-1640



## Section I: Sample Inventory Report Date Received: 7/25/00

### Alta Lab. ID

## <u>Client Sample ID</u>

8844-001

8844-002

001 INTAKE COMP

### 001 DISCHARGE COMP

00073



# SECTION II.

| Method Blank      |                   | Date Extrac | ted: <u>8/1/00</u>   |               | Lab ID: | <u>MB001</u> |
|-------------------|-------------------|-------------|----------------------|---------------|---------|--------------|
| Matrix:           | <u>Aqueous</u>    | Sample Ame  | ount: <u>1.000 I</u> | <del></del>   | QC Set: | 830          |
| TEQ (Min-Max)     | : <u>0 - 10.9</u> |             |                      |               | Units:  | pg/L         |
| <u>Compound</u>   |                   | Conc.       | <u>DL</u> ۵          | <u>EMPC</u> ۵ | MDL d   | Qualifier    |
| 2,3,7,8-TCDD      |                   | ND          | 2.96                 |               | 0.711   |              |
| 1,2,3,7,8-PeCDD   |                   | ND          | 3.31                 |               | 2.53    |              |
| 1,2,3,4,7,8-HxCD  | D                 | ND          | 4.35                 |               | 2.76    |              |
| 1,2,3,6,7,8-HxCD  | D                 | ND          | 4.09                 |               | 1.46    |              |
| 1,2,3,7,8,9-HxCD  | D                 | ND          | 4.12                 |               | 2.49    |              |
| 1,2,3,4,6,7,8-HpC | CDD               | ND          | 7.24                 |               | 2.97    |              |
| OCDD              |                   | ND          | 14.1                 |               | 6.93    |              |
| 2,3,7,8-TCDF      |                   | ND          | 5.00                 |               | 0.243   |              |
| 1,2,3,7,8-PeCDF   |                   | ND          | 7.46                 |               | 5.42    |              |
| 2,3,4,7,8-PeCDF   |                   | ND          | 5.30                 |               | 4.42    |              |
| 1,2,3,4,7,8-HxCD  | F                 | ND          | 3.30                 |               | 4.24    |              |
| 1,2,3,6,7,8-HxCD  | F                 | ND          | 3.14                 |               | 2.43    |              |
| 2,3,4,6,7,8-HxCD  | F                 | ND          | 3.26                 |               | 3.06    |              |
| 1,2,3,7,8,9-HxCD  | F                 | ND          | 3.96                 |               | 1.80    |              |
| 1,2,3,4,6,7,8-НрС | DF                | ND          | 2.94                 |               | 2.02    |              |
| 1,2,3,4,7,8,9-НрС | DF                | ND          | 3.33                 |               | 3.62    |              |
| OCDF              |                   | ND          | 8.66                 |               | 4.39    |              |
| Total TCDD        |                   | ND          | 2.96                 |               |         |              |
| Total PeCDD       |                   | ND          | 3.31                 |               |         |              |
| Total HxCDD       |                   | ND          | 4.17                 |               |         |              |
| Total HpCDD       |                   | ND          | 7.24                 |               |         |              |
| Total TCDF        |                   | ND          | 5.00                 |               |         |              |
| Total PeCDF       |                   | ND          | 6.27                 |               |         |              |
| Total HxCDF       |                   | ND          | 3.40                 |               |         |              |
| Total HpCDF       |                   | ND          | 3.13                 |               |         |              |

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| Method Blank               |           |          | QC Set: 830      |
|----------------------------|-----------|----------|------------------|
| Lab ID: <u>MB001</u>       |           |          |                  |
| Internal Standards         | <u>%R</u> | LCL-UCL  | <u>Qualifier</u> |
| 13C-2,3,7,8-TCDD           | 39.5      | 40 - 135 |                  |
| 13C-1,2,3,7,8-PeCDD        | 50.7      | 40 - 135 |                  |
| 13C-1,2,3,4,7,8-HxCDD      | 49.1      | 40 - 135 |                  |
| 13C-1,2,3,6,7,8-HxCDD      | 52.2      | 40 - 135 |                  |
| 13C-1,2,3,4,6,7,8-HpCDD    | 69.2      | 40 - 135 |                  |
| 13C-OCDD                   | 62.0      | 40 - 135 |                  |
| 13C-2,3,7,8-TCDF           | 41.8      | 40 - 135 |                  |
| 13C-1,2,3,7,8-PeCDF        | 52.3      | 40 - 135 |                  |
| 13C-2,3,4,7,8-PeCDF        | 59.5      | 40 - 135 |                  |
| 13C-1,2,3,4,7,8-HxCDF      | 47.5      | 40 - 135 |                  |
| 13C-1,2,3,6,7,8-HxCDF      | 43.3      | 40 - 135 |                  |
| 13C-2,3,4,6,7,8-HxCDF      | 46.3      | 40 - 135 |                  |
| 13C-1,2,3,7,8,9-HxCDF      | 58.7      | 40 - 135 |                  |
| 13C-1,2,3,4,6,7,8-HpCDF    | 59.2      | 40 - 135 |                  |
| 13C-1,2,3,4,7,8,9-HpCDF    | 78.9      | 40 - 135 |                  |
| 13C-OCDF                   | 59.1      | 40 - 135 |                  |
| Clean-up Recovery Standard |           |          |                  |
| 37Cl-2,3,7,8-TCDD          | 61.3      | 40 - 135 |                  |
| Analysis Dates             |           |          |                  |

Analysis Dates DB-5: 8/4/00

a. Toxic Equivalent Quotient (TEQ) based on USEPA Toxic Equivalent Factors.

b. Sample specific estimated detection limit.

c. Estimated maximum possible concentration

d. Method Detection Limit

e. Lower Control Limit - Upper Control Limit



| OPR RESULTS<br>Lab ID: <u>OPR001</u><br>Matrix: <u>Aqueous</u> | Date Recei<br>Date Extra<br>Sample Ar | QC Set: <u>830</u><br>Units: <u>ng/mL</u> |                   |  |  |  |
|----------------------------------------------------------------|---------------------------------------|-------------------------------------------|-------------------|--|--|--|
| Compound                                                       | Spike                                 | Conc.                                     |                   |  |  |  |
| Compound                                                       | Conc.                                 | Found                                     | <u>OPR Limits</u> |  |  |  |
| 2,3,7,8-TCDD                                                   | 10.0                                  | 8.36                                      | 7 - 13            |  |  |  |
| 1,2,3,7,8-PeCDD                                                | 50.0                                  | 47.5                                      | 35 - 65           |  |  |  |
| 1,2,3,4,7,8-HxCDD                                              | 50.0                                  | 49.0                                      | 35 - 65           |  |  |  |
| 1,2,3,6,7,8-HxCDD                                              | 50.0                                  | 50.0                                      | 35 - 65           |  |  |  |
| 1,2,3,7,8,9-HxCDD                                              | 50.0                                  | 55.6                                      | 35 - 65           |  |  |  |
| 1,2,3,4,6,7,8-HpCDD                                            | 50.0                                  | 48.7                                      | 35 - 65           |  |  |  |
| OCDD                                                           | 100                                   | 98.1                                      | 70 - 130          |  |  |  |
| 2,3,7,8-TCDF                                                   | 10.0                                  | 9.58                                      | 7 - 13            |  |  |  |
| 1,2,3,7,8-PeCDF                                                | 50.0                                  | 47.5                                      | 35 - 65           |  |  |  |
| 2,3,4,7,8-PeCDF                                                | 50.0                                  | 47.2                                      | 35 - 65           |  |  |  |
| 1,2,3,4,7,8-HxCDF                                              | 50.0                                  | 46.7                                      | 35 - 65           |  |  |  |
| 1,2,3,6,7,8-HxCDF                                              | 50.0                                  | 46.4                                      | 35 - 65           |  |  |  |
| 2,3,4,6,7,8-HxCDF                                              | 50.0                                  | 49.3                                      | 35 - 65           |  |  |  |
| 1,2,3,7,8,9-HxCDF                                              | 50.0                                  | 48.2                                      | 35 - 65           |  |  |  |
| 1,2,3,4,6,7,8-HpCDF                                            | 50.0                                  | 47.4                                      | 35 - 65           |  |  |  |
| 1,2,3,4,7,8,9-HpCDF                                            | 50.0                                  | 44.7                                      | 35 - 65           |  |  |  |
| OCDF                                                           | 100                                   | · 94.8                                    | 70 - 130          |  |  |  |

