# WASTEWATER STREAM CHARACTERIZATION FOR TA 3-16, 65, 130, 208, 316, 477, 550, 1228, 1229, 1522, 1538, 1612, 1730, 1731, 1734, 1762, 1898, 1944, 1945, 1946, 1949, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2040, 2062, 2130, 2143 AND 2164

at

Los Alamos National Laboratory

ENVIRONMENTAL STUDY

CHARACTERIZATION REPORT #38

15230

ENVIRONMENTAL MANAGEMENT DIVISION
Los Alamos National Laboratory
Los Alamos, New Mexico 87545

Los Alamos National Laboratory is operated by the University of California for the United States Department of Energy

# WASTEWATER STREAM CHARACTERIZATION FOR TA-3-16, 65, 130, 208, 316, 477, 550, 1228, 1229, 1522, 1538, 1612, 1730, 1731, 1734, 1762, 1898, 1944, 1945, 1946, 1949, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2062, 2130, 2143 and 2164

ENVIRONMENTAL STUDY

prepared for:
THE LOS ALAMOS NATIONAL LABORATORY
Los Alamos, New Mexico

under subcontract 9-XG8-2874P-1

by:
Santa Fe Engineering, Ltd.
1429 Second Street
Santa Fe, New Mexico 87501
(505) 988-7438

July, 1992

UPDATED ESH-8 COMMENTS FEBRUARY, 1994

## EXECUTIVE SUMMARY

Buildings TA-3-16, 65, 130, 208, 316, 477, 550, 1228, 1229, 1522, 1538, 1612, 1730, 1731, 1734, 1762, 1898, 1944, 1945, 1946, 1949, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2062, 2130, 2143 and 2164 were visited to document all drain piping and building outflows and to make permitting recommendations. Ninety-five pipes were found exiting the buildings as follows:

1. from TA-3-16, two sanitary sewer connections, one radioactive liquid waste connection, three roof drains, sixteen fire line drains, one electrical conduit stub, three exhaust vents, three sanitary sewer vents, one air dryer exhaust, one water line drain, one expansion tank drain and two condensed water drains,

2. from TA-3-65, one radioactive liquid waste connection,

3. from TA-3-130, one sanitary sewer connection and one condensed water drain,

4. from TA-3-208, one connection to permitted outfall 03A025,

5. from TA-3-316, two sanitary sewer connections, four fire line drains, three exhaust vents, one water drain from an evaporative cooler and one compressed air pressure relief discharge,

6. from TA-3-1522, one condensed water drain,

7. from TA-3-1538, one condensed water drain,

8. from TA-3-1612, one sanitary sewer connection and one water drain from an evaporative cooler,

9. from TA-3-1730, one condensed water drain,

10. from TA-3-1731, one sanitary sewer connection and one condensed water drain,

11. from TA-3-1734, one condensed water drain,

12. from TA-3-1762, one sanitary sewer connection, one condensed water drain and one water heater pressure relief valve drain,

13. from TA-3-1898, one condensed water drain,

14. from TA-3-2003, one sanitary sewer connection, one condensed water drain and one water heater pressure relief valve drain,

15. from TA-3-2004, one sanitary sewer connection, one condensed water drain, one water heater pressure relief valve drain and one domestic water backflow preventer drain,

16. from TA-3-2005, one condensed water drain and one water heater pressure relief valve drain and one connection to the sanitary sewer via building 3-2004,

17. from TA-3-2006, one sanitary sewer connection, one condensed water drain, one domestic water backflow preventer drain and one fire line drain,

18. from TA-3-2007, one domestic water backflow preventer drain, one condensed water drain and one fire line drain,

19. from TA-3-2008, one sanitary sewer connection, one water heater pressure relief valve drain, one domestic water backflow preventer drain, one condensed water drain and one fire line drain,

20. from TA-3-2009, one sanitary sewer connection, one radioactive liquid waste connection, one water heater pressure relief valve drain, one domestic water backflow preventer drain and one condensed water drain and

21. from TA-3-2010, one sanitary sewer connection, one water heater pressure relief valve drain, four nitrogen tank pressure regulator discharges, two condensed water drains and one domestic water backflow preventer drain.

Buildings TA-3-477, 550, 1228, 1229, 1944, 1945, 1946, 1949, 2062, 2130, and 2164 do not have any water supplies or drains.

Building TA-3-2143 could not be located. According to ENG-7, this structure was relocated to TA-53 and renumbered as 53-636 (see report #32).

A revised EPA Form 2C is included for the permitted outfall (03A025). The flows shown on the forms are estimated from site observations, from discussion with users and from data on the Discharge Monitoring Reports (DMR). Analytical data is defined from information from the previously sampled outfalls.

Recommendations for repiping are provided to allow outfall consolidation to minimize permit maintenance requirements and to bring the facility into compliance with the Laboratories NPDES Permit. Floor drain plugging is recommended where the potential of discharge of pollutants exists.

A Waste Stream Database has been prepared listing the waste water and flow rate for each outfall.

## TABLE OF CONTENTS


**1.0 INTRODUCTION** 1

**2.0 FIELD INVESTIGATION** 3

**3.0 RECOMMENDATIONS FOR BUILDINGS WITH NO SOURCE OF WATER AND NO DRAINS** 4

**4.0 RECOMMENDATIONS FOR BUILDING 3-16** 4

4.1 Outfall 3-16-OPN-1 4
4.2 Outfall 3-16-OPN-2 5
4.3 Outfall 3-16-OPN-3 6
4.4 Outfall 3-16-OPN-4 6
4.5 Outfalls 3-16-OPN-5, 3-16-OPN-6, 3-16-OPN-7, 3-16-OPN-11, 3-16-OPN-12, 3-16-OPN-13, 3-16-OPN-14, 3-16-OPN-17, 3-16-OPN-18, 3-16-OPN-21, 3-16-OPN-22, 3-16-OPN-23, 3-16-OPN-24, 3-16-OPN-25, 3-16-OPN-33 and 3-16-OPN-34 6
4.6 Outfall 3-16-OPN-8 7
4.7 Outfall 3-16-OPN-9, 3-16-OPN-16 and 3-16-OPN-29 7
4.8 Outfalls 3-16-OPN-10 and 3-16-OPN-15 7
4.9 Outfall 3-16-OPN-19 7
4.10 Outfall 3-16-OPN-20 7
4.11 Outfalls 3-16-OPN-26, 3-16-OPN-27 and 3-16-OPN-28 8
4.12 Outfall 3-16-OPN-30 8
4.13 Outfalls 3-16-OPN-31 and 3-16-OPN-32 8

**5.0 RECOMMENDATIONS FOR BUILDING 3-65** 8

**6.0 RECOMMENDATIONS FOR BUILDING 3-130** 9

6.1 Outfall 3-130-OPN-1 9
6.2 Outfall 3-130-OPN-2 9

**7.0 RECOMMENDATIONS FOR BUILDING 3-208** 9

**8.0 RECOMMENDATIONS FOR BUILDING 3-316** 10

8.1 Outfall 3-316-OPN-1 10
8.2 Outfalls 3-316-OPN-2, 3-316-OPN-3, 3-316-OPN-4 and 3-316-OPN-5 10
8.3 Outfalls 3-316-OPN-6, 3-316-OPN-7 and 3-316-OPN-8 10
8.4 Outfall 3-316-OPN-9 11
8.5 Outfall 3-316-OPN-10 11
8.6 Outfall 3-316-OPN-11 11

**9.0 RECOMMENDATIONS FOR BUILDING 3-1522** 11

**10.0 RECOMMENDATIONS FOR BUILDING 3-1538** 11

**11.0 RECOMMENDATIONS FOR BUILDING 3-1612** 12

11.1 Outfall 3-1612-OPN-1 12
11.2 Outfall 3-1612-OPN-2 12

**12.0 RECOMMENDATIONS FOR BUILDING 3-1730** 12

**13.0 RECOMMENDATIONS FOR BUILDING 3-1731** 13

13.1 Outfall 3-1731-OPN-1 13
13.2 Outfall 3-1731-OPN-2 13

**14.0 RECOMMENDATIONS FOR BUILDING 3-1734** 13

**15.0 RECOMMENDATIONS FOR BUILDING 3-1762** 13

15.1 Outfall 3-1762-OPN-1 14
15.2 Outfall 3-1762-OPN-2 14
15.3 Outfall 3-1762-OPN-3 14

**16.0 RECOMMENDATION FOR BUILDING 3-1898** 14

**17.0 RECOMMENDATIONS FOR BUILDING 3-2003** 14

17.1 Outfall 3-2003-OPN-1 15
17.2 Outfall 3-2003-OPN-2 15
17.3 Outfall 3-2003-OPN-3 15

**18.0 RECOMMENDATIONS FOR BUILDING 3-2004** 15

18.1 Outfall 3-2004-OPN-1 15
18.2 Outfall 3-2004-OPN-2 16
18.3 Outfall 3-2004-OPN-3 16
18.4 Outfall 3-2004-OPN-4 16

**19.0 RECOMMENDATIONS FOR BUILDING 3-2005** 16

19.1 Outfall 3-2005-OPN-1 17
19.2 Outfall 3-2005-OPN-2 17
19.3 Outfall 3-2005-OPN-3 17

**20.0 RECOMMENDATIONS FOR BUILDING 3-2006** 17

20.1 Outfall 3-2006-OPN-1 17
20.2 Outfall 3-2006-OPN-2 18
20.3 Outfall 3-2006-OPN-3 18
20.4 Outfall 3-2006-OPN-4 18

**21.0 RECOMMENDATIONS FOR BUILDING 3-2007** 18

21.1 Outfall 3-2007-OPN-1 18
21.2 Outfall 3-2007-OPN-2 19
21.3 Outfall 3-2007-OPN-3 19

**22.0 RECOMMENDATIONS FOR BUILDING 3-2008** 19

22.1 Outfall 3-2008-OPN-1 19
22.2 Outfall 3-2008-OPN-2 19
22.3 Outfall 3-2008-OPN-3 20
22.4 Outfall 3-2008-OPN-4 20
22.5 Outfall 3-2008-OPN-5 20

**23.0 RECOMMENDATIONS FOR BUILDING 3-2009** 20

23.1 Outfall 3-2009-OPN-1 20
23.2 Outfall 3-2009-OPN-2 21
23.3 Outfall 3-2009-OPN-3 21
23.4 Outfall 3-2009-OPN-4 21
23.5 Outfall 3-2009-OPN-5 21

**24.0 RECOMMENDATIONS FOR BUILDING 3-2010** 21

24.1 Outfall 3-2010-OPN-1 22
24.2 Outfall 3-2010-OPN-2 22
24.3 Outfalls 3-2010-OPN-3, 3-2010-OPN-4, 3-2010-OPN-5 and 3-2010-OPN-6 22
24.4 Outfalls 3-2010-OPN-7 and 3-2010-OPN-8 22
24.5 Outfall 3-2010-OPN-9 23

**25.0 CONCLUSION** 24

## APPENDICES

APPENDIX 1 - DRAIN SUMMARY
APPENDIX 2 - WASTE STREAM CHARACTERIZATION DATABASE
APPENDIX 3 - EPA FORMS
APPENDIX 4 - DYE STUDY INFORMATION
APPENDIX 5 - DRAIN SCHEMATICS

## LIST OF FIGURES

1. TA-3 PARTIAL SITE PLAN
2. TA-3-16 BUILDING DRAIN SCHEMATIC
3. TA-3-16 BUILDING DRAIN SCHEMATIC
4. TA-3-65 BUILDING DRAIN SCHEMATIC
5. TA-3-130 BUILDING DRAIN SCHEMATIC
6. TA-3-208 BUILDING DRAIN SCHEMATIC
7. TA-3-316 BUILDING DRAIN SCHEMATIC
8. TA-3-1522 BUILDING DRAIN SCHEMATIC
9. TA-3-1538 BUILDING DRAIN SCHEMATIC
10. TA-3-1612 BUILDING DRAIN SCHEMATIC
11. TA-3-1730 BUILDING DRAIN SCHEMATIC
12. TA-3-1731 BUILDING DRAIN SCHEMATIC
13. TA-3-1734 BUILDING DRAIN SCHEMATIC
14. TA-3-1762 BUILDING DRAIN SCHEMATIC
15. TA-3-1898 BUILDING DRAIN SCHEMATIC
16. TA-3-2003, 3-2004 and 3-2005 BUILDING DRAIN SCHEMATIC
17. TA-3-2006, 3-2007, 3-2008, 3-2009 and 3-2010 BUILDING DRAIN SCHEMATIC

## LIST OF TABLES


1. TA-3-16 DRAIN SUMMARY
2. TA-3-65 DRAIN SUMMARY
3. TA-3-130 DRAIN SUMMARY
4. TA-3-208 DRAIN SUMMARY
5. TA-3-316 DRAIN SUMMARY
6. TA-3-1522 DRAIN SUMMARY
7. TA-3-1538 DRAIN SUMMARY
8. TA-3-1612 DRAIN SUMMARY
9. TA-3-1730 DRAIN SUMMARY
10. TA-3-1731 DRAIN SUMMARY
11. TA-3-1734 DRAIN SUMMARY
12. TA-3-1762 DRAIN SUMMARY
13. TA-3-1898 DRAIN SUMMARY
14. TA-3-2003 DRAIN SUMMARY
15. TA-3-2004 DRAIN SUMMARY
16. TA-3-2005 DRAIN SUMMARY
17. TA-3-2006 DRAIN SUMMARY
18. TA-3-2007 DRAIN SUMMARY
19. TA-3-2008 DRAIN SUMMARY
20. TA-3-2009 DRAIN SUMMARY
21. TA-3-2010 DRAIN SUMMARY
22. NON-DRAIN RECOMMENDATIONS
23. ABBREVIATIONS

## 1.0 INTRODUCTION

During June, 1992, Mark E. Wendt of Santa Fe Engineering (SFE) toured buildings 16, 65, 130, 208, 316, 477, 550, 1228, 1229, 1522, 1538, 1612, 1730, 1731, 1734, 1762, 1898, 1944, 1945, 1946, 1949, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2062, 2130, 2143 and 2164 in TA-3.

The purpose of this study is to identify building drain piping, locate outfalls which discharge into the environment and to characterize the wastewater flows and sources existing at the time of the visit. This report will not reflect any subsequent changes in piping or operations. The Waste Stream Characterization Policy of September 10, 1992 was followed for this study. The following tasks were performed for this purpose:

1. Building drains and all piping exiting the building were identified and laid out in schematic form;

2. Wastewater sources were identified at each drain and the wastewater was characterized according to the flow rate and quality. The location of outfalls and their potential sources of discharges were determined. Potential pollutants were also noted;

3. Permit applications for discharges of clean water were not prepared since these discharges do not require permitting at this time and

4. Potential problems were identified and recommendations were made for repiping, floor drain plugging and spill containment, where deemed appropriate.

The field investigation proceeded by verifying drain schematic drawings prepared by SFE for the appropriate buildings (Figures 1 through 17) from drawings provided by Los Alamos National

Laboratory (LANL) Facilities Engineering Division. The other buildings were visited to insure that no drains exist for the buildings. The following process was used to define drain piping and characterize the wastewater streams:

1. Laboratory engineering drawings were used to prepare the SFE drain piping schematic. The Solid Waste Stream Characterization conducted by IT Corporation was reviewed. Permit (NPDES), the 1990 NPDES Permit Application submitted by Los Alamos National Laboratory (LANL) in September, 1990, the latest Federal Facilities Compliance Agreement (FFCA) between the Department of Energy (DOE) and the Environmental Protection Agency (EPA) and the Administrative Order (AO) Docket Number VI-92-1306 issued by EPA to the University of California were used for reference;

2. A site visit was performed to verify the SFE drain schematics and to identify potential outfall pipes exiting the building. The visit entailed a room by room inspection of wastewater sources and drains. Interviews with site personnel were conducted to assist in wastestream characterization and

3. SFE verified drain piping by dye checking.

## 2.0 FIELD INVESTIGATION

The pipes exiting the building have been assigned an Outlet Piping Number. The four part number, sequentially, identifies the Technical Area where the pipe is located, the building from which the pipe discharges, the letters OPN to indicate that it is an outlet piping number and the unique number for the pipe. The piping exiting the building will be labeled for easy identification in the future.

Each drain has a unique identification number. Each number consists of three parts. The first part is the floor the drain is on. The second part has letters that indicate the drain type (abbreviations used are summarized in Table 23). The final part is a unique number for each drain. For example, the floor drain numbering on the first floor would start is 1FD1. The roof drains do not have the number identifying the floor such as RD1 for Roof Drain 1.

The function of each pipe exiting from buildings are listed in Appendix 1, Tables 1 through 21, with an abbreviations list in Table 23. Table 22 of Appendix 1 is a list of non-drain recommendations. Appendix 2 contains the wastestream characterization database output, listing wastewater source, flow rates and periodicity information for each outfall drain. Completed EPA forms are in Appendix 3 for appropriate outfalls. Appendix 4 provides information about the dye study of building drains. Flow schematics of the drains from each building are attached in Appendix 5 as Figures 2 through 17. A Site Plan is included in Appendix 5 as Figure 1 illustrating the locations of buildings included in this report.

## 3.0 RECOMMENDATIONS FOR BUILDINGS WITH NO SOURCE OF WATER AND NO DRAINS

Buildings 3-477, 550, 1228, 1229, 1944, 1945, 1946, 1949, 2062, 2130 and 2164 do not have drains or any source of water. No changes or permitting are recommended. No EPA forms were prepared.

## 4.0 RECOMMENDATIONS FOR BUILDING 3-16

Table 1 is a list of the drains to the building outfalls and Figures 2 and 3 are schematics of the piping. The table lists the drains that connect to the outfall pipe and includes recommendations for changes to the drain piping. The discussion below gives the reasoning for the recommendation.

There is an existing oil-filled transformer containing PCB's located exterior of the building at the northwest corner. There is potential for oil drainage into Two Mile Canyon if a leak in the transformer occurred. It is recommended this transformer be provided with secondary containment.

### 4.1 Outfall 3-16-OPN-1

This outfall is from sanitary facilities and flows into a sewer manhole which drains to the site sanitary sewer system. No chemicals are drained into any of the drains or fixtures. Fume hood sinks 1SD4 and 1SD5 are contaminated with Tritium compounds and are not currently being used. It is recommended these two sinks be removed and the drain lines be capped in the wall. This room was previously a controlled area. No permitting is required for this outfall and no EPA forms have been prepared.

## 4.2 Outfall 3-16-OPN-2

This outfall is from sanitary facilities and flows into a sewer manhole which drains into the site sanitary sewer system. Small quantities of Tritium-contaminated water are drained into some of the fixtures and floor drains.

This outfall contains one sump pump, SBSP1, in the sub-basement room 3 which receives Tritium-contaminated flow from all fixtures and drains located in rooms 2, 3, 70, 62, 64, 66, 67, 69, 170 and 270 (all are controlled areas). This sump then pumps up and connects to a sanitary sewer pipe which runs to a sewage lift station BSLS1 located in mechanical room 50. This lift station in turn pumps sewage up to the sanitary sewer manhole at the east side of the building. It is recommended the sump pump discharge pipe and associated line leading to the sewage lift station be re-routed, upstream of any other sanitary connection and connected to the existing radioactive liquid waste (RLW) drain pipe exiting the building from mechanical room 50. This would route all fixtures and drains in rooms 2,3, 70, 62, 64, 66, 67, 69, 170 and 270 to the RLW drainage system.

There is an accumulation of oil residue in the bottom of the existing floor trench in Vertical Accelerator room 70. A complete and through cleaning of the floor trench is recommended.

It is recommended that secondary containment be provided for the air compressor unit, vacuum pump and air dryer unit located in vertical accelerator room (70). Containerizing the drains from each of these pieces of equipment is also recommended.

Removal of toilet BTL1 and urinal BUR1 in room 44 and re-routing sanitary sewer pipe from rooms 21, 41, 42 and 44 to the RLW system are recommended. This would convert the existing shower in room #44 to an "emergency shower only". Rooms 42 and 44 are controlled areas.

Removal of water fountain 1WF2 located in control room 140 (controlled area) and replacing it with bottle water is also recommended. No permitting is required for this outfall and no EPA forms have been prepared.

### 4.3 Outfall 3-16-OPN-3

This outfall is from RLW facilities and flows to the Radioactive Waste Treatment Plant located at TA-50. Small amounts of Tritium compounds, Iodine 125 and Sulfur 35 are drained down various fixtures. No piping changes are recommended. No EPA forms were prepared.

### 4.4 Outfall 3-16-OPN-4

This outfall is from roof drains on the building and from one floor drain in the building. The discharge pipe drains to daylight into a tributary of Two Mile Canyon. Plugging of floor drain BFD10 in generator room 68 is recommended. No permitting is needed for this outfall and no EPA forms have been prepared.

### 4.5 Outfalls 3-16-OPN-5, 3-16-OPN-6, 3-16-OPN-7, 3-16-OPN-11, 3-16-OPN-12, 3-16-OPN-13, 3-16-OPN-14, 3-16-OPN-17, 3-16-OPN-18, 3-16-OPN-21, 3-16-OPN-22, 3-16-OPN-23, 3-16-OPN-24, 3-16-OPN-25, 3-16-OPN-33 and 3-16-OPN-34

These outfalls are fire water system drains which discharge to daylight next to the building. These outfalls should be covered by a Notice of Intent to Discharge (NOI). No piping changes are recommended. No EPA forms were prepared.

### 4.6 Outfall 3-16-OPN-8

This outfall is an abandoned electrical conduit which is broken just exterior of building. This stub has since been plugged. No permitting is needed for this outfall and no EPA forms have been prepared.

### 4.7 Outfalls 3-16-OPN-9, 3-16-OPN-16 and 3-16-OPN-29

These outfalls are equipment exhaust vents which discharge to atmosphere next to the building. No piping or ducting changes are recommended. No EPA forms were prepared.

### 4.8 Outfalls 3-16-OPN-10 and 3-16-OPN-15

These outfalls are from roof drains on the building. The downspouts drain to daylight next to the building. No permitting is needed for these outfalls and no EPA forms have been prepared.

### 4.9 Outfall 3-16-OPN-19

This outfall is an air dryer exhaust vent which discharges to atmosphere next to the building. No piping changes or permitting are recommended. No EPA forms were prepared.

### 4.10 Outfall 3-16-OPN-20

This outfall is from the accelerator water intake diverter line and discharges to daylight next to the building. This outfall should be covered by an NOI. No piping changes are recommended. No EPA forms were prepared.

4.11 Outfalls 3-16-OPN-26, 3-16-OPN-27 and 3-16-OPN-28

These outfalls are sanitary sewer vents discharging to atmosphere next to building. No piping changes or permitting are recommended. No EPA forms were prepared.

4.12 Outfall 3-16-OPN-30

This outfall is a steam heat exchanger pressure relief valve discharge to daylight next to the building. This outfall should be covered by an NOI. No piping changes are recommended. No EPA forms were prepared.

4.13 Outfalls 3-16-OPN-31 and 3-16-OPN-32

These outfalls are condensed water drains from mechanical equipment and discharge to daylight onto the roof of machine room 62. These outfalls should be covered by an NOI. No piping changes are recommended. No EPA forms were prepared.

## 5.0 RECOMMENDATIONS FOR BUILDING 3-65

Table 2 is a list of the drains to the building outfalls and Figure 4 is a schematic of the piping. The table lists the drains that connect to the outfall pipe and includes recommendation for changes to the drain piping. The one outfall is from RLW facilities and flows to the Radioactive Waste Treatment Plant located at TA-50. This building is currently not being occupied and is being used for storage. It is recommended lavatory 1LV1 and sink 1SD1 be removed and the drain lines plugged. No permitting is required for this outfall and no EPA forms have been prepared.

## 6.0 RECOMMENDATION FOR BUILDING 3-130

Table 3 is a list of the drains to the building outfalls and Figure 5 is a schematic of the piping. The table lists the drains that connect to the outfall pipe and includes recommendation for change to the drain piping. The discussion below gives the reasoning for the recommendations.

### 6.1 Outfall 3-130-OPN-1

This outfall is from sanitary facilities and flows into a septic tank TA-03-1484 (LA-11) which flows to a seepage pit. No chemicals are drained into any of the drains or fixtures. It is recommended that the sanitary waste line from this building be rerouted from the septic tank to the site sanitary sewer collection system and that the septic tank be decommissioned and its permit eliminated. No permitting is required for this outfall and no EPA forms have been prepared.

### 6.2 Outfall 3-130-OPN-2

This outfall drains condensed water from a packaged mechanical heating/cooling unit to daylight next to the building. This outfall should be covered by an NOI. No piping changes are recommended. No EPA forms have been prepared.

## 7.0 RECOMMENDATIONS FOR BUILDING 3-208

Table 4 is a list of the drains to the building outfall and Figure 6 is a schematic of the piping. The table lists the drains that connect to the outfall pipe and includes recommendations for changes to the drain piping. The one outfall receives flow from three floor drains, one of which receives treated cooling water blowdown, and discharges to daylight into a tributary of Two Mile Canyon as EPA permitted outfall 03A025. It is recommended this outfall be re-routed to the sanitary sewer

pipe located in the northeast utility tunnel of building 3-16, if feasible. The EPA permit can then be deleted. A revised EPA form 2C is attached for the permitted outfall.

## 8.0 RECOMMENDATIONS FOR BUILDING 3-316

Table 5 is a list of the drains to the building outfalls and Figure 7 is a schematic of the piping. The table lists the drains that connect to the outfall pipe and includes recommendations for changes to the drain piping. The discussion below gives the reasoning for the recommendation.

### 8.1 Outfall 3-316-OPN-1

This outfall is from sanitary facilities and flows to the site sanitary sewer system. No chemicals are drained into any of the drains or fixtures. The air compressor located in room 103 has a bleed-off line which drains to floor drain 1FD2. It is recommended this bleed-off be containerized at the air compressor unit and the piping to the drain be removed. No permitting is required for this outfall and no EPA forms have been prepared.

### 8.2 Outfalls 3-316-OPN-2, 3-316-OPN-3, 3-316-OPN-4 and 3-316-OPN-5

These outfalls are fire water system drains which discharge to daylight next to the building. These outfalls should be covered by an NOI. No piping changes are recommended. No EPA forms were completed.

### 8.3 Outfalls 3-316-OPN-6, 3-316-OPN-7 and 3-316-OPN-8

These outfalls are equipment exhaust vents which discharge to atmosphere next to the building. No piping changes or permitting are recommended. No EPA forms were prepared.

### 8.4 Outfall 3-316-OPN-9

This outfall is from a trench drain located in test area #100 and has been plugged below grade just exterior of the building (according to the building manager, Bill Waganaar). It is recommended the trench drain 1TD1 be plugged. No permitting is required for this outfall and no EPA forms have been prepared.

### 8.5 Outfall 3-316-OPN-10

This outfall drains water from an evaporative cooler to daylight next to the building. This outfall should be covered by an NOI. No piping changes are recommended. No EPA forms were completed.

### 8.6 Outfall 3-316-OPN-11

This outfall is a compressed air pressure reducing valve discharging to atmosphere next to the building. No permitting or changes are needed for this outfall and no EPA forms were completed.

## 9.0 RECOMMENDATIONS FOR BUILDING 3-1522

Table 6 is a list of the drains to the building outfalls and Figure 8 is a schematic of the building piping. The one building outfall drains condensed water from a mechanical cooling unit to daylight next to the building. This outfall should be covered by an NOI. No piping changes are recommended. No EPA forms were completed.

## 10.0 RECOMMENDATIONS FOR BUILDING 3-1538

Table 7 is a list of the drains to the building outfalls and Figure 9 is a schematic of the building piping. This one outfall drains condensed water from a mechanical cooling unit to daylight

next to the building. This outfall should be covered by an NOI. No piping changes are recommended. No EPA forms were completed.

## 11.0 RECOMMENDATIONS FOR BUILDING 3-1612

Table 8 is a list of the drains to the building outfall and Figure 10 is a schematic of the piping. The table lists the drains that connect to the outfall pipe and includes recommendations for changes to the drain piping. The discussion below gives the reasoning for the recommendations.

### 11.1 Outfall 3-1612-OPN-1

This outfall is from sanitary facilities and flows into a sewage lift station which pumps into a sanitary sewer manhole. This manhole drains into the site sanitary sewer system. No chemicals are drained into any of the drains or fixtures. No permitting or changes are required for this outfall and no EPA forms have been prepared.

### 11.2 Outfall 3-1612-OPN-2

This outfall drains condensed water from an evaporative cooler to daylight next to the building. The outfall should be covered by an NOI. No piping changes are recommended. No EPA forms were completed.

## 12.0 RECOMMENDATIONS FOR BUILDING 3-1730

Table 9 is a list of the drains to the building outfalls and Figure 11 is a schematic of the building piping. The one outfall drains condensed water from a mechanical cooling unit to daylight next to the building. This outfall should be covered by an NOI. No piping changes are recommended. No EPA forms were completed.

## 13.0 RECOMMENDATIONS FOR BUILDING 3-1731

Table 10 is a list of the drains to building outfalls and Figure 12 is a schematic of the piping. The table lists the drains that connect to the outfall pipe and includes recommendations for changes to the drain piping. The discussion below gives the reasoning for the recommendations.

### 13.1 Outfall 3-1731-OPN-1

This outfall receives flow from one lavatory and one toilet and flows to a sewer manhole which drains to the site sanitary sewer system. No permitting or piping changes are recommended. No EPA forms were prepared.

### 13.2 Outfall 3-1731-OPN-2

This outfall drains condensed water from mechanical cooling unit to daylight next to the building. This outfall should be covered by an NOI. No piping changes are recommended. No EPA forms were completed.

## 14.0 RECOMMENDATIONS FOR BUILDING 3-1734

Table 11 is a list of the drains to the building outfalls and Figure 13 is a schematic of the building piping. The one outfall drains condensed water from a mechanical cooling unit to daylight next to the building. This outfall should be covered by an NOI. No piping changes are recommended. No EPA forms were completed.

## 15.0 RECOMMENDATIONS FOR BUILDING 3-1762

Table 12 is a list of the drains to the building outfall and Figure 14 is a schematic of the piping. The table lists the drains that connect to the outfall pipe and includes

recommendations for changes to the drain pipe. The discussion below gives the reasoning for the recommendations.

15.1 Outfall 3-1762-OPN-1

This outfall receives flow from two lavatories, two toilets, one countertop sink drain and flows to the site sanitary sewer system. No permitting or piping changes are recommended. No EPA forms were prepared.

15.2 Outfall 3-1762-OPN-2

This outfall drains condensed water from a mechanical cooling unit to daylight next to the building. This outfall should be covered by an NOI. No piping changes are recommended. No EPA forms were completed.

15.3 Outfall 3-1762-OPN-3

This outfall is from a water heater pressure relief valve drain which discharges to daylight in the crawlspace of the trailer. This outfall should be covered by an NOI. No piping changes are recommended for this outfall and no EPA forms were prepared.

## 16.0 RECOMMENDATIONS FOR BUILDING 3-1898

Table 13 is a list of the drains to the building outfalls and Figure 15 is a schematic of the building piping. The one outfall drains condensed water from a mechanical cooling unit to daylight next to the building. This outfall should be covered by an NOI. No piping changes are recommended. No EPA forms were completed.

## 17.0 RECOMMENDATIONS FOR BUILDING 3-2003

Table 14 is a list of the drains to the building outfalls and Figure 16 is a schematic of the piping. The table lists the

drains that connect to the outfall pipe and includes recommendations for changes to the drain piping. The discussion below gives the reasoning for the recommendations.

17.1 Outfall 3-2003-OPN-1

This outfall receives flow from one countertop sink drain and flows to the site sanitary sewer system. No permitting or piping changes are recommended. No EPA forms were prepared.

