WASTEWATER STREAM CHARACTERIZATION FOR TA-21-1, 14, 18, 21, 30, 31, 46, 110, 111, 112, 113, 210, 212, 254, 257, 258, 328, 334, 335, 350, 351, 352, 353, 355, 356, 359, 363, 368, 376, 384, 396, 397, 398, 399, 400, 403, 406, 407, 410, 426, 428, 443, 445, 449, 450, 451, 1001, 1002, 1003, 1004, 1005, 1006, 1007, 1008, 3-535, 53-493 AND 60-97

at

Los Alamos National Laboratory

ENVIRONMENTAL STUDY

CHARACTERIZATION REPORT # 79

WASTEWATER STREAM CHARACTERIZATION FOR TA-21-1, 14, 18, 21, 30, 31, 46, 110, 111, 112, 113, 210, 212, 254, 257, 258, 328, 334, 335, 350, 351, 352, 353, 355, 356, 359, 363, 368, 376, 384, 396, 397, 398, 399, 400, 403, 406, 407, 410, 426, 428, 443, 445, 449, 450, 451, 1001, 1002, 1003, 1004, 1005, 1006, 1007 AND 1008

ENVIRONMENTAL STUDY

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

under subcontract 9-XG8-2874P-1

by:
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Updated Per ESH-8 Comments February 1994

EXECUTIVE SUMMARY

Buildings 1, 14, 18, 21, 30, 31, 46, 110, 111, 112, 113, 210, 212, 254, 257, 258, 328, 334, 335, 350, 351, 352, 353, 355, 356, 359, 363, 368, 376, 384, 396, 397, 398, 399, 400, 403, 406, 407, 410, 426, 428, 443, 445, 449, 450, 451, 1001, 1002, 1003, 1004, 1005, 1006, 1007, 1008, 3-535, 53-493 and 60-97 in TA-21 were visited to document all drain piping and building outflows and to make permitting recommendations. The pipes exiting the building are as follows:

1. from building 21-1: one sanitary sewer connection and one abandoned pipe,

2. from building 21-14: one sanitary sewer connection, one abandoned conduit, two roof gutter drains and two steam condensate drains,

3. from buildings 21-18, 212, 328, 334, 335, 352, 355, 384, 397, 399, 400, 403, 410, 428, 449, 450, 451, 1004, 1005, 1006, 1007 and 1008: no water supplies or drains,

4. from building 21-21: one abandoned radioactive liquid waste connection to a holding tank, one sanitary discharge to daylight, three fire line drains and two abandoned pipes,

5. from building 21-30: two sanitary sewer connections, one water heater temperature and pressure relief drain, two fire line drains and two compressed air pump exhaust vents,

6. from building 21-31: one sanitary sewer connection, one sanitary drain to storm sewer, three fire line drains, one air compressor exhaust vent and one steam pipe drain,

7. from building 21-46: one abandoned pipe,

8. from building 21-110: one radioactive liquid waste connection to the TA-50 treatment plant and one radioactive liquid waste overflow drain,

9. from building 21-111: one radioactive liquid waste connection to the TA-50 treatment plant and one radioactive liquid waste overflow drain,

10. from building 21-112: one radioactive liquid waste connection to the TA-50 treatment plant,

11. from building 21-113: one radioactive liquid waste connection to the TA-50 treatment plant,

12. from building 21-210: one sanitary sewer connection, one EPA permitted outfall 03A035, two condensed water drains, six fire line drains, one water heater temperature and pressure relief valve drains and two abandoned conduits,

13. from building 21-254: one sanitary sewer connection,

14. from building 21-257: one sanitary sewer connection, one radioactive liquid waste overflow drain, one radioactive liquid waste connection to the TA-50 treatment plant, one storm water drain, two fire line drains, one radioactive liquid waste storage tank containment drain and one abandoned pipe,

15. from building 21-258: one condensed water drain from HVAC equipment.

16. from building 21-350: one condensed water drain from HVAC equipment,

17. from building 21-351: one condensed water drain from HVAC equipment,

18. from building 21-353: one sanitary sewer connection,

19. from building 21-356: one condensed water drain from HVAC equipment,

20. from building 21-359: one sanitary sewer connection and one condensed water drain from HVAC equipment,

21. from building 21-396: one condensed water drain from HVAC equipment,

22. from building 21-443: one condensed water drain from HVAC equipment,

23. from building 21-445: one plugged sanitary drain,

24. from building 21-1001: two sanitary sewer connections, one sanitary outfall with an unknown destination, two storm water drains, one evaporative cooler water drain, one water heater temperature and pressure relief valve drain, three fire line drains, two condensed water drains from HVAC equipment and two abandoned conduits,

25. from building 21-1002: storm water drains, three fire system drains, one air compressor blowdown and one water heater temperature and pressure relief valve drain,

26. from building 21-1003: one EPA permitted outfall (04A182) from a potable water backflow preventer.

Buildings 21-363 and 21-398 were relocated to other technical areas at the Laboratory.

Building 21-376 was salvaged.

Buildings 21-368, 406, 407 and 426 were not present in this technical area.

Buildings 3-535, 53-493 and 60-97 were located in TA-21 and will require re-numbering.

Building TA-3-374 is located in TA-21 and is currently being used for empty drum storage. Although this building is provided with some secondary containment, it is recommended that hazardous type materials or chemicals never be stored in this building and that the building be re-numbered.

Recommendations for repiping are provided to allow outfall consolidation to minimize permit maintenance requirements and to bring the facility into compliance with the laboratory's 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.

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1.0 INTRODUCTION

During August and September, 1993, Mark Wendt of Santa Fe Engineering (SFE) toured buildings 1, 14, 18, 21, 30, 31, 46, 110, 111, 112, 113, 210, 212, 254, 257, 258, 328, 334, 335, 350, 351, 352, 353, 355, 356, 359, 363, 368, 376, 384, 396, 397, 398, 399, 400, 403, 406, 407, 410, 426, 428, 443, 445, 449, 450, 451, 1001, 1002, 1003, 1004, 1005, 1006, 1007 and 1008 at TA-21. 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 Steam 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 20) 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. The National Pollutant Discharge Elimination System (NPDES) Permit, 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 waste stream 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 27). The final part is a unique number for each drain. For example, the floor drain numbering on the first floor would start with 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 is listed in Appendix 1, Tables 1 through 25, with non-drain recommendations listed in Table 26 and abbreviations listed in Table 27. 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 20. A Site Plan is included in Appendix 5 as Figure 1 illustrating the locations of buildings included in this report.

3.0 RECOMMENDATIONS FOR BUILDING 21-1

Table 1 is a list of the drains to the building outfalls and Figure 2 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.

3.1 Outfall 21-1-OPN-1

This outfall is from floor drains (3), lavatories (2), sink drains (1), toilets (2), urinal (1) and one water fountain. It flows into a sewer manhole which drains to the TA-21 sewage holding tank located in building 21-227 of the former TA-21 Sewage Treatment Plant. From there it is loaded into a vacuum pump truck by Sanitary Waste System Consolidation (SWSC) Plant personnel and transported to the SWSC Plant located at TA-46 for proper treatment. This waste shipment is performed a varying number of times each day. No chemicals are drained into any of the drains or fixtures. No permitting or piping changes are recommended for this outfall and no EPA forms were prepared.

3.2 Outfall 21-1-OPN-2

This outfall is an abandoned pipe to daylight next to the building. It is recommended this pipe be removed and the resulting wall opening sealed shut. No permitting is recommended for this outfall and no EPA forms were prepared.

4.0 RECOMMENDATIONS FOR BUILDING 21-14

Table 2 is a list of the drains to the building outfalls and Figure 3 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.

4.1 Outfall 21-14-OPN-1

This outfall is from floor drains (5), lavatories (4), sink drains (6), toilets (5), urinals (5), trench drains (3) and one water fountain. It flows into a sewer manhole which drains to the TA-21 sewage holding tank located in building 21-227 of the former TA-21 Sewage Treatment Plant. From there it is loaded into a vacuum pump truck by SWSC Plant personnel and transported to the SWSC Plant located at TA-46 for proper treatment. This waste shipment is performed a varying number of times each day. No chemicals are drained into any of the drains or fixtures. It is recommended that the trench drains be plugged. No permitting is recommended for this outfall and no EPA forms were prepared.

4.2 Outfall 21-14-OPN-2

This outfall is an abandoned pipe exiting the building. It is recommended that the pipe be removed and the resulting wall opening be sealed shut. No permitting is recommended for this outfall and no EPA forms were prepared.

4.3 Outfalls 21-14-OPN-3 and 21-14-OPN-4

These outfalls discharge storm water from the roof of the building to daylight next to the building. No permitting or piping changes are required for these outfalls and no EPA forms were prepared.

4.4 Outfalls 21-14-OPN-5 and 21-14-OPN-6

These outfalls are steam condensate drains from a steam pit located to the west of the building which discharge to daylight onto the parking lot. These outfalls should be covered by a Notice Of Intent (NOI) to Discharge. No piping changes are recommended for these outfalls and no EPA forms were prepared.

5.0 RECOMMENDATIONS FOR BUILDINGS 21-18, 212, 328, 334, 335, 352, 355, 384, 397, 399, 400, 403, 410, 428, 449, 450, 451, 1004, 1005, 1006, 1007 AND 1008

These buildings were visited and found to not have any source of water and no drains. No permitting or piping changes are required for these buildings and no EPA forms were prepared.

6.0 RECOMMENDATIONS FOR BUILDING 21-21

Table 3 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 recommendations for changes to the drain piping. This is a vault storage building which is currently not in use but was previously used for the storage of hazardous wastes. The discussion below gives the reasoning for the recommendations.

6.1 Outfall 21-21-OPN-1

This outfall is from nineteen floor drains located in the various vaults in the building and is believed to flow below grade to the abandoned Radioactive Liquid Waste (RLW) storage tank, TA-21-335, located approximately fifty yards north of this building. Possible radioactive contamination

of the drains exists in this building. It is recommended that all of the floor drains in the building and the drain line exiting the building be permanently plugged and the structure be monitored for radioactivity. If the building is ever again used for the storage of hazardous materials, it is recommended that the building structure be modified to a containment building. No permitting is recommended for this outfall and no EPA forms were prepared.

6.2 Outfall 21-21-OPN-2

This outfall is from two floor drains located in the mechanical room and discharges to daylight next to the building. It is recommended this outfall be re-routed to the sanitary sewer system in this area. The mechanical room has an air compressor unit with a tank drain discharging to 1FD20. Containerizing the liquid from this discharge at the unit is recommended. No permitting is recommended for this outfall and no EPA forms have been prepared.

6.3 Outfalls 21-21-OPN-3, 21-21-OPN-4 and 21-21-OPN-6

These outfalls are from fire line drains which discharge to daylight next to the building. These outfalls should be covered by an NOI. No piping changes are recommended for these outfalls and no EPA forms have been prepared.