| <b>OPR RE</b> | SULTS         |
|---------------|---------------|
| Lab ID:       | <u>OPR001</u> |

**QC Set:** <u>830</u>

|                                   | Spike |           |                   |
|-----------------------------------|-------|-----------|-------------------|
| Internal Standards                | Conc. | <u>%R</u> | <b>OPR</b> Limits |
| 13C-2,3,7,8-TCDD                  | 100   | 49.5      | 40 - 135          |
| 13C-1,2,3,7,8-PeCDD               | 100   | 54.6      | 40 - 135          |
| 13C-1,2,3,4,7,8-HxCDD             | 100   | 49.6      | 40 - 135          |
| 13C-1,2,3,6,7,8-HxCDD             | 100   | 54.9      | 40 - 135          |
| 13C-1,2,3,4,6,7,8-HpCDD           | 100   | 69.2      | 40 - 135          |
| 13C-OCDD                          | 200   | 69.3      | 40 - 135          |
| 13C-2,3,7,8-TCDF                  | 100   | 52.0      | 40 - 135          |
| 13C-1,2,3,7,8-PeCDF               | 100   | 57.0      | 40 - 135          |
| 13C-2,3,4,7,8-PeCDF               | 100   | 64.1      | 40 - 135          |
| 13C-1,2,3,4,7,8-HxCDF             | 100   | 48.5      | 40 - 135          |
| 13C-1,2,3,6,7,8-HxCDF             | 100   | 49.4      | 40 - 135          |
| 13C-2,3,4,6,7,8-HxCDF             | 100   | 50.3      | 40 - 135          |
| 13C-1,2,3,7,8,9-HxCDF             | 100   | 61.7      | 40 - 135          |
| 13C-1,2,3,4,6,7,8-HpCDF           | 100   | 65.5      | 40 - 135          |
| 13C-1,2,3,4,7,8,9-HpCDF           | 100   | 79.5      | 40 - 135          |
| 13C-OCDF                          | 200   | 59.2      | 40 - 135          |
|                                   | Spike |           |                   |
| <u>Clean-up Recovery Standard</u> | Conc. | <u>%R</u> | <b>OPR Limits</b> |
| 37Cl-2,3,7,8-TCDD                 | 40.0  | 65.9      | 40 - 135          |

<u>Analysis Dates</u> DB-5: <u>8/4/00</u>

<u>J</u>M

| Sample ID:                 | <u>001 INTAKE</u> | COMP           |                 |               | Lab ID: <u>884</u>    | <u>4-001</u>     |
|----------------------------|-------------------|----------------|-----------------|---------------|-----------------------|------------------|
| Project:                   | <u>K2005315</u>   |                |                 |               | OC Set: <u>830</u>    | 2                |
| Matrix:                    | <u>Aqueous</u>    | Date Received: | 7/25/00         |               | % Solids: <u>3.34</u> | <u>1</u>         |
| Sample Amount              | : <u>1.021 L</u>  | Date Extracted | : <u>8/1/00</u> |               | Units: <u>pg/l</u>    | _                |
| <sup>a</sup> TEQ (Min-Max) | : <u>0 - 6.54</u> |                |                 |               |                       |                  |
| <u>Compound</u>            | ÷                 | Conc.          | DL <sup>b</sup> | ۵ <u>EMPC</u> | MDL d                 | <u>Qualifier</u> |
| 2,3,7,8-TCDD               |                   | ND             | 2.07            |               | 0.711                 |                  |
| 1,2,3,7,8-PeCDD            | )                 | ND             | 2.78            | •             | 2.53                  |                  |
| 1,2,3,4,7,8-HxCI           | DD                | ND             | 3.45            |               | 2.76                  |                  |
| 1,2,3,6,7,8-HxCI           | DD                | ND             | 3.46            |               | 1.46                  |                  |
| 1,2,3,7,8,9-HxCI           | )D                | ND             | 3.42            |               | 2.49                  |                  |
| 1,2,3,4,6,7,8-Hp           | CDD               | ND             | 4.35            |               | 2.97                  |                  |
| OCDD                       |                   | ND             | 18.4            |               | 6.93                  |                  |
| 2,3,7,8-TCDF               |                   | ND             | 1.62            |               | 0.243                 |                  |
| 1,2,3,7,8-PeCDF            |                   | ND             | 2.15            |               | 5.42                  |                  |
| 2,3,4,7,8-PeCDF            |                   | ND             | 2.10            |               | 4.42                  |                  |
| 1,2,3,4,7,8-HxCI           | )F                | ND             | 1.45            | •             | 4.24                  |                  |
| 1,2,3,6,7,8-HxCE           | )F                | ND             | 1.45            |               | 2.43                  |                  |
| 2,3,4,6,7,8-HxCI           | )F                | ND             | 1.44            |               | 3.06                  |                  |
| 1,2,3,7,8,9-HxCE           | )F                | ND             | 2.03            |               | 1.80                  |                  |
| 1,2,3,4,6,7,8-HpC          | CDF               | ND             | 1.14            |               | 2.02                  | •                |
| 1,2,3,4,7,8,9-HpC          | CDF               | ND             | 1.43            |               | 3.62                  |                  |
| OCDF                       |                   | ND             | 6.03            |               | 4.39                  |                  |
|                            |                   |                |                 |               |                       |                  |
| Total TCDD                 |                   | ND             | 2.07            |               |                       |                  |
| Total PeCDD                |                   | ND             | 2.78            |               |                       |                  |
| Total HxCDD                |                   | ND             | 3.46            |               |                       |                  |
| Total HpCDD                |                   | ND             | 4.35            |               |                       |                  |
| Total TCDF                 |                   | ND             | 1.62            |               |                       |                  |
| <b>Total PeCDF</b>         |                   | ND             | 2.13            |               |                       |                  |
| Total HxCDF                |                   | ND             | 1.58            |               |                       |                  |
| <b>Total HpCDF</b>         |                   | ND             | 1.27            |               |                       |                  |