17.2 Outfall 3-2003-OPN-2

This outfall drains condensed water from a mechanical heating/cooling unit to daylight next to the building. This outfall should be covered by an NOI. No piping changes are recommended. No EPA forms were completed.

17.3 Outfall 3-2003-OPN-3

This outfall discharges from a water heater pressure relief valve to daylight next to building. This outfall should be covered by an NOI. No permitting is required for this outfall and no EPA forms have been prepared.

**18.0 RECOMMENDATIONS FOR BUILDING 3-2004**

Table 15 is a list of the drains to the building outfalls and Figure 16 is a schematic of the piping. The table lists the drains that connect to the outfall pipe and includes recommendations for changes to the drain piping. The discussion below gives the reasoning for the recommendations.

18.1 Outfall 3-2004-OPN-1

This outfall is from sanitary facilities and flows into a sewer manhole which drains to the site sanitary sewer system. No

chemicals are drained into any of the drains or fixtures. No permitting or changes are required for this outfall and no EPA forms have been prepared.

18.2 Outfall 3-2004-OPN-2

This outfall drains condensed water from a mechanical heating/cooling unit to daylight next to the building. This outfall should be covered by an NOI. No piping changes are recommended. No EPA forms were completed.

18.3 Outfall 3-2004-OPN-3

This outfall discharges from a water heater pressure relief valve to daylight next to building. This outfall should be covered by an NOI. No permitting is required for this outfall and no EPA forms have been prepared.

18.4 Outfall 3-2004-OPN-4

This outfall discharges potable water from a backflow preventer valve to daylight next to the building. This outfall should be covered by an NOI. No piping changes are recommended. No EPA forms were completed.

## 19.0 RECOMMENDATIONS FOR BUILDING 3-2005

Table 16 is a list of drains to the building outfalls and Figure 16 is a schematic of the piping. The table lists the drains that connect to the outfall pipe and includes recommendations for changes to the drain piping. The discussion below gives the reasoning for the recommendation.

19.1 Outfall 3-2005-OPN-1

This outfall drains condensed water from a mechanical heating/cooling unit to daylight next to building. This outfall should be covered by an NOI. No piping changes are recommended. No EPA forms were completed.

19.2 Outfall 3-2005-OPN-2

This outfall discharges from a water heater pressure relief valve to daylight next to building. This outfall should be covered by an NOI. No permitting is required for this outfall and no EPA forms have been prepared.

19.3 Outfall 3-2005-OPN-3

This outfall is from a single sink drain and connects to the site sanitary sewer collection system via a connection to the sanitary system in building 3-2004. No changes or permitting are recommended and no EPA forms were prepared.

## 20.0 RECOMMENDATIONS FOR BUILDING 3-2006

Table 17 is a list of the drains to the building outfalls and Figure 17 is a schematic of the piping. The table lists the drains that connect to the outfall pipe and includes recommendations for changes to the drain piping. The discussion below gives the reasoning for the recommendations.

20.1 Outfall 3-2006-OPN-1

This outfall is from sanitary facilities and flows into a sewer manhole which drains to the site sanitary sewer system. No chemicals are drained into any of the drains or fixtures. No permitting is required for this outfall and no EPA forms have been prepared.

20.2 Outfall 3-2006-OPN-2

This outfall drains condensed water from a packaged mechanical heating/cooling unit to daylight next to the building. This outfall should be covered by an NOI. No piping changes are recommended. No EPA forms were completed.

20.3 Outfall 3-2006-OPN-3

The outfall discharges potable water from a backflow preventer valve to daylight next to the building. This outfall should be covered by an NOI. No piping changes are recommended. No EPA forms were completed.

20.4 Outfall 3-2006-OPN-4

This outfall is a fire water system drain which discharges to daylight next to the building. This outfall should be covered by an NOI. No piping changes are recommended. No EPA forms were completed.

**21.0 RECOMMENDATIONS FOR BUILDING 3-2007**

Table 18 is a list of the drains to the building outfalls and Figure 17 is a schematic of the piping. The table lists the drains that connect to the outfall pipe and includes recommendations for changes to the drain piping. The discussion below gives the reasoning for the recommendation.

21.1 Outfall 3-2007-OPN-1

This outfall is a fire water system drain which discharges to daylight next to the building. This outfall should be covered by an NOI. No piping changes are recommended. NO EPA forms were completed.

21.2 Outfall 3-2007-OPN-2

This outfall discharges potable water from a backflow preventer valve to daylight next to the building. This outfall should be covered by an NOI. No Piping changes are recommended. No EPA forms were completed.

21.3 Outfall 3-2007-OPN-3

This outfall drains condensed water from a packaged mechanical heating/cooling unit to daylight next to the building. This outfall should be covered by an NOI. No piping changes are recommended. No EPA forms were completed.

**22.0 RECOMMENDATIONS FOR BUILDING 3-2008**

Table 19 is a list of the drains to the building outfalls and Figure 17 is a schematic of the piping. The table lists the drains that connect to the outfall pipe and includes recommendations for changes to the drain piping. The discussion below gives the reasoning for the recommendations.

22.1 Outfall 3-2008-OPN-1

This outfall receives flow from one countertop sink drain and one water fountain and flows to a sewer manhole which drains to site sanitary sewer system. No permitting or piping changes are recommended. No EPA forms were prepared.

22.2 Outfall 3-2008-OPN-2

This outfall discharges from a water heater pressure relief valve to daylight in the crawl space of the building. This outfall should be covered by an NOI. No changes are required for this outfall and no EPA forms have been prepared.

22.3 Outfall 3-2008-OPN-3

This outfall discharges potable water from a backflow preventer valve to daylight next to the building. This outfall should be covered by an NOI. No piping changes are recommended. No EPA forms were prepared.

22.4 Outfall 3-2008-OPN-4

This outfall drains condensed water from a packaged mechanical heating/cooling unit to daylight next to the building. This outfall should be covered by an NOI. No piping changes are recommended. No EPA forms are completed.

22.5 Outfall 3-2008-OPN-5

This outfall is a fire water system drain which discharges to daylight next to the building. This outfall should be covered by an NOI. No piping changes are recommended. No EPA forms were completed.

## 23.0 RECOMMENDATIONS FOR BUILDING 3-2009

Table 20 is a list of the drains to the building outfalls and Figure 17 is a schematic of the piping. The table lists the drains that connect to the outfall pipe and includes recommendations for changes to the drain piping. The discussion below gives the reasoning for the recommendations.

23.1 Outfall 3-2009-OPN-1

This outfall receives flow from one fume hood cup drain and drains to the Radioactive Waste Treatment Plant located at TA-50. No piping changes are recommended. No EPA forms were prepared.

23.2 Outfall 3-2009-OPN-2

This outfall is from sanitary facilities and flows into a sewer manhole which drains to the site sanitary sewer system. There is one emergency eye wash unit 1ED1 located in room 131 which currently drains to sanitary sewer. It is recommended the drain be re-routed to connect to the RLW outfall exiting this building. No permitting is required for this outfall and no EPA forms have been prepared.

23.3 Outfall 3-2009-OPN-3

This outfall discharges from a water heater pressure relief valve to daylight next to the building. This outfall should be covered by an NOI. No piping changes are recommended. No EPA forms have been prepared.

23.4 Outfall 3-2009-OPN-4

This outfall discharges potable water from a backflow preventer valve to daylight next to the building. This outfall should be covered by an NOI. No piping changes are recommended. No EPA forms were completed.

23.5 Outfall 3-2009-OPN-5

This outfall drains condensed water from a packaged mechanical heating/cooling unit to daylight next to the building. This outfall should be covered by an NOI. No piping changes are recommended. No EPA forms were completed.

**24.0 RECOMMENDATIONS FOR BUILDING 3-2010**

Table 21 is a list of the drains to the building outfall and Figure 17 is a schematic of the piping. The table lists the drains that connect to the outfall pipe and includes

recommendations for changes to the drain piping. The discussion below gives the reasoning for the recommendations.

24.1 Outfall 3-2010-OPN-1

This outfall is from sanitary facilities and flows into a sewer manhole which drains to the site sanitary sewer system. There is one emergency eye wash unit 1ED1 located in room 147 which currently drains to sanitary sewer. It is recommended the drain be re-routed to connect to the RLW system piping exiting building TA-3-2009. No permitting is required for this outfall and no EPA forms have been prepared.

24.2 Outfall 3-2010-OPN-2

This outfall discharges from a water heater pressure relief valve to daylight next to the building. This outfall should be covered by an NOI. No piping changes are recommended. No EPA forms have been prepared.

24.3 Outfalls 3-2010-OPN-3, 3-2010-OPN-4, 3-2010-OPN-5 and 3-2010-OPN-6

These outfalls discharge nitrogen gas from nitrogen tank pressure regulating valves to atmosphere next to the building. These outfalls should be covered by an NOI. No permitting or piping changes are recommended. No EPA forms were completed.

24.4 Outfalls 3-2010-OPN-7 and 3-2010-OPN-8

The outfalls drain condensed water from packaged mechanical heating/cooling units to daylight next to building. These outfalls should be covered by an NOI. No piping changes are recommended. No EPA forms were completed.

24.5 Outfall 3-2010-OPN-9

This outfall discharges potable water from a backflow preventer valve to daylight next to the building. This outfall should be covered by an NOI. No piping changes are recommended. No EPA forms were completed.

## 25.0 CONCLUSION

This document provides the information to characterize buildings 16, 65, 130, 208, 316, 477, 550, 1228, 1229, 1522, 1538, 1612, 1730, 1731, 1734, 1762, 1898, 1944, 1945, 1946, 1949, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2062, 2130, 2143 and 2164 of TA-3. Permit application forms have been completed for the following outfalls (Appendix 3).

Form 2C:

1. 3-208-OPN-1 (03A025)

Permitting is not recommended for the following outfalls, as itemized below.

Buildings that do not have any drains:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1. | 3-477 | 2. | 3-550 | 3. | 3-1228 | 4. | 3-1229 |
| 5. | 3-1944 | 6. | 3-1945 | 7. | 3-1946 | 8. | 3-1949 |
| 9. | 3-2062 | 10. | 3-2130 | 11. | 3-2164 | | |

Building that was relocated:

1. 3-2143

Discharges to the site sanitary sewer system:

| | | | | | |
|---|---|---|---|---|---|
| 1. | 3-16-OPN-1 | 2. | 3-16-OPN-2 | 3. | 3-316-OPN-1 |
| 4. | 3-316-OPN-9 | 5. | 3-1612-OPN-1 | 6. | 3-1731-OPN-1 |
| 7. | 3-1762-OPN-1 | 8. | 3-2003-OPN-1 | 9. | 3-2004-OPN-1 |
| 10. | 3-2006-OPN-1 | 11. | 3-2008-OPN-1 | 12. | 3-2009-OPN-2 |
| 13. | 3-2010-OPN-1 | | | | |

Discharge to sanitary septic tank and seepage pit:

1. 3-130-OPN-1 (septic permit #TA-3-1484)

Discharges to the TA-50 Radioactive Waste Treatment Plant:

1. 3-16-OPN-3 2. 3-65-OPN-1 3-2009-OPN-1

Discharges from the fire system:

| | | | | | |
|---|---|---|---|---|---|
| 1. | 3-16-OPN-5 | 2. | 3-16-OPN-6 | 3. | 3-16-OPN-7 |
| 4. | 3-16-OPN-11 | 5. | 3-16-OPN-12 | 6. | 3-16-OPN-13 |
| 7. | 3-16-OPN-14 | 8. | 3-16-OPN-17 | 9. | 3-16-OPN-18 |
| 10. | 3-16-OPN-21 | 11. | 3-16-OPN-22 | 12. | 3-16-OPN-23 |
| 13. | 3-16-OPN-24 | 14. | 3-16-OPN-25 | 15. | 3-16-OPN-33 |
| 16. | 3-16-OPN-34 | 17. | 3-316-OPN-2 | 18. | 3-316-OPN-3 |
| 19. | 3-316-OPN-4 | 20. | 3-316-OPN-5 | 21. | 3-2006-OPN-4 |
| 22. | 3-2007-OPN-1 | 23. | 3-2008-OPN-5 | | |

Discharges of condensed water:

| | | | | | |
|---|---|---|---|---|---|
| 1. | 3-16-OPN-31 | 2. | 3-16-OPN-32 | 3. | 3-130-OPN-2 |
| 4. | 3-316-OPN-10 | 5. | 3-1522-OPN-1 | 6. | 3-1538-OPN-1 |
| 7. | 3-1612-OPN-2 | 8. | 3-1730-OPN-1 | 9. | 3-1731-OPN-2 |
| 10. | 3-1734-OPN-1 | 11. | 3-1762-OPN-2 | 12. | 3-1898-OPN-1 |
| 13. | 3-2003-OPN-2 | 14. | 3-2004-OPN-2 | 15. | 3-2005-OPN-1 |
| 16. | 3-2006-OPN-2 | 17. | 3-2007-OPN-3 | 18. | 3-2008-OPN-4 |
| 19. | 3-2009-OPN-5 | 20. | 3-2010-OPN-7 | 21. | 3-2010-OPN-8 |

Storm water discharges:

1. 3-16-OPN-4 2. 3-16-OPN-10 3. 3-16-OPN-15

Discharges from hot water heaters:

1. 3-1762-OPN-3 2. 3-2003-OPN-3 3. 3-2004-OPN-3
4. 3-2005-OPN-2 5. 3-2008-OPN-2 6. 3-2009-OPN-3
7. 3-2010-OPN-2

Discharges from backflow preventer:

1. 3-2004-OPN-4 2. 3-2006-OPN-3 3. 3-2007-OPN-2
4. 3-2008-OPN-3 5. 3-2009-OPN-4 6. 3-2010-OPN-9

Discharges from equipment exhaust:

1. 3-16-OPN-9 2. 3-16-OPN-16 3. 3-16-OPN-19
4. 3-16-OPN-29 5. 3-316-OPN-6 6. 3-316-OPN-7
7. 3-316-OPN-8

Discharges from Nitrogen tank pressure relief valve:

1. 3-2010-OPN-3 2. 3-2010-OPN-4 3. 3-2010-OPN-5
4. 3-2010-OPN-6

Discharge from sanitary sewer vents:

1. 3-16-OPN-26 2. 3-16-OPN-27 3-16-OPN-28

Miscellaneous discharges:

1. 3-16-OPN-8 2. 3-16-OPN-20 3. 3-16-OPN-30
4. 3-316-OPN-11

Recommended corrective actions are outlined in tables 1 through 22 as well as in the above text. Corrective actions should be performed as soon as practicable to minimize the chance of unpermitted discharge of pollutants.

# TABLE 1: TA 3-16 DRAIN SUMMARY

| OUTFALL NUMBER | ID NUMBER | ROOM ACTIVITY | ROOM NUMBER | STATUS OR RECOMMENDATIONS | EPA FORM PREPARED |
|---|---|---|---|---|---|
| 3-0016-OPN-01 SANITARY | 1FD1 | RESTROOM | 114A | NO CHANGE | NO |
| | 1FD2 | RESTROOM | 114B | NO CHANGE | |
| | 1LV1 | RESTROOM | 114A | NO CHANGE | |
| | 1LV2 | RESTROOM | 114B | NO CHANGE | |
| | 1SD01 | LAB | 114 | NO CHANGE | |
| | 1SD02 | LAB | 114C | NO CHANGE | |
| | 1SD03 | BREAK ROOM | 116 | NO CHANGE | |
| | 1SD04 | LAB | 120 | REMOVE | |
| | 1SD05 | LAB | 120 | REMOVE | |
| | 1SD06 | LAB | 122 | REMOVED | |
| | 1SD07 | LAB | 124 | REMOVED | |
| | 1SD08 | LAB | 126 | NO CHANGE | |
| | 1SD09 | LAB | 128 | NO CHANGE | |
| | 1SD10 | LAB | 123 | NO CHANGE | |
| | 1TL1 | RESTROOM | 114A | NO CHANGE | |
| | 1TL2 | RESTROOM | 114B | NO CHANGE | |
| | 1TL3 | RESTROOM | 114B | NO CHANGE | |
| | 1UR1 | RESTROOM | 114B | NO CHANGE | |
| | 1WF1 | CORRIDOR | 100 | NO CHANGE | |
| 3-0016-OPN-02 SANITARY | 1CSD6 | VERTICAL ACCELERATOR ROOM | 170 | NO CHANGE | NO |
| | 1FD3 | MECHANICAL ROOM | 150 | NO CHANGE | |
| | 1FD4 | MECHANICAL ROOM | 150 | NO CHANGE | |
| | 1FD5 | MECHANICAL ROOM | 150 | NO CHANGE | |
| | 1FS1 | MECHANICAL ROOM | 150 | NO CHANGE | |
| | 1FS2 | MECHANICAL ROOM | 150 | NO CHANGE | |
| | 1FS3 | MECHANICAL ROOM | 150 | NO CHANGE | |
| | 1FS4 | MECHANICAL ROOM | 150 | NO CHANGE | |
| | 1FS5 | MECHANICAL ROOM | 150 | NO CHANGE | |
| | 1FS6 | MECHANICAL ROOM | 150 | NO CHANGE | |
| | 1WF2 | CONTROL ROOM | 140 | REMOVE | |
| | 1WF3 | LAB | 147 | REMOVED | |
| | 2CSD1 | VERTICAL ACCELERATOR ROOM | 270 | REPIPE TO RLW | |
| | BCSD07 | JANITOR'S CLOSET | 42 | REPIPE TO RLW | |
| | BCSD08 | MACHINE ROOM | 62 | REPIPE TO RLW | |
| | BCSD09 | VERTICAL ACCELERATOR ROOM | 70 | REPIPE TO RLW | |
| | BCSD10 | MACHINE ROOM | 62 | REPIPE TO RLW | |
| | BCSD11 | REACTION ROOM | 64 | REPIPE TO RLW | |
| | BCSD12 | SPECTROMETER ROOM | 66 | REPIPE TO RLW | |
| | BCSD13 | SPECTROMETER ROOM | 66 | REMOVED | |
| | BCSD14 | NEUTRON ROOM | 67 | REPIPE TO RLW | |

# TABLE 1: TA 3-16 DRAIN SUMMARY

| OUTFALL NUMBER | ID NUMBER | ROOM ACTIVITY | ROOM NUMBER | STATUS OR RECOMMENDATIONS | EPA FORM PREPARED |
|---|---|---|---|---|---|
| 3-0016-OPN-02 CONT. | BCSD15 | LEAD STORAGE ROOM | 69 | REPIPE TO RLW | NO |
| | BCTD1 | VERTICAL ACCELERATOR ROOM | 70 | REPIPE TO RLW | |
| | BCTD2 | VERTICAL ACCELERATOR ROOM | 70 | REPIPE TO RLW | |
| | BFD01 | UTILITY TUNNEL | 21 | REPIPE TO RLW | |
| | BFD02 | UTILITY TUNNEL | 21 | REPIPE TO RLW | |
| | BFD03 | UTILITY TUNNEL | 21 | REPIPE TO RLW | |
| | BFD04 | UTILITY TUNNEL | 21 | REPIPE TO RLW | |
| | BFD05 | BATHROOM | 44 | REPIPE TO RLW | |
| | BFD06 | JANITOR'S CLOSET | 42 | REPIPE TO RLW | |
| | BFD07 | MECHANICAL ROOM | 50 | NO CHANGE | |
| | BFD08 | MECHANICAL ROOM | 50 | NO CHANGE | |
| | BFD09 | MECHANICAL ROOM | 50 | NO CHANGE | |
| | BFD10 | MECHANICAL ROOM | 50 | NO CHANGE | |
| | BFS1 | UTILITY/STORAGE ROOM | 41 | REPIPE TO RLW | |
| | BFS2 | MECHANICAL ROOM | 50 | NO CHANGE | |
| | BLV1 | BATHROOM | 44 | REPIPE TO RLW | |
| | BLV2 | BATHROOM | 44 | REPIPE TO RLW | |
| | BSH1 | BATHROOM | 44 | REPIPE TO RLW | |
| | BSLS1 | MECHANICAL ROOM | 50 | REPIPE TO RLW | |
| | BTL1 | BATHROOM | 44 | REMOVE | |
| | BUR1 | BATHROOM | 44 | REMOVE | |
| | BWF1 | MACHINE ROOM | 62 | REMOVED | |
| | BWF2 | MACHINE ROOM | 62 | REMOVED | |
| | BWF3 | CORRIDOR | 65 | REMOVED | |
| | BWF4 | APPARATUS ROOM | 40 | REMOVED | |
| | SBCFD1 | UTILITY TUNNEL | 3 | REPIPE TO RLW | |
| | SBCFD2 | UTILITY TUNNEL | 3 | REPIPE TO RLW | |
| | SBCFD3 | UTILITY TUNNEL | 3 | REPIPE TO RLW | |
| | SBCFD4 | UTILITY TUNNEL | 2 | REPIPE TO RLW | |
| | SBCFD5 | UTILITY TUNNEL | 2 | REPIPE TO RLW | |
| | SBCSD1 | UTILITY TUNNEL | 3 | REPIPE TO RLW | |
| | SBSP1 | UTILITY TUNNEL | 3 | REPIPE TO RLW | |

# TABLE 1: TA 3-16 DRAIN SUMMARY

| OUTFALL NUMBER | ID NUMBER | ROOM ACTIVITY | ROOM NUMBER | STATUS OR RECOMMENDATIONS | EPA FORM PREPARED |
|---|---|---|---|---|---|
| 3-0016-OPN-03 RLW | 1CCD1 | LAB | 119 | NO CHANGE | NO |
| | 1CFS1 | MECHANICAL ROOM | 150 | NO CHANGE | |
| | 1CFS2 | MECHANICAL ROOM | 150 | NO CHANGE | |
| | 1CSD1 | LAB | 119 | NO CHANGE | |
| | 1CSD2 | LAB | 119A | NO CHANGE | |
| | 1CSD3 | DARK ROOM | 119B | NO CHANGE | |
| | 1CSD4 | LAB | 119 | NO CHANGE | |
| | 1CSD5 | LAB | 147 | NO CHANGE | |
| | BCES1 | TARGET PREPERATION | 45 | NO CHANGE | |
| | BCFS1 | MECHANICAL ROOM | 50 | NO CHANGE | |
| | BCFS2 | MECHANICAL ROOM | 50 | NO CHANGE | |
| | BCSD1 | WORK ROOM | 48 | NO CHANGE | |
| | BCSD2 | TARGET PREPERATION | 45 | NO CHANGE | |
| | BCSD3 | TARGET PREPERATION | 45 | NO CHANGE | |
| | BCSD5 | ASSEMBLY | 47 | NO CHANGE | |
| | BCSD6 | ASSEMBLY | 47 | NO CHANGE | |
| 3-0016-OPN-04 | BCFD10 | GENERATOR ROOM | 68 | PLUG | NO |
| | RD1 | ROOF | N/A | NO CHANGE | |
| | RD2 | ROOF | N/A | NO CHANGE | |
| | RD3 | ROOF | N/A | NO CHANGE | |
| 3-0016-OPN-05 | N/A | MECHANICAL ROOM | 50 | NOI | NO |
| 3-0016-OPN-06 | N/A | AUXILIARY APPARATUS ROOM | 40 | NOI | NO |
| 3-0016-OPN-07 | N/A | LEAD STORAGE ROOM | 69 | NOI | NO |
| 3-0016-OPN-08 | N/A | LEAD STORAGE ROOM | 69 | NO CHANGE | NO |
| 3-0016-OPN-09 | N/A | LEAD STORAGE ROOM | 69 | REMOVE | NO |
| 3-0016-OPN-10 | RD5 | ROOF | N/A | NO CHANGE | NO |
| 3-0016-OPN-11 | N/A | VERTICAL ACCELERATOR ROOM | 70 | NOI | NO |
| 3-0016-OPN-12 | N/A | VERTICAL ACCELERATOR ROOM | 70 | NOI | NO |
| 3-0016-OPN-13 | N/A | VERTICAL ACCELERATOR ROOM | 70 | NOI | NO |
| 3-0016-OPN-14 | N/A | VERTICAL ACCELERATOR ROOM | 70 | NOI | NO |
| 3-0016-OPN-15 | RD4 | ROOF | N/A | NO CHANGE | NO |
| 3-0016-OPN-16 | N/A | VERTICAL ACCELERATOR ROOM | 70 | NO CHANGE | NO |
| 3-0016-OPN-17 | N/A | VERTICAL ACCELERATOR ROOM | 70 | NOI | NO |
| 3-0016-OPN-18 | N/A | VERTICAL ACCELERATOR ROOM | 70 | NOI | NO |
| 3-0016-OPN-19 | N/A | VERTICAL ACCELERATOR ROOM | 70 | NO CHANGE | NO |
| 3-0016-OPN-20 | N/A | VERTICAL ACCELERATOR ROOM | 70 | NOI | NO |
| 3-0016-OPN-21 | N/A | EMERGENCY ESCAPE TUNNEL | 59 | NOI | NO |
| 3-0016-OPN-22 | N/A | UTILITY TUNNEL | 21 | NOI | NO |
| 3-0016-OPN-23 | N/A | UTILITY TUNNEL | 21 | NOI | NO |
| 3-0016-OPN-24 | N/A | UTILITY TUNNEL | 21 | NOI | NO |

# TABLE 1: TA 3-16 DRAIN SUMMARY

| OUTFALL NUMBER | ID NUMBER | ROOM ACTIVITY | ROOM NUMBER | STATUS OR RECOMMENDATIONS | EPA FORM PREPARED |
|---|---|---|---|---|---|
| 3-0016-OPN-25 | N/A | OFFICE | 105 | NOI | NO |
| 3-0016-OPN-26 | N/A | LAB | 147 | NO CHANGE | NO |
| 3-0016-OPN-27 | N/A | MECHANICAL ROOM | 150 | NO CHANGE | NO |
| 3-0016-OPN-28 | N/A | MECHANICAL ROOM | 150 | NO CHANGE | NO |
| 3-0016-OPN-29 | N/A | VERTICAL ACCELERATOR ROOM | 170 | NO CHANGE | NO |
| 3-0016-OPN-30 | N/A | VERTICAL ACCELERATOR ROOM | 270 | NOI | NO |
| 3-0016-OPN-31 | N/A | VERTICAL ACCELERATOR ROOM | 370 | NOI | NO |
| 3-0016-OPN-32 | N/A | VERTICAL ACCELERATOR ROOM | 370 | NOI | NO |
| 3-0016-OPN-33 | N/A | OFFICE | 120 | NOI | NO |
| 3-0016-OPN-34 | N/A | OFFICE | 110 | NOI | NO |

# TABLE 2: TA 3-65 DRAIN SUMMARY

| OUTFALL NUMBER | ID NUMBER | ROOM ACTIVITY | ROOM NUMBER | STATUS OR RECOMMENDATIONS | EPA FORM PREPARED |
|---|---|---|---|---|---|
| 3-0065-OPN-1 RLW | 1FD1 | SOURCE STORAGE VAULT | N/A | PLUGGED | NO |
| | 1FD2 | WORK ROOM | N/A | PLUGGED | |
| | 1FD3 | UTILITY ROOM | N/A | NO CHANGE | |
| | 1FD4 | LEAK TEST ROOM | N/A | PLUGGED | |
| | 1FD5 | CART STORAGE ROOM | N/A | NO CHANGE | |
| | 1FD6 | CHANGE ROOM | N/A | NO CHANGE | |
| | 1FD7 | CHANGE ROOM | N/A | NO CHANGE | |
| | 1FD8 | STORAGE | N/A | PLUG | |
| | 1FD9 | STORAGE | N/A | PLUG | |
| | 1LV1 | RESTROOM | N/A | REMOVE | |
| | 1SD1 | WORK ROOM | N/A | REMOVE | |
| | 1SD2 | CHANGE ROOM | N/A | REMOVED | |
| | 1SD3 | CHANGE ROOM | N/A | NO CHANGE | |
| | 1TL1 | RESTROOM | N/A | REMOVED | |

# TABLE 3: TA 3-130 DRAIN SUMMARY

| OUTFALL NUMBER | ID NUMBER | ROOM ACTIVITY | ROOM NUMBER | STATUS OR RECOMMENDATIONS | EPA FORM PREPARED |
|---|---|---|---|---|---|
| 3-0130-OPN-1 SEPTIC TANK LA-11 | 1FD1 | WORK ROOM | N/A | REPIPE TO 01S | NO |
| | 1FD2 | RESTROOM | 102 | REPIPE TO 01S | |
| | 1FD3 | WORK ROOM | 100 | REPIPE TO 01S | |
| | 1LV1 | RESTROOM | 102 | REPIPE TO 01S | |
| | 1SD1 | RESTROOM | 102 | REPIPE TO 01S | |
| | 1TL1 | RESTROOM | 102 | REPIPE TO 01S | |
| | 1UR1 | RESTROOM | 102 | REPIPE TO 01S | |
| | 1WF1 | WORK ROOM | 100 | REPIPE TO 01S | |
| 3-0130-OPN-2 | N/A | EXTERIOR | N/A | NOI | NO |

# TABLE 4: TA 3-208 DRAIN SUMMARY

| OUTFALL NUMBER | ID NUMBER | ROOM ACTIVITY | ROOM NUMBER | STATUS OR RECOMMENDATIONS | EPA FORM PREPARED |
|---|---|---|---|---|---|
| 3-0208-OPN-1 03A025 | 1FD1 | MECHANICAL ROOM | N/A | REPIPE TO S.S. | YES |
| | 1FD2 | MECHANICAL ROOM | N/A | ~~CONTAIN/ELIMIN. PERMIT~~ | |
| | 1FS1 | MECHANICAL ROOM | N/A | REPIPE TO S.S. | |

# TABLE 5: TA 3-316 DRAIN SUMMARY

| OUTFALL NUMBER | ID NUMBER | ROOM ACTIVITY | ROOM NUMBER | STATUS OR RECOMMENDATIONS | EPA FORM PREPARED |
|---|---|---|---|---|---|
| 3-0316-OPN-01 SANITARY | 1FD1 | MECHANICAL ROOM | 103 | NO CHANGE | NO |
| | 1FD2 | MECHANICAL ROOM | 103 | NO CHANGE | |
| | 1FD3 | MECHANICAL ROOM | 103 | NO CHANGE | |
| | 1FD4 | RESTROOM | 102 | NO CHANGE | |
| | 1LV1 | RESTROOM | 102 | NO CHANGE | |
| | 1LV2 | RESTROOM | 102 | NO CHANGE | |
| | 1SD1 | MECHANICAL ROOM | 103 | NO CHANGE | |
| | 1TL1 | RESTROOM | 102 | NO CHANGE | |
| | 1TL2 | RESTROOM | 102 | NO CHANGE | |
| | 1UR1 | RESTROOM | 102 | NO CHANGE | |
| | 1WF1 | TEST AREA | 100 | NO CHANGE | |

# TABLE 5: TA 3-316 DRAIN SUMMARY

| OUTFALL NUMBER | ID NUMBER | ROOM ACTIVITY | ROOM NUMBER | STATUS OR RECOMMENDATIONS | EPA FORM PREPARED |
|---|---|---|---|---|---|
| 3-0316-OPN-02 | N/A | MECHANICAL ROOM | 103 | NOI | NO |
| 3-0316-OPN-03 | N/A | MECHANICAL ROOM | 103 | NOI | NO |
| 3-0316-OPN-04 | N/A | MECHANICAL ROOM | 103 | NOI | NO |
| 3-0316-OPN-05 | N/A | MECHANICAL ROOM | 103 | NOI | NO |
| 3-0316-OPN-06 | N/A | TEST AREA | 100 | NO CHANGE | NO |
| 3-0316-OPN-07 | N/A | TEST AREA | 100 | NO CHANGE | NO |
| 3-0316-OPN-08 | N/A | TEST AREA | 100 | NO CHANGE | NO |
| 3-0316-OPN-09 SANITARY | 1TD1 | TEST AREA | 100 | PLUG | NO |
| 3-0316-OPN-10 | N/A | TEST AREA | 100 | NOI | NO |
| 3-0316-OPN-11 | N/A | TEST AREA | 100 | NO CHANGE | NO |