6.4 Outfall 21-21-OPN-5

This outfall is an abandoned steam vent exiting the building from the mechanical room. It is recommended that this pipe be removed and the resulting wall opening be sealed shut. No permitting is recommended for this outfall and no EPA forms were prepared.

6.5 Outfall 21-21-OPN-7

This outfall is an abandoned pipe to daylight. It is recommended that this pipe be removed and the resulting wall opening be sealed shut. No permitting is recommended for this outfall and no EPA forms were prepared.

7.0 RECOMMENDATIONS FOR BUILDING 21-30

Table 4 is a list of the drains to the building outfall and Figure 5 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.

7.1 Outfalls 21-30-OPN-1 and 21-30-OPN-5

These two outfalls are from one lavatory, one toilet, one water fountain, two floor drains and a sink drain. The wastewater from these fixtures flows into a sewer manhole which drains to the TA-21 sewage holding tank located in building 21-227 of the former TA-21 Sewage Treatment Plant. From there it is loaded into a vacuum pump truck by SWSC Plant personnel and transported to the SWSC Plant located at TA-46 for proper treatment. This waste shipment is performed a varying number of times daily. No chemicals are drained into any of the drains or fixtures. It is recommended that floor drains 1FD1 and 1FD2 be plugged. No permitting is recommended for these outfalls and no EPA forms were prepared.

7.2 Outfall 21-30-OPN-2

This outfall is a water heater pressure relief valve drain which discharges to daylight next to the building. This

outfall should be covered by an NOI. No piping changes are recommended for this outfall and no EPA forms were prepared.

7.3 Outfalls 21-30-OPN-3 and 21-30-OPN-4

These outfalls are fire line drains which discharge to daylight next to the building. These outfalls should be covered by an NOI. No piping changes are recommended for these outfalls and no EPA forms were prepared.

7.4 Outfalls 21-30-OPN-6 and 21-30-OPN-7

These two outfalls are compressed air pump exhaust vents which discharge to the atmosphere next to the building. No permitting or piping changes are recommended for these outfalls and no EPA forms were prepared.

8.0 RECOMMENDATIONS FOR BUILDING 21-31

Table 5 is a list of the drains to the building outfalls 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 discussion below gives the reasoning for the recommendations.

Room 003 contains an air compressor unit with a tank drain discharging onto the floor. It is recommended the liquid from this drain be containerized at the air compressor unit.

There is a designated 90-day hazardous waste satellite storage area located on the concrete dock on the south side of the building which at the time of the site visit contained three drums and has no containment. It is recommended this satellite storage area be provided with

secondary containment and the contents therein be properly labeled for contents and date of storage.

8.1 Outfall 21-31-OPN-1

This outfall is a plugged fire line drain to daylight next to the building. No permitting or piping changes are recommended for this outfall and no EPA forms were prepared.

8.2 Outfall 21-31-OPN-2

This outfall is an air compressor exhaust vent which discharges to the atmosphere next to the building. No permitting or piping changes are recommended for this outfall and no EPA forms have been prepared.

8.3 Outfall 21-31-OPN-3

This outfall is a manually operated steam pipe discharging vapor to daylight next to the building. The valve on this pipe is faulty and is continually discharging steam to the atmosphere next to the building. It is recommended this valve be repaired or replaced. No EPA forms are required for this outfall and none were prepared.

8.4 Outfalls 21-31-OPN-4 and 21-31-OPN-6

These outfalls are fire line drains which discharge to daylight next to the building. These outfalls should be covered by an NOI. No piping changes are recommended for these outfalls and no EPA forms were prepared.

8.5 Outfall 21-31-OPN-5

This outfall is from a floor drain located in the condensate pump room 001. This floor drain flows to a storm sewer

drain located in the north-side parking lot which drains to daylight approximately sixty feet from the building on the north side. This floor drain receives intermittent flow from a condensate pump drain and two steam pipe temperature and pressure relief valves. It is recommended the floor drain be plugged and the condensate drain and the two temperature and pressure relief valve drains be re-routed through the exterior wall and discharged to daylight. The new outfalls should each be covered by an NOI. No EPA forms have been prepared for this outfall.

8.6 Outfall 21-31-OPN-7

This outfall is from one eye wash, one floor sink, lavatories (2), sink drains (3), toilets (2), one urinal and one water fountain. It flows into a sewer manhole which drains to the TA-21 sewage holding tank located in building 21-227 of the former TA-21 Sewage Treatment Plant. From there it is loaded into a vacuum pump truck by SWSC Plant personnel and transported to the SWSC Plant located at TA-46 for proper treatment. This waste shipment is performed a varying number of times daily. No chemicals are drained into any of the drains or fixtures. It is recommended that the fume hood sink 1SD3 located in room 106 be removed and the drain line plugged. Hand wash sink 1SD2 located in room 106 is currently draining directly to the floor of this room. Routing the drain pipe from this sink to floor sink 1FS1 located in the same room is recommended. No permitting is recommended for this outfall and no EPA forms were prepared.

9.0 RECOMMENDATIONS FOR BUILDING 21-46

Table 6 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 one outfall, 21-46-OPN-1, is an abandoned pipe exiting the building to daylight. It is recommended that this pipe be removed and the resulting wall opening be sealed shut. No permitting is required for this outfall and no EPA forms were prepared.

10.0 RECOMMENDATIONS FOR BUILDING 21-110

Table 7 is a list of the drains to the building outfalls and Figure 11 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. This structure is a RLW overflow storage tank with a 15,500-gallon capacity and is used in conjunction with the TA-21 RLW pre-treatment facility as an emergency influent storage tank. It is recommended this structure be provided with adequate secondary containment for the liquid capacity of the tank and a roof overhead to deter storm water from collecting in the containment area.

10.1 Outfall 21-110-OPN-1

This outfall is an RLW overflow drain which flows into the TA-21 RLW pre-treatment facility, is treated, and then pumped to the TA-50 RLW Treatment Facility for final treatment. According to David Salazar of EM-7, this overflow drain is scheduled to be cut and capped in Fiscal Year (FY) 1994. It is recommended the scheduled cutting and capping of this line be performed as planned. No permitting is recommended for this outfall and no EPA forms were prepared.

10.2 Outfall 21-110-OPN-2

This outfall is an RLW drain which flows to the TA-21 pre-treatment facility, is treated, and then pumped to the TA-50 RLW Treatment Plant for further treatment. No permitting or piping changes are recommended for this outfall and no EPA forms were prepared.

11.0 RECOMMENDATIONS FOR BUILDING 21-111

Table 8 is a list of the drains to the building outfalls and Figure 11 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. This structure is a RLW overflow storage tank with a 15,500-gallon capacity and is used in conjunction with the TA-21 RLW pre-treatment facility as an emergency influent storage tank. It is recommended this structure be provided with adequate secondary containment for the liquid capacity of the tank and a roof overhead to deter storm water from collecting in the containment area.

11.1 Outfall 21-111-OPN-1

This outfall is an RLW storage tank overflow drain which flows into the TA-21 RLW pre-treatment facility, is treated, and then pumped to the TA-50 RLW Treatment Facility for final treatment. According to David Salazar of EM-7, this overflow drain is scheduled to be cut and capped in Fiscal Year (FY) 1994. It is recommended the scheduled cutting and capping of this line be performed as planned. No permitting is recommended for this outfall and no EPA forms were prepared.

11.2 Outfall 21-111-OPN-2

This outfall is an RLW drain which flows to the TA-21 pre-treatment facility, is treated, and then pumped to the TA-50 RLW Treatment Plant for further treatment. No permitting or piping changes are recommended for this outfall and no EPA forms were prepared.

12.0 RECOMMENDATIONS FOR BUILDING 21-112

Table 9 is a list of the drains to the building outfalls and Figure 11 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. This structure is a treated RLW temporary storage tank with a 12,500-gallon capacity. The one outfall, 21-112-OPN-1, is a treated RLW drain which discharges into the RLW sump pit next to the tank and is pumped to the TA-50 RLW Treatment Facility. It is recommended this tank be provided with adequate secondary containment for the total liquid capacity of the tank. No permitting or piping changes are recommended for this outfall and no EPA forms were prepared.

13.0 RECOMMENDATIONS FOR BUILDING 21-113

Table 10 is a list of the drains to the building outfalls and Figure 11 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. This structure is a treated RLW temporary storage tank with a 12,500-gallon capacity. The one outfall, 21-113-OPN-1, is a treated RLW drain which discharges into the RLW sump pit next to the tank and is

pumped to the TA-50 RLW Treatment Facility. It is recommended this tank be provided with adequate secondary containment for the total liquid capacity of the tank. No permitting or piping changes are recommended for this outfall and no EPA forms were prepared.

14.0 RECOMMENDATIONS FOR BUILDING 21-210

Table 11 is a list of the drains to the building outfalls and Figures 8 and 9 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 recommendations. At the time of the site visit there was a pallet of cadmium batteries sitting on the paved lot just to the south and east of this building. The batteries are exposed to the elements. It is recommended these batteries be provided with secondary containment and be sheltered from the elements.

14.1 Outfalls 21-210-OPN-1 and 21-210-OPN-4

These outfalls are condensed water drains from mechanical cooling units which drain to daylight next to the building. These outfalls should be covered by an NOI. No permitting or piping changes are recommended for these outfalls and no EPA forms were prepared.

14.2 Outfalls 21-210-OPN-2, 21-210-OPN-7, 21-210-OPN-8, 21-210-OPN-9, 21-210-OPN-12 and 21-210-OPN-13

These outfalls are fire line drains which discharge to daylight next to the building. These outfalls should be covered by an NOI. No piping changes are recommended for these outfalls and no EPA forms were prepared.

14.3 Outfall 21-210-OPN-3

This outfall is from sanitary and other abandoned facilities and flows into a sewer manhole which drains to the TA-21 sewage holding tank located in building 21-227 of the former TA-21 Sewage Treatment Plant. From there it is loaded into a vacuum pump truck by SWSC Plant personnel and transported to the SWSC Plant located at TA-46 for proper treatment. This waste shipment is performed a varying number of times each day. The controlled hot restroom, 127, and the adjacent controlled hot shower room, 122, were previously used exclusively by scientists and technicians who were involved in performing sensitive experiments involving radioactive and hazardous materials in the building. These rooms and their drains are no longer in use and have been deemed "off-limits" to most Laboratory personnel because of possible radioactive contamination. The drains in these two rooms currently flow to the sanitary sewer system for TA-21. It is recommended that all of the lavatories, urinals and toilets in room 127 be removed and their drain lines plugged and floor drains 1FD7, 1FD8 and 1FD9 be plugged. It is also recommended that all of the shower fixtures in room 122 be removed and their associated floor drains, 1FD10 through 1FD15, be plugged. The plugging of cup drain 1CD1 located in storage room 140 is recommended. It is recommended that fume hood sink 1SD2 located in room 134 be removed and the drain line plugged. The two flush valves at urinal 2UR1 and toilet 2TL4, located in restroom 209, have been remaining stuck open after use. This has been occurring on a regular basis for some time. This valve malfunction has been adding an unwarranted flow of wastewater to drain into the sanitary sewage holding tank in building 21-227 of the old TA-21 sewage treatment plant. It is recommended these two flush valves be replaced with new ones as soon as possible. Sink drains 1SD1 and 1SD6 should be labeled "SANITARY WASTE ONLY

- NO CHEMICAL DISPOSAL". No permitting is recommended for this outfall and no EPA forms were prepared.