Sample ID: 001 INTAKE COMP

Lab ID: <u>8844-001</u>

| Internal Standards         | <u>%R</u> | LCL-UCL <sup>e</sup> | <u>Qualifier</u> |
|----------------------------|-----------|----------------------|------------------|
| 13C-2,3,7,8-TCDD           | 68.2      | 40 - 135             |                  |
| 13C-1,2,3,7,8-PeCDD        | 74.4      | 40 - 135             |                  |
| 13C-1,2,3,4,7,8-HxCDD      | 78.0      | 40 - 135             |                  |
| 13C-1,2,3,6,7,8-HxCDD      | 67.9      | 40 - 135             |                  |
| 13C-1,2,3,4,6,7,8-HpCDD    | 74.5      | 40 - 135             |                  |
| 13C-OCDD                   | 48.7      | 40 - 135             |                  |
| 13C-2,3,7,8-TCDF           | 66.4      | 40 - 135             |                  |
| 13C-1,2,3,7,8-PeCDF        | 79.8      | 40 - 135             |                  |
| 13C-2,3,4,7,8-PeCDF        | 74.9      | 40 - 135             |                  |
| 13C-1,2,3,4,7,8-HxCDF      | 76.6      | 40 - 135             | •                |
| 13C-1,2,3,6,7,8-HxCDF      | 64.3      | 40 - 135             |                  |
| 13C-2,3,4,6,7,8-HxCDF      | 70.4      | 40 - 135             |                  |
| 13C-1,2,3,7,8,9-HxCDF      | 83.4      | 40 - 135             |                  |
| 13C-1,2,3,4,6,7,8-HpCDF    | 73.0      | 40 - 135             |                  |
| 13C-1,2,3,4,7,8,9-HpCDF    | 85.7      | 40 - 135             |                  |
| 13C-OCDF                   | 45.1      | 40 - 135             |                  |
| Clean-up Recovery Standard |           |                      |                  |
| 37Cl-2,3,7,8-TCDD          | 90.1      | 40 - 135             |                  |
| Analysis Dates             |           |                      |                  |

DB-5: <u>8/4/00</u> DB-225: <u>NA</u>

a. Toxic Equivalent Quotient (TEQ) based on USEPA Toxic Equivalent Factors.

. b. Sample specific estimated detection limit.

c. Estimated maximum possible concentration

d. Method Detection Limit

e. Lower control limit - upper control limit



| Sample ID:                 | 001 DISCHA         | <u>RGE COMP</u> |                 |               | Lab ID: <u>8844</u>       | <u>4-002</u>     |
|----------------------------|--------------------|-----------------|-----------------|---------------|---------------------------|------------------|
| Project:                   | <u>K2005315</u>    |                 |                 |               | <b>OC Set:</b> <u>830</u> |                  |
| Matrix:                    | <u>Aqueous</u>     | Date Received:  | <u>7/25/00</u>  |               | % Solids: <u>3.52</u>     | i.               |
| Sample Amount              | : <u>1.023 L</u>   | Date Extracted: | <u>8/1/00</u>   |               | Units: pg/L               | <u>×</u>         |
| <sup>a</sup> TEQ (Min-Max) | ): <u>0 - 5.11</u> |                 |                 |               |                           |                  |
| Compound                   |                    | Conc.           | DL <sup>b</sup> | ۵ <u>EMPC</u> | MDL d                     | <u>Qualifier</u> |
| 2,3,7,8-TCDD               |                    | ND              | 1.14            |               | 0.711                     |                  |
| 1,2,3,7,8-PeCDD            | )                  | ND              | 1.85            |               | 2.53                      |                  |
| 1,2,3,4,7,8-HxCI           | DD                 | ND              | 2.53            |               | 2.76                      |                  |
| 1,2,3,6,7,8-HxCI           | DD                 | ND              | 2.30            |               | 1.46                      |                  |
| 1,2,3,7,8,9-HxCI           | DD                 | ND              | 2.38            |               | 2.49                      |                  |
| 1,2,3,4,6,7,8-HpC          | CDD                | ND              | 4.47            |               | 2.97                      |                  |
| OCDD                       |                    | ND              | 20.0            |               | 6.93                      |                  |
| 2,3,7,8-TCDF               |                    | ND              | 1.90            |               | 0.243                     |                  |
| 1,2,3,7,8-PeCDF            |                    | ND              | 2.37            |               | 5.42                      |                  |
| 2,3,4,7,8-PeCDF            |                    | ND              | 2.54            |               | 4.42                      |                  |
| 1,2,3,4,7,8-HxCE           | )F                 | ND              | 1.48            |               | 4.24                      |                  |
| 1,2,3,6,7,8-HxCD           | )F                 | ND              | 1.55            |               | 2.43                      |                  |
| 2,3,4,6,7,8-HxCD           | )F                 | ND              | 1.54            |               | 3.06                      |                  |
| 1,2,3,7,8,9-HxCD           | )F                 | ND              | 1.97            |               | 1.80                      |                  |
| 1,2,3,4,6,7,8-НрС          | CDF                | ND 0.           | .921            |               | 2.02                      |                  |
| 1,2,3,4,7,8,9-HpC          | CDF                | ND              | 1.31            |               | 3.62                      |                  |
| OCDF                       |                    | ND              | 6.96            |               | 4.39                      |                  |
|                            |                    |                 |                 |               |                           |                  |
| Total TCDD                 |                    | ND 2            | 1.14            |               |                           |                  |
| Total PeCDD                |                    | ND 1            | 1.85            |               |                           |                  |
| Total HxCDD                |                    | ND 2            | 2.41            |               |                           |                  |
| Total HpCDD                |                    | ND 4            | 4.47            |               |                           |                  |
| Total TCDF                 |                    | ND 1            | L.90            |               |                           |                  |
| <b>Total PeCDF</b>         |                    | ND 2            | 2.45            |               |                           |                  |
| <b>Total HxCDF</b>         |                    | ND 1            | 1.63            |               |                           |                  |
| <b>Total HpCDF</b>         |                    | ND 1            | L.09            |               |                           |                  |

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### Sample ID: 001 DISCHARGE COMP

Lab ID: 8844-002

| Internal Standards                | <u>%R</u> | LCL-UCL <sup>e</sup> | <b>Qualifier</b> |
|-----------------------------------|-----------|----------------------|------------------|
| 13C-2,3,7,8-TCDD                  | 69.0      | 40 - 135             |                  |
| 13C-1,2,3,7,8-PeCDD               | 79.4      | 40 - 135             |                  |
| 13C-1,2,3,4,7,8-HxCDD             | 80.3      | 40 - 135             |                  |
| 13C-1,2,3,6,7,8-HxCDD             | 66.9      | 40 - 135             |                  |
| 13C-1,2,3,4,6,7,8-HpCDD           | 82.6      | 40 - 135             |                  |
| 13C-OCDD                          | 63.6      | 40 - 135             |                  |
| 13C-2,3,7,8-TCDF                  | 69.9      | 40 - 135             |                  |
| 13C-1,2,3,7,8-PeCDF               | 83.9      | 40 - 135             |                  |
| 13C-2,3,4,7,8-PeCDF               | 75.5      | 40 - 135             |                  |
| 13C-1,2,3,4,7,8-HxCDF             | 78.8      | 40 - 135             |                  |
| 13C-1,2,3,6,7,8-HxCDF             | 68.5      | 40 - 135             |                  |
| 13C-2,3,4,6,7,8-HxCDF             | 70.7      | 40 - 135             |                  |
| 13C-1,2,3,7,8,9-HxCDF             | 84.7      | 40 - 135             |                  |
| 13C-1,2,3,4,6,7,8-HpCDF           | 79.1      | 40 - 135             |                  |
| 13C-1,2,3,4,7,8,9-HpCDF           | 87.2      | 40 - 135             | ·                |
| 13C-OCDF                          | 52.8      | 40 - 135             |                  |
| <u>Clean-up Recovery Standard</u> |           |                      |                  |
| 37Cl-2,3,7,8-TCDD                 | 87.5      | 40 - 135             |                  |
| Analysis Dates                    |           |                      |                  |