# TABLE 6: TA 3-1522 DRAIN SUMMARY

| OUTFALL NUMBER | ID NUMBER | ROOM ACTIVITY | ROOM NUMBER | STATUS OR RECOMMENDATIONS | EPA FORM PREPARED |
|---|---|---|---|---|---|
| 3-1522-OPN-1 | N/A | EXTERIOR | N/A | NOI | NO |

# TABLE 7: TA 3-1538 DRAIN SUMMARY

| OUTFALL NUMBER | ID NUMBER | ROOM ACTIVITY | ROOM NUMBER | STATUS OR RECOMMENDATIONS | EPA FORM PREPARED |
|---|---|---|---|---|---|
| 3-1538-OPN-1 | N/A | EXTERIOR | N/A | NOI | NO |

# TABLE 8: TA 3-1612 DRAIN SUMMARY

| OUTFALL NUMBER | ID NUMBER | ROOM ACTIVITY | ROOM NUMBER | STATUS OR RECOMMENDATIONS | EPA FORM PREPARED |
|---|---|---|---|---|---|
| 3-1612-OPN-1 SANITARY | 1LV1 | RESTROOM | 105 | NO CHANGE | NO |
| | 1LV2 | RESTROOM | 109 | NO CHANGE | |
| | 1SD1 | JANITOR'S CLOSET | N/A | NO CHANGE | |
| | 1TL1 | RESTROOM | 105 | NO CHANGE | |
| | 1TL2 | RESTROOM | 109 | NO CHANGE | |
| | 1UR1 | RESTROOM | 105 | NO CHANGE | |
| | 1WF1 | CORRIDOR | 100 | NO CHANGE | |
| 3-1612-OPN-2 | N/A | ROOF | N/A | NOI | NO |

# TABLE 9: TA 3-1730 DRAIN SUMMARY

| OUTFALL NUMBER | ID NUMBER | ROOM ACTIVITY | ROOM NUMBER | STATUS OR RECOMMENDATIONS | EPA FORM PREPARED |
|---|---|---|---|---|---|
| 3-1730-OPN-1 | N/A | EXTERIOR | N/A | NOI | NO |

# TABLE 10: TA 3-1731 DRAIN SUMMARY

| OUTFALL NUMBER | ID NUMBER | ROOM ACTIVITY | ROOM NUMBER | STATUS OR RECOMMENDATIONS | EPA FORM PREPARED |
|---|---|---|---|---|---|
| 3-1731-OPN-1 SANITARY | 1LV1 | RESTROOM | 101 | NO CHANGE | NO |
| | 1TL1 | RESTROOM | 101 | NO CHANGE | |
| 3-1731-OPN-2 | N/A | EXTERIOR | N/A | NOI | NO |

# TABLE 11: TA 3-1734 DRAIN SUMMARY

| OUTFALL NUMBER | ID NUMBER | ROOM ACTIVITY | ROOM NUMBER | STATUS OR RECOMMENDATIONS | EPA FORM PREPARED |
|---|---|---|---|---|---|
| 3-1734-OPN-1 | N/A | EXTERIOR | N/A | NOI | NO |

# TABLE 12: TA 3-1762 DRAIN SUMMARY

| OUTFALL NUMBER | ID NUMBER | ROOM ACTIVITY | ROOM NUMBER | STATUS OR RECOMMENDATIONS | EPA FORM PREPARED |
|---|---|---|---|---|---|
| 3-1762-OPN-1 SANITARY | 1LV1 | RESTROOM | 102B | NO CHANGE | NO |
| | 1LV2 | RESTROOM | 102C | NO CHANGE | |
| | 1SD1 | BREAK AREA | 100 | NO CHANGE | |
| | 1TL1 | RESTROOM | 102B | NO CHANGE | |
| | 1TL2 | RESTROOM | 102C | NO CHANGE | |
| 3-1762-OPN-2 | N/A | EXTERIOR | N/A | NOI | NO |
| 3-1762-OPN-3 | WH | UTILITY CLOSET | 102A | NOI | NO |

# TABLE 13: TA 3-1898 DRAIN SUMMARY

| OUTFALL NUMBER | ID NUMBER | ROOM ACTIVITY | ROOM NUMBER | STATUS OR RECOMMENDATIONS | EPA FORM PREPARED |
|---|---|---|---|---|---|
| 3-1898-OPN-1 | N/A | EXTERIOR | N/A | NOI | NO |

# TABLE 14: TA 3-2003 DRAIN SUMMARY

| OUTFALL NUMBER | ID NUMBER | ROOM ACTIVITY | ROOM NUMBER | STATUS OR RECOMMENDATIONS | EPA FORM PREPARED |
|---|---|---|---|---|---|
| 3-2003-OPN-1 SANITARY | 1SD1 | BREAK ROOM | 109 | NO CHANGE | NO |
| 3-2003-OPN-2 | N/A | MECHANICAL ROOM | 135 | NOI | NO |
| 3-2003-OPN-3 | N/A | MECHANICAL ROOM | 135 | NOI | NO |

# TABLE 15: TA 3-2004 DRAIN SUMMARY

| OUTFALL NUMBER | ID NUMBER | ROOM ACTIVITY | ROOM NUMBER | STATUS OR RECOMMENDATIONS | EPA FORM PREPARED |
|---|---|---|---|---|---|
| 3-2004-OPN-1 SANITARY | 1LV1 | BATHROOM | 115 | NO CHANGE | NO |
| | 1LV2 | BATHROOM | 117 | NO CHANGE | |
| | 1SD1 | JANITOR'S CLOSET | 118 | NO CHANGE | |
| | 1SH1 | BATHROOM | 115 | NO CHANGE | |
| | 1SH2 | BATHROOM | 117 | NO CHANGE | |
| | 1TL1 | BATHROOM | 115 | NO CHANGE | |
| | 1TL2 | BATHROOM | 117 | NO CHANGE | |
| | 1UR1 | BATHROOM | 117 | NO CHANGE | |
| 3-2004-OPN-2 | N/A | MECHANICAL ROOM | 136 | NOI | NO |
| 3-2004-OPN-3 | N/A | MECHANICAL ROOM | 136 | NOI | NO |
| 3-2004-OPN-4 | N/A | MECHANICAL ROOM | 136 | NOI | NO |

# TABLE 16: TA 3-2005 DRAIN SUMMARY

| OUTFALL NUMBER | ID NUMBER | ROOM ACTIVITY | ROOM NUMBER | STATUS OR RECOMMENDATIONS | EPA FORM PREPARED |
|---|---|---|---|---|---|
| 3-2005-OPN-1 | N/A | MECHANICAL ROOM | 137 | NOI | NO |
| 3-2005-OPN-2 | N/A | MECHANICAL ROOM | 137 | NOI | NO |
| 3-2005-OPN-3 SANITARY | 1SD1 | CORRIDOR | 100B | NO CHANGE | NO |

# TABLE 17: TA 3-2006 DRAIN SUMMARY

| OUTFALL NUMBER | ID NUMBER | ROOM ACTIVITY | ROOM NUMBER | STATUS OR RECOMMENDATIONS | EPA FORM PREPARED |
|---|---|---|---|---|---|
| 3-2006-OPN-1 SANITARY | 1LV1 | RESTROOM | 105 | NO CHANGE | NO |
| | 1LV2 | RESTROOM | 105 | NO CHANGE | |
| | 1LV3 | RESTROOM | 107 | NO CHANGE | |
| | 1LV4 | RESTROOM | 107 | NO CHANGE | |
| | 1SD1 | BREAK AREA | 111 | NO CHANGE | |
| | 1TL1 | RESTROOM | 105 | NO CHANGE | |
| | 1TL2 | RESTROOM | 105 | NO CHANGE | |
| | 1TL3 | RESTROOM | 107 | NO CHANGE | |
| | 1TL4 | RESTROOM | 107 | NO CHANGE | |
| | 1WF1 | CORRIDOR | 100A | NO CHANGE | |
| 3-2006-OPN-2 | N/A | EXTERIOR | N/A | NOI | NO |
| 3-2006-OPN-3 | N/A | MECHANICAL ROOM | 160 | NOI | NO |
| 3-2006-OPN-4 | N/A | OFFICE | 102 | NOI | NO |

# TABLE 18: TA 3-2007 DRAIN SUMMARY

| OUTFALL NUMBER | ID NUMBER | ROOM ACTIVITY | ROOM NUMBER | STATUS OR RECOMMENDATIONS | EPA FORM PREPARED |
|---|---|---|---|---|---|
| 3-2007-OPN-1 | N/A | OFFICE | 115 | NOI | NO |
| 3-2007-OPN-2 | N/A | MECHANICAL ROOM | 159 | NOI | NO |
| 3-2007-OPN-3 | N/A | EXTERIOR | N/A | NOI | NO |

# TABLE 19: TA 3-2008 DRAIN SUMMARY

| OUTFALL NUMBER | ID NUMBER | ROOM ACTIVITY | ROOM NUMBER | STATUS OR RECOMMENDATIONS | EPA FORM PREPARED |
|---|---|---|---|---|---|
| 3-2008-OPN-1 SANITARY | 1SD1 | OFFICE AREA | 130 | NO CHANGE | NO |
| | 1WF1 | CORRIDOR | 100F | NO CHANGE | |
| 3-2008-OPN-2 | 1WH1 | OFFICE AREA (ABOVE CEILING) | 130 | NOI | NO |
| 3-2008-OPN-3 | N/A | MECHANICAL ROOM | 158 | NOI | NO |
| 3-2008-OPN-4 | N/A | EXTERIOR | N/A | NOI | NO |
| 3-2008-OPN-5 | N/A | CORRIDOR | 100F | NOI | NO |

# TABLE 20: TA 3-2009 DRAIN SUMMARY

| OUTFALL NUMBER | ID NUMBER | ROOM ACTIVITY | ROOM NUMBER | STATUS OR RECOMMENDATIONS | EPA FORM PREPARED |
|---|---|---|---|---|---|
| 3-2009-OPN-1 RLW | 1CD1 | WORK ROOM | 131 | NO CHANGE | NO |
| 3-2009-OPN-2 SANITARY | 1ED1 | WORK ROOM | 131 | REPIPE TO RLW | NO |
| | 1LV1 | BATHROOM | 136 | NO CHANGE | |
| | 1LV2 | BATHROOM | 136 | NO CHANGE | |
| | 1LV3 | BATHROOM | 138 | NO CHANGE | |
| | 1LV4 | BATHROOM | 138 | NO CHANGE | |
| | 1SD1 | DARKROOM | 135A | NO CHANGE | |
| | 1SD2 | DARKROOM | 135A | NO CHANGE | |
| | 1SD3 | DARKROOM | 135A | NO CHANGE | |
| | 1SH1 | BATHROOM | 136 | NO CHANGE | |
| | 1SH2 | BATHROOM | 138 | NO CHANGE | |
| | 1TL1 | BATHROOM | 136 | NO CHANGE | |
| | 1TL2 | BATHROOM | 136 | NO CHANGE | |
| | 1TL3 | BATHROOM | 138 | NO CHANGE | |
| | 1TL4 | BATHROOM | 138 | NO CHANGE | |
| | 1WF1 | CORRIDOR | 100H | NO CHANGE | |
| 3-2009-OPN-3 | N/A | DARKROOM | 135A | NOI | NO |
| 3-2009-OPN-4 | N/A | MECHANICAL ROOM | 157 | NOI | NO |
| 3-2009-OPN-5 | N/A | EXTERIOR | N/A | NOI | NO |

# TABLE 21: TA 3-2010 DRAIN SUMMARY

| OUTFALL NUMBER | ID NUMBER | ROOM ACTIVITY | ROOM NUMBER | STATUS OR RECOMMENDATIONS | EPA FORM PREPARED |
|---|---|---|---|---|---|
| 3-2010-OPN-1 SANITARY | 1ED1 | SPECTROSCOPY ROOM | 147 | REPIPE TO RLW | NO |
| | 1SD1 | BREAK ROOM | 145 | NO CHANGE | |
| | 1SD2 | JANITOR'S CLOSET | 145A | NO CHANGE | |
| 3-2010-OPN-2 | 1WH1 | JANITOR'S CLOSET | 145A | NOI | NO |
| 3-2010-OPN-3 | N/A | EXTERIOR LOADING DOCK | N/A | NOI | NO |
| 3-2010-OPN-4 | N/A | EXTERIOR LOADING DOCK | N/A | NOI | NO |
| 3-2010-OPN-5 | N/A | EXTERIOR LOADING DOCK | N/A | NOI | NO |
| 3-2010-OPN-6 | N/A | EXTERIOR LOADING DOCK | N/A | NOI | NO |
| 3-2010-OPN-7 | N/A | EXTERIOR | N/A | NOI | NO |
| 3-2010-OPN-8 | N/A | EXTERIOR | N/A | NOI | NO |
| 3-2010-OPN-9 | N/A | MECHANICAL ROOM | 156 | NOI | NO |

# TABLE 22

## NON DRAIN RECOMMENDATIONS

| BUILDING NUMBER | ROOM OR LOCATION | RECOMMENDATION |
|---|---|---|
| 16 | EXTERIOR | SECONDARY CONTAINMENT FOR TRANSFORMER |
| 16 | 70 | CONTAINMENT FOR AIR COMPRESSOR, VACUUM PUMP AND AIR DRYER |
| 130 | ALL | DELETE SEPTIC SYSTEM AND CONNECT DRAINS TO 01S SYSTEM |
| ALL | ALL SANITARY SINKS | PROVIDE "NO CHEMICALS IN DRAIN" SIGNS |

# TABLE 23

## SUMMARY OF ABBREVIATIONS

| ABBREVIATION | MEANING |
|---|---|
| A/C | AIR CONDITIONING |
| AD | AREA DRAIN |
| BFP | BACK FLOW PREVENTER |
| CCD | CONTAMINATED CUP DRAIN |
| CD | CUP DRAIN |
| CES | CONTAMINATION EMER. SHOWER |
| CFS | CONTAMINATED FLOOR SINK |
| CLV | CONTAMINATED LAVATORY |
| CSD | CONTAMINATED SINK |
| CSH | CONTAMINATED SHOWER |
| CTD | CONTAMINATED TRENCH DRAIN |
| EC | EVAPORATIVE COOLER |
| ED | EMERGENCY EYE WASH |
| FD | FLOOR DRAIN |
| FS | FLOOR SINK |
| IM | ICE MAKER |
| LV | LAVATORY |
| MH | MANHOLE |
| PRV | PRESSURE RELIEF VALVE |
| RLW | RADIOACTIVE LIQUID WASTE |
| RD | ROOF DRAIN |
| SD | SINK DRAIN |
| SH | SHOWER |
| SLS | SANITARY SEWAGE LIFT STATION |
| SP | SUMP PUMP |
| SS | SANITARY SEWER |
| TD | TRENCH DRAIN |
| TL | TOILET |
| UR | URINAL |
| WF | WATER FOUNTAIN |
| WH | WATER HEATER |

REPORT # 38

| TA | BLDG | OUTLET PIPING NO | EPA OUTFALL # | DRAIN # | ROOM # | ROOM DESCRIPTION | FLOW RATE | | PERIODICITY | SEASONAL | SOURCE TYPES |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 16 | 3-0016-OPN-02 | 01S/SWSC | BCSD08 | 62 | MACHINE ROOM | | | 5 DAYS A WEEK | No | HAND WASHING |
| 3 | 16 | 3-0016-OPN-02 | 01S/SWSC | BCSD09 | 70 | VERTICAL ACCELERATOR | | | 5 DAYS A WEEK | No | HAND WASHING |
| 3 | 16 | 3-0016-OPN-02 | 01S/SWSC | BCSD10 | 62 | MACHINE ROOM | | | 5 DAYS A WEEK | No | HAND WASHING |
| 3 | 16 | 3-0016-OPN-02 | 01S/SWSC | BCSD11 | 64 | REACTION ROOM | | | 5 DAYS A WEEK | No | HAND WASHING |
| 3 | 16 | 3-0016-OPN-02 | 01S/SWSC | BCSD12 | 66 | SPECTROMETER ROOM | | | 5 DAYS A WEEK | No | HAND WASHING |
| 3 | 16 | 3-0016-OPN-02 | 01S/SWSC | BCSD13 | 66 | SPECTROMETER ROOM | | | 5 DAYS A WEEK | No | HAND WASHING |
| 3 | 16 | 3-0016-OPN-02 | 01S/SWSC | BCSD14 | 67 | NEUTRON ROOM | | | 5 DAYS A WEEK | No | HAND WASHING |
| 3 | 16 | 3-0016-OPN-02 | 01S/SWSC | BCSD15 | 69 | LEAD STORAGE ROOM | | | 5 DAYS A WEEK | No | HAND WASHING |
| 3 | 16 | 3-0016-OPN-02 | 01S/SWSC | BCTD1 | 70 | VERTICAL ACCELERATOR | | | FLOW IS NIL | No | FLOOR WASHINGS/CONDENSED WTR |
| 3 | 16 | 3-0016-OPN-02 | 01S/SWSC | BCTD2 | 70 | VERTICAL ACCELERATOR | | | FLOW IS NIL | No | FLOOR WASHINGS |
| 3 | 16 | 3-0016-OPN-02 | 01S/SWSC | BFD01 | 21 | UTILITY TUNNEL | | | FLOW IS NIL | No | FLOOR WASHINGS |
| 3 | 16 | 3-0016-OPN-02 | 01S/SWSC | BFD02 | 21 | UTILITY TUNNEL | | | FLOW IS NIL | No | FLOOR WASHINGS |
| 3 | 16 | 3-0016-OPN-02 | 01S/SWSC | BFD03 | 21 | UTILITY TUNNEL | | | FLOW IS NIL | No | FLOOR WASHINGS |
| 3 | 16 | 3-0016-OPN-02 | 01S/SWSC | BFD04 | 21 | UTILITY TUNNEL | | | FLOW IS NIL | No | FLOOR WASHINGS |
| 3 | 16 | 3-0016-OPN-02 | 01S/SWSC | BFD05 | 44 | BATHROOM | | | FLOW IS NIL | No | FLOOR WASHINGS |
| 3 | 16 | 3-0016-OPN-02 | 01S/SWSC | BFD06 | 42 | JANITOR'S CLOSET | | | FLOW IS NIL | No | FLOOR WASHINGS |
| 3 | 16 | 3-0016-OPN-02 | 01S/SWSC | BFD07 | 50 | MECHANICAL ROOM | | | FLOW IS NIL | No | BACKFLOW PREVENTER/COND. WTR |
| 3 | 16 | 3-0016-OPN-02 | 01S/SWSC | BFD08 | 50 | MECHANICAL ROOM | | | FLOW IS NIL | No | HVAC PLENUM DRAIN |
| 3 | 16 | 3-0016-OPN-02 | 01S/SWSC | BFD09 | 50 | MECHANICAL ROOM | | | FLOW IS NIL | No | HVAC FILTER PLENUM DRAIN |
| 3 | 16 | 3-0016-OPN-02 | 01S/SWSC | BFD10 | 50 | MECHANICAL ROOM | | | FLOW IS NIL | No | FLOOR WASHINGS |
| 3 | 16 | 3-0016-OPN-02 | 01S/SWSC | BFS1 | 41 | UTILITY/STORAGE ROOM | | | FLOW IS NIL | No | WATER BACKFLOW PREVENTER |
| 3 | 16 | 3-0016-OPN-02 | 01S/SWSC | BFS2 | 50 | MECHANICAL ROOM | | | FLOW IS NIL | No | TREATED COOLING WATER |
| 3 | 16 | 3-0016-OPN-02 | 01S/SWSC | BLV1 | 44 | BATHROOM | | | 5 DAYS A WEEK | No | LAVATORY |
| 3 | 16 | 3-0016-OPN-02 | 01S/SWSC | BLV2 | 44 | BATHROOM | | | 5 DAYS A WEEK | No | LAVATORY |
| 3 | 16 | 3-0016-OPN-02 | 01S/SWSC | BSH1 | 44 | BATHROOM | | | 5 DAYS A WEEK | No | SHOWER |
| 3 | 16 | 3-0016-OPN-02 | 01S/SWSC | BSLS1 | 50 | MECHANICAL ROOM | | | 5 DAYS A WEEK | No | SEWAGE LIFT STATION |
| 3 | 16 | 3-0016-OPN-02 | 01S/SWSC | BTL1 | 44 | BATHROOM | | | 5 DAYS A WEEK | No | TOILET |
| 3 | 16 | 3-0016-OPN-02 | 01S/SWSC | BUR1 | 44 | BATHROOM | | | 5 DAYS A WEEK | No | URINAL |
| 3 | 16 | 3-0016-OPN-02 | 01S/SWSC | BWF1 | 62 | MACHINE ROOM | | | NO FLOW | No | DRINKING FOUNTAIN (REMOVED) |
| 3 | 16 | 3-0016-OPN-02 | 01S/SWSC | BWF2 | 62 | MACHINE ROOM | | | NO FLOW | No | DRINKING FOUNTAIN (REMOVED) |
| 3 | 16 | 3-0016-OPN-02 | 01S/SWSC | BWF3 | 65 | CORRIDOR | | | NO FLOW | No | DRINKING FOUNTAIN (REMOVED) |
| 3 | 16 | 3-0016-OPN-02 | 01S/SWSC | BWF4 | 40 | APPARATUS ROOM | | | NO FLOW | No | DRINKING FOUNTAIN (REMOVED) |
| 3 | 16 | 3-0016-OPN-02 | 01S/SWSC | SBCFD1 | 3 | UTILITY TUNNEL | | | FLOW IS NIL | No | FLOOR WASHINGS |

REPORT # 38

| TA | BLDG | OUTLET PIPING NO | EPA OUTFALL # | DRAIN # | ROOM # | ROOM DESCRIPTION | FLOW RATE | | PERIODICITY | SEASONAL | SOURCE TYPES |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 65 | 3-0065-OPN-1 | RLW | 1SD1 | N/A | WORK ROOM | | | 5 DAYS A WEEK | No | HAND WASHING |
| 3 | 65 | 3-0065-OPN-1 | RLW | 1SD2 | N/A | CHANGE ROOM | | | NO FLOW | No | SINK DRAIN (REMOVED) |
| 3 | 65 | 3-0065-OPN-1 | RLW | 1SD3 | N/A | CHANGE ROOM | | | 5 DAYS A WEEK | No | SERVICE SINK |
| 3 | 65 | 3-0065-OPN-1 | RLW | 1TL1 | N/A | RESTROOM | | | NO FLOW | No | TOILET (REMOVED) |
| 3 | 130 | 3-0130-OPN-1 | ST LA-11 | 1FD1 | N/A | WORK ROOM | | | FLOW IS NIL | No | DOMESTIC WATER DRAIN |
| 3 | 130 | 3-0130-OPN-1 | ST LA-11 | 1FD2 | 102 | RESTROOM | | | FLOW IS NIL | No | FLOOR WASHINGS |
| 3 | 130 | 3-0130-OPN-1 | ST LA-11 | 1FD3 | 100 | WORK ROOM | | | FLOW IS NIL | No | WATER BACKFLOW PREVENTER |
| 3 | 130 | 3-0130-OPN-1 | ST LA-11 | 1FD3 | 100 | WORK ROOM | | | FLOW IS NIL | No | WATER HEATER PRV |
| 3 | 130 | 3-0130-OPN-1 | ST LA-11 | 1LV1 | 102 | RESTROOM | | | 5 DAYS A WEEK | No | LAVATORY |
| 3 | 130 | 3-0130-OPN-1 | ST LA-11 | 1SD1 | 102 | RESTROOM | | | 5 DAYS A WEEK | No | SERVICE SINK |
| 3 | 130 | 3-0130-OPN-1 | ST LA-11 | 1TL1 | 102 | RESTROOM | | | 5 DAYS A WEEK | No | TOILET |
| 3 | 130 | 3-0130-OPN-1 | ST LA-11 | 1UR1 | 102 | RESTROOM | | | 5 DAYS A WEEK | No | URINAL |
| 3 | 130 | 3-0130-OPN-1 | ST LA-11 | 1WF1 | 100 | WORK ROOM | | | 5 DAYS A WEEK | No | DRINKING FOUNTAIN |
| 3 | 130 | 3-0130-OPN-2 | DAYLIGHT | N/A | N/A | EXTERIOR | | | FLOW IS NIL | No | CONDENSED WATER |
| 3 | 208 | 3-0208-OPN-1 | 03A025 | 1FD1 | N/A | MECHANICAL ROOM | | | FLOW IS NIL | No | FLOOR WASHINGS |
| 3 | 208 | 3-0208-OPN-1 | 03A025 | 1FD2 | N/A | MECHANICAL ROOM | | | FLOW IS NIL | No | FLOOR WASHINGS |
| 3 | 208 | 3-0208-OPN-1 | 03A025 | 1FS1 | N/A | MECHANICAL ROOM | 0.4 | GPM | FLOW IS NIL | No | COOLING TOWER BLOWDOWN |
| 3 | 208 | 3-0208-OPN-1 | 03A025 | N/A | N/A | PERMITTED OUTFALL | 0.4 | GPM | FLOW IS NIL | No | COOLING TOWER BLOWDOWN |
| 3 | 316 | 3-0316-OPN-01 | 01S/SWSC | 1FD1 | 103 | MECHANICAL ROOM | | | FLOW IS NIL | No | WATER PRESS. REDUCING VALVE |
| 3 | 316 | 3-0316-OPN-01 | 01S/SWSC | 1FD2 | 103 | MECHANICAL ROOM | | | FLOW IS NIL | No | AIR COMPRESSOR DRAIN |
| 3 | 316 | 3-0316-OPN-01 | 01S/SWSC | 1FD3 | 103 | MECHANICAL ROOM | | | FLOW IS NIL | No | WATER HEATER PRV |
| 3 | 316 | 3-0316-OPN-01 | 01S/SWSC | 1FD3 | 103 | MECHANICAL ROOM | | | FLOW IS NIL | No | WATER BACKFLOW PREVENTER DRAIN |
| 3 | 316 | 3-0316-OPN-01 | 01S/SWSC | 1FD4 | 102 | RESTROOM | | | FLOW IS NIL | No | FLOOR WASHINGS |
| 3 | 316 | 3-0316-OPN-01 | 01S/SWSC | 1LV1 | 102 | RESTROOM | | | 5 DAYS A WEEK | No | LAVATORY |
| 3 | 316 | 3-0316-OPN-01 | 01S/SWSC | 1LV2 | 102 | RESTROOM | | | 5 DAYS A WEEK | No | LAVATORY |
| 3 | 316 | 3-0316-OPN-01 | 01S/SWSC | 1SD1 | 103 | MECHANICAL ROOM | | | 5 DAYS A WEEK | No | SERVICE SINK |
| 3 | 316 | 3-0316-OPN-01 | 01S/SWSC | 1TL1 | 102 | RESTROOM | | | 5 DAYS A WEEK | No | TOILET |
| 3 | 316 | 3-0316-OPN-01 | 01S/SWSC | 1TL2 | 102 | RESTROOM | | | 5 DAYS A WEEK | No | TOILET |
| 3 | 316 | 3-0316-OPN-01 | 01S/SWSC | 1UR1 | 102 | RESTROOM | | | 5 DAYS A WEEK | No | URINAL |
| 3 | 316 | 3-0316-OPN-01 | 01S/SWSC | 1WF1 | 100 | TEST AREA | | | 5 DAYS A WEEK | No | DRINKING FOUNTAIN |
| 3 | 316 | 3-0316-OPN-02 | DAYLIGHT | N/A | 103 | MECHANICAL ROOM | | | FLOW IS NIL | No | FIRE LINE DRAIN |
| 3 | 316 | 3-0316-OPN-03 | DAYLIGHT | N/A | 103 | MECHANICAL ROOM | | | FLOW IS NIL | No | FIRE LINE DRAIN |
| 3 | 316 | 3-0316-OPN-04 | DAYLIGHT | N/A | 103 | MECHANICAL ROOM | | | FLOW IS NIL | No | FIRE LINE DRAIN |

REPORT # 38

| TA | BLDG | OUTLET PIPING NO | EPA OUTFALL # | DRAIN # | ROOM # | ROOM DESCRIPTION | FLOW RATE | | PERIODICITY | SEASONAL | SOURCE TYPES |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 316 | 3-0316-OPN-05 | DAYLIGHT | N/A | 103 | MECHANICAL ROOM | | | FLOW IS NIL | No | FIRE LINE DRAIN |
| 3 | 316 | 3-0316-OPN-06 | ATMOSPHERE | N/A | 100 | TEST AREA | | | NO FLOW | No | EQUIP. EXHAUST VENT |
| 3 | 316 | 3-0316-OPN-07 | ATMOSPHERE | N/A | 100 | TEST AREA | | | NO FLOW | No | EQUIP. EXHAUST VENT |
| 3 | 316 | 3-0316-OPN-08 | ATMOSPHERE | N/A | 100 | TEST AREA | | | NO FLOW | No | EQUIP. EXHAUST VENT |
| 3 | 316 | 3-0316-OPN-09 | 01S/SWSC | 1TD1 | 100 | TEST AREA | | | NO FLOW | No | TRENCH DRAIN (PLUGGED) |
| 3 | 316 | 3-0316-OPN-10 | DAYLIGHT | N/A | 100 | TEST AREA | | | FLOW IS NIL | Yes | CONDENSED WATER DRAIN |
| 3 | 316 | 3-0316-OPN-11 | ATMOSPHERE | N/A | 100 | TEST AREA | | | NO FLOW | No | COMPRESSED AIR PRESS. RELIEF |
| 3 | 477 | 3-0477 | ND | N/A | N/A | TRANSPORTAINER | | | NO FLOW | No | NO DRAINS |
| 3 | 550 | 3-0550 | ND | N/A | N/A | OIL STORAGE TANKS(2) | | | NO FLOW | No | NO DRAINS |
| 3 | 1228 | 3-1228 | ND | N/A | N/A | STORAGE SHED | | | NO FLOW | No | NO DRAINS |
| 3 | 1229 | 3-1229 | ND | N/A | N/A | STORAGE SHED | | | NO FLOW | No | NO DRAINS |
| 3 | 1522 | 3-1522-OPN-1 | DAYLIGHT | N/A | N/A | EXTERIOR | | | FLOW IS NIL | Yes | EQUIP. CONDENSATE DRAIN |
| 3 | 1538 | 3-1538-OPN-1 | DAYLIGHT | N/A | N/A | EXTERIOR | | | FLOW IS NIL | Yes | EQUIP. CONDENSATE DRAIN |
| 3 | 1612 | 3-1612-OPN-1 | 01S/SWSC | 1LV1 | 105 | RESTROOM | | | 5 DAYS A WEEK | No | LAVATORY |
| 3 | 1612 | 3-1612-OPN-1 | 01S/SWSC | 1LV2 | 109 | RESTROOM | | | 5 DAYS A WEEK | No | LAVATORY |
| 3 | 1612 | 3-1612-OPN-1 | 01S/SWSC | 1SD1 | N/A | JANITOR'S CLOSET | | | 5 DAYS A WEEK | No | SERVICE SINK |
| 3 | 1612 | 3-1612-OPN-1 | 01S/SWSC | 1TL1 | 105 | RESTROOM | | | 5 DAYS A WEEK | No | TOILET |
| 3 | 1612 | 3-1612-OPN-1 | 01S/SWSC | 1TL2 | 109 | RESTROOM | | | 5 DAYS A WEEK | No | TOILET |
| 3 | 1612 | 3-1612-OPN-1 | 01S/SWSC | 1UR1 | 105 | RESTROOM | | | 5 DAYS A WEEK | No | URINAL |
| 3 | 1612 | 3-1612-OPN-1 | 01S/SWSC | 1WF1 | 100 | CORRIDOR | | | 5 DAYS A WEEK | No | DRINKING FOUNTAIN |
| 3 | 1612 | 3-1612-OPN-2 | DAYLIGHT | N/A | N/A | ROOF | | | FLOW IS NIL | Yes | CONDENSED WATER DRAIN |
| 3 | 1730 | 3-1730-OPN-1 | DAYLIGHT | N/A | N/A | EXTERIOR | | | FLOW IS NIL | Yes | EQUIP. CONDENSATE DRAIN |
| 3 | 1731 | 3-1731-OPN-1 | 01S/SWSC | 1LV1 | 101 | RESTROOM | | | 5 DAYS A WEEK | No | LAVATORY |
| 3 | 1731 | 3-1731-OPN-1 | 01S/SWSC | 1TL1 | 101 | RESTROOM | | | 5 DAYS A WEEK | No | TOILET |
| 3 | 1731 | 3-1731-OPN-2 | DAYLIGHT | N/A | N/A | EXTERIOR | | | FLOW IS NIL | Yes | CONDENSED WATER DRAIN |
| 3 | 1734 | 3-1734-OPN-1 | DAYLIGHT | N/A | N/A | EXTERIOR | | | FLOW IS NIL | Yes | EQUIP. CONDENSATE DRAIN |
| 3 | 1762 | 3-1762-OPN-1 | 01S/SWSC | 1LV1 | 102B | RESTROOM | | | 5 DAYS A WEEK | No | LAVATORY |
| 3 | 1762 | 3-1762-OPN-1 | 01S/SWSC | 1LV2 | 102C | RESTROOM | | | 5 DAYS A WEEK | No | LAVATORY |
| 3 | 1762 | 3-1762-OPN-1 | 01S/SWSC | 1SD1 | 100 | BREAK AREA | | | 5 DAYS A WEEK | No | COUNTERTOP SINK |
| 3 | 1762 | 3-1762-OPN-1 | 01S/SWSC | 1TL1 | 102B | RESTROOM | | | 5 DAYS A WEEK | No | TOILET |
| 3 | 1762 | 3-1762-OPN-1 | 01S/SWSC | 1TL2 | 102C | RESTROOM | | | 5 DAYS A WEEK | No | TOILET |
| 3 | 1762 | 3-1762-OPN-2 | DAYLIGHT | N/A | N/A | EXTERIOR | | | FLOW IS NIL | Yes | CONDENSED WATER DRAIN |
| 3 | 1762 | 3-1762-OPN-3 | DAYLIGHT | N/A | 102A | UTILITY CLOSET | | | FLOW IS NIL | Yes | WATER HEATER PRV |