14.4 Outfall 21-210-OPN-5

This outfall is a heating system pressure reducing valve drain which discharges to daylight next to the building. This outfall should be covered by an NOI. No piping changes are recommended for this outfall and no EPA forms were prepared.

14.5 Outfall 21-210-OPN-6

This outfall receives storm water flow from five roof drains and one area drain, industrial flow from two floor drains, one HVAC air washer and one sump pump in the basement and sanitary flow from one sink drain and discharges into Los Alamos Canyon as EPA Permitted Outfall 03A035. It is recommended that sink drain 1SD3 located in room 100 be removed and the drain line plugged. It is also recommended that the sump pump BSP1, which receives flow from floor drains BFD1 and BFD2, area drain BAD1 and the air washer unit(0.1 gpm), be rerouted to the sanitary sewer. The current outfall which is permitted 03A035 will then be discharging only storm water from the roof of the building. Therefore, the EPA Permit 03A035 can then be deleted. The entryway to the basement has an area drain BAD1 located in the floor which drains to the sump pump. It is recommended that a roof be installed over this entryway to deter storm water from entering the drain. A revised EPA Form 2C has been prepared for this outfall in Appendix 3.

14.6 Outfalls 21-210-OPN-10 and 21-210-OPN-11

These outfalls are abandoned electrical conduits exiting the building to daylight. It is recommended these outfalls be

removed and the resulting wall openings sealed shut. No permitting is recommended for these outfalls and no EPA forms were prepared.

15.0 RECOMMENDATIONS FOR BUILDING 21-254

Table 11 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. This building is a guard house which has one outfall. This one outfall, 21-254-OPN-1, receives sanitary flow from one sink, one toilet and one water fountain and flows into a sewer manhole which drains to the TA-21 sewage holding tank located in building 21-227 of the former TA-21 Sewage Treatment Plant. From there it is loaded into a vacuum pump truck by SWSC Plant personnel and transported to the SWSC Plant located at TA-46 for proper treatment. This waste shipment is performed a varying number of times each day. No chemicals are drained into any of the drains or fixtures. No permitting or piping changes are recommended for this outfall and no EPA forms were prepared.

16.0 RECOMMENDATIONS FOR BUILDING 21-257

Table 13 is a list of the drains to the building outfall and Figure 11 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. This building is the TA-21 Radioactive Liquid Waste Treatment Facility and receives RLW influent from buildings TA-21-4 (north), TA-21-5 (north), TA-21-150 and the RLW pumping building TA-21-223. It's operations are supervised by David Salazar of EM-7. There are a number of 55-gallon drums containing hazardous chemicals used in the

treatment process located in controlled area 115. It is recommended these drums be provided with secondary containment pallets.

16.1 Outfall 21-257-OPN-1

This outfall is from two RLW storage tank overflow drains which, during emergency situations, will drain to the Area T leaching field to the west of the building. Area T is considered a Solid Waste Management Unit (SWMU) according to Laboratory records. This outfall is scheduled to be permanently plugged according to Michael Saladen of EM-8. It is recommended this outfall be plugged as planned and Area T be monitored for radioactive contamination. This outfall should be provided with an NOI until such time that it is plugged. No permitting is recommended for this outfall and no EPA forms were prepared.

16.2 Outfall 21-257-OPN-2

This outfall is from two roof drains on the building and discharges storm water to daylight next to the road on the north side of the building. No permitting or piping changes are recommended for this outfall and no EPA forms were prepared.

16.3 Outfalls 21-257-OPN-3 and 21-257-OPN-5

These outfalls are fire line drains which discharge to daylight next to the building. These outfalls should be covered by an NOI. No piping changes are recommended for these outfalls. No EPA forms have been prepared.

16.4 Outfall 21-257-OPN-4

This outfall receives sanitary flow from one sink, one toilet, one water fountain, one shower, two floor drains, two water heater PRV drains and four water backflow preventer drains and flows into a sewer manhole which drains to the TA-21 sewage holding tank located in building 21-227 of the former TA-21 Sewage Treatment Plant. From there it is loaded into a vacuum pump truck by SWSC Plant personnel and transported to the SWSC Plant located at TA-46 for proper treatment. This waste shipment is performed a varying number of times each day. Mechanical room 109 has two air compressor units with tanks draining to floor drain 1FD2. It is recommended the liquid from these drains be containerized at the air compressor units. No permitting is recommended for this outfall and no EPA forms were prepared.

16.5 Outfall 21-257-OPN-6

This outfall is an abandoned electrical conduit which terminates to daylight next to the building. It is recommended this pipe be removed and the resulting wall opening sealed shut. No permitting is recommended for this outfall and no EPA forms were prepared.

16.6 Outfall 21-257-OPN-7

This outfall receives pre-treated RLW which flows below grade to the RLW pumping station located approximately eighty feet to the northwest of the building. From there it is pumped to the TA-50 Radioactive Liquid Waste Treatment Facility for further treatment and discharged to daylight through EPA permitted outfall 051. The total affluent flow from this outfall to the TA-50 treatment facility during fiscal year 1992 was approximately 1,500,000 gallons according to EM-7 records obtained by David Salazar. This

outfall does not flow directly to daylight and therefore does not require an EPA permit. Area drains 1AD1, 1AD2 are being utilized as secondary containment drains and area drain 1AD4 is located on a concrete pad. All of these drains are exposed to the elements and therefore collect storm water during storm events. The storm water from these drains flows to the RLW influent tanks for treatment. This storm water puts an unnecessary burden on the treatment facility. Therefore, it is recommended that these three area drains (1AD1, 1AD2 and 1AD4) be permenantly plugged. No permitting is recommended for this outfall and no EPA forms were prepared.

16.7 Outfall 21-257-OPN-8

This outfall is from area drain 1AD3 located in the secondary containment structure for the two RLW overflow storage tanks TA-21-110 and TA-21-111, and flows to daylight approximately thirty feet to the west of building TA-21-257. This outfall has the possibility of discharging radioactively contaminated waste water to the ground at the point of termination if one of the storage tanks or associated piping should develop a leak. It is highly recommended that this drain be plugged and the outfall pipe removed. The soil around the point of discharge for this outfall should be sampled for contamination by the user group. An EPA Form 2D has been prepared for this outfall in Appendix 3.

17.0 RECOMMENDATIONS FOR BUILDING 21-258

Table 14 is a list of the drains to the building outfall 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. This one outfall, 21-258-OPN-1, is from the water tower condensed

water vapor drain which discharges to daylight onto the road approximately seventy feet north of the fence surrounding the water tower. This outfall should be covered by an NOI. No piping changes are recommended for this outfall and no EPA forms have been prepared.

18.0 RECOMMENDATIONS FOR BUILDING 21-350

Table 15 is a list of the drains to the building outfall and Figure 2 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. This one outfall, 21-350-OPN-1, is a mechanical cooling unit condensed water drain discharging to daylight next to the building. This outfall should be covered by an NOI. No piping changes are recommended for this outfall and no EPA forms have been prepared.

19.0 RECOMMENDATIONS FOR BUILDING 21-351

Table 16 is a list of the drains to the building outfall and Figure 13 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. This one outfall, 21-351-OPN-1, is a mechanical cooling unit condensed water drain discharging to daylight next to the building. This outfall should be covered by an NOI. No piping changes are recommended for this outfall and no EPA forms have been prepared.

20.0 RECOMMENDATIONS FOR BUILDING 21-353

Table 17 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 piping. This

building is a restroom trailer. The one outfall, 21-353-OPN-1, is from two lavatories, two showers and two toilets. It flows into a sewer manhole which drains to the TA-21 sewage holding tank located in building 21-227 of the former TA-21 Sewage Treatment Plant. From there it is loaded into a vacuum pump truck by SWSC Plant personnel and transported to the SWSC Plant located at TA-46 for proper treatment. This waste shipment is performed a varying number of times each day. No chemicals are drained into any of the drains or fixtures. No permitting or piping changes are recommended for this outfall and no EPA forms were prepared.

21.0 RECOMMENDATIONS FOR BUILDING 21-356

Table 18 is a list of the drains to the building outfall and Figure 2 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. This one outfall, 21-356-OPN-1, is a mechanical cooling unit condensed water drain discharging to daylight next to the building. This outfall should be covered by an NOI. No piping changes are recommended for this outfall and no EPA forms have been prepared.

22.0 RECOMMENDATIONS FOR BUILDING 21-359

Table 19 is a list of the drains to the building outfall and Figure 5 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. No chemicals are drained into any of the drains or fixtures. The discussion below gives the reasoning for the recommendations.

22.1 Outfall 21-359-OPN-1

This outfall is from a sink drain which flows to a sanitary sewer manhole which drains to the TA-21 sewage holding tank located in building 21-227 of the former TA-21 Sewage Treatment Plant. From there it is loaded into a vacuum pump truck by SWSC Plant personnel and transported to the SWSC Plant located at TA-46 for proper treatment. This waste shipment is performed a varying number of times each day. No chemicals are drained into any of the drains or fixtures. No permitting or piping changes are recommended for this outfall and no EPA forms were prepared.

22.2 Outfall 21-359-OPN-2

This outfall is a mechanical cooling unit condensed water drain discharging to daylight next to the building. This outfall should be covered by an NOI. No piping changes are recommended for this outfall and no EPA forms have been prepared.

23.0 RECOMMENDATIONS FOR BUILDING 21-363

This office trailer has been relocated to TA-51 and re-numbered TA-51-98. This was discovered following a telephone conversation with Betty Lea of ENG-7 who has records of the locations of all LANL buildings and structures. This office trailer is addressed in Waste Stream Characterization Report Number 73.

24.0 RECOMMENDATIONS FOR BUILDING 21-368

This building is an ice sample freezer which has been removed from the LANL Complex to an unknown location. This was discovered following a telephone conversation with Betty

Lea of ENG-7 who has records of the locations of all LANL buildings and structures.

25.0 RECOMMENDATIONS FOR BUILDING 21-376

This building is an office trailer which was salvaged on April 23, 1993 and is no longer at TA-21.