DB-5: 8/5/00

DB-225: <u>NA</u>

a. Toxic Equivalent Quotient (TEQ) based on USEPA Toxic Equivalent Factors.b. Sample specific estimated detection limit.

c. Estimated maximum possible concentration

d. Method Detection Limit

e. Lower control limit - upper control limit

ALTA

## APPENDIX

# **DATA QUALIFIERS & ABBREVIATIONS**

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| Α | The amount detected is below the Method<br>Calibration Limit.                                        |
|---|------------------------------------------------------------------------------------------------------|
| В | This compound was also detected in the blank.                                                        |
| С | The amount detected is less than five times the Method Quantitation Limit.                           |
| D | The amount reported is the maximum possible concentration.                                           |
| E | The detection limit was raised above the Method Quantitation<br>Limit due to chemical interferences. |
| F | This result has been confirmed on a DB-225 column.                                                   |
| G | This result has been confirmed on a SP-2331 column.                                                  |
| н | The signal-to-noise ratio is greater than 10:1.                                                      |
| I | Chemical Interference                                                                                |

Conc. Concentration

- D.L. Detection Limit
- NA Not applicable
- S/N Signal-to-noise
- \* See Cover Letter
- ND Not Detected
- MPC Maximum Possible Concentration

# CURRENT CERTIFICATIONS



|       |                                                                                                            |                                                  |                  | CH                                                                                      | AIN                                                                                    | OF C                                                                 | US         | TOE                                                                               | )Y/L                                                                                               | .AE                                                                     | BOF                          | TAF                        | ΌĘ  | RY       | AN | AĽ | YSI  | SR                                  | REC                                    | UE:        | st fof   | RM             |
|-------|------------------------------------------------------------------------------------------------------------|--------------------------------------------------|------------------|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------|------------|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|------------------------------|----------------------------|-----|----------|----|----|------|-------------------------------------|----------------------------------------|------------|----------|----------------|
|       | An Employee Co. J Company 1317 S                                                                           | outh 13th Ave. • Kelso                           | , WA 98626 • (36 | D) 577-7222 •                                                                           | (800) €                                                                                | 95-                                                                  | FAX (3     | 60) 636                                                                           | -1068                                                                                              |                                                                         | DA                           | ATE                        | 7/· | 24       | ω  |    | PAGE | :                                   | (                                      | (          |          |                |
|       | PROJECT NAME<br>PROJECT MANAGER<br>COMPANY/ADDRESS<br>POBUX<br><br>KELSO W<br>SAMPLERS SIGNATURE<br>SAMPLE | 4 479<br>A 9862C PHO                             | NESAM            |                                                                                         | ·                                                                                      | ×                                                                    |            |                                                                                   |                                                                                                    |                                                                         |                              |                            |     | REQU     |    |    |      | /                                   | /                                      | //         | /        |                |
|       | 1.D. DATE                                                                                                  | TIME $T_{\mu}$                                   |                  | RIX Z                                                                                   |                                                                                        | $\mathcal{A}$                                                        | $\vdash$   | //                                                                                | /                                                                                                  | -                                                                       | /                            |                            |     | <u> </u> | /  | /  | /    | /                                   | $\vdash$                               | /<br>  K53 | REMARKS  | $\overline{f}$ |
| ľ     | XI Discharge                                                                                               | ms 7/19                                          |                  | 1                                                                                       | 2                                                                                      |                                                                      |            |                                                                                   |                                                                                                    |                                                                         |                              |                            |     |          |    |    |      |                                     |                                        | Ĵ          | -02      | 3              |
|       |                                                                                                            |                                                  |                  |                                                                                         |                                                                                        |                                                                      |            |                                                                                   |                                                                                                    |                                                                         |                              |                            |     |          |    |    |      |                                     | .<br>                                  |            |          | _              |
|       |                                                                                                            |                                                  |                  |                                                                                         |                                                                                        |                                                                      |            |                                                                                   |                                                                                                    |                                                                         |                              |                            |     |          |    |    |      |                                     |                                        |            |          |                |
|       |                                                                                                            |                                                  | •                |                                                                                         |                                                                                        |                                                                      |            |                                                                                   |                                                                                                    |                                                                         |                              |                            |     |          |    |    |      |                                     |                                        |            |          |                |
|       |                                                                                                            |                                                  |                  |                                                                                         |                                                                                        |                                                                      |            |                                                                                   |                                                                                                    | _                                                                       |                              | _                          |     |          |    |    |      |                                     |                                        |            |          |                |
|       |                                                                                                            |                                                  |                  |                                                                                         |                                                                                        |                                                                      |            |                                                                                   |                                                                                                    |                                                                         |                              |                            |     |          |    |    |      |                                     |                                        |            |          |                |
|       |                                                                                                            | DECENT                                           |                  | TURNAROUN                                                                               |                                                                                        |                                                                      |            |                                                                                   |                                                                                                    |                                                                         |                              |                            |     |          |    |    |      |                                     |                                        |            |          |                |
| ( )   | Firm 7/20/0500                                                                                             | Printed Name<br>ACTA<br>Firm7-25-02<br>Date/Time | ) 1000           | LURNAROUN     24 hr     Standard     Provide V     Results     Provide F Requested Repo | AB REQU<br>48 hr.<br>(10-15 wo<br>'erbal Preli<br>erbal Preli<br>AX prelimi<br>rt Date | IREMENTS<br>5 day<br>rking days)<br>minary<br>minary<br>nary Results |            | I. Routin<br>H. Report<br>MSD, a<br>charge<br>III. Data V<br>(inclue<br>IV. CLP E | REQUI<br>e Report<br>(includes<br>as require<br>ed as san<br>/alidation<br>des All R<br>Deliverabl | REMEN<br>s DUP.N<br>ed, may<br>pples)<br>Report<br>aw Data<br>le Report | NTS<br>IS.<br>be<br>I)<br>rt | P.O. <b>#_U</b><br>Bill To |     |          |    | 5A |      | Shippi<br>Shippi<br>Condit<br>Lab N | S<br>ing VIA:<br>ing #:<br>tion:<br>o: |            | ieceipt: | <br><br>75     |
|       | RELINQUISHED BY:                                                                                           | RECEIVE                                          | D BY:            | SPECIAL IN                                                                              | ISTRU                                                                                  | CTIONS/C                                                             | OMME       | NTS:                                                                              |                                                                                                    | <u> </u>                                                                |                              |                            |     |          |    |    |      | <b>↓</b>                            |                                        |            |          |                |
|       | Signature<br>Printed Name                                                                                  | Signature<br>Printed Name                        |                  | *T                                                                                      | ion                                                                                    | < in                                                                 | يني<br>محت | \                                                                                 | 617                                                                                                | 3                                                                       | 07                           | ~ <                        | 80  | 291      | Ċ  | ť  | -    | -                                   | T                                      | CD         | D Equir  | si lev         |
| 20020 | Firm<br>Date/Time                                                                                          | Firm<br>Date/Time                                |                  |                                                                                         | × Ĺ                                                                                    | - 4                                                                  | K          | 47                                                                                | 74                                                                                                 |                                                                         |                              |                            |     |          |    |    |      |                                     |                                        |            | Ŷ        |                |