REPORT # 38

| TA | BLDG | OUTLET PIPING NO | EPA OUTFALL # | DRAIN # | ROOM # | ROOM DESCRIPTION | FLOW RATE | | PERIODICITY | SEASONAL | SOURCE TYPES |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 1898 | 3-1898-OPN-1 | DAYLIGHT | N/A | N/A | EXTERIOR | | | FLOW IS NIL | Yes | EQUIP. CONDENSATE DRAIN |
| 3 | 1944 | 3-1944 | ND | N/A | N/A | TRANSPORTAINER | | | NO FLOW | No | NO DRAINS |
| 3 | 1945 | 3-1945 | ND | N/A | N/A | TRANSPORTAINER | | | NO FLOW | No | NO DRAINS |
| 3 | 1946 | 3-1946 | ND | N/A | N/A | TRANSPORTAINER | | | NO FLOW | No | NO DRAINS |
| 3 | 1949 | 3-1949 | ND | N/A | N/A | TRANSPORTAINER | | | NO FLOW | No | NO DRAINS |
| 3 | 2003 | 3-2003-OPN-1 | 01S/SWSC | 1SD1 | 109 | BREAK ROOM | | | FLOW IS NIL | No | COUNTERTOP SINK |
| 3 | 2003 | 3-2003-OPN-2 | DAYLIGHT | N/A | 135 | MECHANICAL ROOM | | | FLOW IS NIL | Yes | EQUIP. CONDENSED WATER DRAIN |
| 3 | 2003 | 3-2003-OPN-3 | DAYLIGHT | N/A | 135 | MECHANICAL ROOM | | | FLOW IS NIL | No | WATER HEATER DRAIN |
| 3 | 2004 | 3-2004-OPN-1 | 01S/SWSC | 1LV1 | 115 | BATHROOM | | | 5 DAYS A WEEK | No | LAVATORY |
| 3 | 2004 | 3-2004-OPN-1 | 01S/SWSC | 1LV2 | 117 | BATHROOM | | | 5 DAYS A WEEK | No | LAVATORY |
| 3 | 2004 | 3-2004-OPN-1 | 01S/SWSC | 1SD1 | 118 | JANITOR'S CLOSET | | | 5 DAYS A WEEK | No | SERVICE SINK |
| 3 | 2004 | 3-2004-OPN-1 | 01S/SWSC | 1SH1 | 115 | BATHROOM | | | 5 DAYS A WEEK | No | SHOWER DRAIN |
| 3 | 2004 | 3-2004-OPN-1 | 01S/SWSC | 1SH2 | 117 | BATHROOM | | | 5 DAYS A WEEK | No | SHOWER DRAIN |
| 3 | 2004 | 3-2004-OPN-1 | 01S/SWSC | 1TL1 | 115 | BATHROOM | | | 5 DAYS A WEEK | No | TOILET |
| 3 | 2004 | 3-2004-OPN-1 | 01S/SWSC | 1TL2 | 117 | BATHROOM | | | 5 DAYS A WEEK | No | TOILET |
| 3 | 2004 | 3-2004-OPN-1 | 01S/SWSC | 1UR1 | 117 | BATHROOM | | | 5 DAYS A WEEK | No | URINAL |
| 3 | 2004 | 3-2004-OPN-2 | DAYLIGHT | N/A | 136 | MECHANICAL ROOM | | | FLOW IS NIL | Yes | EQUIP. CONDENSATE DRAIN |
| 3 | 2004 | 3-2004-OPN-3 | DAYLIGHT | N/A | 136 | MECHANICAL ROOM | | | FLOW IS NIL | No | WATER HEATER DRAIN |
| 3 | 2004 | 3-2004-OPN-4 | DAYLIGHT | N/A | 136 | MECHANICAL ROOM | | | FLOW IS NIL | No | WATER BACKFLOW PREVENTER DRAIN |
| 3 | 2005 | 3-2005-OPN-1 | DAYLIGHT | N/A | 137 | MECHANICAL ROOM | | | FLOW IS NIL | Yes | EQUIP. CONDENSATE DRAIN |
| 3 | 2005 | 3-2005-OPN-2 | DAYLIGHT | N/A | 137 | MECHANICAL ROOM | | | FLOW IS NIL | No | WATER HEATER DRAIN |
| 3 | 2005 | 3-2005-OPN-3 | 01S/SWSC | 1SD1 | 100B | CORRIDOR | | | 5 DAYS A WEEK | No | SERVICE SINK |
| 3 | 2006 | 3-2006-OPN-1 | 01S/SWSC | 1LV1 | 105 | RESTROOM | | | 5 DAYS A WEEK | No | LAVATORY |
| 3 | 2006 | 3-2006-OPN-1 | 01S/SWSC | 1LV2 | 105 | RESTROOM | | | 5 DAYS A WEEK | No | LAVATORY |
| 3 | 2006 | 3-2006-OPN-1 | 01S/SWSC | 1LV3 | 107 | RESTROOM | | | 5 DAYS A WEEK | No | LAVATORY |
| 3 | 2006 | 3-2006-OPN-1 | 01S/SWSC | 1LV4 | 107 | RESTROOM | | | 5 DAYS A WEEK | No | LAVATORY |
| 3 | 2006 | 3-2006-OPN-1 | 01S/SWSC | 1SD1 | 111 | BREAK AREA | | | 5 DAYS A WEEK | No | COUNTERTOP SINK |
| 3 | 2006 | 3-2006-OPN-1 | 01S/SWSC | 1TL1 | 105 | RESTROOM | | | 5 DAYS A WEEK | No | TOILET |
| 3 | 2006 | 3-2006-OPN-1 | 01S/SWSC | 1TL2 | 105 | RESTROOM | | | 5 DAYS A WEEK | No | TOILET |
| 3 | 2006 | 3-2006-OPN-1 | 01S/SWSC | 1TL3 | 107 | RESTROOM | | | 5 DAYS A WEEK | No | TOILET |
| 3 | 2006 | 3-2006-OPN-1 | 01S/SWSC | 1TL4 | 107 | RESTROOM | | | 5 DAYS A WEEK | No | TOILET |
| 3 | 2006 | 3-2006-OPN-1 | 01S/SWSC | 1WF1 | 100A | CORRIDOR | | | 5 DAYS A WEEK | No | DRINKING FOUNTAIN |
| 3 | 2006 | 3-2006-OPN-2 | DAYLIGHT | N/A | N/A | EXTERIOR | | | FLOW IS NIL | Yes | EQUIP. CONDENSED WATER DRAIN |

REPORT # 38

| TA | BLDG | OUTLET PIPING NO | EPA OUTFALL # | DRAIN # | ROOM # | ROOM DESCRIPTION | FLOW RATE | | PERIODICITY | SEASONAL | SOURCE TYPES |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 2006 | 3-2006-OPN-3 | DAYLIGHT | N/A | 160 | MECHANICAL ROOM | | | FLOW IS NIL | No | WATER BACKFLOW PREVENTER DRAIN |
| 3 | 2006 | 3-2006-OPN-4 | DAYLIGHT | N/A | 102 | OFFICE | | | FLOW IS NIL | No | FIRE LINE DRAIN |
| 3 | 2007 | 3-2007-OPN-1 | DAYLIGHT | N/A | 115 | OFFICE | | | FLOW IS NIL | No | FIRE LINE DRAIN |
| 3 | 2007 | 3-2007-OPN-2 | DAYLIGHT | N/A | 159 | MECHANICAL ROOM | | | FLOW IS NIL | No | WATER BACKFLOW PREVENTER DRAIN |
| 3 | 2007 | 3-2007-OPN-3 | DAYLIGHT | N/A | N/A | EXTERIOR | | | FLOW IS NIL | Yes | EQUIP. CONDENSED WATER DRAIN |
| 3 | 2008 | 3-2008-OPN-1 | 01S/SWSC | 1SD1 | 130 | OFFICE AREA | | | 5 DAYS A WEEK | No | COUNTERTOP SINK |
| 3 | 2008 | 3-2008-OPN-1 | 01S/SWSC | 1WF1 | 100F | CORRIDOR | | | 5 DAYS A WEEK | No | DRINKING FOUNTAIN |
| 3 | 2008 | 3-2008-OPN-2 | DAYLIGHT | 1WH1 | 130 | OFFICE AREA | | | FLOW IS NIL | No | WATER HEATER DRAIN |
| 3 | 2008 | 3-2008-OPN-3 | DAYLIGHT | N/A | 158 | MECHANICAL ROOM | | | FLOW IS NIL | Yes | WATER BACKFLOW PREVENTER DRAIN |
| 3 | 2008 | 3-2008-OPN-4 | DAYLIGHT | N/A | N/A | EXTERIOR | | | FLOW IS NIL | No | EQUIP. CONDENSED WATER DRAIN |
| 3 | 2008 | 3-2008-OPN-5 | DAYLIGHT | N/A | 100F | CORRIDOR | | | FLOW IS NIL | No | FIRE LINE DRAIN |
| 3 | 2009 | 3-2009-OPN-1 | RLW | 1CD1 | 131 | WORK ROOM | | | 5 DAYS A WEEK | No | FUME HOOD CUP DRAIN |
| 3 | 2009 | 3-2009-OPN-2 | 01S/SWSC | 1ED1 | 131 | WORK ROOM | | | FLOW IS NIL | No | EMERGENCY EYE WASH DRAIN |
| 3 | 2009 | 3-2009-OPN-2 | 01S/SWSC | 1LV1 | 136 | BATHROOM | | | 5 DAYS A WEEK | No | LAVATORY |
| 3 | 2009 | 3-2009-OPN-2 | 01S/SWSC | 1LV2 | 136 | BATHROOM | | | 5 DAYS A WEEK | No | LAVATORY |
| 3 | 2009 | 3-2009-OPN-2 | 01S/SWSC | 1LV3 | 138 | BATHROOM | | | 5 DAYS A WEEK | No | LAVATORY |
| 3 | 2009 | 3-2009-OPN-2 | 01S/SWSC | 1LV4 | 138 | BATHROOM | | | 5 DAYS A WEEK | No | LAVATORY |
| 3 | 2009 | 3-2009-OPN-2 | 01S/SWSC | 1SD1 | 135A | DARKROOM | | | 5 DAYS A WEEK | No | RINSE WATER/HAND WASHING |
| 3 | 2009 | 3-2009-OPN-2 | 01S/SWSC | 1SD2 | 135A | DARKROOM | | | 5 DAYS A WEEK | No | RINSE WATER/HAND WASHING |
| 3 | 2009 | 3-2009-OPN-2 | 01S/SWSC | 1SD3 | 135A | DARKROOM | | | 5 DAYS A WEEK | No | RINSE WATER/HAND WASHING |
| 3 | 2009 | 3-2009-OPN-2 | 01S/SWSC | 1SH1 | 136 | BATHROOM | | | 5 DAYS A WEEK | No | SHOWER DRAIN |
| 3 | 2009 | 3-2009-OPN-2 | 01S/SWSC | 1SH2 | 138 | BATHROOM | | | 5 DAYS A WEEK | No | SHOWER DRAIN |
| 3 | 2009 | 3-2009-OPN-2 | 01S/SWSC | 1TL1 | 136 | BATHROOM | | | 5 DAYS A WEEK | No | TOILET |
| 3 | 2009 | 3-2009-OPN-2 | 01S/SWSC | 1TL2 | 136 | BATHROOM | | | 5 DAYS A WEEK | No | TOILET |
| 3 | 2009 | 3-2009-OPN-2 | 01S/SWSC | 1TL3 | 138 | BATHROOM | | | 5 DAYS A WEEK | No | TOILET |
| 3 | 2009 | 3-2009-OPN-2 | 01S/SWSC | 1TL4 | 138 | BATHROOM | | | 5 DAYS A WEEK | No | TOILET |
| 3 | 2009 | 3-2009-OPN-2 | 01S/SWSC | 1WF1 | 100H | CORRIDOR | | | 5 DAYS A WEEK | No | DRINKING FOUNTAIN |
| 3 | 2009 | 3-2009-OPN-3 | DAYLIGHT | N/A | 135A | DARKROOM | | | FLOW IS NIL | No | WATER HEATER DRAIN |
| 3 | 2009 | 3-2009-OPN-4 | DAYLIGHT | N/A | 157 | MECHANICAL ROOM | | | FLOW IS NIL | No | WATER BACKFLOW PREVENTER DRAIN |
| 3 | 2009 | 3-2009-OPN-5 | DAYLIGHT | N/A | N/A | EXTERIOR | | | FLOW IS NIL | Yes | EQUIP. CONDENSATE DRAIN |
| 3 | 2010 | 3-2010-OPN-1 | 01S/SWSC | 1ED1 | 147 | SPECTROSCOPY ROOM | | | FLOW IS NIL | No | EMERGENCY EYE WASH DRAIN |
| 3 | 2010 | 3-2010-OPN-1 | 01S/SWSC | 1SD1 | 145 | BREAK ROOM | | | 5 DAYS A WEEK | No | COUNTERTOP SINK |
| 3 | 2010 | 3-2010-OPN-1 | 01S/SWSC | 1SD2 | 145A | JANITOR'S CLOSET | | | 5 DAYS A WEEK | No | SERVICE SINK |

REPORT # 38

| TA | BLDG | OUTLET PIPING NO | EPA OUTFALL # | DRAIN # | ROOM # | ROOM DESCRIPTION | FLOW RATE | | PERIODICITY | SEASONAL | SOURCE TYPES |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 2010 | 3-2010-OPN-2 | DAYLIGHT | 1WH1 | 145A | JANITOR'S CLOSET | | | FLOW IS NIL | No | WATER HEATER DRAIN |
| 3 | 2010 | 3-2010-OPN-3 | ATMOSPHERE | N/A | N/A | EXTERIOR LOADING DOCK | | | FLOW IS NIL | No | NITROGEN TANK PRESS. RELIEF |
| 3 | 2010 | 3-2010-OPN-4 | ATMOSPHERE | N/A | N/A | EXTERIOR LOADING DOCK | | | FLOW IS NIL | No | NITROGEN TANK PRESS. RELIEF |
| 3 | 2010 | 3-2010-OPN-5 | ATMOSPHERE | N/A | N/A | EXTERIOR LOADING DOCK | | | FLOW IS NIL | No | NITROGEN TANK PRESS. RELIEF |
| 3 | 2010 | 3-2010-OPN-6 | ATMOSPHERE | N/A | N/A | EXTERIOR LOADING DOCK | | | FLOW IS NIL | No | NITROGEN TANK PRESS. RELIEF |
| 3 | 2010 | 3-2010-OPN-7 | DAYLIGHT | N/A | N/A | EXTERIOR | | | FLOW IS NIL | Yes | EQUIP. CONDENSATE DRAIN |
| 3 | 2010 | 3-2010-OPN-8 | DAYLIGHT | N/A | N/A | EXTERIOR | | | FLOW IS NIL | Yes | EQUIP. CONDENSATE DRAIN |
| 3 | 2010 | 3-2010-OPN-9 | DAYLIGHT | N/A | 156 | MECHANICAL ROOM | | | FLOW IS NIL | No | WATER BACKFLOW PREVENTER DRAIN |
| 3 | 2062 | 3-2062 | ND | N/A | N/A | COMMUNICATIONS SHED | | | NO FLOW | No | NO DRAINS |
| 3 | 2130 | 3-2130 | ND | N/A | N/A | STORAGE SHED | | | NO FLOW | No | NO DRAINS |
| 3 | 2164 | 3-2164 | ND | N/A | N/A | SEMI-TRAILER | | | NO FLOW | No | NO DRAINS |

REPORT # 38

| TA | BLDG | OUTLET PIPING NO | EPA OUTFALL # | DRAIN # | ROOM # | ROOM DESCRIPTION | FLOW RATE | | PERIODICITY | SEASONAL | SOURCE TYPES |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 16 | 3-0016-OPN-02 | 01S/SWSC | SBCFD2 | 3 | UTILITY TUNNEL | | | FLOW IS NIL | No | FLOOR WASHINGS |
| 3 | 16 | 3-0016-OPN-02 | 01S/SWSC | SBCFD3 | 3 | UTILITY TUNNEL | | | FLOW IS NIL | No | FLOOR WASHINGS |
| 3 | 16 | 3-0016-OPN-02 | 01S/SWSC | SBCFD4 | 2 | UTILITY TUNNEL | | | FLOW IS NIL | No | FLOOR WASHINGS |
| 3 | 16 | 3-0016-OPN-02 | 01S/SWSC | SBCFD5 | 2 | UTILITY TUNNEL | | | FLOW IS NIL | No | FLOOR WASHINGS |
| 3 | 16 | 3-0016-OPN-02 | 01S/SWSC | SBCSD1 | 3 | UTILITY TUNNEL | | | 5 DAYS A WEEK | No | SERVICE SINK |
| 3 | 16 | 3-0016-OPN-02 | 01S/SWSC | SBSP1 | 3 | UTILITY TUNNEL | | | 5 DAYS A WEEK | No | SUMP PUMP |
| 3 | 16 | 3-0016-OPN-03 | RLW | 1CCD1 | 119 | LAB | | | 5 DAYS A WEEK | No | FILM DEVELOPER RINSE WATER |
| 3 | 16 | 3-0016-OPN-03 | RLW | 1CFS1 | 150 | MECHANICAL ROOM | | | FLOW IS NIL | No | CONDENSED WATER DRAIN |
| 3 | 16 | 3-0016-OPN-03 | RLW | 1CFS2 | 150 | MECHANICAL ROOM | | | FLOW IS NIL | No | RAD. PIPE STRAINER DISCHARGE |
| 3 | 16 | 3-0016-OPN-03 | RLW | 1CSD1 | 119 | LAB | | | 5 DAYS A WEEK | No | PHOTO RINSE |
| 3 | 16 | 3-0016-OPN-03 | RLW | 1CSD2 | 119A | LAB | | | 5 DAYS A WEEK | No | PHOTO RINSE |
| 3 | 16 | 3-0016-OPN-03 | RLW | 1CSD3 | 119B | DARK ROOM | | | 5 DAYS A WEEK | No | PHOTO RINSE |
| 3 | 16 | 3-0016-OPN-03 | RLW | 1CSD4 | 119 | LAB | | | 5 DAYS A WEEK | No | PHOTO RINSE |
| 3 | 16 | 3-0016-OPN-03 | RLW | 1CSD5 | 147 | LAB | | | 5 DAYS A WEEK | No | PHOTO RINSE |
| 3 | 16 | 3-0016-OPN-03 | RLW | BCES1 | 45 | TARGET PREPERATION | | | FLOW IS NIL | No | EMERGENCY SHOWER |
| 3 | 16 | 3-0016-OPN-03 | RLW | BCFS1 | 50 | MECHANICAL ROOM | | | FLOW IS NIL | No | FLOOR WASHINGS |
| 3 | 16 | 3-0016-OPN-03 | RLW | BCFS2 | 50 | MECHANICAL ROOM | | | FLOW IS NIL | No | FLOOR WASHINGS |
| 3 | 16 | 3-0016-OPN-03 | RLW | BCSD1 | 48 | WORK ROOM | | | 5 DAYS A WEEK | No | HAND WASHING |
| 3 | 16 | 3-0016-OPN-03 | RLW | BCSD2 | 45 | TARGET PREPERATION | | | 5 DAYS A WEEK | No | HAND WASHING |
| 3 | 16 | 3-0016-OPN-03 | RLW | BCSD3 | 45 | TARGET PREPERATION | | | 5 DAYS A WEEK | No | HAND WASHING |
| 3 | 16 | 3-0016-OPN-03 | RLW | BCSD5 | 47 | ASSEMBLY | | | 5 DAYS A WEEK | No | HAND WASHING |
| 3 | 16 | 3-0016-OPN-03 | RLW | BCSD6 | 47 | ASSEMBLY | | | 5 DAYS A WEEK | No | HAND WASHING |
| 3 | 16 | 3-0016-OPN-04 | DAYLIGHT | BCFD10 | 68 | GENERATOR ROOM | | | FLOW IS NIL | No | FLOOR WASHINGS |
| 3 | 16 | 3-0016-OPN-04 | DAYLIGHT | RD1 | N/A | ROOF | | | MOSTLY DURING SU | Yes | STORM DRAIN |
| 3 | 16 | 3-0016-OPN-04 | DAYLIGHT | RD2 | N/A | ROOF | | | MOSTLY DURING SU | Yes | STORM DRAIN |
| 3 | 16 | 3-0016-OPN-04 | DAYLIGHT | RD3 | N/A | ROOF | | | MOSTLY DURING SU | Yes | STORM DRAIN |
| 3 | 16 | 3-0016-OPN-05 | DAYLIGHT | N/A | 50 | MECHANICAL ROOM | | | FLOW IS NIL | No | FIRE LINE DRAIN |
| 3 | 16 | 3-0016-OPN-06 | DAYLIGHT | N/A | 40 | AUXILIARY APPARATUS R | | | FLOW IS NIL | No | FIRE LINE DRAIN |
| 3 | 16 | 3-0016-OPN-07 | DAYLIGHT | N/A | 69 | LEAD STORAGE ROOM | | | FLOW IS NIL | No | FIRE LINE DRAIN |
| 3 | 16 | 3-0016-OPN-08 | N/A | N/A | 69 | LEAD STORAGE ROOM | | | NO FLOW | No | ELECTRICAL CONDUIT (ABANDONED) |
| 3 | 16 | 3-0016-OPN-09 | ATMOSPHERE | N/A | 69 | LEAD STORAGE ROOM | | | NO FLOW | No | EQUIP. EXHAUST VENT |
| 3 | 16 | 3-0016-OPN-10 | DAYLIGHT | RD5 | N/A | ROOF | | | MOSTLY DURING SU | Yes | STORM DRAIN |
| 3 | 16 | 3-0016-OPN-11 | DAYLIGHT | N/A | 70 | VERTICAL ACCELERATOR | | | FLOW IS NIL | No | FIRE LINE DRAIN |

REPORT # 38

| TA | BLDG | OUTLET PIPING NO | EPA OUTFALL # | DRAIN # | ROOM # | ROOM DESCRIPTION | FLOW RATE | | PERIODICITY | SEASONAL | SOURCE TYPES |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 16 | 3-0016-OPN-12 | DAYLIGHT | N/A | 70 | VERTICAL ACCELERATOR | | | FLOW IS NIL | No | FIRE LINE DRAIN |
| 3 | 16 | 3-0016-OPN-13 | DAYLIGHT | N/A | 70 | VERTICAL ACCELERATOR | | | FLOW IS NIL | No | FIRE LINE DRAIN |
| 3 | 16 | 3-0016-OPN-14 | DAYLIGHT | N/A | 70 | VERTICAL ACCELERATOR | | | FLOW IS NIL | No | FIRE LINE DRAIN |
| 3 | 16 | 3-0016-OPN-15 | DAYLIGHT | RD4 | N/A | ROOF | | | MOSTLY DURING SU | Yes | STORM DRAIN |
| 3 | 16 | 3-0016-OPN-16 | ATMOSPHERE | N/A | 70 | VERTICAL ACCELERATOR | | | NO FLOW | No | EQUIP. EXHAUST VENT |
| 3 | 16 | 3-0016-OPN-17 | DAYLIGHT | N/A | 70 | VERTICAL ACCELERATOR | | | FLOW IS NIL | No | FIRE LINE DRAIN |
| 3 | 16 | 3-0016-OPN-18 | DAYLIGHT | N/A | 70 | VERTICAL ACCELERATOR | | | FLOW IS NIL | No | FIRE LINE DRAIN |
| 3 | 16 | 3-0016-OPN-19 | ATMOSPHERE | N/A | 70 | VERTICAL ACCELERATOR | | | NO FLOW | No | AIR DRYER EXAUST VENT |
| 3 | 16 | 3-0016-OPN-20 | DAYLIGHT | N/A | 70 | VERTICAL ACCELERATOR | | | FLOW IS NIL | No | WATER LINE DRAIN |
| 3 | 16 | 3-0016-OPN-21 | DAYLIGHT | N/A | 59 | EMERG. ESCAPE TUNNEL | | | FLOW IS NIL | No | FIRE LINE DRAIN |
| 3 | 16 | 3-0016-OPN-22 | DAYLIGHT | N/A | 21 | UTILITY TUNNEL | | | FLOW IS NIL | No | FIRE LINE DRAIN |
| 3 | 16 | 3-0016-OPN-23 | DAYLIGHT | N/A | 21 | UTILITY TUNNEL | | | FLOW IS NIL | No | FIRE LINE DRAIN |
| 3 | 16 | 3-0016-OPN-24 | DAYLIGHT | N/A | 21 | UTILITY TUNNEL | | | FLOW IS NIL | No | FIRE LINE DRAIN |
| 3 | 16 | 3-0016-OPN-25 | DAYLIGHT | N/A | 105 | OFFICE | | | FLOW IS NIL | No | FIRE LINE DRAIN |
| 3 | 16 | 3-0016-OPN-26 | ATMOSPHERE | N/A | 147 | LAB | | | NO FLOW | No | SEWER VENT PIPE |
| 3 | 16 | 3-0016-OPN-27 | ATMOSPHERE | N/A | 150 | MECHANICAL ROOM | | | NO FLOW | No | SEWER VENT PIPE |
| 3 | 16 | 3-0016-OPN-28 | ATMOSPHERE | N/A | 150 | MECHANICAL ROOM | | | NO FLOW | No | SEWER VENT PIPE |
| 3 | 16 | 3-0016-OPN-29 | ATMOSPHERE | N/A | 170 | VERTICAL ACCELERATOR | | | NO FLOW | No | EXHAUST FAN DISCHARGE |
| 3 | 16 | 3-0016-OPN-30 | DAYLIGHT | N/A | 270 | VERTICAL ACCELERATOR | | | FLOW IS NIL | No | HEAT EXCHANGER PRESS. RELIEF |
| 3 | 16 | 3-0016-OPN-31 | DAYLIGHT | N/A | 370 | VERTICAL ACCELERATOR | | | FLOW IS NIL | No | EQUIP. CONDENSED WATER DRAIN |
| 3 | 16 | 3-0016-OPN-32 | DAYLIGHT | N/A | 370 | VERTICAL ACCELERATOR | | | FLOW IS NIL | No | EQUIP. CONDENSED WATER DRAIN |
| 3 | 16 | 3-0016-OPN-33 | DAYLIGHT | N/A | 120 | OFFICE | | | FLOW IS NIL | No | FIRE LINE DRAIN |
| 3 | 16 | 3-0016-OPN-34 | DAYLIGHT | N/A | 110 | OFFICE | | | FLOW IS NIL | No | FIRE LINE DRAIN |
| 3 | 65 | 3-0065-OPN-1 | RLW | 1FD1 | N/A | SOURCE STORAGE VAULT | | | NO FLOW | No | FLOOR DRAIN (PLUGGED) |
| 3 | 65 | 3-0065-OPN-1 | RLW | 1FD2 | N/A | WORK ROOM | | | NO FLOW | No | FLOOR DRAIN (PLUGGED) |
| 3 | 65 | 3-0065-OPN-1 | RLW | 1FD3 | N/A | UTILITY ROOM | | | FLOW IS NIL | No | WATER HEATER DRAIN |
| 3 | 65 | 3-0065-OPN-1 | RLW | 1FD4 | N/A | LEAK TEST ROOM | | | NO FLOW | No | FLOOR DRAIN (PLUGGED) |
| 3 | 65 | 3-0065-OPN-1 | RLW | 1FD5 | N/A | CART STORAGE ROOM | | | FLOW IS NIL | No | FLOOR WASHINGS |
| 3 | 65 | 3-0065-OPN-1 | RLW | 1FD6 | N/A | CHANGE ROOM | | | FLOW IS NIL | No | FLOOR WASHINGS |
| 3 | 65 | 3-0065-OPN-1 | RLW | 1FD7 | N/A | CHANGE ROOM | | | FLOW IS NIL | No | FLOOR WASHINGS |
| 3 | 65 | 3-0065-OPN-1 | RLW | 1FD8 | N/A | STORAGE | | | FLOW IS NIL | No | FLOOR WASHINGS |
| 3 | 65 | 3-0065-OPN-1 | RLW | 1FD9 | N/A | STORAGE | | | FLOW IS NIL | No | FLOOR WASHINGS |
| 3 | 65 | 3-0065-OPN-1 | RLW | 1LV1 | N/A | RESTROOM | | | 5 DAYS A WEEK | No | LAVATORY |