26.0 RECOMMENDATIONS FOR BUILDING 21-396

Table 20 is a list of the drains to the building outfall and Figure 15 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. This building is a transportainer located to the south and west of building TA-21-210 and is used as a hydraulics building. The one outfall is a condensed water drain from a wall-mounted cooling unit on the building and drains to daylight next to the building. This unit has a leak in the coil which is draining to daylight. It is recommended this leak be repaired. This outfall should be covered by an NOI. There was a considerable amount of hydraulic fluid discovered on the ground below the structure. It is recommended the responsible user group locate the source of the leak inside the transportainer and repair it. It is also recommended that secondary containment be provided for this transportainer. No EPA forms were prepared.

27.0 RECOMMENDATIONS FOR BUILDINGS 21-398

This transportainer has been relocated to TA-3 and re-numbered TA-3-549. This was discovered following a telephone conversation with Betty Lea of ENG-7 who has records of the locations of all LANL buildings and structures.

28.0 RECOMMENDATIONS FOR BUILDINGS 21-406 AND 426

These two transportainers are not present at TA-21. Both were canceled prior to actually getting to the site. This was discovered following a telephone conversation with Betty Lea of ENG-7 who has records of the locations of all LANL buildings and structures.

29.0 RECOMMENDATIONS FOR BUILDING 21-407

This building was not located. Betty Lea of ENG-7 indicated that this building (shed) would be located at the north and east side of the water tower TA-21-258. Upon further site investigation at TA-21, it was found that the building was not at the designated location nor could it be located at any other area at the TA-21 site.

30.0 RECOMMENDATIONS FOR BUILDING 21-443

Table 21 is a list of the drains to the building outfall 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. This one outfall, 21-443-OPN-1, is a mechanical cooling unit condensed water drain discharging to daylight next to the building. This outfall should be covered by an NOI. No piping changes are recommended for this outfall and no EPA forms have been prepared.

31.0 RECOMMENDATIONS FOR BUILDING 21-445

Table 22 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. This building is a portable bathroom trailer which is currently

not in use and is not connected to the sanitary sewer system nor does it have running water. The one outfall, 21-445-OPN-1, is from sanitary facilities and is capped below the trailer. No chemicals are drained into any of the drains or fixtures. No permitting or piping changes are recommended for this outfall and no EPA forms were prepared.

32.0 RECOMMENDATIONS FOR BUILDING 21-1001

Table 23 is a list of the drains to the building outfall and Figure 18 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. No chemicals are drained into any of the drains or fixtures. The discussion below gives the reasoning for the recommendations.

32.1 Outfall 21-1001-OPN-1

This outfall is from one lavatory, one toilet and one water fountain and flows below grade to an unknown destination. Dye testing was performed on these drains but no traces were found at either the sanitary sewer main to the north or the sewer main to the south and east. It is recommended these drains be further investigated by the user group so as to determine their destination. The lavatory, toilet and water fountain should not be used until further investigation is completed. No EPA forms were prepared.

32.2 Outfalls 21-1001-OPN-2 and 21-1001-OPN-6

These outfalls receive storm water flow from the roof and drain to daylight next to the building. No permitting or piping changes are recommended for these outfalls and no EPA forms were prepared.

32.3 Outfall 21-1001-OPN-3

This outfall is a water drain from an evaporative cooler which discharges to daylight next to the building. This outfall should be covered by an NOI. No piping changes are recommended for this outfall and no EPA forms were prepared.

32.4 Outfall 21-1001-OPN-4

This outfall is from lavatories (2), one sink drain, toilets (2) and one urinal. It flows to a sewer manhole which drains to the Los Alamos County Municipal Sewage Treatment Plant. No chemicals are drained down any of the drains or fixtures. No permitting or piping changes are recommended for this outfall and no EPA forms were prepared.

32.5 Outfall 21-1001-OPN-5

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

32.6 Outfall 21-1001-OPN-7

This outfall is from a sanitary sink drain and flows to a sewer manhole which drains to the Los Alamos County Municipal Sewage Treatment Plant. No chemicals are drained down any of the drains or fixtures. No permitting or piping changes are recommended for this outfall and no EPA forms were prepared.

32.7 Outfalls 21-1001-OPN-9 and 21-1001-OPN-11

These outfalls drain condensed water from mechanical cooling units to daylight next to the building. These outfalls

should be covered by an NOI. No piping changes are recommended for these outfalls and no EPA forms were prepared.

32.8 Outfalls 21-1001-OPN-8, 21-1001-OPN-13 and 21-1001-OPN-14

These outfalls are fire line drains which discharge to daylight next to the building. These outfalls should be covered by an NOI. No piping changes are recommended for these outfalls and no EPA forms were prepared.

32.9 Outfalls 21-1001-OPN-10 and 21-1001-OPN-12

These outfalls are abandoned electrical conduit pipes exiting the building. It is recommended these outfalls be removed and the resulting wall openings sealed shut. No permitting is required for these outfalls and no EPA forms were prepared.

33.0 RECOMMENDATIONS FOR BUILDING 21-1002

Table 24 is a list of the drains to the building outfall and Figure 19 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. No chemicals are drained into any of the drains or fixtures. The discussion below gives the reasoning for the recommendations.

33.1 Outfall 21-1002-OPN-1

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

33.2 Outfalls 21-1002-OPN-2 and 21-1002-OPN-9

These outfalls receive storm water flow from the roof and drain to daylight next to the building. No permitting or piping changes are recommended for these outfalls and no EPA forms were prepared.

33.3 Outfalls 21-1002-OPN-3 and 21-1002-OPN-10

This outfall is from sanitary facilities and flows to a sewer manhole which drains to the Los Alamos County Municipal Sewage Treatment Plant. No chemicals are drained down any of the drains or fixtures. No permitting or piping changes are recommended for this outfall and no EPA forms were prepared.

33.4 Outfalls 21-1002-OPN-4, 21-1002-OPN-5 and 21-1002-OPN-6

These outfalls are fire line drains which discharge to daylight next to the building. These outfalls should be covered by an NOI. No piping changes are recommended for these outfalls and no EPA forms were prepared.

33.5 Outfall 21-1002-OPN-7

This outfall is an air compressor drain which discharges to daylight next to the building. It is recommended this liquid from this drain be containerized at the air compressor unit. No permitting is recommended for this outfall and no EPA forms were prepared.

33.6 Outfall 21-1002-OPN-8

This outfall is from an emergency eye wash unit, 1EW1, located in room 103 and drains directly to the floor of the room. It is recommended this drain be containerized at the

eye wash unit. No permitting is recommended for this outfall and no EPA forms have been prepared.

34.0 RECOMMENDATIONS FOR BUILDING 21-1003

Table 25 is a list of the drains to the building outfall and Figure 20 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, 21-1003-OPN-1, is a water drain from the Omega Site (TA-2) backflow preventer. This outfall discharges to the rim of Los Alamos Canyon as EPA permitted outfall 04A-182. It is recommended that this outfall be piped to the sanitary sewer system or provided with an NOI. The EPA Permit 04A-182 should then be deleted. A revised EPA Form 2C is enclosed in Appendix 3.

35.0 RECOMMENDATIONS FOR STRUCTURES 3-535, 53-493 AND 60-97

These three structures are semi-trailers used for storage and are located just to the south of building 21-14. None of the buildings have any drains or any sources of water. It is recommended these semi-trailers be re-numbered and logged into the building list for TA-21. No permitting or piping changes are recommended for these structures and no EPA forms were prepared.

36.0 CONCLUSION

This document provides the information to characterize buildings 1, 14, 18, 21, 30, 31, 46, 110, 111, 112, 113, 210, 212, 254, 257, 258, 328, 334, 335, 350, 351, 352, 353, 355, 356, 359, 363, 368, 376, 384, 396, 397, 398, 399, 400, 403, 406, 407, 410, 426, 428, 443, 445, 449, 450, 451, 1001, 1002, 1003, 1004, 1005, 1006, 1007, 1008, 3-535, 53-493 and 60-97 at TA-21.

Form 2C:

1. 21-210-OPN-6 (03A035) 2. 21-1003-OPN-1 (04A182)

Form 2D:

1. 21-257-OPN-8

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

Discharges to the SWSC Plant:

1. 21-1-OPN-1 2. 21-14-OPN-1 3. 21-30-OPN-1
4. 21-30-OPN-5 5. 21-31-OPN-7 6. 21-210-OPN-3
7. 21-254-OPN-1 8. 21-257-OPN-4 9. 21-353-OPN-1
10. 21-359-OPN-1

Discharges to the Los Alamos County Sewage Treatment Plant:

1. 21-1001-OPN-4 2. 21-1001-OPN-7 3. 21-1002-OPN-3
4. 21-1002-OPN-10

Discharges to the TA-50 RLW Treatment Plant:

1. 21-21-OPN-1 2. 21-110-OPN-1 3. 21-110-OPN-2
4. 21-111-OPN-1 5. 21-111-OPN-2 6. 21-112-OPN-1
7. 21-113-OPN-1 8. 21-257-OPN-1 9. 21-257-OPN-7

Discharges of sanitary sewer to unknown destination:

1. 21-1001-OPN-1

Sanitary sewer outfalls which are temporarily plugged:

1. 21-445-OPN-1

Discharges of sanitary sewer to daylight:

1. 21-21-OPN-2

Discharge from the fire system:

1. 21-21-OPN-3	2. 21-21-OPN-4	3. 21-21-OPN-6
4. 21-30-OPN-3	5. 21-30-OPN-4	6. 21-31-OPN-1
7. 21-31-OPN-4	8. 21-31-OPN-6	9. 21-210-OPN-2
10. 21-210-OPN-7	11. 21-210-OPN-8	12. 21-210-OPN-9
13. 21-210-OPN-12	14. 21-210-OPN-13	15. 21-257-OPN-3
16. 21-257-OPN-5	17. 21-1001-OPN-8	18. 21-1001-OPN-13
19. 21-1001-OPN-14	20. 21-1002-OPN-4	21. 21-1002-OPN-5
22. 21-1002-OPN-6		

Discharges of condensed water:

1. 21-14-OPN-5	2. 21-14-OPN-6	3. 21-210-OPN-1
4. 21-210-OPN-4	5. 21-258-OPN-1	6. 21-350-OPN-1
7. 21-351-OPN-1	8. 21-356-OPN-1	9. 21-359-OPN-2
10. 21-396-OPN-1	11. 21-443-OPN-9	12. 21-1001-OPN-9
13. 21-1001-OPN-11		

Discharges of storm water:

1. 21-14-OPN-3	2. 21-14-OPN-4	3. 21-257-OPN-2
4. 21-1001-OPN-2	5. 21-1001-OPN-6	6. 21-1002-OPN-2
7. 21-1002-OPN-9		

Discharges from water heater pressure relief valves:

1. 21-30-OPN-2	2. 21-210-OPN-5	3. 21-1001-OPN-5
4. 21-1002-OPN-1		

Discharges of water from evaporative coolers:

1. 21-1001-OPN-3

Discharges from air compressor exhaust vents:

1. 21-30-OPN-6	2. 21-30-OPN-7	3. 21-31-OPN-2

Abandoned outfalls:

1. 21-1-OPN-2	2. 21-14-OPN-2	3. 21-21-OPN-1
4. 21-21-OPN-7	5. 21-46-OPN-1	6. 21-210-OPN-10
7. 21-210-OPN-11	8. 21-257-OPN-6	9. 21-1001-OPN-10
10. 21-1001-OPN-12		

Miscellaneous discharges:

1. 21-31-OPN-3 2. 21-31-OPN-5 3. 21-1002-OPN-7
4. 21-1002-OPN-8

Buildings with no drains:

1. 21-18	2. 21-111	3. 21-212	4. 21-328
5. 21-334	6. 21-335	7. 21-352	8. 21-355
9. 21-384	10. 21-397	11. 21-399	12. 21-400
13. 21-403	14. 21-407	15. 21-410	16. 21-428
17. 21-449	18. 21-450	19. 21-451	20. 21-1004
21. 21-1005	22. 21-1006	23. 21-1007	24. 21-1008
25. 21-535	26. 53-493	27. 60-97	

Buildings which have been relocated outside of TA-21:

1. 21-363	2. 21-368	3. 21-376	4. 21-398
5. 21-406	6. 21-426		

Recommended corrective actions are outlined in Tables 1 through 25 and Table 26 as well as in the above text. Corrective action should be performed as soon as practical to minimize the chance of unpermitted discharge of pollutants.