DISTRIBUTION: WHITE - return to originator; YELLOW - lab: PINK - retained by originator

## Attachment 10.B.1

| SAMPLE LOG-IN CHECKLIST                                                                                                                                  |                   |           |                                        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-----------|----------------------------------------|
| ALTA Project No.: <u>8844</u> Client/Protocol No. <u>N/A</u>                                                                                             | L                 |           |                                        |
| 1. Date Samples Arrived: 7-25-CTO Initials: Mike Loc                                                                                                     | ation: <i>l</i>   | NR-1      |                                        |
| 2. Time / Date logged in: 7-25-00 /020 Initials: Mr. Loc                                                                                                 | ation:            | JR-1      | /                                      |
| 3. Samples Arrived By: (circle) FedEx UPS World Courier Other:                                                                                           |                   |           |                                        |
| 4. Shipping Preservation: (circle) Ice / Blue Ice ) Dry Ice / None Temp °C                                                                               |                   |           | ······································ |
| 5. Shipping Container(s) Intact"? If not, describe condition in comment section.                                                                         | YES               | NO        | NA                                     |
| <ol> <li>Shipping Container(s) Custody Seals Present?</li> <li>Intact? If not intact, describe condition in comment section.</li> </ol>                  | X                 | +         |                                        |
| 7. Shipping Documentation Present? (circle) Shipping Label Airbill<br>Tracking Number 129736590446171452                                                 | $  \neq   \times$ |           |                                        |
| 8. Sample Custody Seal(s) Present? No. of Seals or Seal No<br>Intact? If not intact, describe condition in comment section.                              |                   | X         |                                        |
| 9. Sample Container Intact? If no, indicate sample condition in comment section.                                                                         | X                 |           |                                        |
| 10. Chain of Custody (COC) or other Sample Documentation Present?                                                                                        |                   |           |                                        |
| 11. COC/Documentation Acceptable? If no, complete COC Anomaly Form.                                                                                      | ¥                 |           |                                        |
| 12. Shipping Container (circle): ALTA Client Retain or Return or Di                                                                                      | sposed            | I         |                                        |
| 13. Container(s) and/or Bottle(s) Requested?                                                                                                             | 1                 | $\times$  | {                                      |
| 14. Sample Control Check In/Out Log Completed? (HRMS Only)                                                                                               | 5                 | $\leq$    |                                        |
| 15. Drinking Water Sample? (HRMS Only) If yes, Acceptable Preservation? Y or N<br>Preservation Info From? (circle) COC or Sample Container or None Noted |                   | · · · · · | ×                                      |
| 16. Number of Samples Received:                                                                                                                          | []                | L         |                                        |

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Name:

(Signature Required for LCMS Only)

Date Samples Reconciled:

Comments:

# APPENDIX D RADIOCHEMISTRY RESULTS



August 18, 2000

Jeff Christian Columbia Analytical Services 1317 So. 13th Ave. Kelso, WA 98626

Project: L28358

Dear Jeff Christian:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on July 25, 2000. This project has been assigned to ACZ's project number, L28358. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan, version 7.0. The enclosed results relate only to the samples received under L28358.

Please assess the enclosed report only in its entirety. ACZ prohibits the reproduction of this report, except in full, without the written approval of ACZ. ACZ is not responsible for the consequences arising from the use of a partial report.

If you have any questions, please contact your Project Manager or Customer Service Representative.

Sincerely,

ACZ Laboratories, Inc.

Document Control

PAGE 1 of

Columbia Analytical Services 1317 So. 13th Ave. Kelso, WA 98626 Jeff Christian

| ACZ Project ID:    | L28358         |
|--------------------|----------------|
| Client Project ID: | PG and E NPDES |
| ACZ Report ID:     | RG126364       |
|                    |                |
| Date Sampled:      | 7/18/00        |
| Date Received:     | 7/25/00        |
| Date Reported:     | 8/17/00        |

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| 407 10     | Clout ID      |              |                   |        |            |      |              | Pi     | reparation |          |        | Analysis |         |
|------------|---------------|--------------|-------------------|--------|------------|------|--------------|--------|------------|----------|--------|----------|---------|
| 1.28258.01 |               | MATLA        | Parantefer        | Result | Error(+/-) | MDA  | Units        | Method | Date       | Analyst  | Method | Data     | Amilton |
| L28338-01  | 002 Discharge | Ground Water | Gross Alpha       | 0.0    | 290        | 270  | pCi/L        | Method | 7/26/00    | ni       | M0210  | 7/28/00  | Auanyst |
|            |               |              | Gross Beta        | 460    | 290        | 430  | pCi/L        | Method | 7/26/00    | -;<br>th | M9310  | 7/28/00  | gb      |
|            |               |              | Radium 226        | 0.1    | 0.2        | 07   | nCi/l        | Method | 7/20/00    | Ld       | M9310  | 7/28/00  | gb      |
|            |               |              | Radium 228, total | 0.6    | 1.3        | 29   | рси<br>nCi/I | Method | //26/00    | pj       | M9315  | 8/1/00   | pj      |
| 1.28358-02 | 003 Discharge | Convert 1977 | <b>6</b>          |        |            | 2.7  | henr'        | Method | 8/11/00    | cbr      | M9320  | 8/15/00  | cbr     |
| 220550-02  | 005 Discharge | Ground water | Gross Alpha       | 0.0    | 320        | 270  | pCi/L        | Method | 7/26/00    | ni       | M0210  | 7/20/00  |         |
|            |               | Gross Beta   | Gross Beta        | 550    | 290        | 420  | pCi/L        | Method | 7/26/00    | PJ<br>ni | M0210  | 7/28/00  | gb      |
|            | •             |              | Radium 226        | 0.0    | 0.21       | 0.71 | nCi/L        | Method | 7/26/00    | -1       | M9310  | //28/00  | gb      |
|            |               |              | Radium 228, total | 0.4    | 0.7        | 16   |              | Mathad | 7/20/00    | PJ       | M9315  | 8/1/00   | pj      |
|            |               |              |                   |        | ••••       | 1.0  | POND         | memod  | 8/11/00    | cbr      | M9320  | 8/15/00  | cbr     |

|     | Radiochemistry Notes                                                            |  |  |  |  |  |  |  |  |  |  |
|-----|---------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|--|
|     | MDA: Calculated sample specific Minimum Detectable Activity                     |  |  |  |  |  |  |  |  |  |  |
|     | Error(+/-): Calculated sample specific uncertainty                              |  |  |  |  |  |  |  |  |  |  |
|     | Solid matrices reported on a dry weight basis                                   |  |  |  |  |  |  |  |  |  |  |
| 2   | Preparation Method: "Method" indicates preparation defined in analytical method |  |  |  |  |  |  |  |  |  |  |
| 50  | Method Prefix Reference:                                                        |  |  |  |  |  |  |  |  |  |  |
| 207 | M = EPA SM = Standard Methods $D = ASTM$ RP = DOE ESM = DOE/ESM                 |  |  |  |  |  |  |  |  |  |  |
| ~   | REPRC001.98.01.02                                                               |  |  |  |  |  |  |  |  |  |  |