REPORT # 38

| TA | BLDG | OUTLET PIPING NO | EPA OUTFALL # | DRAIN # | ROOM # | ROOM DESCRIPTION | FLOW RATE | | PERIODICITY | SEASONAL | SOURCE TYPES |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 16 | 3-0016-OPN-01 | 01S/SWSC | 1FD1 | 114A | RESTROOM | | | FLOW IS NIL | No | FLOOR WASHINGS |
| 3 | 16 | 3-0016-OPN-01 | 01S/SWSC | 1FD2 | 114B | RESTROOM | | | FLOW IS NIL | No | FLOOR WASHINGS |
| 3 | 16 | 3-0016-OPN-01 | 01S/SWSC | 1LV1 | 114A | RESTROOM | | | 5 DAYS A WEEK | No | LAVATORY |
| 3 | 16 | 3-0016-OPN-01 | 01S/SWSC | 1LV2 | 114B | RESTROOM | | | 5 DAYS A WEEK | No | LAVATORY |
| 3 | 16 | 3-0016-OPN-01 | 01S/SWSC | 1SD01 | 114 | LAB | | | 5 DAYS A WEEK | No | HAND WASHING |
| 3 | 16 | 3-0016-OPN-01 | 01S/SWSC | 1SD02 | 114C | LAB | | | 5 DAYS A WEEK | No | SERVICE SINK |
| 3 | 16 | 3-0016-OPN-01 | 01S/SWSC | 1SD03 | 116 | BREAK ROOM | | | 5 DAYS A WEEK | No | COUNTERTOP SINK |
| 3 | 16 | 3-0016-OPN-01 | 01S/SWSC | 1SD04 | 120 | LAB | | | NO FLOW | No | SINK DRAIN (PLUGGED) |
| 3 | 16 | 3-0016-OPN-01 | 01S/SWSC | 1SD05 | 120 | LAB | | | NO FLOW | No | SINK DRAIN (PLUGGED) |
| 3 | 16 | 3-0016-OPN-01 | 01S/SWSC | 1SD06 | 122 | LAB | | | NO FLOW | No | SINK DRAIN (REMOVED) |
| 3 | 16 | 3-0016-OPN-01 | 01S/SWSC | 1SD07 | 124 | LAB | | | NO FLOW | No | SINK DRAIN (REMOVED) |
| 3 | 16 | 3-0016-OPN-01 | 01S/SWSC | 1SD08 | 126 | LAB | | | 5 DAYS A WEEK | No | HAND WASHING |
| 3 | 16 | 3-0016-OPN-01 | 01S/SWSC | 1SD09 | 128 | LAB | | | 5 DAYS A WEEK | No | HAND WASHING |
| 3 | 16 | 3-0016-OPN-01 | 01S/SWSC | 1SD10 | 123 | LAB | | | 5 DAYS A WEEK | No | HAND WASHING |
| 3 | 16 | 3-0016-OPN-01 | 01S/SWSC | 1TL1 | 114A | RESTROOM | | | 5 DAYS A WEEK | No | TOILET |
| 3 | 16 | 3-0016-OPN-01 | 01S/SWSC | 1TL2 | 114B | RESTROOM | | | 5 DAYS A WEEK | No | TOILET |
| 3 | 16 | 3-0016-OPN-01 | 01S/SWSC | 1TL3 | 114B | RESTROOM | | | 5 DAYS A WEEK | No | TOILET |
| 3 | 16 | 3-0016-OPN-01 | 01S/SWSC | 1UR1 | 114B | RESTROOM | | | 5 DAYS A WEEK | No | URINAL |
| 3 | 16 | 3-0016-OPN-01 | 01S/SWSC | 1WF1 | 100 | CORRIDOR | | | 5 DAYS A WEEK | No | DRINKING FOUNTAIN |
| 3 | 16 | 3-0016-OPN-02 | 01S/SWSC | 1CSD6 | 170 | VERTICAL ACCELERATOR | | | 5 DAYS A WEEK | No | HAND WASHING |
| 3 | 16 | 3-0016-OPN-02 | 01S/SWSC | 1FD3 | 150 | MECHANICAL ROOM | | | FLOW IS NIL | No | FLOOR WASHINGS |
| 3 | 16 | 3-0016-OPN-02 | 01S/SWSC | 1FD4 | 150 | MECHANICAL ROOM | | | FLOW IS NIL | No | FLOOR WASHINGS |
| 3 | 16 | 3-0016-OPN-02 | 01S/SWSC | 1FD5 | 150 | MECHANICAL ROOM | | | FLOW IS NIL | No | FLOOR WASHINGS |
| 3 | 16 | 3-0016-OPN-02 | 01S/SWSC | 1FS1 | 150 | MECHANICAL ROOM | | | FLOW IS NIL | No | WATER HEATER RELIEF VALVE |
| 3 | 16 | 3-0016-OPN-02 | 01S/SWSC | 1FS2 | 150 | MECHANICAL ROOM | | | FLOW IS NIL | No | WATER FILTER DRAIN |
| 3 | 16 | 3-0016-OPN-02 | 01S/SWSC | 1FS3 | 150 | MECHANICAL ROOM | | | FLOW IS NIL | No | CHILLED WATER DRAIN |
| 3 | 16 | 3-0016-OPN-02 | 01S/SWSC | 1FS4 | 150 | MECHANICAL ROOM | | | FLOW IS NIL | No | TREATED COOLING WATER |
| 3 | 16 | 3-0016-OPN-02 | 01S/SWSC | 1FS5 | 150 | MECHANICAL ROOM | | | FLOW IS NIL | No | PRESS. RELIEF/STEAM TRAP DRAIN |
| 3 | 16 | 3-0016-OPN-02 | 01S/SWSC | 1FS6 | 150 | MECHANICAL ROOM | | | FLOW IS NIL | No | EXPANSION TANK/WATER DRAINS |
| 3 | 16 | 3-0016-OPN-02 | 01S/SWSC | 1WF2 | 140 | CONTROL ROOM | | | 5 DAYS A WEEK | No | DRINKING FOUNTAIN |
| 3 | 16 | 3-0016-OPN-02 | 01S/SWSC | 1WF3 | 147 | LAB | | | NO FLOW | No | DRINKING FOUNTAIN (REMOVED) |
| 3 | 16 | 3-0016-OPN-02 | 01S/SWSC | 2CSD1 | 270 | VERTICAL ACCELERATOR | | | 5 DAYS A WEEK | No | HAND WASHING |
| 3 | 16 | 3-0016-OPN-02 | 01S/SWSC | BCSD07 | 42 | JANITOR'S CLOSET | | | 5 DAYS A WEEK | No | SERVICE SINK |

Please print or type in the unshaded areas only.

EPA I.D. NUMBER (copy from Item 1 of Form 1)
NM0890010515

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

FORM 2C NPDES

EPA

U.S. ENVIRONMENTAL PROTECTION AGENCY
APPLICATION FOR PERMIT TO DISCHARGE WASTEWATER
# EXISTING MANUFACTURING, COMMERCIAL, MINING AND SILVICULTURAL OPERATIONS
*Consolidated Permits Program*

## I. OUTFALL LOCATION

For each outfall, list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water.

| A. OUTFALL NUMBER (list) | B. LATITUDE | | | C. LONGITUDE | | | D. RECEIVING WATER (name) |
|---|---|---|---|---|---|---|---|
| | 1. DEG. | 2. MIN. | 3. SEC. | 1. DEG. | 2. MIN. | 3. SEC. | |
| 03A025 | 35 | 52 | 9 | 106 | 19 | 28 | Tributary to Two Mile Canyon, an ephemeral tributary to the Rio Grande. |

## II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES

A. Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed descriptions in Item B. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and outfalls. If a water balance cannot be determined *(e.g., for certain mining activities)*, provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures.

B. For each outfall, provide a description of: (1) All operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and storm water runoff; (2) The average flow contributed by each operation; and (3) The treatment received by the wastewater. Continue on additional sheets if necessary.

| 1. OUTFALL NO (list) | 2. OPERATION(S) CONTRIBUTING FLOW | | 3. TREATMENT | | |
|---|---|---|---|---|---|
| | a. OPERATION (list) | b. AVERAGE FLOW (include units) | a. DESCRIPTION | b. LIST CODES FROM TABLE 2C-1 | |
| 025 | 3-208-OPN-1: | | | | |
| | Cooling tower blowdown | 0.4 GPM | None | | |
| | Floor drains(2)(floor washings) | Flow is nil | None | | |

OFFICIAL USE ONLY *(effluent guidelines sub-categories)*

CONTINUED FROM THE FRONT

C. Except for storm runoff, leaks, or spills, are any of the discharges described in Items II-A or B intermittent or seasonal?

☒ YES *(complete the following table)* ☐ NO *(go to Section III)*

| 1. OUTFALL NUMBER *(list)* | 2. OPERATION(s) CONTRIBUTING FLOW *(list)* | 3. FREQUENCY | | 4. FLOW | | | | |
|---|---|---|---|---|---|---|---|---|
| | | a. DAYS PER WEEK *(specify average)* | b. MONTHS PER YEAR *(specify average)* | a. FLOW RATE *(in mgd)* | | b. TOTAL VOLUME *(specify with units)* | | c. DURATION *(in days)* |
| | | | | 1. LONG TERM AVERAGE | 2. MAXIMUM DAILY | 1. LONG TERM AVERAGE | 2. MAXIMUM DAILY | |
| 03A025 | Cooling tower blowdown | 5 | 12 | 0.0001 | .0002 | 100 GPD | 200 GPD | 260 day/yr |

## III. PRODUCTION

A. Does an effluent guideline limitation promulgated by EPA under Section 304 of the Clean Water Act apply to your facility?

☐ YES *(complete Item III-B)* ☒ NO *(to to Section IV)*

B. Are the limitations in the applicable effluent guideline expressed in terms of production *(or other measure of operation)*?

☐ YES *(complete Item III-C)* ☐ NO *(go to Section IV)*

C. If you answered "yes" to Item III-B, list the quantity which represents an actual measurement of your level of production, expressed in the terms and units used in the applicable effluent guideline, and indicate the affected outfalls.

| 1. AVERAGE DAILY PRODUCTION | | | 2. AFFECTED OUTFALLS *(list outfall numbers)* |
|---|---|---|---|
| a. QUANTITY PER DAY | b. UNITS OF MEASURE | c. OPERATION, PRODUCT, MATERIAL, ETC. *(specify)* | |
| | | | |

## IV. IMPROVEMENTS

A. Are you now required by any Federal, State or local authority to meet any implementation schedule for the construction, upgrading or operation of wastewater treatment equipment or practices or any other environmental programs which may affect the discharges described in this application? This includes, but is not limited to, permit conditions, administrative or enforcement orders, enforcement compliance schedule letters, stipulations, court orders, and grant or loan conditions.

☒ YES *(complete the following table)* ☐ NO *(go to Item IV-B)*

| 1. IDENTIFICATION OF CONDITION, AGREEMENT, ETC. | 2. AFFECTED OUTFALLS | | 3. BRIEF DESCRIPTION OF PROJECT | 4. FINAL COMPLIANCE DATE | |
|---|---|---|---|---|---|
| | a. NO. | b. SOURCE OF DISCHARGE | | a. REQUIRED | b. PROJECTED |
| EPA Docket No. VI-92-1306 | | All | Complete Waste Stream Characterization surveys and implement corrective actions. | 7/31/93 | FY96 |

B. OPTIONAL: You may attach additional sheets describing any additional water pollution control programs *(or other environmental projects which may affect your discharges)* you now have underway or which you plan. Indicate whether each program is now underway or planned, and indicate your actual or planned schedules for construction. ☐ MARK "X" IF DESCRIPTION OF ADDITIONAL CONTROL PROGRAMS IS ATTACHED

 CONTINUE ON PAGE 3

CONTINUED FROM PAGE 2

EPA I.D. NUMBER (copy from Item I of Form 1)
NM0890010515

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

## V. INTAKE AND EFFLUENT CHARACTERISTICS

A, B, & C: See instructions before proceeding — Complete one set of tables for each outfall — Annotate the outfall number in the space provided. NOTE: Tables V-A, V-B, and V-C are included on separate sheets numbered V-1 through V-9.

D. Use the space below to list any of the pollutants listed in Table 2c-3 of the instructions, which you know or have reason to believe is discharged or may be discharged from any outfall. For every pollutant you list, briefly describe the reasons you believe it to be present and report any analytical data in your possession.

| 1. POLLUTANT | 2. SOURCE | 1. POLLUTANT | 2. SOURCE |
|---|---|---|---|
| see datasheet | | | |

## VI. POTENTIAL DISCHARGES NOT COVERED BY ANALYSIS

Is any pollutant listed in Item V-C a substance or a component of a substance which you currently use or manufacture as an intermediate or final product or byproduct?

☐ YES *(list all such pollutants below)* ☒ NO *(go to Item VI-B)*

CONTINUED FROM THE FRONT

## VII. BIOLOGICAL TOXICITY TESTING DATA

Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made on any of your discharges or on a receiving water in relation to your discharge within the last 3 years?

☐ YES *(identify the test(s) and describe their purposes below)* ☒ NO *(go to Section VIII)*

## VIII. CONTRACT ANALYSIS INFORMATION

Were any of the analyses reported in Item V performed by a contract laboratory or consulting firm?

☐ YES *(list the name, address, and telephone number of, and pollutants analyzed by, each such laboratory or firm below)* ☒ NO *(go to Section IX)*

| A. NAME | B. ADDRESS | C. TELEPHONE *(area code & no.)* | D. POLLUTANTS ANALYZED *(list)* |
|---|---|---|---|
| | | | |

## 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 & OFFICIAL TITLE *(type or print)* | B. PHONE NO. *(area code & no.)* |
|---|---|
| JERRY L. BELLOWS, AREA MANAGER, DOE | 505-667-5105 |
| ALLEN J. TIEDMAN, ASSOC. DIRECTOR FOR OPERATIONS | 505-667-9390 |
| C. SIGNATURE | D. DATE SIGNED |

Data from worst case composite.

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

EPA I.D. NUMBER *(copy from Item I of Form 1)*: NM0890010515

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

**V. INTAKE AND EFFLUENT CHARACTERISTICS** *(continued from page 3 of Form 2-C)*

OUTFALL NO. 03A025

PART A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

| 1. POLLUTANT | 2. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION | (2) MASS | b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION | (2) MASS | c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION | (2) MASS | d. NO. OF ANALYSES | 3. UNITS (specify if blank) a. CONCENTRATION | b. MASS | 4. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION | (2) MASS | b. NO. OF ANALYSES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| a. Biochemical Oxygen Demand *(BOD)* | 2.0 | 1.5 | | | | | | mg/l | g/d | | | |
| b. Chemical Oxygen Demand *(COD)* | 42.0 | 31.8 | | | | | | mg/l | g/d | | | |
| c. Total Organic Carbon *(TOC)* | 7.4 | 5.6 | | | | | | mg/l | g/d | | | |
| d. Total Suspended Solids *(TSS)* | 7.0 | 5.3 | | | | | | mg/l | g/d | | | |
| e. Ammonia *(as N)* | < .01 | < 7.570 | | | | | | mg/l | mg/d | | | |
| f. Flow | VALUE 200 | | VALUE | | VALUE | | | gal/day | | VALUE | | |
| g. Temperature *(winter)* | VALUE 36.9 C | | VALUE | | VALUE | | | °C | | VALUE | | |
| h. Temperature *(summer)* | VALUE | | VALUE | | VALUE | | | °C | | VALUE | | |
| i. pH | MINIMUM 6.8 | MAXIMUM 8.8 | MINIMUM 6.0 | MAXIMUM 9.0 | | | | STANDARD UNITS | | | | |

PART B - Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.

| 1. POLLUTANT AND CAS NO. *(if available)* | 2. MARK 'X' a. BELIEVED PRESENT | b. BELIEVED ABSENT | 3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION | (2) MASS | b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION | (2) MASS | c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION | (2) MASS | d. NO. OF ANALYSES | 4. UNITS a. CONCENTRATION | b. MASS | 5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION | (2) MASS | b. NO. OF ANALYSES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| a. Bromide (24959-67-9) | X | | 3.24 | 2.5 | | | | | | mg/l | g/d | | | |
| b. Chlorine, Total Residual | | X | 0.0 | 0.0 | | | | | | mg/l | mg/d | | | |
| c. Color | X | | 10 | | | | | | | units | | | | |
| d. Fecal Coliform | | X | | | | | | | | | | | | |
| e. Fluoride (16984-48-8) | X | | 0.52 | 0.4 | | | | | | mg/l | g/d | | | |
| f. Nitrate-Nitrite *(as N)* | X | | 1.13 | 0.9 | | | | | | mg/l | g/d | | | |



CONTINUE ON REVERSE

| 1. POLLUTANT AND CAS NO. (if available) | 2. MARK 'X' a. BELIEVED PRESENT | b. BELIEVED ABSENT | 3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION | (2) MASS | b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION | (2) MASS | c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION | (2) MASS | d. NO. OF ANALYSES | 4. UNITS a. CONCENTRATION | b. MASS | 5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION | (2) MASS | b. NO. OF ANALYSES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| g. Nitrogen, Total Organic (as N) | X | | 2.3 | 1.7 | | | | | | mg/l | g/d | | | |
| h. Oil and Grease | | X | < 1.2 | < 0.9 | | | | | | mg/l | g/d | | | |
| i. Phosphorus (as P), Total (7723-14-0) | X | | .306 | 0.2 | | | | | | mg/l | g/d | | | |
| j. Radioactivity | | | | | | | | | | | | | | |
| (1) Alpha, Total | X | | 14 | 10.6 | | | | | | pCi/l | nCi/d | | | |
| (2) Beta, Total | X | | 6.6 | 5.0 | | | | | | pCi/l | nCi/d | | | |
| (3) Radium, Total | X | | | | | | | | | | | | | |
| (4) Radium 226, Total | X | | 0.07 | 53.0 | | | | | | pCi/l | nCi/d | | | |
| k. Sulfate (as $SO_4$) (14808-79-8) | X | | 143 | 108.3 | | | | | | mg/l | g/d | | | |
| l. Sulfide (as S) | X | | 70.2 | 53.1 | | | | | | mg/l | g/d | | | |
| m. Sulfite (as $SO_3$) (14265-45-3) | X | | 18.8 | 14.2 | | | | | | mg/l | g/d | | | |
| n. Surfactants | X | | 0.11 | 83.3 | | | | | | mg/l | mg/d | | | |
| o. Aluminum, Total (7429-90-5) | X | | 0.06 | 45.4 | | | | | | mg/l | mg/d | | | |
| p. Barium, Total (7440-39-3) | X | | 0.11 | 83.3 | | | | | | mg/l | mg/d | | | |
| q. Boron, Total (7440-42-8) | X | | 0.33 | 0.2 | | | | | | mg/l | g/d | | | |
| r. Cobalt, Total (7440-48-4) | | X | 0.07 | 53.0 | | | | | | mg/l | mg/d | | | |
| s. Iron, Total (7439-89-6) | X | | 1.1 | 0.8 | | | | | | mg/l | g/d | | | |
| t. Magnesium, Total (7439-95-4) | X | | 5.8 | 4.4 | | | | | | mg/l | g/d | | | |
| u. Molybdenum, Total (7439-98-7) | X | | 1.7 | 1.3 | | | | | | mg/l | g/d | | | |
| v. Manganese, Total (7439-96-5) | X | | 0.05 | 37.9 | | | | | | mg/l | mg/d | | | |
| w. Tin, Total (7440-31-5) | | X | < 0.050 | < 37.9 | | | | | | mg/l | mg/d | | | |
| x. Titanium, Total (7440-32-6) | | X | < 0.004 | < 3.0 | | | | | | mg/l | mg/d | | | |


CONTINUE ON PAGE V-3

| EPA I.D. NUMBER (copy from Item 1 of Form 1) | OUTFALL NUMBER |
|---|---|
| NM0890010515 | 03A025 |

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

CONTINUED FROM PAGE 3 OF FORM 2-C

PART C - If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a *(secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions)*, mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table *(all 7 pages)* for each outfall. See instructions for additional details and requirements.

| 1. POLLUTANT AND CAS NUMBER (if available) | 2. MARK 'X' | | | 3. EFFLUENT | | | | | | | 4. UNITS | | 5. INTAKE (optional) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. TESTING REQUIRED | b. BELIEVED PRESENT | c. BELIEVED ABSENT | a. MAXIMUM DAILY VALUE (1) CONCENTRATION | a. MAXIMUM DAILY VALUE (2) MASS | b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION | b. MAXIMUM 30 DAY VALUE (if available) (2) MASS | c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION | c. LONG TERM AVRG. VALUE (if available) (2) MASS | d. NO. OF ANALYSES | a. CONCENTRATION | b. MASS | a. LONG TERM AVERAGE VALUE (1) CONCENTRATION | a. LONG TERM AVERAGE VALUE (2) MASS | b. NO. OF ANALYSES |
| **METALS, CYANIDE, AND TOTAL PHENOLS** | | | | | | | | | | | | | | | |
| 1M. Antimony, Total (7440-36-0) | | | X | < 0.050 | < 37.9 | | | | | | mg/l | mg/d | | | |
| 2M. Arsenic, Total (7440-38-2) | | X | | 0.04 | 30.3 | | | | | | mg/l | mg/d | | | |
| 3M. Beryllium, Total, 7440-41-7) | | | X | < 0.1 | < 75.7 | | | | | | mg/l | mg/d | | | |
| 4M. Cadmium, Total (7440-43-9) | | X | | .004 | 3.0 | | | | | | mg/l | mg/d | | | |
| 5M. Chromium, Total (7440-47-3) | | X | | .260 | 0.2 | | | | | | mg/l | g/d | | | |
| 6M. Copper, Total (7440-50-8) | | X | | 0.1 | 75.7 | | | | | | mg/l | mg/d | | | |
| 7M. Lead, Total (7439-92-1) | | X | | .050 | 37.9 | | | | | | mg/l | mg/d | | | |
| 8M. Mercury, Total (7439-97-6) | | | X | < .0002 | < 0.2 | | | | | | mg/l | mg/d | | | |
| 9M. Nickel, Total (7440-02-0) | | X | | .28 | 0.2 | | | | | | mg/l | g/d | | | |
| 10M. Selenium, Total (7782-49-2) | | | X | < .001 | < 0.8 | | | | | | mg/l | mg/d | | | |
| 11M. Silver, Total (7440-22-4) | | | X | < 0.01 | < 7.6 | | | | | | mg/l | mg/d | | | |
| 12M. Thallium, Total (7440-28-0) | | X | | 0.51 | 0.4 | | | | | | mg/l | g/d | | | |
| 13M. Zinc, Total (7440-66-6) | | X | | .071 | 53.7 | | | | | | mg/l | mg/d | | | |
| 14M. Cyanide, Total (57-12-5) | | X | | .033 | 25.0 | | | | | | mg/l | mg/d | | | |
| 15M. Phenols, Total | | | X | < .01 | < 7.6 | | | | | | mg/l | mg/d | | | |
| **DIOXIN** | | | | | | | | | | | | | | | |
| 2,3,7,8-Tetrachlorodibenzo-P-Dioxin (1764-01-6) | | | X | DESCRIBE RESULTS | | | | | | | | | | | |



CONTINUE ON REVERSE

| 1. POLLUTANT AND CAS NUMBER (if available) | 2. MARK 'X' | | | 3. EFFLUENT | | | | | | | 4. UNITS | | 5. INTAKE (optional) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. TESTING REQUIRED | b. BELIEVED PRESENT | c. BELIEVED ABSENT | a. MAXIMUM DAILY VALUE | | b. MAXIMUM 30 DAY VALUE (if available) | | c. LONG TERM AVRG. VALUE (if available) | | d. NO. OF ANALYSES | a. CONCENTRATION | b. MASS | a. LONG TERM AVERAGE VALUE | | b. NO. OF ANALYSES |
| | | | | (1) CONCENTRATION | (2) MASS | (1) CONCENTRATION | (2) MASS | (1) CONCENTRATION | (2) MASS | | | | (1) CONCENTRATION | (2) MASS | |
| **GC/MS FRACTION – VOLATILE COMPOUNDS** | | | | | | | | | | | | | | | |
| 1V. Acrolein (107-02-8) | | | X | | | | | | | | | | | | |
| 2V. Acrylonitrile (107-13-1) | | | X | | | | | | | | | | | | |
| 3V. Benzene (71-43-2) | | | X | < 0.005 | < 3.8 | | | | | | mg/l | mg/d | | | |
| 4V. Bis (Chloromethyl) Ether (542-88-1) | | | X | | | | | | | | | | | | |
| 5V. Bromoform (75-25-2) | | | X | < 0.005 | < 3.8 | | | | | | mg/l | mg/d | | | |
| 6V. Carbon Tetrachloride (56-23-5) | | | X | < 0.005 | < 3.8 | | | | | | mg/l | mg/d | | | |
| 7V. Chlorobenzene (108-90-7) | | | X | < 0.005 | < 3.8 | | | | | | mg/l | mg/d | | | |
| 8V. Chlorodibromomethane (124-48-1) | | | X | < 0.005 | < 3.8 | | | | | | mg/l | mg/d | | | |
| 9V. Chloroethane (75-00-3) | | | X | < 0.010 | < 0.00 | | | | | | mg/l | mg/d | | | |
| 10V. 2-Chloroethylvinyl Ether (110-75-8) | | | X | | | | | | | | | | | | |
| 11V. Chloroform (67-66-3) | | | X | < 0.005 | < 3.8 | | | | | | mg/l | mg/d | | | |
| 12V. Dichlorobromomethane (75-27-4) | | | X | < 0.005 | < 3.8 | | | | | | mg/l | mg/d | | | |
| 13V. Dichlorodifluoromethane (75-71-8) | | | X | | | | | | | | | | | | |
| 14V. 1,1-Dichloroethane (75-34-3) | | | X | < 0.005 | < 3.8 | | | | | | mg/l | mg/d | | | |
| 15V. 1,2-Dichloroethane (107-06-2) | | | X | < 0.005 | < 3.8 | | | | | | mg/l | mg/d | | | |
| 16V. 1,1-Dichloroethylene (75-35-4) | | | X | < 0.005 | < 3.8 | | | | | | mg/l | mg/d | | | |
| 17V. 1,2-Dichloropropane (78-87-5) | | | X | < 0.005 | < 3.8 | | | | | | mg/l | kg/d | | | |
| 18V. 1,3-Dichloropropylene (542-75-6) | | | X | < 0.005 | < 3.8 | | | | | | mg/l | mg/d | | | |
| 19V. Ethylbenzene (100-41-4) | | | X | < 0.005 | < 3.8 | | | | | | mg/l | mg/d | | | |
| 20V. Methyl Bromide (74-83-9) | | | X | < 0.010 | < 7.6 | | | | | | mg/l | mg/d | | | |
| 21V. Methyl Chloride (74-87-3) | | | X | < 0.010 | < 7.6 | | | | | | mg/l | mg/d | | | |



CONTINUE ON PAGE V-5

CONTINUED FROM PAGE V-4

EPA I.D. NUMBER (copy from Item 1 of Form 1): NM0890010515

OUTFALL NUMBER: 03A025

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

| 1. POLLUTANT AND CAS NUMBER (if available) | 2. MARK 'X' a. TESTING REQUIRED | b. BELIEVED PRESENT | c. BELIEVED ABSENT | 3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION | (2) MASS | b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION | (2) MASS | c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION | (2) MASS | d. NO. OF ANALYSES | 4. UNITS a. CONCENTRATION | b. MASS | 5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION | (2) MASS | b. NO. OF ANALYSES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – VOLATILE COMPOUNDS** *(continued)* | | | | | | | | | | | | | | | |
| 22V. Methylene Chloride (75-09-2) | | | X | < 0.005 | < 3.8 | | | | | | mg/l | mg/d | | | |
| 23V. 1,1,2,2-Tetrachloroethane (79-34-5) | | | X | < 0.005 | < 3.8 | | | | | | mg/l | mg/d | | | |
| 24V. Tetrachloroethylene (127-18-4) | | | X | < 0.005 | < 3.8 | | | | | | mg/l | mg/d | | | |
| 25V. Toluene (108-88-3) | | | X | < 0.005 | < 3.8 | | | | | | mg/l | mg/d | | | |
| 26V. 1,2-Trans-Dichloroethylene (156-60-5) | | | X | < 0.005 | < 3.8 | | | | | | mg/l | mg/d | | | |
| 27V. 1,1,1-Trichloroethane (71-55-6) | | | X | < 0.005 | < 3.8 | | | | | | mg/l | mg/d | | | |
| 28V. 1,1,2-Trichloroethane (79-00-5) | | | X | < 0.005 | < 3.8 | | | | | | mg/l | mg/d | | | |
| 29V. Trichloroethylene (79-01-6) | | | X | < 0.005 | < 3.8 | | | | | | mg/l | mg/d | | | |
| 30V. Trichlorofluoromethane (75-69-4) | | | X | < 0.005 | < 3.8 | | | | | | mg/l | mg/d | | | |
| 31V. Vinyl Chloride (75-01-4) | | | X | < 0.010 | < 7.6 | | | | | | mg/l | mg/d | | | |
| **GC/MS FRACTION – ACID COMPOUNDS** | | | | | | | | | | | | | | | |
| 1A. 2-Chlorophenol (95-57-8) | | | X | < 0.010 | < 7.6 | | | | | | mg/l | mg/d | | | |
| 2A. 2,4-Dichlorophenol (120-83-2) | | | X | < 0.010 | < 7.6 | | | | | | mg/l | mg/d | | | |
| 3A. 2,4-Dimethylphenol (105-67-9) | | | X | < 0.010 | < 7.6 | | | | | | mg/l | mg/d | | | |
| 4A. 4,6-Dinitro-O-Cresol (534-52-1) | | | X | < 0.010 | < 7.6 | | | | | | mg/l | mg/d | | | |
| 5A. 2,4-Dinitrophenol (51-28-5) | | | X | < 0.010 | < 7.6 | | | | | | mg/l | mg/d | | | |
| 6A. 2-Nitrophenol (88-75-5) | | | X | < 0.010 | < 7.6 | | | | | | mg/l | mg/d | | | |
| 7A. 4-Nitrophenol (100-02-7) | | | X | < 0.010 | < 7.6 | | | | | | mg/l | mg/d | | | |
| 8A. P-Chloro-M-Cresol (59-50-7) | | | X | < 0.010 | < 7.6 | | | | | | mg/l | mg/d | | | |
| 9A. Pentachlorophenol (87-86-5) | | | X | < 0.010 | < 7.6 | | | | | | mg/l | mg/d | | | |
| 10A. Phenol (108-95-2) | | | X | < 0.010 | < 7.6 | | | | | | mg/l | mg/d | | | |
| 11A. 2,4,6-Trichlorophenol (88-06-2) | | | X | < 0.010 | < 7.6 | | | | | | mg/l | mg/d | | | |