TABLE 1: TA 21-1 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
21-1-OPN-1 SANITARY	1FD1	RESTROOM	105	NO CHANGE	NO
	1FD2	RESTROOM	101	NO CHANGE	
	1FD3	JANITOR'S CLOSET	103	NO CHANGE	
	1LV1	RESTROOM	105	NO CHANGE	
	1LV2	RESTROOM	101	NO CHANGE	
	1SD1	JANITOR'S CLOSET	103	NO CHANGE	
	1TL1	RESTROOM	105	NO CHANGE	
	1TL2	RESTROOM	101	NO CHANGE	
	1UR1	RESTROOM	105	NO CHANGE	
	1WF1	CORRIDOR	100A	NO CHANGE	
21-1-OPN-2	N/A	OFFICE	111	ELIMINATE	NO

TABLE 2: TA 21-14 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
21-14-OPN-1 SANITARY	1FD1	OFFICE	102	PLUGGED	NO
	1FD2	BREAK ROOM	100	NO CHANGE	
	1FD3	BREAK ROOM	100	NO CHANGE	
	1FD4	METAL SHOP	101	PLUGGED	
	1FD5	RESTROOM	105	NO CHANGE	
	1LV1	RESTROOM	106	NO CHANGE	
	1LV2	RESTROOM	106	NO CHANGE	
	1LV3	RESTROOM	106	NO CHANGE	
	1LV4	RESTROOM	105	NO CHANGE	
	1SD1	BREAK ROOM	100	NO CHANGE	
	1SD2	RESTROOM	105	NO CHANGE	
	1TD1	OFFICE	107	PLUG	
	1TD2	OFFICE	107	PLUG	
	1TD3	OFFICE	104	PLUG	
	1TD4	BREAK ROOM	100	NO CHANGE	
	1TD5	BREAK ROOM	100	NO CHANGE	
	1TD6	METAL SHOP	101	NO CHANGE	
	1TL1	RESTROOM	106	NO CHANGE	
	1TL2	RESTROOM	106	NO CHANGE	
	1TL3	RESTROOM	106	NO CHANGE	
	1TL4	RESTROOM	106	NO CHANGE	
	1TL5	RESTROOM	105	NO CHANGE	

TABLE 2: TA 21-14 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
21-14-OPN-1 CONTINUED SANITARY	1UR1	RESTROOM	106	NO CHANGE	NO
	1UR3	RESTROOM	106	NO CHANGE	
	1UR4	RESTROOM	106	NO CHANGE	
	1UR5	RESTROOM	106	NO CHANGE	
	1WF1	BREAK ROOM	100	NO CHANGE	
21-14-OPN-2	N/A	METAL SHOP	101	ELIMINATE	NO
21-14-OPN-3	N/A	ROOF	EXTER.	NO CHANGE	NO
21-14-OPN-4	N/A	ROOF	EXTER.	NO CHANGE	NO
21-14-OPN-5	N/A	STEAM CONDENSATE	EXTER.	NOI	NO
21-14-OPN-6	N/A	STEAM CONDENSATE	EXTER.	NOI	NO

TABLE 3: TA 21-21 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
21-21-OPN-1 RLW	1FD1	VAULT	1A	PLUG	NO
	1FD2	VAULT	1A	PLUG	
	1FD3	VAULT	1	PLUGGED	
	1FD4	VAULT	1	PLUGGED	
	1FD5	VAULT	3	PLUG	
	1FD6	VAULT	2	PLUG	
	1FD7	VAULT	002	PLUGGED	
	1FD8	VAULT	002	PLUG	
	1FD9	VAULT	4	PLUG	
	1FD10	VAULT	4	PLUG	
	1FD11	VAULT	5	PLUG	
	1FD12	VAULT	8	PLUG	
	1FD13	VAULT	7	PLUG	
	1FD14	VAULT	6	PLUG	
	1FD15	VAULT	003	PLUG	
	1FD16	VAULT	003	PLUG	
	1FD17	VAULT	9	PLUG	
	1FD18	VAULT	10	PLUG	
	1FD19	VAULT	11	PLUG	
21-21-OPN-2 SANITARY TO DAYLIGHT	1FD20	MECHANICAL ROOM	004	ROUTE TO S.S./ CONTAIN	NO
	1FD21	MECHANICAL ROOM	004	ROUTE TO S.S.	
21-21-OPN-3	N/A	FIRE LINE DRAIN	004	NOI	NO
21-21-OPN-4	N/A	FIRE LINE DRAIN	004	NOI	NO

TABLE 3: TA 21-21 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
21-21-OPN-5	N/A	ABAND. STEAM VENT	004	ELIMINATE	NO
21-21-OPN-6	N/A	FIRE LINE DRAIN	1A	NOI	NO
21-21-OPN-7	N/A	ABANDONED PIPE	001	ELIMINATE	NO

TABLE 4: TA 21-30 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
21-30-OPN-1 SANITARY	1LV1	RESTROOM	100A	NO CHANGE	NO
	1TL1	RESTROOM	100A	NO CHANGE	
	1WF1	LABORATORY	100	NO CHANGE	
21-30-OPN-2	1WH1	WATER HTR DRAIN	100A	NOI	NO
21-30-OPN-3	N/A	FIRE LINE DRAIN	100	NOI	NO
21-30-OPN-4	N/A	FIRE LINE DRAIN	100	NOI	NO
21-30-OPN-5 SANITARY	1FD1	LABORATORY	101	PLUG	NO
	1FD2	LABORATORY	101	PLUG	
	1SD1	LABORATORY	101	NO CHANGE	
21-30-OPN-6	N/A	COMP. AIR PUMP EXH.	N/A	NO CHANGE	NO
21-30-OPN-7	N/A	COMP. AIR PUMP EXH.	N/A	NO CHANGE	NO

TABLE 5: TA 21-31 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
21-31-OPN-1	N/A	FIRE LINE DRAIN	002	PLUGGED	NO
21-31-OPN-2	N/A	AIR COMPRES. EXH.	003	CONTAINERIZE	NO
21-31-OPN-3	N/A	STEAM PIPE DRAIN	003	MODIFY	NO
21-31-OPN-4	N/A	FIRE LINE DRAIN	001	NOI	NO
21-31-OPN-5	BFD1	CONDENS. PUMP RM.	001	PLUG	NO
21-31-OPN-6	N/A	FIRE LINE DRAIN	004	NOI	NO
21-31-OPN-7 SANITARY	1EW1	PARTS STORAGE	106	NO CHANGE	NO
	1FS1	PARTS STORAGE	106	NO CHANGE	
	1LV1	RESTROOM	103A	NO CHANGE	
	1LV2	RESTROOM	104	NO CHANGE	
	1SD1	PARTS STORGAE	106	NO CHANGE	
	1SD2	PARTS STORAGE	106	PIPE TO S.S.	
	1SD3	PARTS STORAGE	106	ELIMINATE	

TABLE 5: TA 21-31 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
21-31-OPN-7 CONTINUED SANITARY	1TL1	RESTROOM	103A	NO CHANGE	NO
	1TL2	RESTROOM	104	NO CHANGE	
	1UR1	RESTROOM	104	NO CHANGE	
	1WF1	PARTS STORAGE	106	NO CHANGE	

TABLE 6: TA 21-46 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
21-46-OPN-1	N/A	ABANDONED PIPE	N/A	ELIMINATE	NO

TABLE 7: TA 21-110 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
21-110-OPN-1	N/A	RLW TANK OVRFLOW	EXTER.	PLUG/ELIMIN.	NO
21-110-OPN-2 RLW (051)	N/A	RLW STOR. TANK	EXTER.	NO CHANGE	YES

TABLE 8: TA 21-111 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
21-111-OPN-1	N/A	RLW TANK OVRFLOW	N/A	PLUG/ELIMIN.	NO
21-111-OPN-2 RLW (051)	N/A	RLW STOR. TANK	N/A	NO CHANGE	YES

TABLE 9: TA 21-112 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
21-112-OPN-1 RLW (051)	N/A	RLW STOR. TANK OVERFLOW	N/A	SECON. CONTAIN.	YES

TABLE 10: TA 21-113 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
21-113-OPN-1 RLW (051)	N/A	RLW STOR. TANK OVERFLOW	N/A	SECON. CONTAIN.	YES

TABLE 11: TA 21-210 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
21-210-OPN-1	N/A	CONDENSED WATER	EXTER.	NOI	NO
21-210-OPN-2	N/A	FIRE LINE DRAIN	B1	NOI	NO
21-210-OPN-3 SANITARY	1CD1	STORAGE ROOM	140	PLUG	NO
	1FD7	LABORATORY	134	PLUG	
	1FD8	CONTROL. RSTRM.	127	PLUG	
	1FD9	CONTROL. RSTRM.	127	PLUG	
	1FD10	CONTROL. SHWR. RM.	122	PLUG	
	1FD11	CONTROL. SHWR. RM.	122	PLUG	
	1FD12	CONTROL. SHWR. RM.	122	PLUG	
	1FD13	CONTROL. SHWR. RM.	122	PLUG	
	1FD14	CONTROL. SHWR. RM.	122	PLUG	
	1FD15	CONTROL. SHWR. RM.	122	PLUG	
	1FS1	LABORATORY	134	PLUGGED	
	1FS2	LABORATORY	134	PLUGGED	
	1FS3	LABORATORY	134	PLUGGED	
	1FS4	LABORATORY	134	PLUGGED	
	1LV1	LABORATORY	134	NO CHANGE	
	1LV2	RESTROOM	102	NO CHANGE	
	1LV3	RESTROOM	104	NO CHANGE	
	1LV4	CONTROL. RSTRM.	127	REMOVE/PLUG	
	1LV5	CONTROL. RSTRM.	127	REMOVE/PLUG	