30400 Downhill Drive Steamboat Springs, CO 80487

| SAMPLE RECEIPT FORM                                                                                                                                    | •            |            | Page 1 of 2 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|------------|-------------|
| PROJECT #: <u>L2035E</u>                                                                                                                               | DATE         | = <u>7</u> | 25          |
| 1) Does this project require special handling procedures such as CLP protocol?                                                                         | (PNA)        | YES        | NO          |
| 2) Are the custody seals on the cooler intact?                                                                                                         | NA           | CYES       | NO          |
| 3) Are the custody seals on the sample containers intact?                                                                                              | NA,          | YES        | NO          |
| 4) Is there a Chain of Custody (COC), or other directive shipping papers present?                                                                      |              | VES        | NO          |
| 5) Is the COC complete?<br>Relinquished? Yes No Requested Analysis? Yes                                                                                | ::No         | ÆS         | NO          |
| 6) Is the COC in agreement with the samples received?<br># of Samples: Yes No Sample ID: Yes<br>Matrix: Yes No # of Containers: Yes                    | No<br>No     | YES        | ₹₽          |
| 7) Is there enough sample for all requested analysis?                                                                                                  |              | YES        | NO          |
| 8) Are all samples within holding times for requested analysis?                                                                                        |              | <b>VES</b> | NO          |
| 9) Were all sample containers received intact?                                                                                                         |              | YES        | NO          |
| 10) Are samples requiring no headspace, headspace free?                                                                                                | NA           | YES        | NO          |
| 11) Do the samples require a Foriegn Soils Permit Label or quarantine?                                                                                 |              | YES        | <b>B</b>    |
| Do samples require special disposal/hold considerations? Non-Hazardous: Yes No Hazardous: Yes No                                                       | Hold:        | moi        | nths        |
| Describe "NO" items (except #1, 11, & 12): $\#6$ DID NOT TECELOE<br>001 INTAKE<br>001 DISCHARGE<br>004 LI                                              | <del>;</del> |            |             |
| Vas the client contacted? Yes <u>No</u><br>If yes: <u>Date:</u> <u>7</u> <u>125</u> Name of person contacted:<br>Actions taken or client instructions: | SEFE         | CHLIST     | <u>AN.</u>  |
| Signature:                                                                                                                                             |              |            |             |

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FRMQA011.01.97.04

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Steamboar Springs, CO 80487

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| <b>1</b> 1 |                         |                                  | DISTRIBUTION      | : WHI                    | TE - retur                    | n to orig | ginator;                | YELL                | OW - la                   | ab: P               | <u></u><br>INK - 1 | etained  | by oth     | inator   |          |             |     |                      | <u> </u>   | <u>···&gt;</u> | <u> </u> |       |

ISTRIBUTION: WHITE - return to originator; YELLOW - lab; PINK - retained by originator

August 18, 2000

Jeff Christian Columbia Analytical Services 1317 So. 13th Ave. Kelso, WA 98626

Project: L28370

Dear Jeff Christian:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on July 26, 2000. This project has been assigned to ACZ's project number, L28370. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan, version 7.0. The enclosed results relate only to the samples received under L28370.

Please assess the enclosed report only in its entirety. ACZ prohibits the reproduction of this report, except in full, without the written approval of ACZ. ACZ is not responsible for the consequences arising from the use of a partial report.

If you have any questions, please contact your Project Manager or Customer Service Representative.

Sincerely,

ACZ Laboratories, Inc.

Mel.

Document Control

PAGE 1 of

ACZ Laboratories, Inc. 2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

**Columbia Analytical Services** 1317 So. 13th Ave. Kelso, WA .98626 Jeff Christian

## ACZ Project ID: L28370 Client Project ID: PG and E NPDES ACZ Report ID: RG126365 Date Sampled: 7/19/00 Date Received: 7/26/00

|            |               |              |                                         |        |            |      |               | 1        |            |          |          |          |         |
|------------|---------------|--------------|-----------------------------------------|--------|------------|------|---------------|----------|------------|----------|----------|----------|---------|
| ACZ ID     | Client ID     | Matrix       | Parameter                               | Result | Error(+/-) | MIDA | Inite         | [2<br>   | reparation |          |          | Analysis |         |
| L28370-01  | 001 Intake    | Ground Water | Gross Alpha                             | 22     | 250        | 270  | -Ci/I         | Digition | Date       | Analyst  | Method   | Date     | Analyst |
|            |               |              | Gross Beta                              | 160    | 290        | 270  | PCVL          | Method   | 7/31/00    | pj       | M9310    | 7/31/00  | pj      |
|            |               |              | Radium 226                              | 100    | 280        | 440  | pCi/L         | Method   | 7/31/00    | pj       | M9310    | 7/31/00  | Dİ      |
|            |               |              | Radium 220                              | 0.1    | 0.3        | 1    | pCi/L         | Method   | 8/1/00     | pi       | M9315    | 8/7/00   | chr     |
|            |               |              | Radium 228, total                       | 0.0    | 1.6        | 3.5  | pCi/L         | Method   | 8/11/00    | cbr      | M9320    | 8/15/00  | cbr     |
| L28370-02  | 001 Discharge | Ground Water | Gross Alpha                             | 110    | 260        | 270  | pCi/L         | · Method | 7/21/00    | :        | 1.000.00 |          |         |
|            |               |              | Gross Beta                              | 490    | 280        | 420  | рогд<br>•Сі/Т | Method   | 7/31/00    | pj       | M9310    | 7/31/00  | pj      |
|            |               |              | Radium 226                              | 04     | 04         | 420  | pear.         | Method   | 7/31/00    | pj       | M9310    | 7/31/00  | рj      |
|            |               |              | Radium 228 total                        | 0.4    | 0.4        | 1.1  | pCVL          | Method   | · 8/1/00   | pj       | M9315    | 8/7/00   | cbr     |
| 1 20270 02 |               |              | radiani 220, total.                     | 0.9    | 1.8        | 3.7  | pCi/L         | Method   | 8/11/00    | cbr      | M9320    | 8/15/00  | cbr     |
| L28370-03  | 004 Discharge | Ground Water | Gross Alpha                             | 8.5    | 210        | 270  | pCi/L         | Method   | 7/31/00    | ni       | M0210    | 7/21/00  |         |
|            |               |              | Gross Beta                              | 200    | 290        | 420  | nCi/L         | Method   | 7/21/00    | 11       | 1419310  | //31/00  | pj      |
|            |               |              | Radium 226                              | 0.1    | 04         | 11   | PCI/I         | Mediou   | //31/00    | Ld<br>Ld | M9310    | 7/31/00  | pj      |
|            |               |              | Radium 228, total                       | 0.0    | 1.6        | 1.1  | pent          | Method   | 8/1/00     | pj       | M9315    | 8/7/00   | cbr     |
|            |               |              | · • • • • • • • • • • • • • • • • • • • | 0.0    | 1.0        | 3.3  | pCi/L         | Method   | 8/11/00    | cbr      | M9320    | 8/15/00  | cbr     |