CONTINUE ON REVERSE

CONTINUED FROM THE FRONT

| 1. POLLUTANT AND CAS NUMBER (if available) | 2. MARK 'X' | | | 3. EFFLUENT | | | | | | | 4. UNITS | | 5. INTAKE (optional) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. TESTING REQUIRED | b. BELIEVED PRESENT | c. BELIEVED ABSENT | a. MAXIMUM DAILY VALUE (1) CONCENTRATION | a. MAXIMUM DAILY VALUE (2) MASS | b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION | b. MAXIMUM 30 DAY VALUE (if available) (2) MASS | c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION | c. LONG TERM AVRG. VALUE (if available) (2) MASS | d. NO. OF ANALYSES | a. CONCENTRATION | b. MASS | a. LONG TERM AVERAGE VALUE (1) CONCENTRATION | a. LONG TERM AVERAGE VALUE (2) MASS | b. NO. OF ANALYSES |
| GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS | | | | | | | | | | | | | | | |
| 1B. Acenaphthene (83-32-9) | | | X | < 0.010 | < 7.6 | | | | | | mg/l | mg/d | | | |
| 2B. Acenaphtylene (208-96-8) | | | X | < 0.010 | < 7.6 | | | | | | mg/l | mg/d | | | |
| 3B. Anthracene (120-12-7) | | | X | < 0.010 | < 7.6 | | | | | | mg/l | mg/d | | | |
| 4B. Benzidine (92-87-5) | | | X | < 0.010 | < 7.6 | | | | | | mg/l | mg/d | | | |
| 5B. Benzo *(a)* Anthracene (56-55-3) | | | X | < 0.010 | < 7.6 | | | | | | mg/l | mg/d | | | |
| 6B. Benzo *(a)* Pyrene (50-32-8) | | | X | < 0.010 | < 7.6 | | | | | | mg/l | mg/d | | | |
| 7B. 3,4-Benzo-fluoranthene (205-99-2) | | | X | < 0.010 | < 7.6 | | | | | | mg/l | mg/d | | | |
| 8B. Benzo *(ghi)* Perylene (191-24-2) | | | X | < 0.010 | < 7.6 | | | | | | mg/l | mg/d | | | |
| 9B. Benzo *(k)* Fluoranthene (207-08-9) | | | X | < 0.010 | < 7.6 | | | | | | mg/l | mg/d | | | |
| 10B. Bis *(2-Chloro-ethoxy)* Methane (111-91-1) | | | X | < 0.010 | < 7.6 | | | | | | mg/l | mg/d | | | |
| 11B. Bis *(2-Chloro-ethyl)* Ether (111-44-4) | | | X | < 0.010 | < 7.6 | | | | | | mg/l | mg/d | | | |
| 12B. Bis *(2-Chloroiso-propyl)* Ether (102-60-1) | | | X | < 0.010 | < 7.6 | | | | | | mg/l | mg/d | | | |
| 13B. Bis *(2-Ethyl-hexyl)* Phthalate (117-81-7) | | | X | < 0.010 | < 7.6 | | | | | | mg/l | mg/d | | | |
| 14B. 4-Bromo-phenyl Phenyl Ether (101-55-3) | | | X | < 0.010 | < 7.6 | | | | | | mg/l | mg/d | | | |
| 15B. Butyl Benzyl Phthalate (85-68-7) | | | X | < 0.010 | < 7.6 | | | | | | mg/l | mg/d | | | |
| 16B. 2-Chloro-naphthalene (91-58-7) | | | X | < 0.010 | < 7.6 | | | | | | mg/l | mg/d | | | |
| 17B. 4-Chloro-phenyl Phenyl Ether (7005-72-3) | | | X | < 0.010 | < 7.6 | | | | | | mg/l | mg/d | | | |
| 18B. Chrysene (218-01-9) | | | X | < 0.010 | < 7.6 | | | | | | mg/l | mg/d | | | |
| 19B. Dibenzo *(a,h)* Anthracene (53-70-3) | | | X | < 0.010 | < 7.6 | | | | | | mg/l | mg/d | | | |
| 20B. 1,2-Dichloro-benzene (95-50-1) | | | X | < 0.010 | < 7.6 | | | | | | mg/l | mg/d | | | |
| 21B. 1,3-Dichloro-benzene (541-73-1) | | | X | < 0.010 | < 7.6 | | | | | | mg/l | mg/d | | | |


CONTINUE ON PAGE V

| EPA I.D. NUMBER (copy from Item 1 of Form 1) | OUTFALL NUMBER |
|---|---|
| NM0890010515 | 03A025 |

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

| 1. POLLUTANT AND CAS NUMBER (if available) | 2. MARK 'X' a. TESTING REQUIRED | b. BELIEVED PRESENT | c. BELIEVED ABSENT | 3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION | (2) MASS | b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION | (2) MASS | c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION | (2) MASS | d. NO. OF ANALYSES | 4. UNITS a. CONCENTRATION | b. MASS | 5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION | (2) MASS | b. NO. OF ANALYSES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS** *(continued)* | | | | | | | | | | | | | | | |
| 22B. 1,4-Dichlorobenzene (106-46-7) | | | X | < 0.010 | < 7.6 | | | | | | mg/l | mg/d | | | |
| 23B. 3,3'-Dichlorobenzidine (91-94-1) | | | X | < 0.010 | < 7.6 | | | | | | mg/l | mg/d | | | |
| 24B. Diethyl Phthalate (84-66-2) | | | X | < 0.010 | < 7.6 | | | | | | mg/l | mg/d | | | |
| 25B. Dimethyl Phthalate (131-11-3) | | | X | < 0.010 | < 7.6 | | | | | | mg/l | mg/d | | | |
| 26B. Di-N-Butyl Phthalate (84-74-2) | | | X | < 0.010 | < 7.6 | | | | | | mg/l | mg/d | | | |
| 27B. 2,4-Dinitrotoluene (121-14-2) | | | X | < 0.010 | < 7.6 | | | | | | mg/l | mg/d | | | |
| 28B. 2,6-Dinitrotoluene (606-20-2) | | | X | < 0.010 | < 7.6 | | | | | | mg/l | mg/d | | | |
| 29B. Di-N-Octyl Phthalate (117-84-0) | | | X | < 0.010 | < 7.6 | | | | | | mg/l | mg/d | | | |
| 30B. 1,2-Diphenylhydrazine *(as Azobenzene)* (122-66-7) | | | X | < 0.010 | < 7.6 | | | | | | mg/l | mg/d | | | |
| 31B. Fluoranthene (206-44-0) | | | X | < 0.010 | < 7.6 | | | | | | mg/l | mg/d | | | |
| 32B. Fluorene (86-73-7) | | | X | < 0.010 | < 7.6 | | | | | | mg/l | mg/d | | | |
| 33B. Hexachlorobenzene (118-74-1) | | | X | < 0.010 | < 7.6 | | | | | | mg/l | mg/d | | | |
| 34B. Hexachlorobutadiene (87-68-3) | | | X | < 0.010 | < 7.6 | | | | | | mg/l | mg/d | | | |
| 35B. Hexachlorocyclopentadiene (77-47-4) | | | X | < 0.010 | < 7.6 | | | | | | mg/l | mg/d | | | |
| 36B. Hexachloroethane (67-72-1) | | | X | < 0.010 | < 7.6 | | | | | | mg/l | mg/d | | | |
| 37B. Indeno *(1,2,3-cd)* Pyrene (193-39-5) | | | X | < 0.010 | < 7.6 | | | | | | mg/l | mg/d | | | |
| 38B. Isophorone (78-59-1) | | | X | < 0.010 | < 7.6 | | | | | | mg/l | mg/d | | | |
| 39B. Naphthalene (91-20-3) | | | X | < 0.010 | < 7.6 | | | | | | mg/l | mg/d | | | |
| 40B. Nitrobenzene (98-95-3) | | | X | < 0.010 | < 7.6 | | | | | | mg/l | mg/d | | | |
| 41B. N-Nitrosodimethylamine (62-75-9) | | | X | < 0.010 | < 7.6 | | | | | | mg/l | mg/d | | | |
| 42B. N-Nitrosodi-N-Propylamine (621-64-7) | | | X | < 0.010 | < 7.6 | | | | | | mg/l | mg/d | | | |


CONTINUE ON REVERSE

CONTINUED FROM THE FRONT

| 1. POLLUTANT AND CAS NUMBER (if available) | 2. MARK 'X' | | | 3. EFFLUENT | | | | | | | 4. UNITS | | 5. INTAKE (optional) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. TESTING REQUIRED | b. BELIEVED PRESENT | c. BELIEVED ABSENT | a. MAXIMUM DAILY VALUE (1) CONCENTRATION | a. MAXIMUM DAILY VALUE (2) MASS | b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION | b. MAXIMUM 30 DAY VALUE (if available) (2) MASS | c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION | c. LONG TERM AVRG. VALUE (if available) (2) MASS | d. NO. OF ANALYSES | a. CONCENTRATION | b. MASS | a. LONG TERM AVERAGE VALUE (1) CONCENTRATION | a. LONG TERM AVERAGE VALUE (2) MASS | b. NO. OF ANALYSES |
| **GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS** *(continued)* | | | | | | | | | | | | | | | |
| 43B. N-Nitrosodiphenylamine (86-30-6) | | | X | < 0.010 | < 15.1 | | | | | | mg/l | mg/d | | | |
| 44B. Phenanthrene (85-01-8) | | | X | < 0.010 | < 15.1 | | | | | | mg/l | mg/d | | | |
| 45B. Pyrene (129-00-0) | | | X | < 0.010 | < 15.1 | | | | | | mg/l | mg/d | | | |
| 46B. 1,2,4-Trichlorobenzene (120-82-1) | | | X | < 0.010 | < 15.1 | | | | | | mg/l | mg/d | | | |
| **GC/MS FRACTION – PESTICIDES** | | | | | | | | | | | | | | | |
| 1P. Aldrin (309-00-2) | | | X | < 0.06 | < 90.8 | | | | | | ug/l | ug/d | | | |
| 2P. α-BHC (319-84-6) | | | X | < 0.04 | < 60.6 | | | | | | ug/l | ug/d | | | |
| 3P. β-BHC (319-85-7) | | | X | < 0.1 | < 0.2 | | | | | | ug/l | mg/d | | | |
| 4P. γ-BHC (58-89-9) | | | X | < 0.03 | < 45.4 | | | | | | ug/l | ug/d | | | |
| 5P. δ-BHC (319-86-8) | | | X | < 0.12 | < 0.2 | | | | | | ug/l | mg/d | | | |
| 6P. Chlordane (57-74-9) | | | X | < 0.25 | < 0.4 | | | | | | ug/l | mg/d | | | |
| 7P. 4,4'-DDT (50-29-3) | | | X | < 0.06 | < 90.8 | | | | | | ug/l | ug/d | | | |
| 8P. 4,4'-DDE (72-55-9) | | | X | < 0.08 | < 0.1 | | | | | | ug/l | mg/d | | | |
| 9P. 4,4'-DDD (72-54-8) | | | X | < 0.08 | < 0.1 | | | | | | ug/l | mg/d | | | |
| 10P. Dieldrin (60-57-1) | | | X | < 0.08 | < 0.1 | | | | | | ug/l | mg/d | | | |
| 11P. α-Endosulfan (115-29-7) | | | X | < 0.05 | < 75.7 | | | | | | ug/l | ug/d | | | |
| 12P. β-Endosulfan (115-29-7) | | | X | < 0.08 | < 0.1 | | | | | | ug/l | mg/d | | | |
| 13P. Endosulfan Sulfate (1031-07-8) | | | X | < 0.09 | < 0.1 | | | | | | ug/l | mg/d | | | |
| 14P. Endrin (72-20-8) | | | X | < 0.06 | < 90.8 | | | | | | ug/l | ug/d | | | |
| 15P. Endrin Aldehyde (7421-93-4) | | | X | < 0.62 | < 0.9 | | | | | | ug/l | mg/d | | | |
| 16P. Heptachlor (76-44-8) | | | X | < 0.03 | < 45.4 | | | | | | ug/l | ug/d | | | |



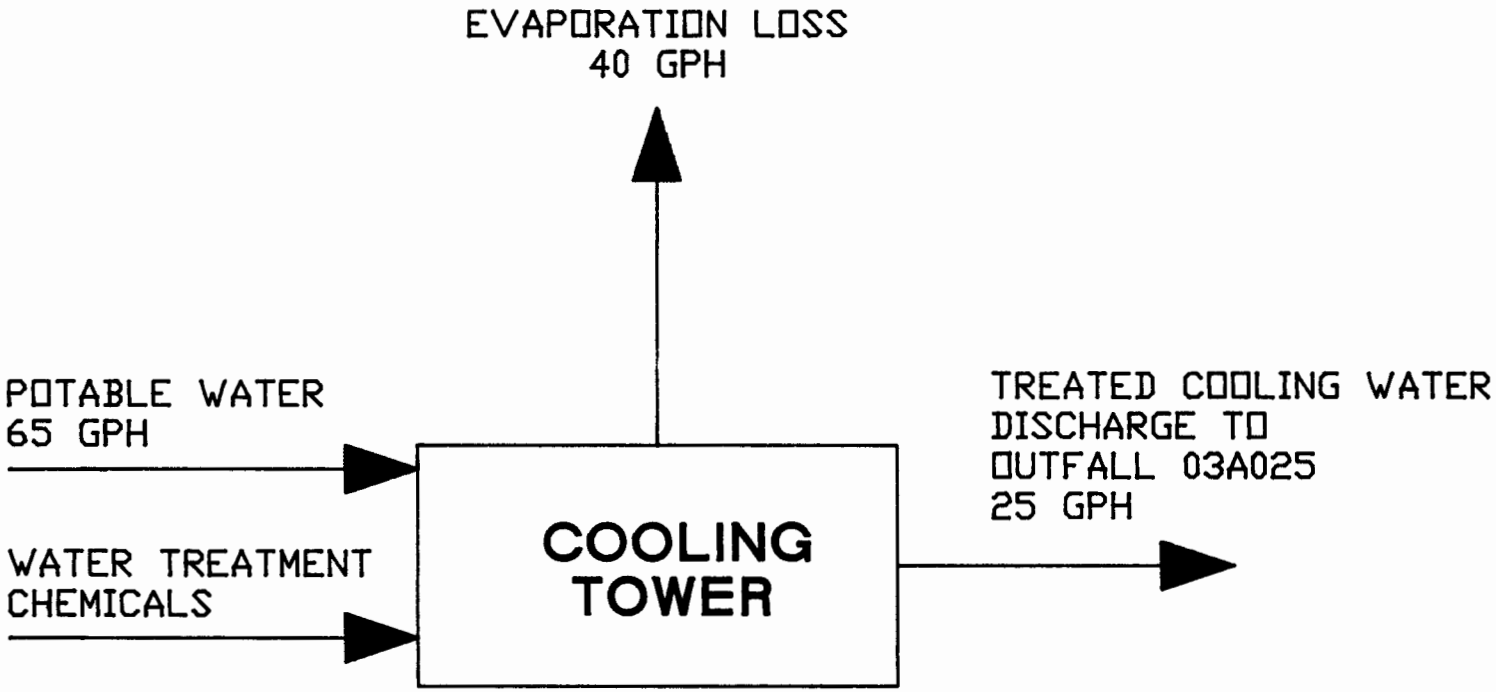
CONTINUE ON PAGE V-9

CONTINUED FROM PAGE V-8

| EPA I.D. NUMBER (copy from Item 1 of Form 1) | OUTFALL NUMBER |
|---|---|
| NM0890010515 | 03A025 |

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

| 1. POLLUTANT AND CAS NUMBER (if available) | 2. MARK 'X' | | | 3. EFFLUENT | | | | | | | 4. UNITS | | 5. INTAKE (optional) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. TESTING REQUIRED | b. BELIEVED PRESENT | c. BELIEVED ABSENT | a. MAXIMUM DAILY VALUE (1) CONCENTRATION | a. MAXIMUM DAILY VALUE (2) MASS | b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION | b. MAXIMUM 30 DAY VALUE (if available) (2) MASS | c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION | c. LONG TERM AVRG. VALUE (if available) (2) MASS | d. NO. OF ANALYSES | a. CONCENTRATION | b. MASS | a. LONG TERM AVERAGE VALUE (1) CONCENTRATION | a. LONG TERM AVERAGE VALUE (2) MASS | b. NO. OF ANALYSES |
| **GC/MS FRACTION – PESTICIDES** *(continued)* | | | | | | | | | | | | | | | |
| 17P. Heptachlor Epoxide (1024-57-3) | | | X | < 0.08 | < 60.6 | | | | | | ug/l | ug/d | | | |
| 18P. PCB-1242 (53469-21-9) | | | X | < 0.71 | < 0.5 | | | | | | ug/l | mg/d | | | |
| 19P. PCB-1254 (11097-69-1) | | | X | < 0.71 | < 0.5 | | | | | | ug/l | mg/d | | | |
| 20P. PCB-1221 (11104-28-2) | | | X | N.D. | | | | | | | | | | | |
| 21P. PCB-1232 (11141-16-5) | | | X | N.D. | | | | | | | | | | | |
| 22P. PCB-1248 (12672-29-6) | | | X | N.D. | | | | | | | | | | | |
| 23P. PCB-1260 (11096-82-5) | | | X | < 0.71 | < 0.5 | | | | | | ug/l | mg/d | | | |
| 24P. PCB-1016 (12674-11-2) | | | X | N.D. | | | | | | | | | | | |
| 25P. Toxaphene (8001-35-2) | | | X | < 2.5 | < 1.9 | | | | | | ug/l | mg/d | | | |



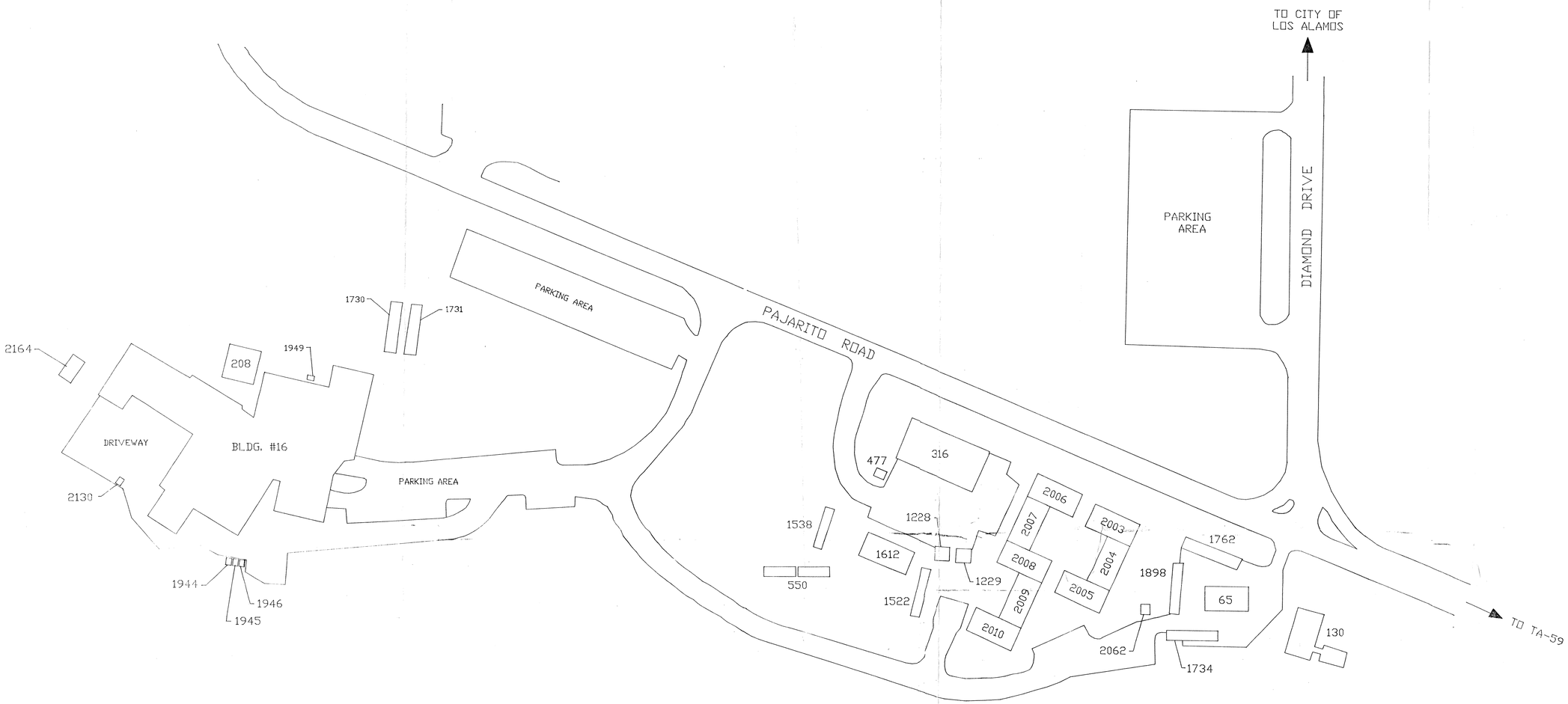

# TA-3-208
# COOLING TOWER

# DYE STUDY INFORMATION

| BUILDING NUMBER | DRAIN NUMBER | DID DYE REACH EXPECTED DESTINATION? | COMMENTS |
|---|---|---|---|
| 3-16 | SBCFD2 | YES | NONE |
| 3-16 | SBCSD1 | YES | NONE |
| 3-16 | BCSD7 | YES | NONE |
| 3-16 | BCSD8 | YES | NONE |
| 3-16 | BCSD10 | YES | NONE |
| 3-16 | BCSD11 | YES | NONE |
| 3-16 | BCSD15 | YES | NONE |
| 3-16 | BFD1 | YES | NONE |
| 3-16 | BFD10 | YES | NONE |
| 3-16 | BFS2 | YES | NONE |
| 3-16 | BLV2 | YES | NONE |
| 3-16 | BSH1 | YES | NONE |
| 3-16 | 1CFS2 | YES | NONE |
| 3-16 | 1CSD1 | YES | NONE |
| 3-16 | 1FD4 | YES | NONE |
| 3-16 | 1FS2 | YES | NONE |
| 3-16 | 1FS3 | YES | NONE |
| 3-16 | 1FS6 | YES | NONE |
| 3-16 | 1LV1 | YES | NONE |
| 3-16 | 1LV2 | YES | NONE |
| 3-16 | 1SD3 | YES | NONE |
| 3-16 | 1SD9 | YES | NONE |
| 3-16 | 1SD10 | YES | NONE |
| 3-65 | 1LV1 | YES | NONE |
| 3-65 | 1SD3 | YES | NONE |
| 3-130 | 1SD1 | YES | NONE |
| 3-208 | 1FS1 | YES | NONE |
| 3-316 | 1LV2 | YES | NONE |
| 3-316 | 1SD1 | YES | NONE |
| 3-1612 | 1LV1 | YES | NONE |
| 3-1762 | 1LV2 | YES | NONE |
| 3-2003 | 1SD1 | YES | NONE |
| 3-2004 | 1LV2 | YES | NONE |
| 3-2006 | 1LV2 | YES | NONE |

CONTINUED ON NEXT SHT.

| BUILDING NUMBER | DRAIN NUMBER | DID DYE REACH EXPECTED DESTINATION? | COMMENTS |
|---|---|---|---|
| 3-2008 | 1SD1 | YES | NONE |
| 3-2009 | 1CD1 | YES | NONE |
| 3-2009 | 1ED1 | NO | DRAINS TO SANITARY SEWER |
| 3-2009 | 1LV2 | YES | NONE |
| 3-2009 | 1SD1 | YES | NONE |
| 3-2010 | 1ED1 | NO | DRAINS TO SANITARY SEWER |
| 3-2010 | 1SD1 | YES | NONE |




# TA-3 PARTIAL SITE PLAN

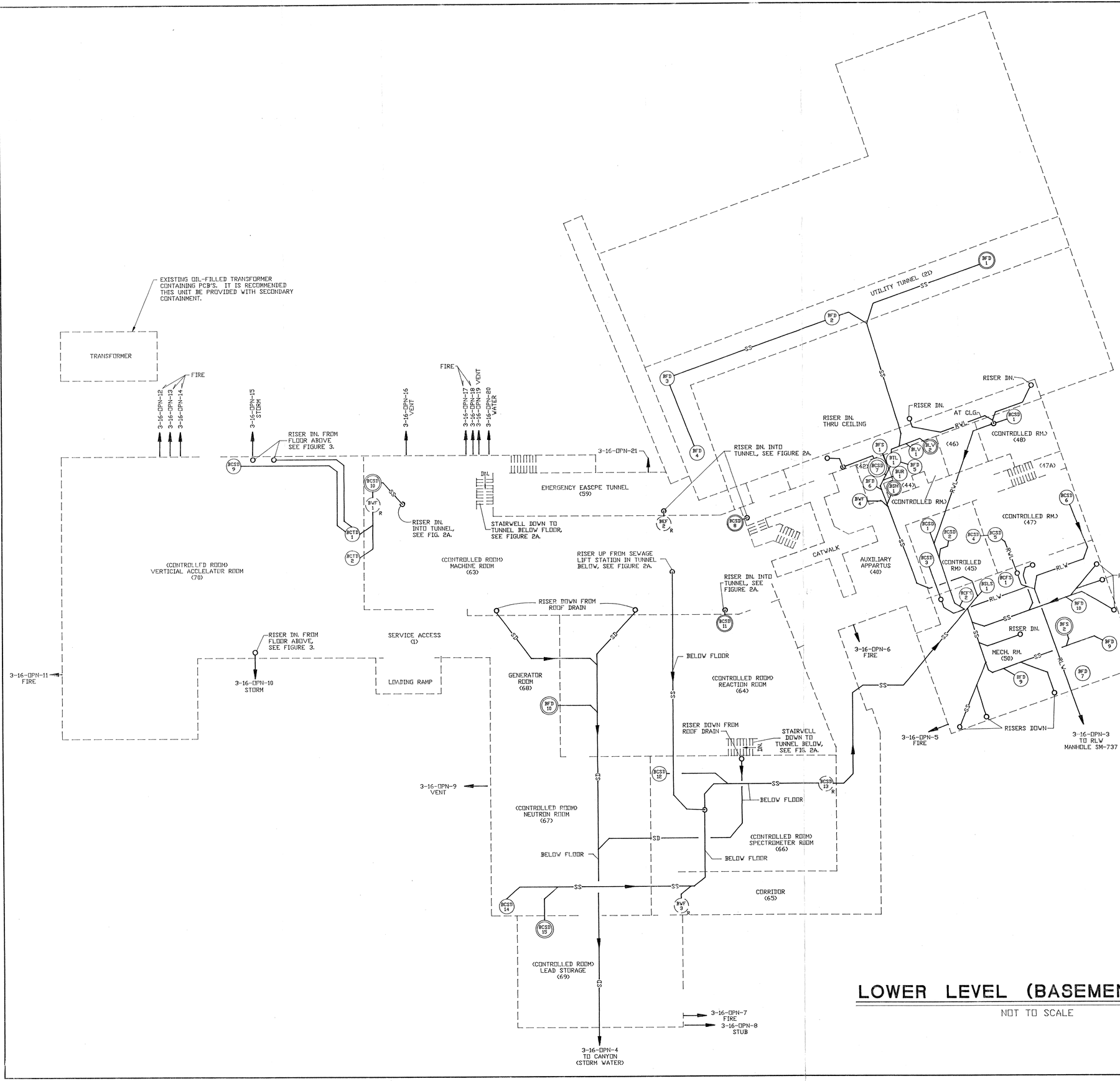
NOT TO SCALE

NOTE:

THIS DRAWING WAS DERIVED FROM L.A.N.L. DRAWING R-5134 AND SITE VISIT.

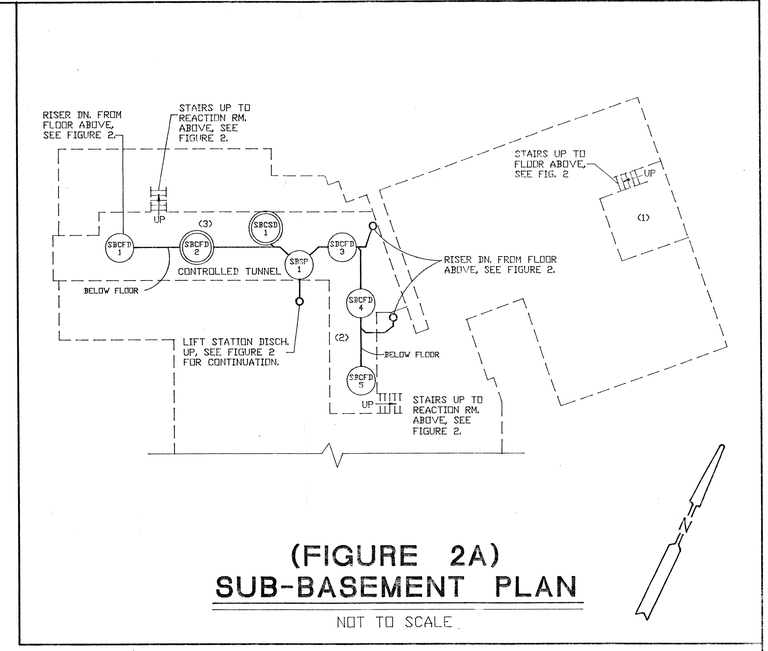
| | | | |
|---|---|---|---|
| SANTA FE ENGINEERING, LTD. | | | |
| TA-3 PARTIAL SITE PLAN | | DRAWN | M.E.W. |
| | | DESIGN | M.E.W. |
| | | CHECKED | P.E.B. |
| | | DATE | 6-26-92 |
| SUBMITTED | RECOMMENDED | APPROVED | |
| Los Alamos | Los Alamos National Laboratory Los Alamos, New Mexico 87545 | SHEET | 1 OF 1 |
| CLASSIFICATION | REVIEWER | DATE | |
| REQUESTING DIVISION | LAB JOB NO. | DRAWING NO. | REV. |
| REQUESTING GROUP EM-8 | 11056-38 | FIGURE 1 | |

15230-A




# LOWER LEVEL (BASEMENT) PLAN

NOT TO SCALE




# (FIGURE 2A) SUB-BASEMENT PLAN

NOT TO SCALE

| SYMBOL LEGEND | |
|---|---|
| CES | CONTAMIN. EMER. SHUWER |
| CFS | CONTAMIN. FLOOR SINK |
| CLV | CONTAMIN. LAVATORY |
| CSD | CONTAMIN. SINK DRAIN |
| CSH | CONTAMIN. SHOWER DRAIN |
| CTD | CONTAMIN. TRENCH DRAIN |
| FD | FLOOR DRAIN |
| FS | FLOOR SINK |
| —RLW— | RADIOACTIVE LIQUID WASTE |
| SD | SINK DRAIN |
| SP | SUMP PUMP |
| —SS— | SANITARY SEWER PIPE |
| TL | TOLIET |
| UR | URNIAL |
| WF | WATER FOUNTAIN |

DYE TESTED DRAIN

DRAIN HAS BEEN PLUGGED

DRAIN HAS BEEN REMOVED

SANTA FE ENGINEERING, LTD.