TABLE 11: TA 21-210 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
21-210-OPN-3 CONTINUED SANITARY	1LV6	CONTROL. RSTRM.	127	REMOVE/PLUG	NO
	1LV7	CONTROL. RSTRM.	127	REMOVE/PLUG	
	1LV8	CONTROL. RSTRM.	127	REMOVE/PLUG	
	1LV9	CONTROL. RSTRM.	127	REMOVE/PLUG	
	1LV10	CONTROL. RSTRM.	127	REMOVE/PLUG	
	1SD1	STORAGE ROOM	140	LABEL	
	1SD2	LABORATORY	134	REMOVE/PLUG	
	1SD4	JANITOR'S CLOSET	128A	NO CHANGE	
	1SD5	JANITOR'S CLOSET	121	NO CHANGE	
	1SD6	LABORATORY	120	LABEL	
	1TL1	RESTROOM	102	NO CHANGE	
	1TL2	RESTROOM	104	NO CHANGE	
	1TL3	CONTROL. RSTRM.	127	REMOVE/PLUG	
	1TL4	CONTROL. RSTRM.	127	REMOVE/PLUG	
	1TL5	CONTROL. RSTRM.	127	REMOVE/PLUG	
	1TL6	CONTROL. RSTRM.	127	REMOVE/PLUG	
	1UR1	CONTROL. RSTRM.	127	REMOVE/PLUG	
	1UR2	CONTROL. RSTRM.	127	REMOVE/PLUG	
	1UR3	CONTROL. RSTRM.	127	REMOVE/PLUG	
	1UR4	CONTROL. RSTRM.	127	REMOVE/PLUG	
	1UR5	CONTROL. RSTRM.	127	REMOVE/PLUG	
	1UR6	CONTROL. RSTRM.	127	REMOVE/PLUG	
	1WF1	STORAGE ROOM	140	NO CHANGE	
	1WF2	LABORATORY	131	NO CHANGE	
	1WF3	CORRIDOR	N/A	NO CHANGE	
	2FD1	RESTROOM	241	NO CHANGE	
	2FD2	RESTROOM	209	NO CHANGE	
	2LV1	RESTROOM	241	NO CHANGE	
	2LV2	RESTROOM	241	NO CHANGE	
	2LV3	RESTROOM	209	NO CHANGE	
	2LV4	RESTROOM	209	NO CHANGE	
	2LV5	RESTROOM	209	NO CHANGE	
	2SD1	JANITOR'S CLOSET	211	NO CHANGE	
	2TL1	RESTROOM	241	NO CHANGE	
	2TL2	RESTROOM	241	NO CHANGE	
	2TL3	RESTROOM	209	NO CHANGE	
	2TL4	RESTROOM	209	MODIFY	
	2UR1	RESTROOM	209	MODIFY	
	2UR2	RESTROOM	209	NO CHANGE	
	2WF1	CORRIDOR	200	NO CHANGE	

TABLE 11: TA 21-210 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
21-210-OPN-3 CONTINUED	2WF2	CORRIDOR	200	NO CHANGE	NO
21-210-OPN-4	N/A	CONDENSED WATER	128B	NOI	NO
21-210-OPN-5	N/A	WATER HTR. DRAIN	128B	NOI	NO
21-210-OPN-6 03A035	BAD1	BASEMENT ENTRY	EXTER.	ROUTE TO S.S.	YES
	BFD1	BASEMENT	N/A	ROUTE TO S.S.	
	BFD2	BASEMENT	N/A	ROUTE TO S.S.	
	BSP1	BASEMENT	N/A	ROUTE TO S.S.	
	1FD1	STORAGE ROOM	140	PLUGGED	
	1FD2	STORAGE ROOM	140	PLUGGED	
	1FD3	STORAGE ROOM	140	PLUGGED	
	1FD4	STORAGE ROOM	140	PLUGGED	
	1FD5	UTILITY ROOM	100	PLUGGED	
	1FD6	UTILITY ROOM	100	PLUGGED	
	1SD3	UTILITY ROOM	100	REMOVE/PLUG	
	RD1	ROOF	N/A	NO CHANGE	
	RD2	ROOF	N/A	NO CHANGE	
	RD3	ROOF	N/A	NO CHANGE	
	RD4	ROOF	N/A	NO CHANGE	
	RD5	ROOF	N/A	NO CHANGE	
21-210-OPN-7	N/A	FIRE LINE DRAIN	120	NOI	NO
21-210-OPN-8	N/A	FIRE LINE DRAIN	120	NOI	NO
21-210-OPN-9	N/A	FIRE LINE DRAIN	120	NOI	NO
21-210-OPN-10	N/A	ABANDONED CONDUIT	142	ELIMINATE	NO
21-210-OPN-11	N/A	ABANDONED CONDUIT	142	ELIMINATE	NO
21-210-OPN-12	N/A	FIRE LINE DRAIN	142	NOI	NO
21-210-OPN-13	N/A	FIRE LINE DRAIN	200	NOI	NO

TABLE 12: TA 21-254 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
21-254-OPN-1 SANITARY 13S	1SD1	GUARD ROOM	100	NO CHANGE	NO
	1TL1	RESTROOM	101	NO CHANGE	
	1WF1	GUARD ROOM	100	NO CHANGE	

TABLE 13: TA 21-257 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
21-257-OPN-1 RLW	N/A	RLW STORAGE TANKS OVERFLOW	N/A	PLUG/ELIMIN.	NO
21-257-OPN-2 STORM WTR.	RD1	ROOF	N/A	NO CHANGE	NO
	RD2	ROOF	N/A	NO CHANGE	
21-257-OPN-3	N/A	FIRE LINE DRAIN	107	NOI	NO
21-257-OPN-4 SANITARY	1BFP1	BREAK ROOM	110	NO CHANGE	NO
	1BFP2	MECHANICAL ROOM	109	NO CHANGE	
	1BFP3	MECHANICAL ROOM	109	NO CHANGE	
	1BFP4	MECHANICAL ROOM	109	NO CHANGE	
	1FD1	BATHROOM	111	NO CHANGE	
	1FD2	MECHANICAL ROOM	109	CONTAINERIZE	
	1LV1	BATHROOM	111	NO CHANGE	
	1SD1	BREAK ROOM	110	NO CHANGE	
	1SH1	BATHROOM	111	NO CHANGE	
	1TL1	BATHROOM	111	NO CHANGE	
	1WF1	BREAK ROOM	110	NO CHANGE	
	1WH1	MECHANICAL ROOM	109	NO CHANGE	
	1WH2	MECHANICAL ROOM	109	NO CHANGE	
21-257-OPN-5	N/A	FIRE LINE DRAIN	114	NOI	NO
21-257-OPN-6	N/A	ABANDONED PIPE	115	ELIMINATE	NO
21-257-OPN-7 RLW TO TA-50 051	1AD1	CONTAINMENT DRAIN	EXTER.	PLUG	NO
	1AD2	CONTAINMENT DRAIN	EXTER.	PLUG	
	1AD4	CONTAINMENT DRAIN	EXTER.	PLUG	
21-257-OPN-8	1AD3	CONTAINMENT DRAIN	EXTER.	PLUG/ELIMIN.	YES

TABLE 14: TA 21-258 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
21-258-OPN-1	N/A	CONDENSED WATER	N/A	NOI	NO

TABLE 15: TA 21-350 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
21-350-OPN-1	N/A	CONDENSED WATER	EXTER.	NOI	NO

TABLE 16: TA 21-351 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
21-351-OPN-1	N/A	CONDENSED WATER	EXTER.	NOI	NO

TABLE 17: TA 21-353 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
21-353-OPN-1 SANITARY	1LV1	CHANGE ROOM	N/A	NO CHANGE	NO
	1LV2	CHANGE ROOM	N/A	NO CHANGE	
	1SH1	CHANGE ROOM	N/A	NO CHANGE	
	1SH2	CHANGE ROOM	N/A	NO CHANGE	
	1TL1	CHANGE ROOM	N/A	NO CHANGE	
	1TL2	CHANGE ROOM	N/A	NO CHANGE	

TABLE 18: TA 21-356 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
21-356-OPN-1	N/A	CONDENSED WATER	EXTER.	NOI	NO

TABLE 19: TA 21-359 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
21-359-OPN-1 SANITARY	1SD1	OFFICE	N/A	NO CHANGE	NO
21-359-OPN-2	N/A	CONDENSED WATER	EXTER.	NOI	NO

TABLE 20: TA 21-396 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
21-396-OPN-1	N/A	CONDENSED WATER	EXTER.	NOI	NO

TABLE 21: TA 21-443 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
21-443-OPN-1	N/A	CONDENSED WATER	EXTER.	NOI	NO

TABLE 22: TA 21-445 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
21-445-OPN-1 PLUGGED SANITARY	1LV1	BATHROOM	N/A	NO CHANGE	NO
	1LV2	BATHROOM	N/A	NO CHANGE	
	1LV3	BATHROOM	N/A	NO CHANGE	
	1LV4	BATHROOM	N/A	NO CHANGE	
	1LV5	BATHROOM	N/A	NO CHANGE	
	1LV6	BATHROOM	N/A	NO CHANGE	
	1LV7	BATHROOM	N/A	NO CHANGE	
	1LV8	BATHROOM	N/A	NO CHANGE	
	1LV9	BATHROOM	N/A	NO CHANGE	
	1LV10	BATHROOM	N/A	NO CHANGE	
	1LV11	BATHROOM	N/A	NO CHANGE	
	1LV12	BATHROOM	N/A	NO CHANGE	
	1SD1	BATHROOM	N/A	NO CHANGE	
	1SH1	BATHROOM	N/A	NO CHANGE	
	1TL1	BATHROOM	N/A	NO CHANGE	
	1TL2	BATHROOM	N/A	NO CHANGE	
	1TL3	BATHROOM	N/A	NO CHANGE	
	1TL4	BATHROOM	N/A	NO CHANGE	
	1TL5	BATHROOM	N/A	NO CHANGE	
	1TL6	BATHROOM	N/A	NO CHANGE	
	1TL7	BATHROOM	N/A	NO CHANGE	
	1TL8	BATHROOM	N/A	NO CHANGE	
	1TL9	BATHROOM	N/A	NO CHANGE	
	1TL10	BATHROOM	N/A	NO CHANGE	
	1UR1	BATHROOM	N/A	NO CHANGE	
	1UR2	BATHROOM	N/A	NO CHANGE	
	1UR3	BATHROOM	N/A	NO CHANGE	
	1UR4	BATHROOM	N/A	NO CHANGE	
	1UR5	BATHROOM	N/A	NO CHANGE	
	1UR6	BATHROOM	N/A	NO CHANGE	