|   | Radiochemistry Notes                                                            |
|---|---------------------------------------------------------------------------------|
|   | MDA: Calculated sample specific Minimum Detectable Activity                     |
|   | Error(+/-): Calculated sample specific uncertainty                              |
| 2 | Solid matrices reported on a dry weight basis                                   |
| 5 | Preparation Method: "Method" indicates preparation defined in analytical method |
| 2 | Method Prefix Reference:                                                        |
| π | M = EPA SM = Standard Methods $D = ASTM$ RP = DOE ESM = DOE/ESM                 |

REPRC001.98.01.02
ACZ Laboratories, Inc. 30400 Downhill Drive Steamboat Springs, CO 80487

| SAMPLE RECEIPT FORM                                                               | •<br>• |          | Page 1 of 2 |
|-----------------------------------------------------------------------------------|--------|----------|-------------|
| CLIENT: <u>C45</u><br>PROJECT #: <u>28370</u>                                     | - 7-2  | -6-00    |             |
| 1) Does this project require special handling procedures such as CLP protocol?    | 67     | YES      | NO          |
| 2) Are the custody seals on the cooler intact?                                    | VES    | NO       |             |
| 3) Are the custody seals on the sample containers intact?                         | YES    | NO       |             |
| 4) Is there a Chain of Custody (COC), or other directive shipping papers present? |        | YES      | NO          |
| 5) Is the COC complete?                                                           |        | YES      | NO          |
| Relinquished? Yes No Requested Analysis? Yes                                      | ::No   | 10       |             |
| 6) Is the COC in agreement with the samples received?                             |        | YER      | NO          |
| # of Samples: Yes No Sample ID: Yes                                               | No     | Ø        |             |
| Matrix: Yes No # of Containers: Yes                                               | No     |          |             |
| 7) Is there enough sample for all requested analysis?                             |        | YES      | NO          |
| 3) Are all samples within holding times for requested analysis?                   | YES    | NO       |             |
| 9) Were all sample containers received intact?                                    | YES    | NO       |             |
| 10) Are samples requiring no headspace, headspace free?                           | YES    | NO       |             |
| 1) Do the samples require a Foriegn Soils Permit Label or quarantine?             | YES    | - Con    |             |
| o samples require special disposal/hold considerations?                           |        |          |             |
| Non-Hazardous: Yes No Hazardous: Yes No                                           | Hold:  | mon      | the         |
| Describe "NO" items (except #1, 11, & 12):                                        |        |          |             |
| Was the client contacted? Yes No                                                  |        |          |             |
| If yes: Date: Name of person contacted:                                           |        |          |             |
| Actions taken or client instructions:                                             |        |          |             |
|                                                                                   |        | ······   |             |
| Signature:                                                                        |        | <u> </u> |             |