**TA-3-16 DRAIN SCHEMATIC**

| | |
|---|---|
| DRAWN | D.A.H. |
| DESIGN | ???? |
| CHECKED | P.E.B. |
| RELEASED | |
| DATE | 11/11/92 |

SUBMITTED | RECOMMENDED | APPROVED

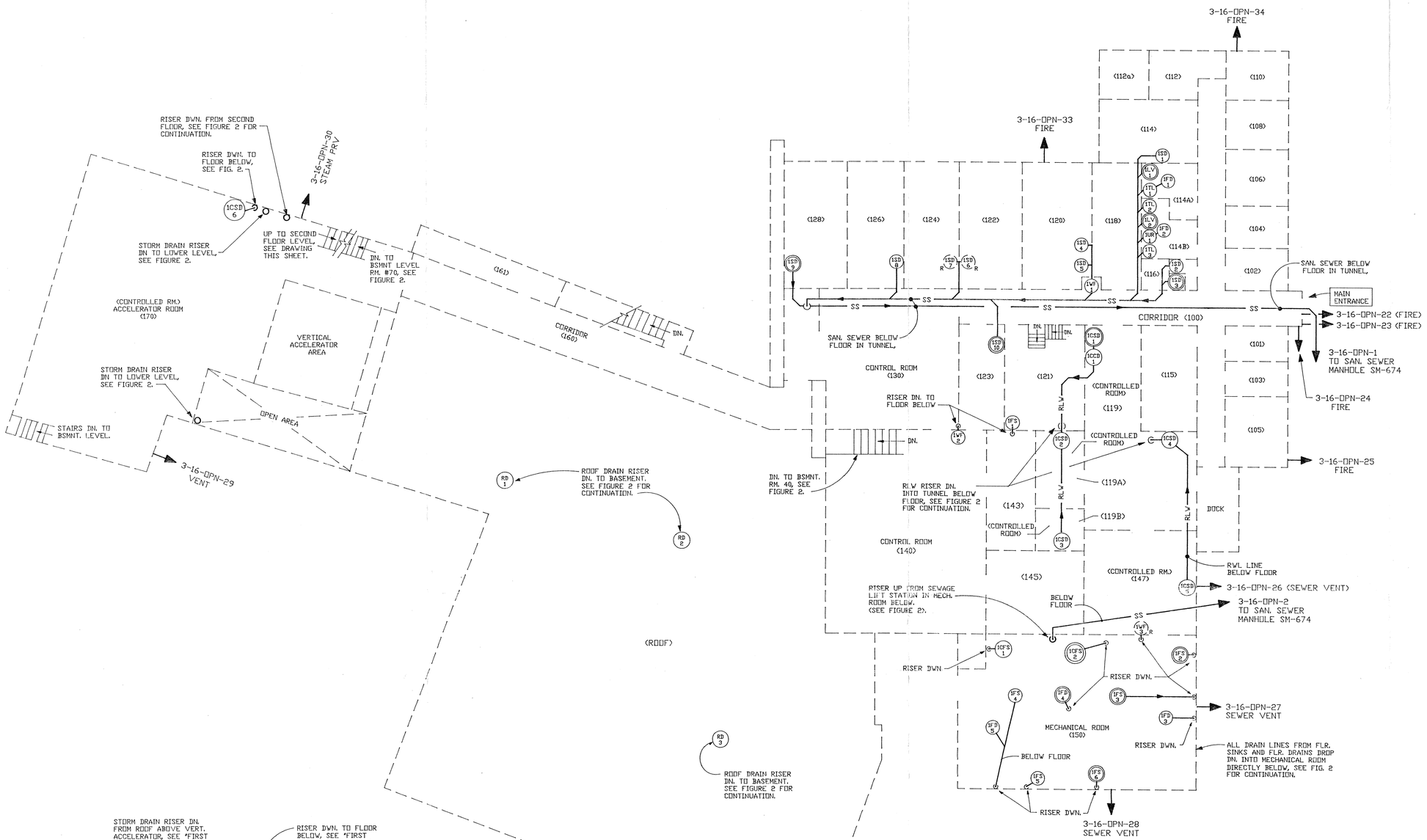
L sAlam s — Los Alamos National Laboratory, Los Alamos, New Mexico 87545

SHEET | OF

CLASSIFICATION | REVIEWER | DATE

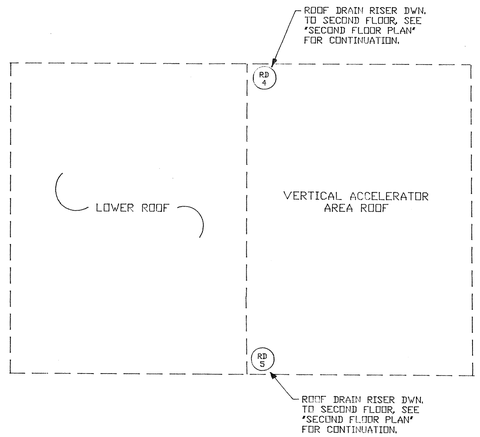
REQUESTING DIVISION | LAB JOB NO. | DRAWING NO. | REV.

REQUESTING GROUP EM-8 | 11056-38 | FIGURE 2



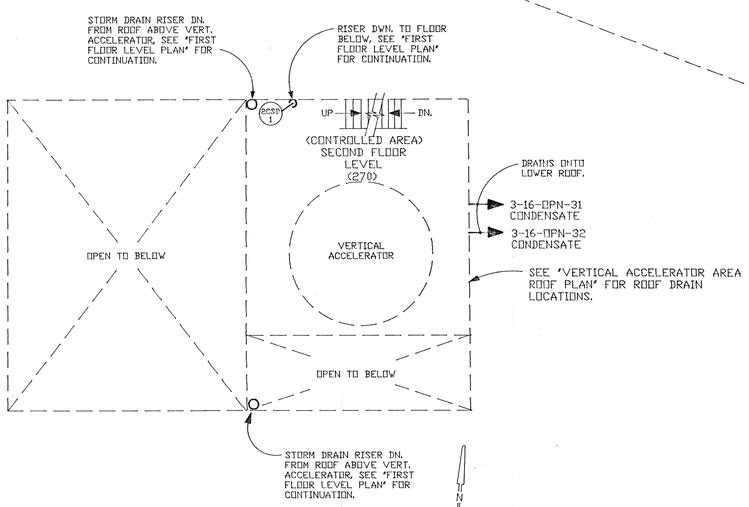

# FIRST FLOOR LEVEL PLAN

NOT TO SCALE




# VERTICAL ACCELERATOR AREA ROOF PLAN

NOT TO SCALE




# SECOND FLOOR PLAN

NOT TO SCALE

| SYMBOL LEGEND | |
|---|---|
| AW | ACID WASTE PIPE |
| CCD | CONTAMINATED CUP DRAIN |
| CFS | CONTAMIN. FLOOR SINK |
| CSD | CONTAMINAT. SINK DRAIN |
| FD | FLOOR DRAIN |
| LV | LAVATORY |
| RD | ROOF DRAIN |
| SD | SINK DRAIN |
| SH | SHOWER |
| —SS— | SANITARY SEWER PIPE |
| TL | TOILET |
| UR | URINAL |
| WF | WATER FOUNTAIN |

DYE TESTED DRAIN

DRAIN HAS BEEN REMOVED

NOTE:

THIS DRAIN SCHEMATIC WAS DERIVED FROM L.A.N.L. DRAWINGS C-1894, C-1897, C-1911, C-1916, C-1921, C-1922, C-1923, C-1927, C-1947, C-31373, C-31378, C-31380, C-31388, C-31446, C-31447, C-31448, 31449, 31450, C-31451, C-40819, C-40822, C-40824, R-3390, R-3391, R-3392 AND SITE VISITS.

SANTA FE ENGINEERING, LTD.

TA3-16
DRAIN SCHEMATIC

| | |
|---|---|
| DRAWN | M.E.W. |
| DESIGN | M.E.W. |
| CHECKED | P.E.B. |
| DATE | 6-26-92 |

SUBMITTED | RECOMMENDED | APPROVED

Los Alamos — Los Alamos National Laboratory, Los Alamos, New Mexico 87545

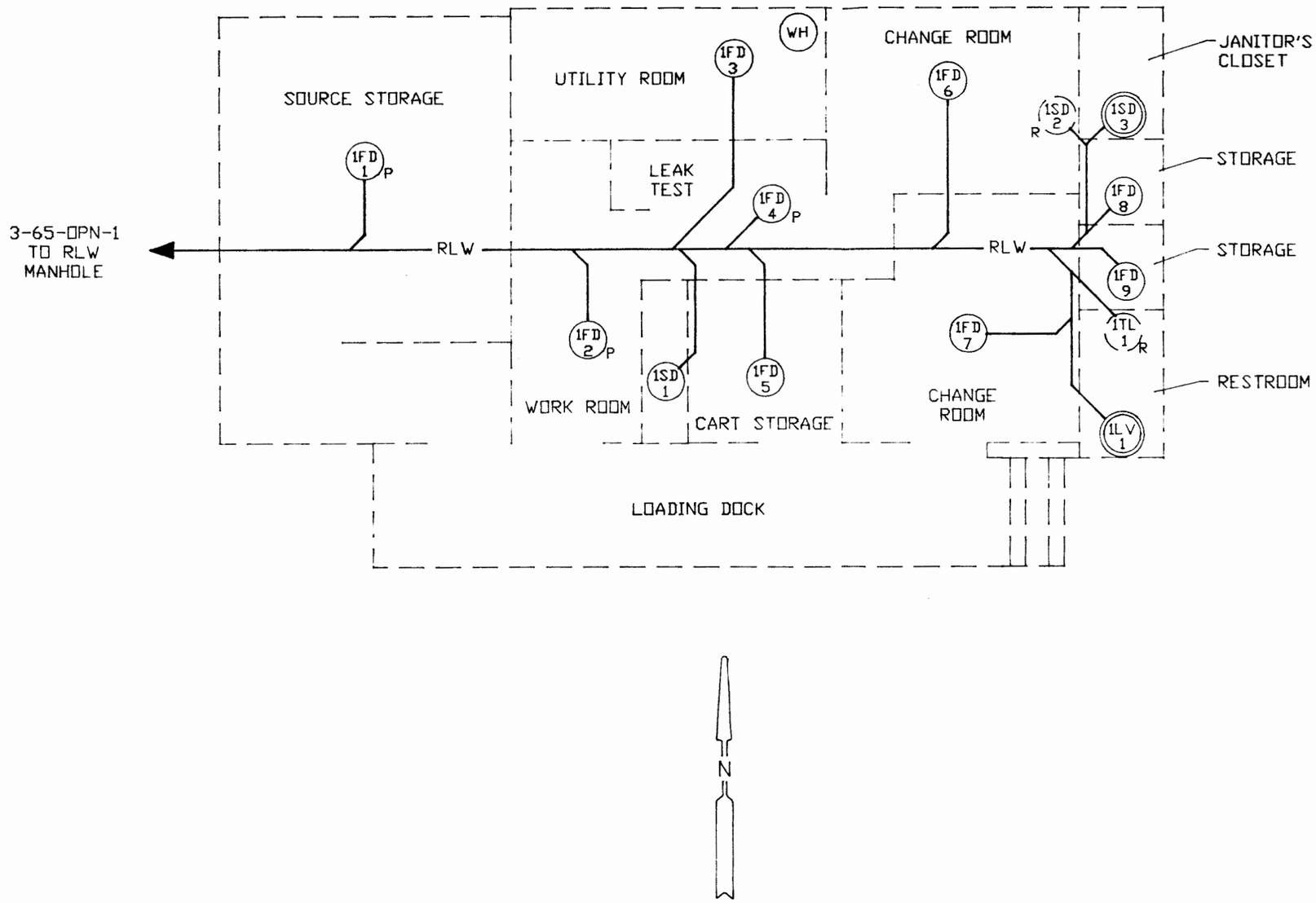
SHEET 2 OF 2

CLASSIFICATION | REVIEWER | DATE

REQUESTING DIVISION | LAB JOB NO. | DRAWING NO. | REV.

REQUESTING GROUP EM-8 | 11056-38 | FIGURE 3

15230-C




| SYMBOL LEGEND | |
|---|---|
| FD | FLOOR DRAIN |
| LV | LAVATORY |
| RLW | RADIOACTIVE LIQUID WASTE |
| SD | SINK DRAIN |
| TL | TOILET |
| WH | WATER HEATER |

DYE TESTED DRAIN

R REMOVED

P PLUGGED

NOTE:

THIS DRAIN SCHEMATIC WAS DERIVED FROM SITE VISITS.

SANTA FE ENGINEERING, LTD.

# TA3-65 DRAIN SCHEMATIC

| | |
|---|---|
| DRAWN | M.E.W. |
| DESIGN | M.E.W. |
| CHECKED | P.E.B. |
| | |
| DATE | 11-3-93 |

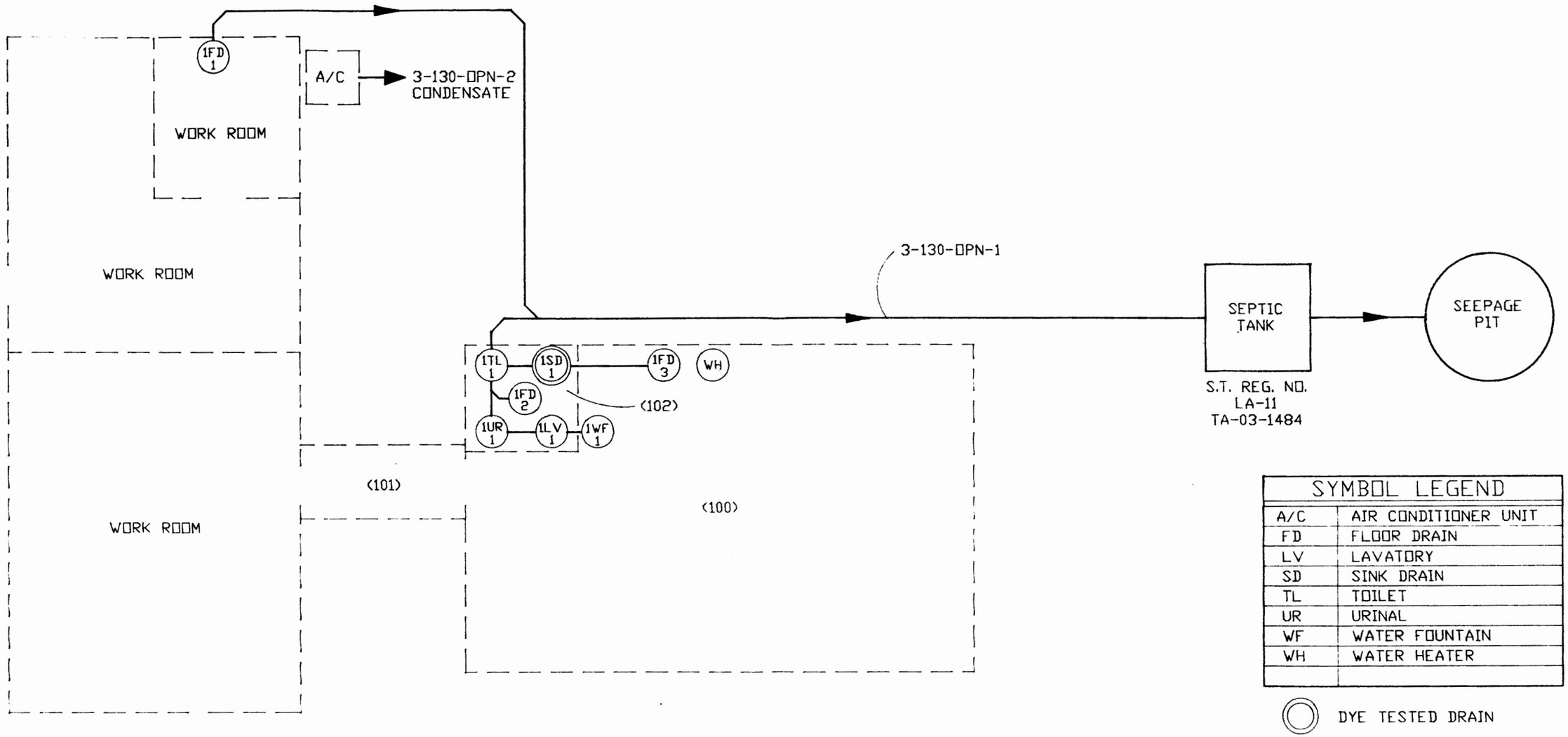
SUBMITTED | RECOMMENDED | APPROVED

Los Alamos — Los Alamos National Laboratory, Los Alamos, New Mexico 87545

SHEET 1 OF 1

CLASSIFICATION | REVIEWER | DATE

| REQUESTING DIVISION | LAB JOB NO. | DRAWING NO. | REV. |
|---|---|---|---|
| REQUESTING GROUP EM-8 | 11056-38 | FIGURE 4 | |




| SYMBOL LEGEND | |
|---|---|
| A/C | AIR CONDITIONER UNIT |
| FD | FLOOR DRAIN |
| LV | LAVATORY |
| SD | SINK DRAIN |
| TL | TOILET |
| UR | URINAL |
| WF | WATER FOUNTAIN |
| WH | WATER HEATER |
| | |

DYE TESTED DRAIN

NOTE:

THIS DRAIN SCHEMATIC WAS DERIVED FROM L.A.N.L. DRAWINGS C-43855 AND SITE VISIT.

N

SANTA FE ENGINEERING, LTD.

# TA3-130 DRAIN SCHEMATIC

| | |
|---|---|
| DRAWN | M.E.W. |
| DESIGN | M.E.W. |
| CHECKED | P.E.B. |
| | |
| DATE | 6-26-92 |

SUBMITTED | RECOMMENDED | APPROVED

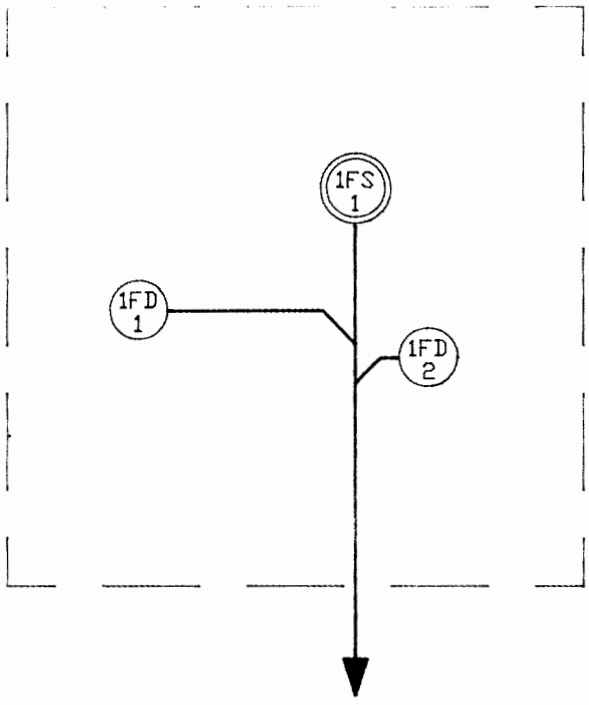
Los Alamos

Los Alamos National Laboratory
Los Alamos, New Mexico 87545

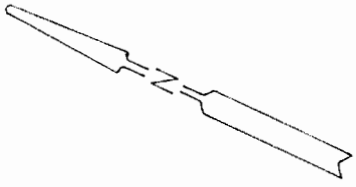
SHEET 1 OF 1

CLASSIFICATION | REVIEWER | DATE

| REQUESTING DIVISION | LAB JOB NO. | DRAWING NO. | REV. |
|---|---|---|---|
| REQUESTING GROUP EM-8 | 11056-38 | FIGURE 5 | |




3-208-OPN-1
PERMITTED OUTFALL
03A025 TO
PAJARITO CANYON



| SYMBOL LEGEND | |
|---|---|
| FD | FLOOR DRAIN |
| FS | FLOOR SINK |
| | |

DYE TESTED DRAIN

NOTE:

THIS DRAIN SCHEMATIC WAS DERIVED FROM L.A.N.L. DRAWINGS C-31714, C-31715, C-31716, C-31717 AND SITE VISIT.

SANTA FE ENGINEERING, LTD.

# TA3-208 DRAIN SCHEMATIC

| | |
|---|---|
| DRAWN | M.E.W. |
| DESIGN | M.E.W. |
| CHECKED | P.E.B. |
| | |
| DATE | 6-26-92 |

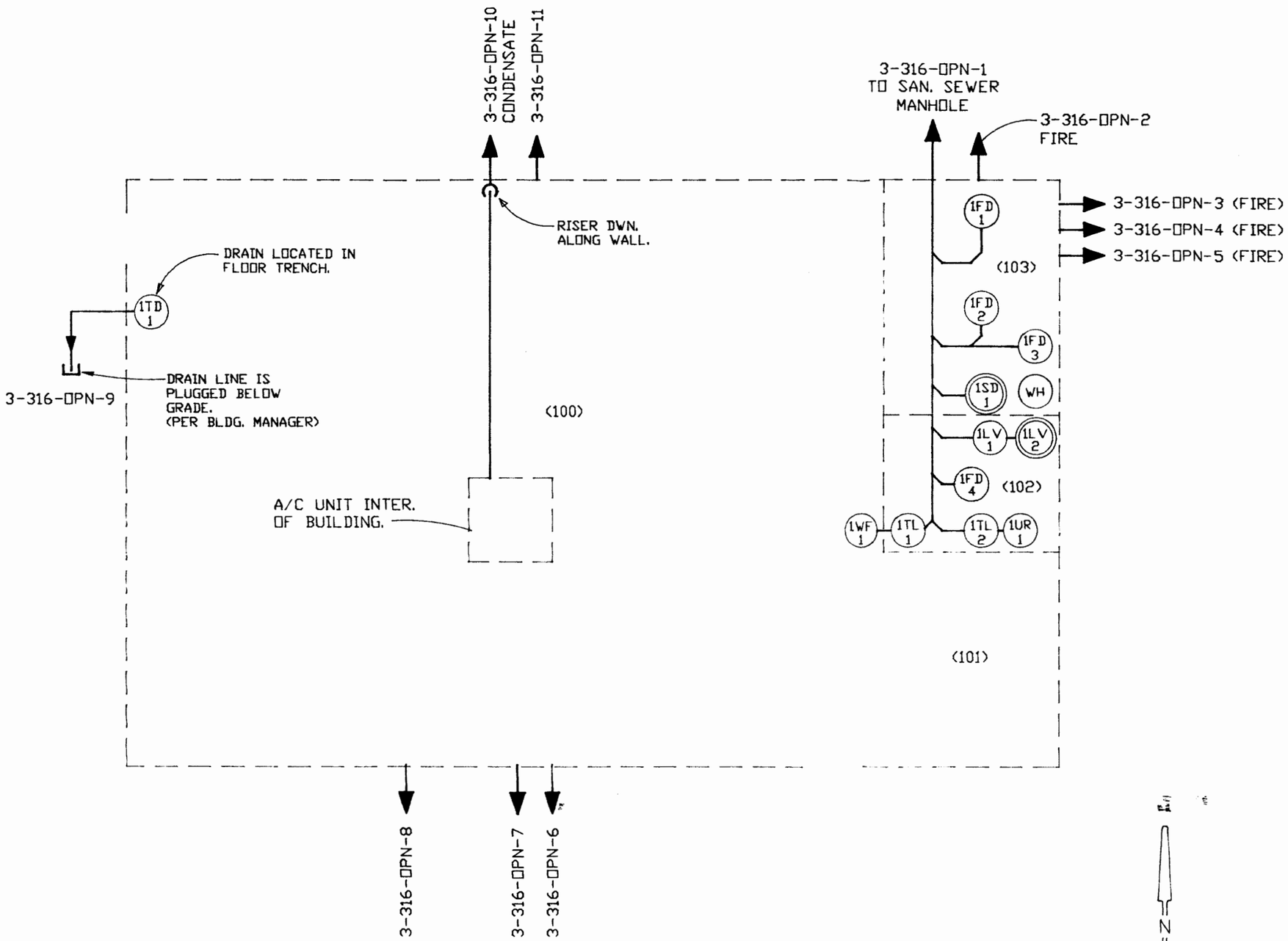
SUBMITTED | RECOMMENDED | APPROVED

Los Alamos — Los Alamos National Laboratory, Los Alamos, New Mexico 87545

SHEET 1 OF 1

CLASSIFICATION | REVIEWER | DATE

| REQUESTING DIVISION | LAB JOB NO. | DRAWING NO. | REV. |
|---|---|---|---|
| REQUESTING GROUP EM-8 | 11056-38 | FIGURE 6 | |




| SYMBOL LEGEND | |
|---|---|
| A/C | AIR CONDITIONER UNIT |
| FD | FLOOR DRAIN |
| LV | LAVATORY |
| SD | SINK DRAIN |
| TD | TRENCH DRAIN |
| TL | TOILET |
| UR | URINAL |
| WF | WATER FOUNTAIN |
| WH | WATER HEATER |

◎ DYE TESTED DRAIN

NOTE:

THIS DRAIN SCHEMATIC WAS DERIVED FROM L.A.N.L. DRAWINGS C-36460, C-36461, C-36462, C-36466 AND SITE VISIT.

SANTA FE ENGINEERING, LTD.

**TA3-316**
**DRAIN SCHEMATIC**

| | |
|---|---|
| DRAWN | M.E.W. |
| DESIGN | M.E.W. |
| CHECKED | P.E.B. |
| DATE | 6-26-92 |

SUBMITTED | RECOMMENDED | APPROVED

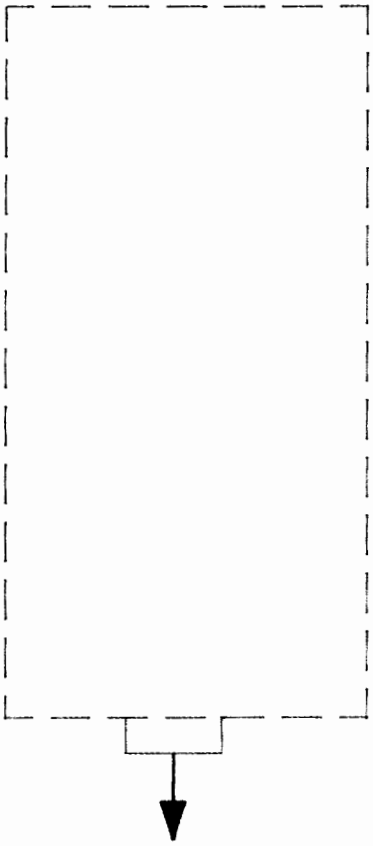
Los Alamos — Los Alamos National Laboratory, Los Alamos, New Mexico 87545

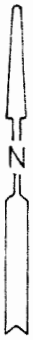
SHEET 1 OF 1

CLASSIFICATION | REVIEWER | DATE

REQUESTING DIVISION | LAB JOB NO. | DRAWING NO. | REV.

REQUESTING GROUP EM-8 | 11056-38 | FIGURE 7




NOTE:

THIS DRAIN SCHEMATIC WAS DERIVED FROM A SITE VISIT.

SANTA FE ENGINEERING, LTD.

# TA3-1522 DRAIN SCHEMATIC

| | |
|---|---|
| DRAWN | M.E.W. |
| DESIGN | M.E.W. |
| CHECKED | P.E.B. |
| | |
| DATE | 6-26-92 |

SUBMITTED | RECOMMENDED | APPROVED

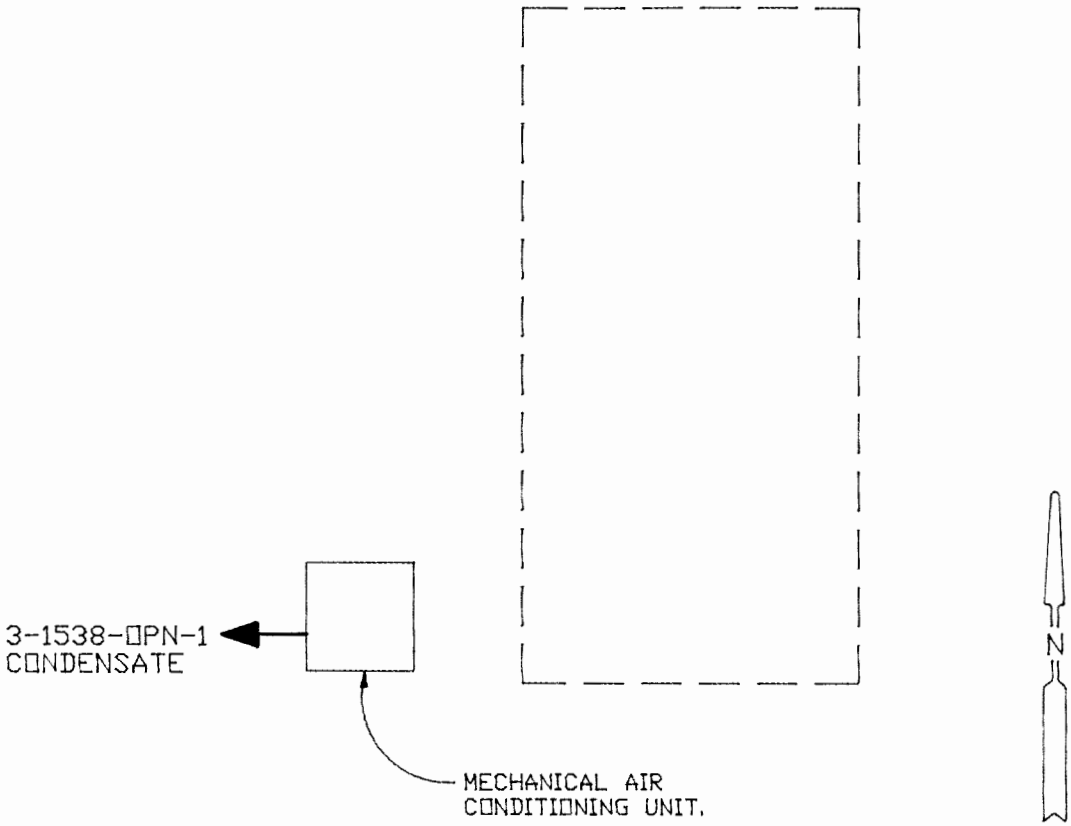
Los Alamos

Los Alamos National Laboratory
Los Alamos, New Mexico 87545

SHEET 1 OF 1

CLASSIFICATION | REVIEWER | DATE

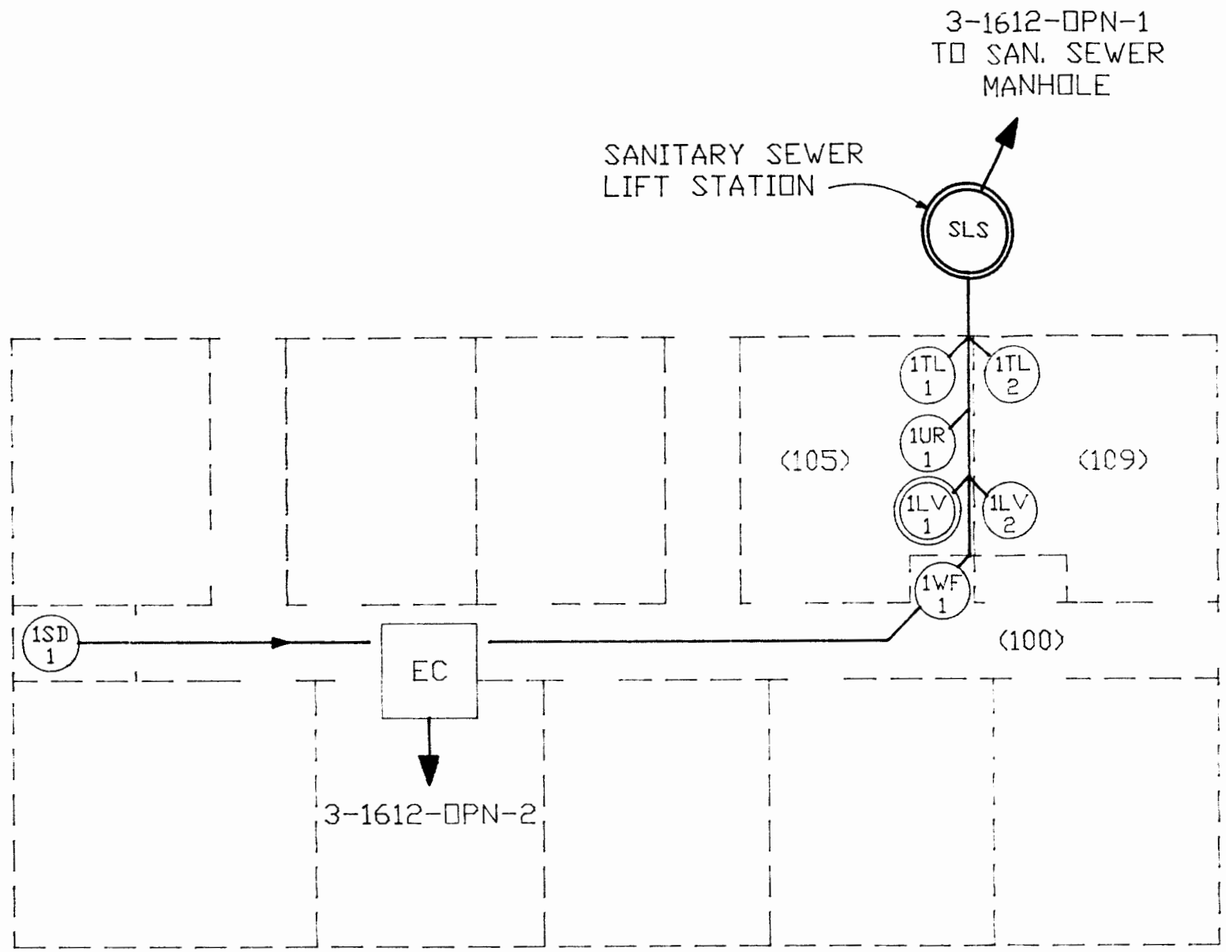
| REQUESTING DIVISION | LAB JOB NO. | DRAWING NO. | REV. |
|---|---|---|---|
| REQUESTING GROUP EM-8 | 11056-38 | FIGURE 8 | |

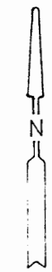



NOTE:

THIS DRAWING WAS DERIVED FROM A SITE VISIT.

| SANTA FE ENGINEERING, LTD. | | |
|---|---|---|
| TA3-1538 DRAIN SCHEMATIC | DRAWN | M.E.W. |
| | DESIGN | M.E.W. |
| | CHECKED | P.E.B. |
| | | |
| | DATE | 6-26-92 |
| SUBMITTED | RECOMMENDED | APPROVED |
| Los Alamos — Los Alamos National Laboratory, Los Alamos, New Mexico 87545 | SHEET | 1 OF 1 |
| CLASSIFICATION | REVIEWER | DATE |
| REQUESTING DIVISION | LAB JOB NO. | DRAWING NO. / REV. |
| REQUESTING GROUP EM-8 | 11056-38 | FIGURE 9 |




| SYMBOL LEGEND | |
|---|---|
| EC | EVAPORATIVE COOLER |
| LV | LAVATORY |
| SD | SINK DRAIN |
| SLS | SAN. SEWAGE LIFT STA. |
| TL | TOILET |
| UR | URINAL |
| WF | WATER FOUNTAIN |

DYE TESTED DRAIN

NOTE:

THIS DRAWING WAS DERIVED FROM L.A.N.L. DRAWINGS C-44753 AND SITE VISIT.