TABLE 23: TA 21-1001 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
21-1001-OPN-1 SANITARY (UNKNOWN)	1LV1	RESTROOM	109	VERIFY	NO
	1TL1	RESTROOM	109	VERIFY	
	1WF1	HALLWAY	BAY E	VERIFY	
21-1001-OPN-2	N/A	ROOF	N/A	NO CHANGE	NO
21-1001-OPN-3	N/A	EVAP. COOLER DRAIN	EXTER.	NOI	NO
21-1001-OPN-4 SANITARY (L.A. COUNTY)	1LV2	RESTROOM	106	NO CHANGE	NO
	1LV3	RESTROOM	105	NO CHANGE	
	1SD1	CORRIDOR	BAY D	NO CHANGE	
	1TL2	RESTROOM	106	NO CHANGE	
	1TL3	RESTROOM	105	NO CHANGE	
	1UR1	RESTROOM	105	NO CHANGE	
21-1001-OPN-5	1WH1	WATER HTR DRAIN	105	NOI	NO
21-1001-OPN-6	N/A	ROOF	N/A	NO CHANGE	NO
21-1001-OPN-7 SANITARY	1SD2	OFFICE	100C	NO CHANGE	NO
21-1001-OPN-8	N/A	FIRE LINE DRAIN	BAY A	NOI	NO
21-1001-OPN-9	N/A	CONDENSED WATER	BAY A	NOI	NO
21-1001-OPN-10	N/A	ABAND. CONDUIT	BAY B	ELIMINATE	NO
21-1001-OPN-11	N/A	CONDENSED WATER	111	NOI	NO
21-1001-OPN-12	N/A	ABAND. CONDUIT	BAY E	ELIMINATE	NO
21-1001-OPN-13	N/A	FIRE LINE DRAIN	BAY F	NOI	NO
21-1001-OPN-14	N/A	FIRE LINE DRAIN	BAY F	NOI	NO

TABLE 24: TA 21-1002 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
21-1002-OPN-1	1WH1	WATER HTR. DRAIN	N/A	NOI	NO
21-1002-OPN-2	N/A	ROOF	EXTER.	NO CHANGE	NO
21-1002-OPN-3	1LV1	RESTROOM	N/A	NO CHANGE	NO
SANITARY	1TL1	RESTROOM	N/A	NO CHANGE	
21-1002-OPN-4	N/A	FIRE SYSTEM DRAIN	N/A	NOI	NO
21-1002-OPN-5	N/A	FIRE LINE DRAIN	N/A	NOI	NO
21-1002-OPN-6	N/A	FIRE LINE DRAIN	N/A	NOI	NO
21-1002-OPN-7	N/A	AIR COMPR. BLWDN	EXTER.	CONTAINERIZE	NO
21-1002-OPN-8	1EW1	MACHINE SHOP	103	CONTAINERIZE	NO
21-1002-OPN-9	N/A	ROOF	EXTER.	NO CHANGE	NO
21-1002-OPN-10	1LV2	RESTROOM	101	NO CHANGE	NO
SANITARY	1LV3	RESTROOM	102	NO CHANGE	
(L.A. COUNTY)	1LV4	RESTROOM	102	NO CHANGE	
	1LV5	RESTROOM	102	NO CHANGE	
	1LV6	RESTROOM	102	NO CHANGE	
	1TL2	RESTROOM	101	NO CHANGE	
	1TL3	RESTROOM	102	NO CHANGE	
	1TL4	RESTROOM	102	NO CHANGE	
	1UR1	RESTROOM	102	NO CHANGE	
	1UR2	RESTROOM	102	NO CHANGE	
	1WF1	BREAK ROOM	N/A	NO CHANGE	
	1WF2	WELDING SHOP	N/A	NO CHANGE	

TABLE 25: TA 21-1003 DRAIN SUMMARY

OUTFALL NUMBER	ID NUMBER	ROOM ACTIVITY	ROOM NUMBER	STATUS OR RECOMMENDATIONS	EPA FORM PREPARED
21-1003-OPN-1	1BFP1	BFP BUILDING	N/A	MODIFY	YES
04A182					

TABLE 26: NON-DRAIN RECOMMENDATIONS

TA #	BLDG. #	ROOM/AREA	RECOMMENDATION
21	ALL	ALL SINK DRAINS	POST "NO CHEMICAL DN THIS DRAIN" SIGN
21	31	BASEMENT	CONTAINERIZE AIR COMPRESS. DISCH.
21	31	SOUTH-SIDE DOCK	PROVIDE SECOND. CONTAIN. FOR DRUMS
21	110	RLW STOR. TANK	PROVIDE ADEQUATE SECONDARY CONTAINMENT/ROOF
21	111	RLW STOR. TANK	PROVIDE ADEQUATE SECONDARY CONTAINMENT/ROOF
21	112	RLW STOR. TANK	PROVIDE ADEQUATE SECONDARY CONTAIN.
21	113	RLW STOR. TANK	PROVIDE ADEQUATE SECONDARY CONTAIN.
21	210	SOUTHSIDE PARKING	SECONDARY CONTAIN CADIUM BATTERIES
21	210	EXTERIOR - SOUTH SIDE	DELETE EPA PERMIT 03A035
21	257	CONTROLLED RM. 115	SECONDARY CONTAIN 55 GAL. DRUMS
21	374	EMPTY DRUM STOR.	DO NOT USE FOR HAZARD. MAT'L STOR.
21	396	TRANSPORTAINER	REPAIR HYDRAULIC FLUID LEAK
21	396	TRANSPORTAINER	REPAIR COOLING UNIT LEAK
21	3-535	SEMI-TRAILER	RE-NUMBER FOR TA-21
21	53-493	SEMI-TRAILER	RE-NUMBER FOR TA-21
21	60-97	SEMI-TRAILER	RE-NUMBER FOR TA-21

TABLE 27
SUMMARY OF ABBREVIATIONS

ABBREVIATION	MEANING
A/C	Air Conditioner Unit
AD	Area Drain
BFP	Backflow Preventer
CD	Cup Drain
CCD	Contamin. Cup Drain
CFD	Contamin. Floor drain
CSD	Contamin. Sink Drain
E/C	Evaporative Cooler
EW	Emerg. Eye Wash
FD	Floor Drain
FS	Floor Sink
LV	Lavatory
MH	Manhole
NC	Normally Closed Valve
NO	Normally Open Valve
RD	Roof Drain
--- RLW ---	Rad. Liquid Waste
--- SD ---	Storm Drain Pipe
SD	Sink
SH	Shower
SP	Sump Pump
--- SS ---	Sanitary Sewer Pipe
TD	Trench Drain
TL	Toilet
UR	Urinal
WF	Water Fountain
WH	Water Heater

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TA	BLDG	OUTLET PIPING NO	EPA OUTFALL #	DRAIN #	ROOM #	ROOM DESCRIPTION	FLOW RATE		PERIODICITY	SEASONAL	SOURCE TYPES
21	1	21-1-OPN-1	05S/SWSC	1FD1	105	RESTROOM			FLOW IS NIL	No	FLOOR WASHINGS
21	1	21-1-OPN-1	05S/SWSC	1FD2	101	RESTROOM			FLOW IS NIL	No	FLOOR WASHINGS
21	1	21-1-OPN-1	05S/SWSC	1FD3	103	JANITOR'S CLOSET			FLOW IS NIL	No	FLOOR WASHINGS
21	1	21-1-OPN-1	05S/SWSC	1LV1	105	RESTROOM			5 DAYS PER WEEK	No	LAVATORY
21	1	21-1-OPN-1	05S/SWSC	1LV2	101	RESTROOM			5 DAYS PER WEEK	No	LAVATORY
21	1	21-1-OPN-1	05S/SWSC	1SD1	103	JANITOR'S CLOSET			5 DAYS PER WEEK	No	FLOOR WASHINGS
21	1	21-1-OPN-1	05S/SWSC	1TL1	105	RESTROOM			5 DAYS PER WEEK	No	TOILET
21	1	21-1-OPN-1	05S/SWSC	1TL2	101	RESTROOM			5 DAYS PER WEEK	No	TOILET
21	1	21-1-OPN-1	05S/SWSC	1UR1	105	RESTROOM			5 DAYS PER WEEK	No	URINAL
21	1	21-1-OPN-1	05S/SWSC	1WF1	100A	CORRIDOR			5 DAYS PER WEEK	No	WATER FOUNTAIN
21	1	21-1-OPN-2	DAYLIGHT	N/A	111	OFFICE			NO FLOW	No	ABANDONED PIPE
21	14	21-14-OPN-1	05S/SWSC	1FD1	102	OFFICE			NO FLOW	No	NONE (PLUGGED)
21	14	21-14-OPN-1	05S/SWSC	1FD2	100	BREAK ROOM			FLOW IS NIL	No	FLOOR WASHINGS
21	14	21-14-OPN-1	05S/SWSC	1FD3	100	BREAK ROOM			FLOW IS NIL	No	FLOOR WASHING
21	14	21-14-OPN-1	05S/SWSC	1FD4	101	METAL SHOP			NO FLOW	No	NONE (PLUGGED)
21	14	21-14-OPN-1	05S/SWSC	1FD5	105	RESTROOM			FLOW IS NIL	No	FLOOR WASHINGS
21	14	21-14-OPN-1	05S/SWSC	1LV1	106	RESTROOM			5 DAYS PER WEEK	No	LAVATORY
21	14	21-14-OPN-1	05S/SWSC	1LV2	106	RESTROOM			5 DAYS PER WEEK	No	LAVATORY
21	14	21-14-OPN-1	05S/SWSC	1LV3	106	RESTROOM			5 DAYS PER WEEK	No	LAVATORY
21	14	21-14-OPN-1	05S/SWSC	1LV4	105	RESTROOM			5 DAYS PER WEEK	No	LAVATORY
21	14	21-14-OPN-1	05S/SWSC	1SD1	100	BREAK ROOM			5 DAYS PER WEEK	No	HAND WASHING
21	14	21-14-OPN-1	05S/SWSC	1SD2	105	RESTROOM			5 DAYS PER WEEK	No	FLOOR WASHINGS
21	14	21-14-OPN-1	05S/SWSC	1TD1	107	OFFICE			NO FLOW	No	NONE
21	14	21-14-OPN-1	05S/SWSC	1TD2	107	OFFICE			NO FLOW	No	NONE
21	14	21-14-OPN-1	05S/SWSC	1TD3	104	OFFICE			NO FLOW	No	NONE
21	14	21-14-OPN-1	05S/SWSC	1TD4	100	BREAK ROOM			NO FLOW	No	NONE
21	14	21-14-OPN-1	05S/SWSC	1TD5	100	BREAK ROOM			NO FLOW	No	NONE
21	14	21-14-OPN-1	05S/SWSC	1TD6	101	METAL SHOP			NO FLOW	No	NONE
21	14	21-14-OPN-1	05S/SWSC	1TL1	106	RESTROOM			5 DAYS PER WEEK	No	TOILET
21	14	21-14-OPN-1	05S/SWSC	1TL2	106	RESTROOM			5 DAYS PER WEEK	No	TOILET
21	14	21-14-OPN-1	05S/SWSC	1TL3	106	RESTROOM			5 DAYS PER WEEK	No	TOILET
21	14	21-14-OPN-1	05S/SWSC	1TL4	106	RESTROOM			5 DAYS PER WEEK	No	TOILET
21	14	21-14-OPN-1	05S/SWSC	1TL5	105	RESTROOM			5 DAYS PER WEEK	No	TOILET