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|        | SAMPLE RECEIPT FORM |          |       |            |              |                                       |                        |               |          |      |  |  |  |  |  |
|--------|---------------------|----------|-------|------------|--------------|---------------------------------------|------------------------|---------------|----------|------|--|--|--|--|--|
| INT:   | <u></u> A           | <u>s</u> |       |            |              |                                       | DAI                    | TE 7-2        | 26 - 6   | 200  |  |  |  |  |  |
|        | 8                   | 378      |       |            |              |                                       | ANALYS                 | T:            | <i>c</i> | ···  |  |  |  |  |  |
|        |                     | TEMP     | ERATU | RE VERIFIC | CATION S     | AMPLE (                               | CHECK (                | °C)           |          |      |  |  |  |  |  |
|        |                     | •        |       | CONTAINE   | R TEMP (°C   | RAD                                   |                        | •,            | •        |      |  |  |  |  |  |
|        |                     |          |       | ID         | 2° to 6°     | µR/hr                                 | -                      |               |          |      |  |  |  |  |  |
|        |                     |          |       | NA         | 6:20         | 136                                   | If contain             | er radioactiv | rity is  |      |  |  |  |  |  |
|        | •                   | •        |       |            | -            | <u> </u>                              | ≥ 25 µR∕I              | hr then each  | sample   |      |  |  |  |  |  |
|        |                     | •        |       |            |              |                                       | must be s              | creened.      |          |      |  |  |  |  |  |
|        |                     |          |       | L          |              | <u> </u>                              |                        |               |          |      |  |  |  |  |  |
|        | 1                   | PRESERV  | ATION | CHECK (pł  | -1) & RADI   | [OACTIV                               | TTY SCR                | EEN           |          |      |  |  |  |  |  |
| AMPLE  | R                   | G.       | Υ.    | YG         | В            | BG                                    | 0                      | т             | Р        | RAD  |  |  |  |  |  |
| (      |                     | <2       | < 2   | < 2        | < 2          | < 2                                   | < 2                    | > 12          | > 12     | μR/h |  |  |  |  |  |
| 2      |                     |          |       | +          |              |                                       |                        |               |          | T    |  |  |  |  |  |
| 3      |                     |          | ,     |            |              |                                       |                        |               |          |      |  |  |  |  |  |
|        | · · · · ·           |          |       | <u> </u>   |              |                                       | <u> </u>               |               |          |      |  |  |  |  |  |
|        |                     |          |       |            | +            |                                       |                        |               |          | ļ    |  |  |  |  |  |
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| PROJECT NAME PG+E                                        | E NP            | DES           |           |             |                                  |               | , <u> </u> | ΤΓ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 7                                                                    | $\int$         | 7                | 7      | 70             | 7                 | 7          | 7                                                    | 7            | 7                | $\overline{T}$      | 7                    | 7_          | 7          | T            | $\overline{TT}$  | 7 |
| PROJECT NUMBER                                           | / /             | n 1           |           | /           |                                  |               |            | 514                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ·/ ·                                                                 |                | 1 ]              | '      |                | 0 <sup>°</sup> /  | /<br>び /   | $\left  \begin{array}{c} U \\ g \end{array} \right $ | '            | / /              |                     |                      |             |            |              |                  |   |
| PROJECT MANAGER                                          | PROJECT MANAGER |               |           |             |                                  |               |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                      |                | SH<br>SH         |        | 8              |                   |            | <sup>elate</sup>                                     |              | 7 /4             |                     | 2/                   | 5           | , P        | $\mathbf{n}$ |                  |   |
| COMPANY/ADDRESS                                          | <u>v</u>        | -/ ä          | 1/3       |             |                                  | <i>ั</i> ้อไอ | × /3       | 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | S.                                                                   | <u></u>        | 8/1              | 7/ 1   |                | 1.5               |            | <u>e</u>                                             |              | $\tilde{s}$      | $\langle n \rangle$ | $\mathcal{A}$        |             |            |              |                  |   |
| Kelso UA 98(2) E ED                                      |                 |               |           |             |                                  |               |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1 E                                                                  | <u>בן ד</u> ר  |                  |        | 815            | a/ Nis            | 10         | isso,                                                | / Š          |                  |                     | י<br>ה'              |             | ¥`         | 1            |                  |   |
| PHONE # 360-577-707                                      | ູ ບິ /          | 82            |           | iesel       | er pi                            | 100           | 1 8        | J di<br>v di | :<br>::<br>::<br>::<br>::<br>::<br>::<br>::<br>::<br>::<br>::::::::: |                |                  | 23     | ן <u>ד</u> י א | 50                |            | \¥                                                   | $\mathbb{A}$ | ' /              | / /                 |                      |             |            |              |                  |   |
| SAMPLER'S SIGNATURE                                      | ~ 36            | 0-6.26-       | TUEC      | <u>}</u>    |                                  |               |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                      |                |                  |        |                | 831<br>6          |            |                                                      |              |                  |                     | <u>6</u> X           | Χ¥.         |            |              |                  |   |
|                                                          |                 | <b></b>       | r         |             |                                  |               |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                      | 2 8            | Stick<br>Stick   |        |                |                   |            | <sup>r</sup> list                                    |              |                  |                     | \$ <b>/</b> ]}       | K/          |            | /            | /                |   |
| SAMPLE I.D. DATE                                         | TIME            | LAB I.D.      | MATRIX    | <u>   ž</u> | 100                              | <u>  2%</u>   | 120        | 500                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <u>j</u> <u>ð</u>                                                    |                |                  | 8/8,0  | 7              | 0                 | 120        | 2/3                                                  |              | 15°C             | ŊŽ                  | /                    | 1           | /          | /            | / REMARKS        |   |
| Ul platale 1/9                                           |                 |               | Ho        | 2           |                                  |               |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                      |                |                  |        |                |                   |            |                                                      |              |                  |                     | ×                    |             |            |              |                  | 7 |
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| OUT Discharge                                            |                 |               |           | 2           |                                  |               |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                      |                |                  |        |                |                   |            | _                                                    |              |                  |                     | $\overline{\langle}$ |             | -          |              |                  |   |
| yr p                                                     |                 |               | <b>V</b>  |             |                                  |               |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                      | †              |                  |        |                |                   |            |                                                      |              |                  |                     | ×                    |             |            |              |                  |   |
| GOD Discharge 7/18                                       |                 | 1.<br>        | HO        | 1           |                                  |               |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                      |                |                  |        |                |                   |            |                                                      |              |                  |                     |                      |             |            |              |                  |   |
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| p                                                        |                 |               | H JA      |             |                                  |               |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                      |                |                  |        |                |                   |            |                                                      |              |                  |                     | *                    |             |            |              |                  |   |
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|                                                          | INVO            |               | MATION    |             |                                  |               |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                      |                | as               | 54     | <u>q</u> '·    | wr                | ed         |                                                      | 25           | +e_              | e t                 | te                   | <u>s+</u> { | na         | 7.           |                  | 7 |
| REPORT REQUIREMENTS                                      | P.O. #          |               |           |             | Circle                           | which n       | netals     | are to t                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | oe ana                                                               | lyzed;         |                  |        | $\mathcal{O}$  |                   |            |                                                      |              |                  |                     |                      |             | <          | 37-          |                  | 1 |
| Blank, Surrogate, as                                     | Bill To:        |               |           |             | Tota                             | al Metal:     | s: Al      | As S                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Sb Ba                                                                | a Be           | B Ca             | . Cd   | Co C           | r Cu              | Fe l       | РЬ М                                                 | g Mn         | Мо               | Ni K                | Ag                   | Na S        | ie Sr      | TIS          | in V Zn Ha       |   |
| required                                                 |                 | <u> </u>      |           |             | Dissolv                          | ed Metal      | Is: Al     | As s                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Sb Bi                                                                | a Be           | B Ca             | Cd     | Co (           | Cr Cu             | Fe         | Pb M                                                 | lg Mn        | Мо               | Ni K                | Ag                   | Na S        | Se Sr      | TIS          | on V Zn Ha       |   |
| II. Report Dup., MS, MSD as                              | TURNAR          | OUND REQ      | UIREME    | NTS         |                                  |               | STAT       | EHY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | DROC                                                                 | CARBO          | on Pr            | OCEL   | DURE           | ÂK                | CA         | WI                                                   | NOR          | НТЩЕ             | ST (                | THE                  | R:          |            | (CIRC        | LE ONE)          | - |
| III. Data Validation Doore                               | 24 h            | лг            | _48 hr.   |             | SPEC                             |               | 51 HL      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | NS7C                                                                 | OMME           | ENTS:            |        | C              |                   |            | Λ                                                    | ,            | $\left( \right)$ |                     | _                    |             | ,          | $\wedge$     | 2 1              | 1 |
| (includes all raw data)                                  | 5 Da            | зу            |           |             | (1) toxather male tron lon human |               |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                      |                |                  |        |                |                   |            |                                                      | smeal        | ']               |                     |                      |             |            |              |                  |   |
| IV. CLP Deliverable Report Standard (10-15 working days) |                 |               |           |             | 6 1 1 1 1 1 1 5 7 1 5            |               |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                      |                |                  |        |                |                   | <u> </u>   |                                                      | 1            |                  |                     |                      |             |            |              |                  |   |
| V. EDD                                                   |                 |               |           |             |                                  | $\sim$        | ~          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | , <u> </u>                                                           |                | •                | •      |                |                   |            |                                                      | Ka           | 400              |                     |                      |             |            |              |                  |   |
|                                                          | Rec             | uested Repor  | rt Date   | -           | (                                | 2)            | R          | Lad                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | L                                                                    | 010            | logy = Radium-23 |        |                |                   |            |                                                      | 22           | 16; Radium-228:  |                     |                      |             |            |              |                  |   |
| RELINQUISHED BY                                          | 7/ 1            | 1             | F         | RECE        | VED B                            | Y:            |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                      |                | <u> </u>         | )      |                | 5-                | 21         | <u> 47</u> 5                                         | sha          | <del>- 2</del> - | To                  | ta                   | 10          | 3er        | ta           |                  |   |
| Signature Datoffina                                      | 105/00          |               |           |             | _                                |               |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                      |                |                  | NEL    | NUUI           | SHED              | 8Y:        |                                                      | <            | <u></u>          | $\overline{)}$      |                      | RECI        | EIVEL      | DBY:         |                  |   |
| Frided Name                                              | 45              | Signatu       | ILO       |             | Dat                              | te/Time       | ;          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                      | Signa          | ature            |        |                | Date              | /Time      | ·                                                    |              | 5                | ignatu              | re                   | =7          | <b>3 %</b> | Date/Ti      | <u>//26 1053</u> | ٩ |
|                                                          | Fin             | m <u>.</u>    |           |             |                                  | Printe        | ed Nar     | ne                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                      | Firm           | 1                |        |                | Printed Name Firm |            |                                                      |              |                  |                     |                      | 1           |            |              |                  |   |