SANTA FE ENGINEERING, LTD.

**TA3-1612 DRAIN SCHEMATIC**

| | |
|---|---|
| DRAWN | M.E.W. |
| DESIGN | M.E.W. |
| CHECKED | P.E.B. |
| | |
| DATE | 6-26-92 |

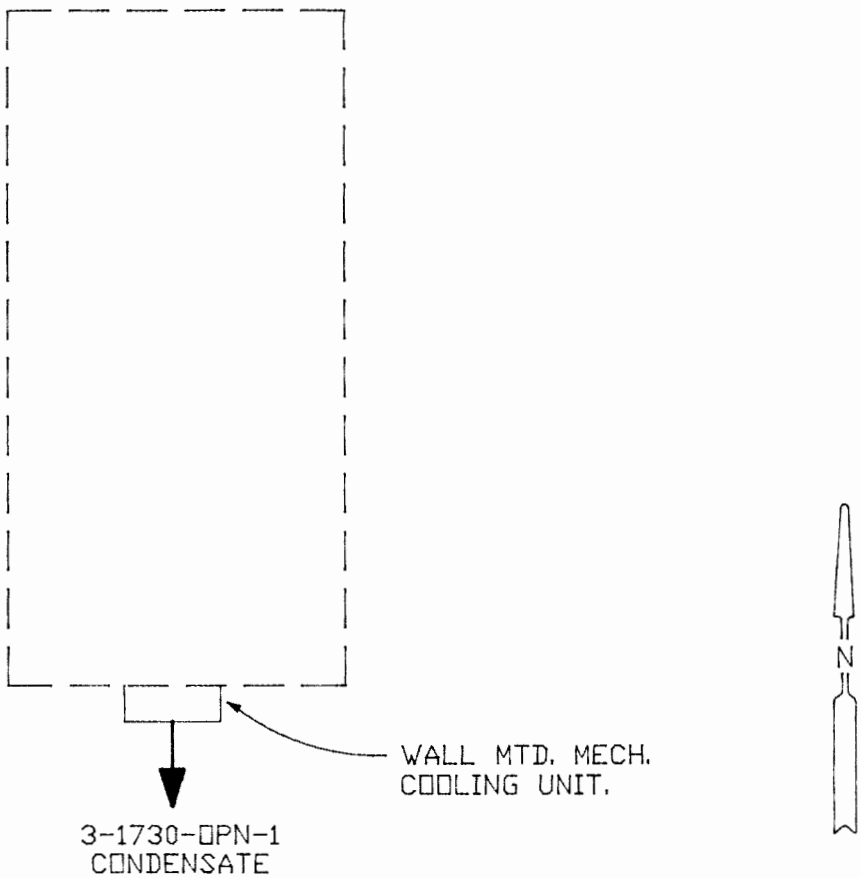
SUBMITTED | RECOMMENDED | APPROVED

Los Alamos — Los Alamos National Laboratory, Los Alamos, New Mexico 87545

SHEET 1 OF 1

CLASSIFICATION | REVIEWER | DATE

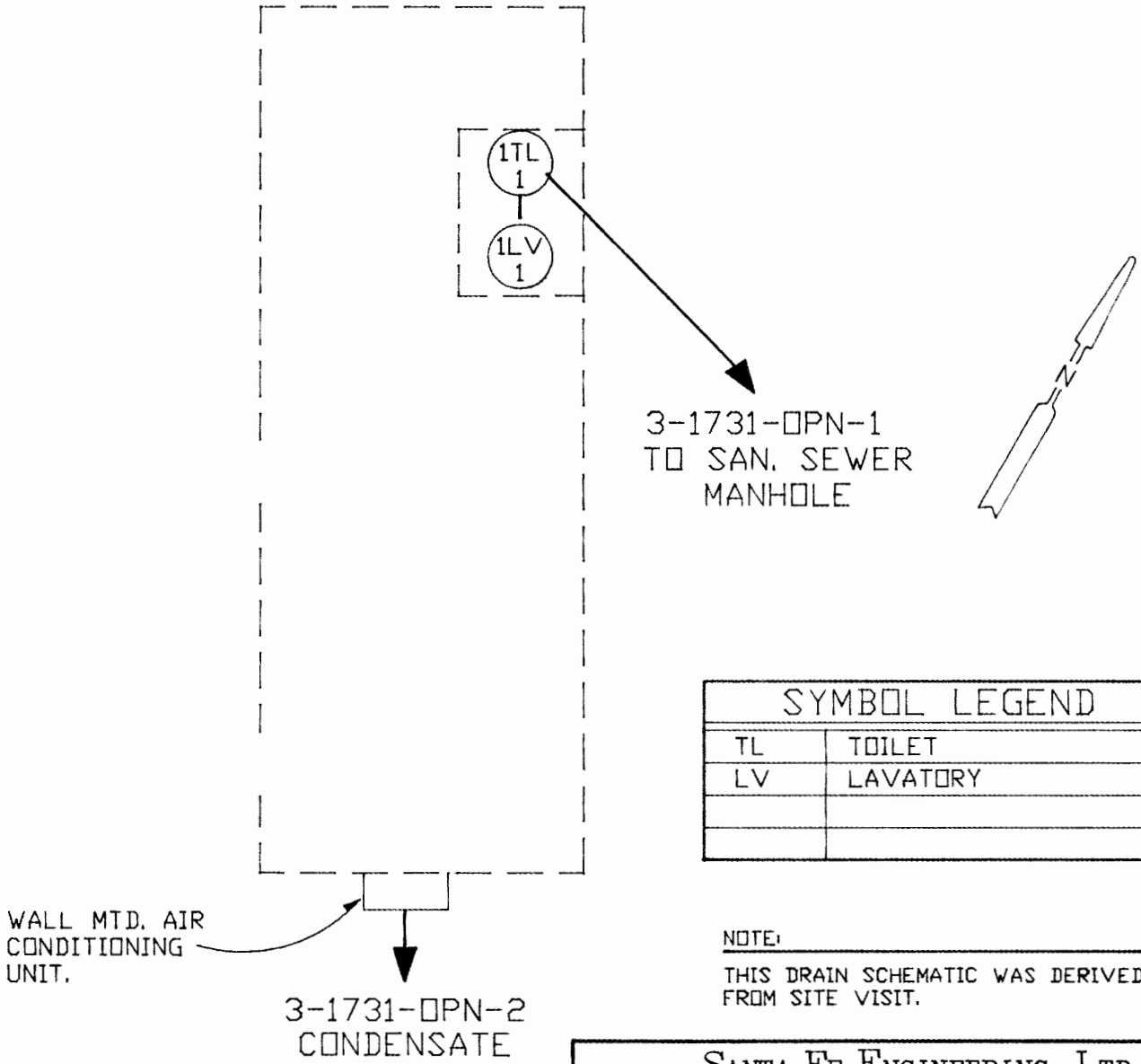
| REQUESTING DIVISION | LAB JOB NO. | DRAWING NO. | REV. |
|---|---|---|---|
| REQUESTING GROUP EM-8 | 11056-38 | FIGURE 10 | |




NOTE:

THIS DRAWING WAS DERIVED FROM A SITE VISIT.

| SANTA FE ENGINEERING, LTD. | | | |
|---|---|---|---|
| TA3-1730 DRAIN SCHEMATIC | | DRAWN | M.E.W. |
| | | DESIGN | M.E.W. |
| | | CHECKED | P.E.B. |
| | | DATE | 6-26-92 |
| SUBMITTED | RECOMMENDED | APPROVED | |
| Los Alamos | Los Alamos National Laboratory<br>Los Alamos, New Mexico 87545 | SHEET | 1 OF 1 |
| CLASSIFICATION | REVIEWER | DATE | |
| REQUESTING DIVISION | LAB JOB NO. | DRAWING NO. | REV. |
| REQUESTING GROUP EM-8 | 11056-38 | FIGURE 11 | |




| SYMBOL LEGEND | |
|---|---|
| TL | TOILET |
| LV | LAVATORY |
| | |
| | |

NOTE:

THIS DRAIN SCHEMATIC WAS DERIVED FROM SITE VISIT.

SANTA FE ENGINEERING, LTD.

# TA3-1731 DRAIN SCHEMATIC

| | |
|---|---|
| DRAWN | M.E.W. |
| DESIGN | M.E.W. |
| CHECKED | P.E.B. |
| RELEASED | |
| DATE | 6-26-92 |

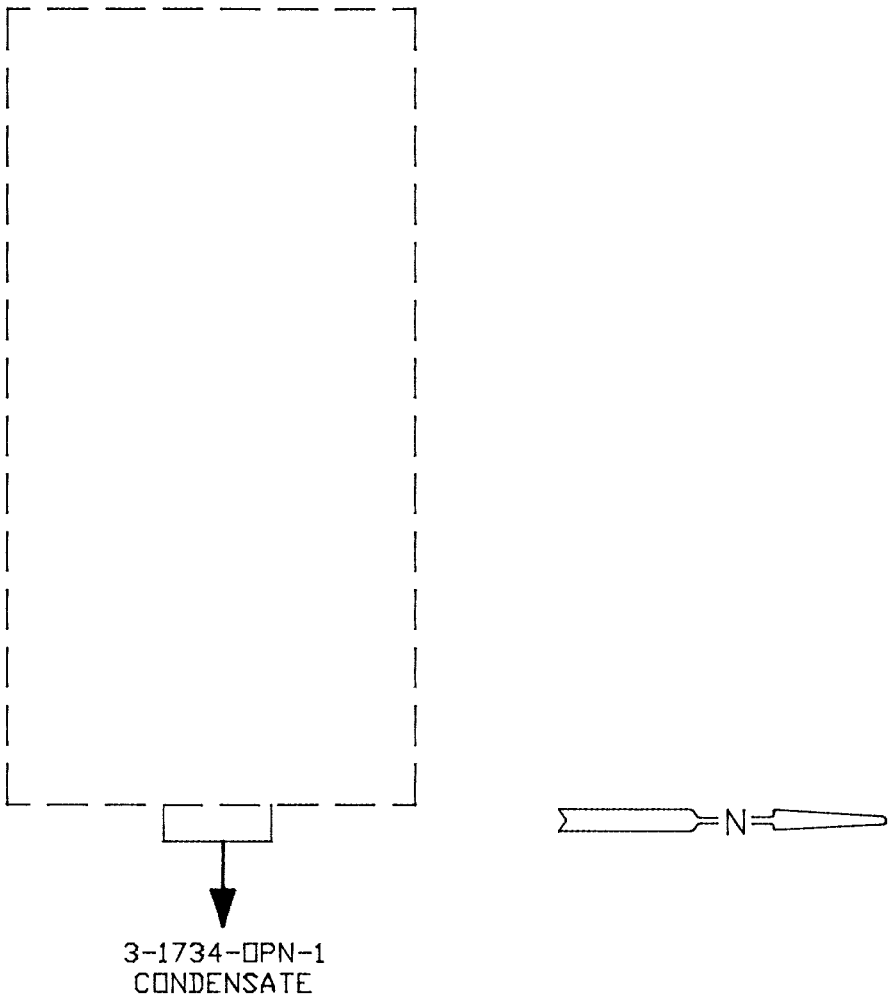
SUBMITTED | RECOMMENDED | APPROVED

Los Alamos — Los Alamos National Laboratory, Los Alamos, New Mexico 87545

SHEET 1 OF 1

CLASSIFICATION | REVIEWER | DATE

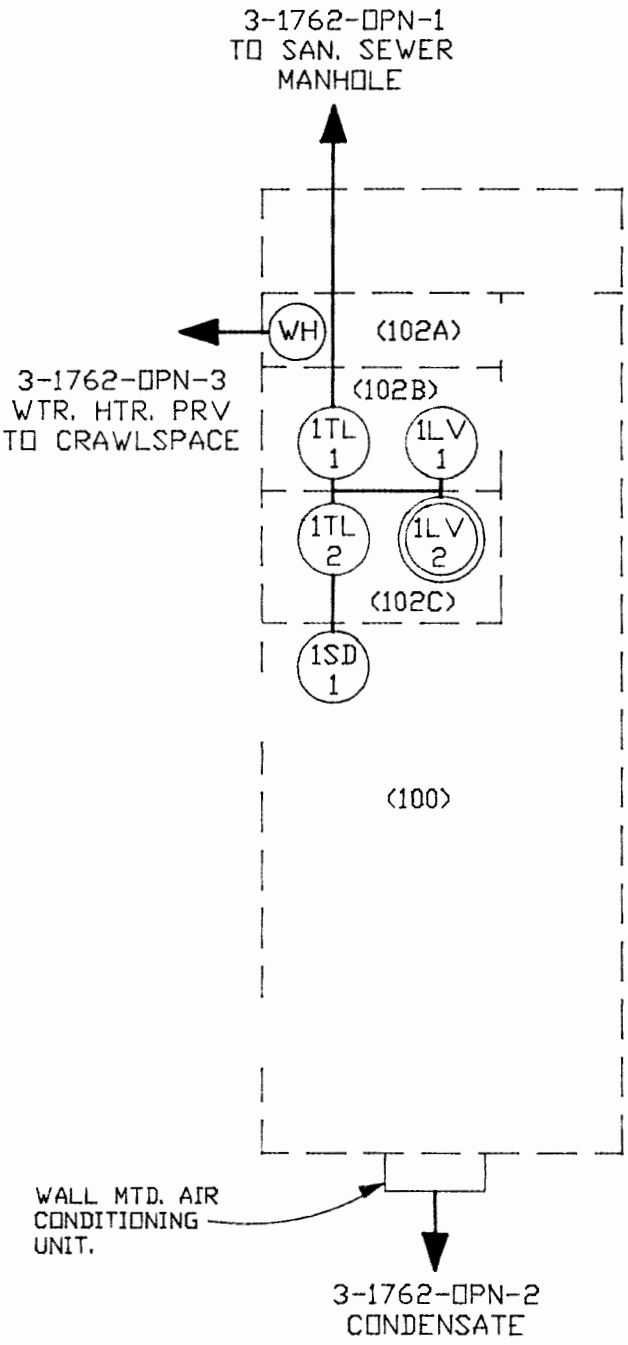
| REQUESTING DIVISION | LAB JOB NO. | DRAWING NO. | REV. |
|---|---|---|---|
| REQUESTING GROUP EM-8 | 11056-38 | FIGURE 12 | |

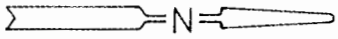



NOTE:

THIS DRAIN SCHEMATIC WAS DERIVED FROM A SITE VISIT.

| SANTA FE ENGINEERING, LTD. | | |
|---|---|---|
| TA3-1734 DRAIN SCHEMATIC | DRAWN | M.E.W. |
| | DESIGN | M.E.W. |
| | CHECKED | P.E.B. |
| | | |
| | DATE | 6-26-92 |
| SUBMITTED | RECOMMENDED | APPROVED |
| Los Alamos — Los Alamos National Laboratory, Los Alamos, New Mexico 87545 | SHEET | 1 OF 1 |
| CLASSIFICATION | REVIEWER | DATE |
| REQUESTING DIVISION / REQUESTING GROUP EM-8 | LAB JOB NO. 11056-38 | DRAWING NO. FIGURE 13 / REV. |




| SYMBOL LEGEND | |
|---|---|
| SD | SINK DRAIN |
| LV | LAVATORY |
| TL | TOILET |
| WH | WATER HEATER |
| | |

DYE TESTED DRAIN

NOTE:

THIS DRAIN SCHEMATIC WAS DERIVED FROM SITE VISIT.

SANTA FE ENGINEERING, LTD.

# TA3-1762 DRAIN SCHEMATIC

| | |
|---|---|
| DRAWN | M.E.W. |
| DESIGN | M.E.W. |
| CHECKED | P.E.B. |
| | |
| DATE | 6-26-92 |

SUBMITTED | RECOMMENDED | APPROVED

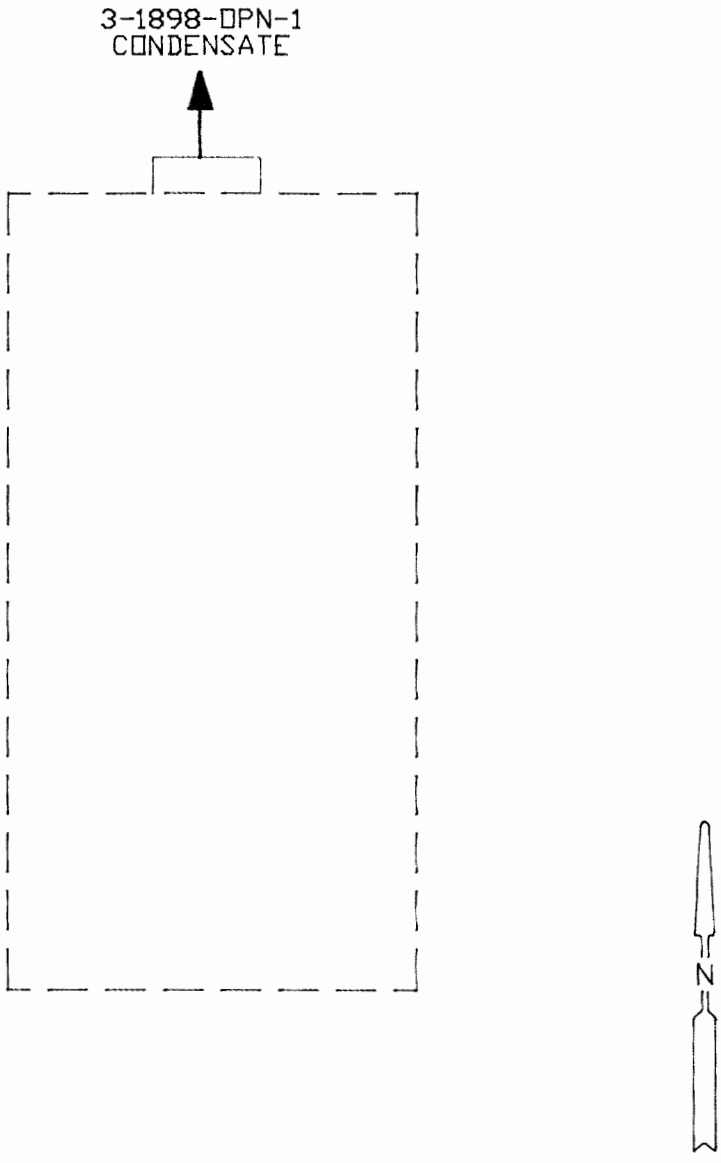
Los Alamos — Los Alamos National Laboratory, Los Alamos, New Mexico 87545

SHEET 1 OF 1

CLASSIFICATION | REVIEWER | DATE

REQUESTING DIVISION | LAB JOB NO. 11056-38 | DRAWING NO. FIGURE 14 | REV.

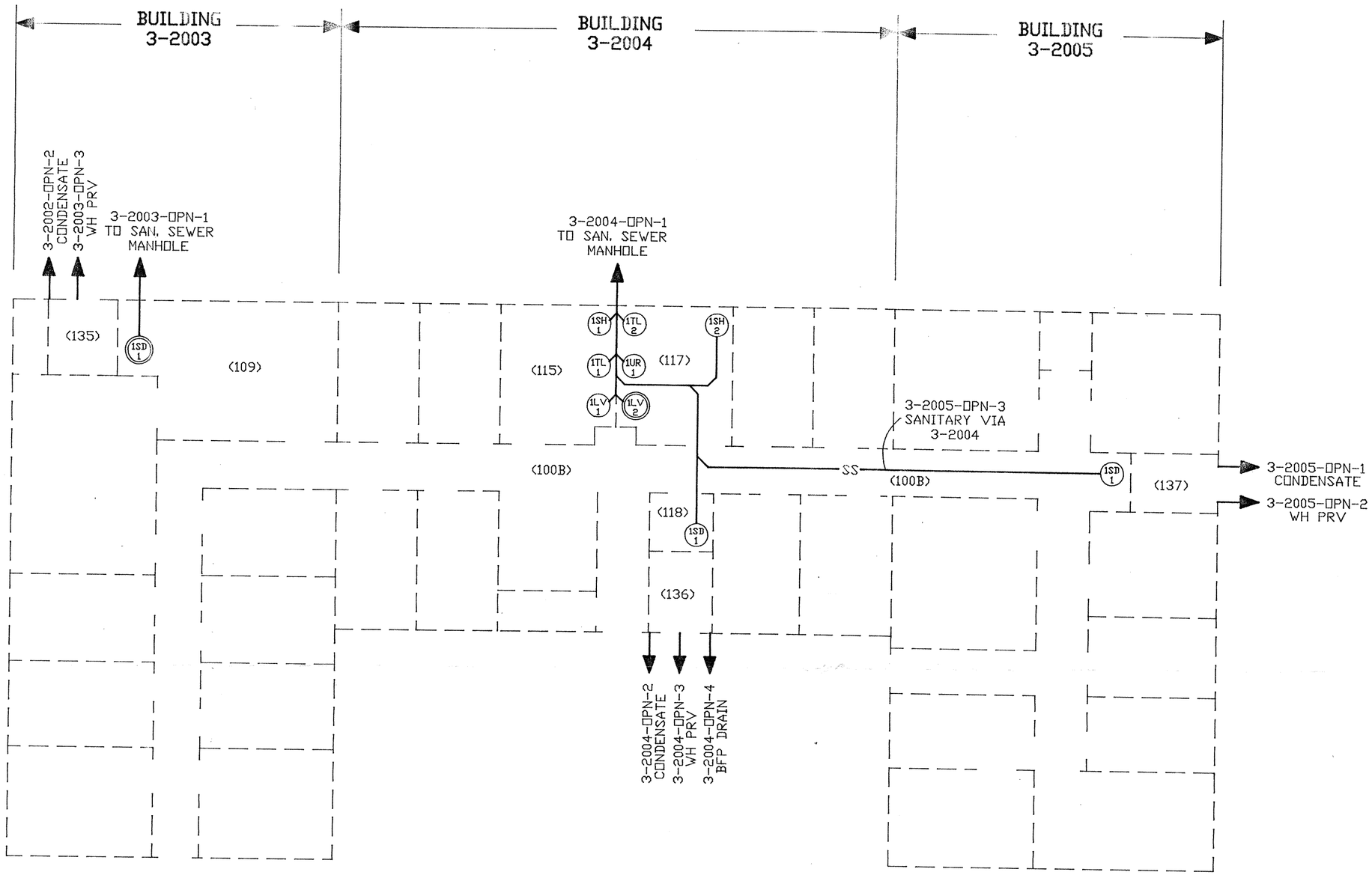
REQUESTING GROUP EM-8




NOTE:

THIS DRAIN SCHEMATIC WAS DERIVED FROM A SITE VISIT.

| SANTA FE ENGINEERING, LTD. | | | |
|---|---|---|---|
| TA3-1898 DRAIN SCHEMATIC | | DRAWN | M.E.W. |
| | | DESIGN | M.E.W. |
| | | CHECKED | P.E.B. |
| | | | |
| | | DATE | 6-26-92 |
| SUBMITTED | RECOMMENDED | APPROVED | |
| Los Alamos | Los Alamos National Laboratory<br>Los Alamos, New Mexico 87545 | SHEET | 1 OF 1 |
| CLASSIFICATION | REVIEWER | DATE | |
| REQUESTING DIVISION | LAB JOB NO. | DRAWING NO. | REV. |
| REQUESTING GROUP EM-8 | 11056-38 | FIGURE 15 | |




| SYMBOL LEGEND | |
|---|---|
| LV | LAVATORY |
| SD | SINK DRAIN |
| SH | SHOWER |
| —SS— | SANITARY SEWER PIPE |
| TL | TOILET |
| UR | URINAL |
| WF | WATER FOUNTAIN |

DYE TESTED DRAIN

NOTE:

THIS DRAIN SCHEMATIC WAS DERIVED FROM L.A.N.L. DRAWINGS C-45723, C-45765 AND SITE VISIT.

SANTA FE ENGINEERING, LTD.

# TA3-2003,2004 AND 2005 DRAIN SCHEMATIC

| | |
|---|---|
| DRAWN | M.E.W. |
| DESIGN | M.E.W. |
| CHECKED | P.E.B. |
| | |
| DATE | 6-26-92 |

SUBMITTED | RECOMMENDED | APPROVED

Los Alamos — Los Alamos National Laboratory, Los Alamos, New Mexico 87545

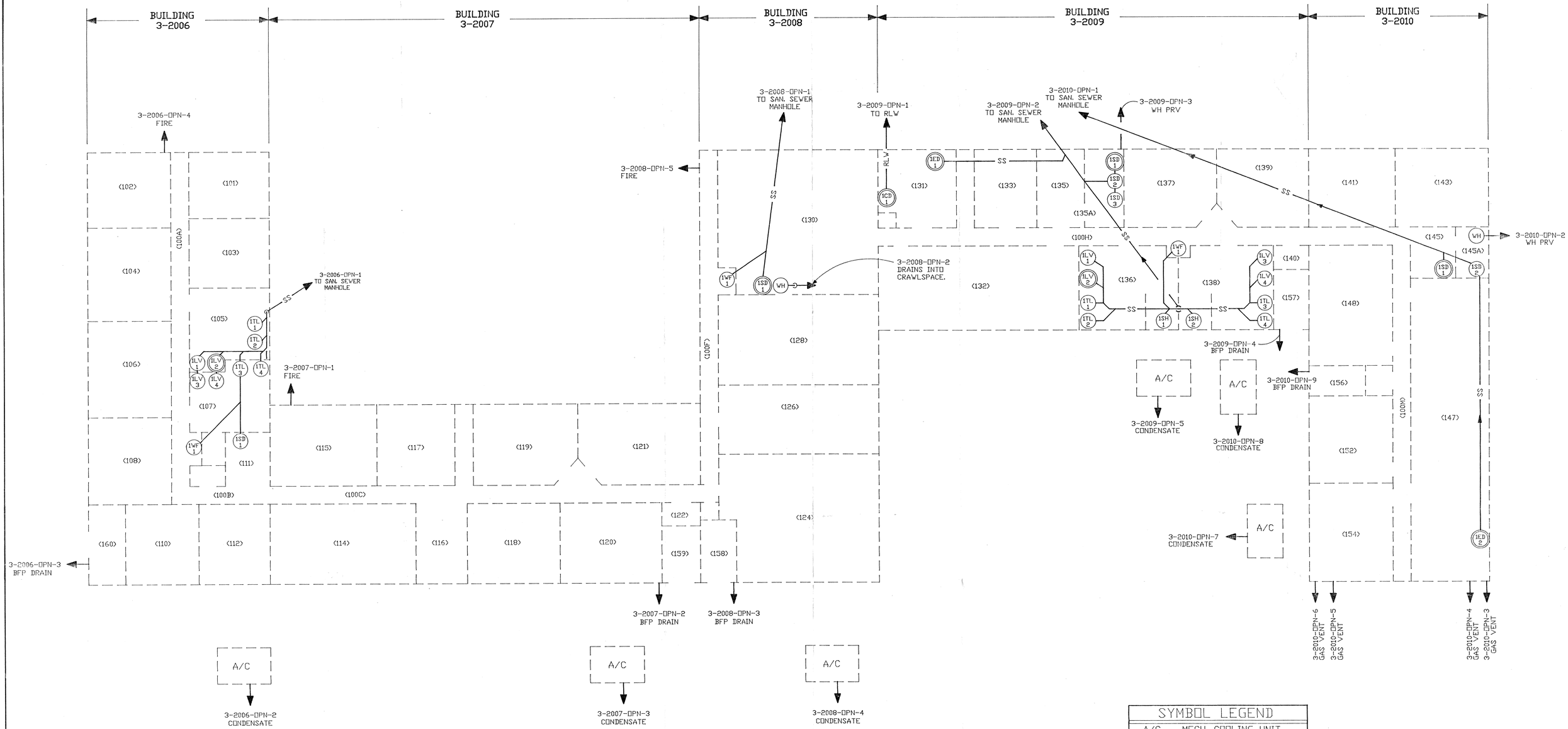
SHEET 1 OF 1

CLASSIFICATION | REVIEWER | DATE

REQUESTING DIVISION | LAB JOB NO. | DRAWING NO. | REV.

REQUESTING GROUP EM-8 | 11056-38 | FIGURE 16

15230-D




| SYMBOL LEGEND | |
|---|---|
| A/C | MECH. COOLING UNIT |
| AW | ACID WASTE PIPE |
| BFP | BACKFLOW PREVENTER |
| CD | CUP DRAIN (FUME HOOD) |
| ED | EYE WASH DRAIN |
| LV | LAVATORY |
| PRV | PRESS. REDUCING VALVE |
| —RLW— | RAD. LIQUID WASTE PIPE |
| SD | SINK DRAIN |
| SH | SHOWER |
| —SS— | SANITARY SEWER PIPE |
| TL | TOILET |
| UR | URINAL |
| WF | WATER FOUNTAIN |
| WH | WATER HEATER |

◯ DYE TESTED DRAIN

NOTE:

THIS DRAIN SCHEMATIC WAS DERIVED FROM L.A.N.L. DRAWINGS C-46724, C-45767, C-45942 AND SITE VISIT.

15230-E

SANTA FE ENGINEERING, LTD.

TA3-2006,2007,2008, 2009 AND 2010 DRAIN SCHEMATIC

| | |
|---|---|
| DRAWN | M.E.W. |
| DESIGN | M.E.W. |
| CHECKED | P.E.B. |
| DATE | 6-26-92 |

SUBMITTED | RECOMMENDED | APPROVED

Los Alamos — Los Alamos National Laboratory, Los Alamos, New Mexico 87545

SHEET 1 OF 1

CLASSIFICATION | REVIEWER | DATE

REQUESTING DIVISION | LAB JOB NO. | DRAWING NO. | REV.

REQUESTING GROUP EM-8 | 11056-38 | FIGURE 17