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TA	BLDG	OUTLET PIPING NO	EPA OUTFALL #	DRAIN #	ROOM #	ROOM DESCRIPTION	FLOW RATE		PERIODICITY	SEASONAL	SOURCE TYPES
21	14	21-14-OPN-1	05S/SWSC	1UR1	106	RESTROOM			5 DAYS PER WEEK	No	URINAL
21	14	21-14-OPN-1	05S/SWSC	1UR2	106	RESTROOM			5 DAYS PER WEEK	No	URINAL
21	14	21-14-OPN-1	05S/SWSC	1UR3	106	RESTROOM			5 DAYS PER WEEK	No	URINAL
21	14	21-14-OPN-1	05S/SWSC	1UR4	106	RESTROOM			5 DAYS PER WEEK	No	URINAL
21	14	21-14-OPN-1	05S/SWSC	1UR5	106	RESTROOM			5 DAYS PER WEEK	No	URINAL
21	14	21-14-OPN-1	05S/SWSC	1WF1	100	BREAK ROOM			5 DAYS PER WEEK	No	WATER FOUNTAIN
21	14	21-14-OPN-2	DAYLIGHT	N/A	101	METAL SHOP			NO FLOW	No	NONE (ABANDONED PIPE)
21	14	21-14-OPN-3	DAYLIGHT	N/A	N/A	ROOF			MAINLY SUMMER	Yes	STORM WATER
21	14	21-14-OPN-4	DAYLIGHT	N/A	N/A	ROOF			MAINLY SUMMER	Yes	STORM WATER
21	14	21-14-OPN-5	DAYLIGHT	N/A	N/A	EXTERIOR STEAM PIT			FLOW IS NIL	No	STEAM CONDENSATE
21	14	21-14-OPN-6	DAYLIGHT	N/A	N/A	EXTERIOR STEAM PIT			FLOW IS NIL	No	STEAM CONDENSATE
21	18	TA-21-18	ND	N/A	N/A	CORRIDOR			NO FLOW	No	NONE
21	21	21-21-OPN-1	RLW	1FD01	1A	VAULT			NO FLOW	No	NONE
21	21	21-21-OPN-1	RLW	1FD02	1A	VAULT			NO FLOW	No	NONE
21	21	21-21-OPN-1	RLW	1FD03	1	VAULT			NO FLOW	No	NONE (PLUGGED)
21	21	21-21-OPN-1	RLW	1FD04	1	VAULT			NO FLOW	No	NONE (PLUGGED)
21	21	21-21-OPN-1	RLW	1FD05	3	VAULT			NO FLOW	No	NONE
21	21	21-21-OPN-1	RLW	1FD06	2	VAULT			NO FLOW	No	NONE
21	21	21-21-OPN-1	RLW	1FD07	002	VAULT			NO FLOW	No	NONE (PLUGGED)
21	21	21-21-OPN-1	RLW	1FD08	002	VAULT			NO FLOW	No	NONE
21	21	21-21-OPN-1	RLW	1FD09	4	VAULT			NO FLOW	No	NONE
21	21	21-21-OPN-1	RLW	1FD10	4	VAULT			NO FLOW	No	NONE
21	21	21-21-OPN-1	RLW	1FD11	5	VAULT			NO FLOW	No	NONE
21	21	21-21-OPN-1	RLW	1FD12	8	VAULT			NO FLOW	No	NONE
21	21	21-21-OPN-1	RLW	1FD13	7	VAULT			NO FLOW	No	NONE
21	21	21-21-OPN-1	RLW	1FD14	6	VAULT			NO FLOW	No	NONE
21	21	21-21-OPN-1	RLW	1FD15	003	VAULT			NO FLOW	No	NONE
21	21	21-21-OPN-1	RLW	1FD16	003	VAULT			NO FLOW	No	NONE
21	21	21-21-OPN-1	RLW	1FD17	9	VAULT			NO FLOW	No	NONE
21	21	21-21-OPN-1	RLW	1FD18	10	VAULT			NO FLOW	No	NONE
21	21	21-21-OPN-1	RLW	1FD19	11	VAULT			NO FLOW	No	NONE
21	21	21-21-OPN-2	DAYLIGHT	1FD20	004	MECHANICAL ROOM			FLOW IS NIL	No	FLOOR WASHINGS
21	21	21-21-OPN-2	DAYLIGHT	1FD21	004	MECHANICAL ROOM			FLOW IS NIL	No	FLOOR WASHINGS

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TA	BLDG	OUTLET PIPING NO	EPA OUTFALL #	DRAIN #	ROOM #	ROOM DESCRIPTION	FLOW RATE		PERIODICITY	SEASONAL	SOURCE TYPES
21	21	21-21-OPN-3	DAYLIGHT	N/A	004	MECHANICAL ROOM			ONCE ANNUALLY	No	FIRE SYSTEM TEST
21	21	21-21-OPN-4	DAYLIGHT	N/A	004	MECHANICAL ROOM			ONCE ANNUALLY	No	FIRE SYSTEM TEST
21	21	21-21-OPN-5	DAYLIGHT	N/A	004	MECHANICAL ROOM			NO FLOW	No	NONE
21	21	21-21-OPN-6	DAYLIGHT	N/A	1A	VAULT			ONCE ANNUALLY	No	FIRE SYSTEM TEST
21	21	21-21-OPN-7	DAYLIGHT	N/A	001	VAULT			NO FLOW	No	NONE (ABANDONED PIPE)
21	21	21-30-OPN-1	UNKNOWN	1LV1	100A	RESTROOM			5 DAYS PER WEEK	No	LAVORATORY
21	30	21-30-OPN-1	UNKNOWN	1TL1	100A	RESTROOM			5 DAYS PER WEEK	No	TOILET
21	30	21-30-OPN-1	UNKNOWN	1WF1	100	LABORATORY			5 DAYS PER WEEK	No	WATER FOUNTAIN
21	30	21-30-OPN-2	DAYLIGHT	1WH1	100A	RESTROOM			FLOW IS NIL	No	WATER HTR T/P REFLIEF
21	30	21-30-OPN-3	DAYLIGHT	N/A	100	LABORATORY			ONCE ANNUALLY	No	FIRE LINE DRAIN
21	30	21-30-OPN-4	DAYLIGHT	N/A	100	LABORATORY			ONCE ANNUALLY	No	FIRE LINE DRAIN
21	30	21-30-OPN-5	05S/SWSC	1FD1	101	LABORATORY			FLOW IS NIL	No	FLOOR WASHINGS
21	30	21-30-OPN-5	05S/SWSC	1FD2	101	LABORATORY			FLOW IS NIL	No	FLOOR WASHINGS
21	30	21-30-OPN-5	05S/SWSC	1SD1	101	LABORATORY			5 DAYS PER WEEK	No	HAND WASHING
21	30	21-30-OPN-6	DAYLIGHT	N/A	N/A	COMPRESSOR EQUIP. RM.			NO FLOW	No	AIR COMPRESSOR EXHAUST
21	30	21-30-OPN-7	DAYLIGHT	N/A	N/A	COMPRESSOR EQUIP. RM.			NO FLOW	No	AIR COMPRESSOR EXHAUST
21	31	21-31-OPN-1	DAYLIGHT	N/A	002	BASEMENT			ONCE ANNUALLY	No	FIRE LINE DRAIN
21	31	21-31-OPN-3	DAYLIGHT	N/A	003	BASEMENT			NO FLOW	No	AIR COMPRESSOR EXHAUST
21	31	21-31-OPN-3	DAYLIGHT	N/A	001	CONDENS. PUMP ROOM			FLOW IS NIL	No	STEAM PIPE DRAIN
21	31	21-31-OPN-4	DAYLIGHT	N/A	001	CONDENSATE PUMP ROOM			ONCE ANNUALLY	No	FIRE LINE DRAIN
21	31	21-31-OPN-5	DAYLIGHT	BFD1	001	CONDENSATE PUMP ROOM			FLOW IS NIL	No	COND. TANK DISCH./FLOOR WASHINGS
21	31	21-31-OPN-6	DAYLIGHT	N/A	004	BASEMENT			ONCE ANNUALLY	No	FIRE LINE DRAIN
21	31	21-31-OPN-7	05S/SWSC	1EW1	106	PARTS STORAGE			FLOW IS NIL	No	EMERGENCY EYE WASH
21	31	21-31-OPN-7	05S/SWSC	1FS1	106	PARTS STORAGE			5 DAYS PER WEEK	No	EYE WASH AND HAND WASH SINK DRAI
21	31	21-31-OPN-7	05S/SWSC	1LV1	103A	RESTROOM			5 DAYS PER WEEK	No	LAVATORY
21	31	21-31-OPN-7	05S/SWSC	1LV2	104	RESTROOM			5 DAYS PER WEEK	No	LAVATORY
21	31	21-31-OPN-7	05S/SWSC	1SD1	106	PARTS STORAGE			5 DAYS PER WEEK	No	HAND WASHING
21	31	21-31-OPN-7	05S/SWSC	1SD2	106	PARTS STORAGE			5 DAYS PER WEEK	No	HAND WASHING
21	31	21-31-OPN-7	05S/SWSC	1SD3	106	PARTS STORAGE			NO FLOW	No	FUME HOOD SINK
21	31	21-31-OPN-7	05S/SWSC	1TL1	103A	RESTROOM			5 DAYS PER WEEK	No	TOILET
21	31	21-31-OPN-7	05S/SWSC	1TL2	104	RESTROOM			5 DAYS PER WEEK	No	TOILET
21	31	21-31-OPN-7	05S/SWSC	1UR1	104	RESTROOM			5 DAYS PER WEEK	No	URINAL
21	31	21-31-OPN-7	05S/SWSC	1WF1	106	PARTS STORAGE			5 DAYS PER WEEK	No	WATER FOUNTAIN

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TA	BLDG	OUTLET PIPING NO	EPA OUTFALL #	DRAIN #	ROOM #	ROOM DESCRIPTION	FLOW RATE		PERIODICITY	SEASONAL	SOURCE TYPES
21	46	21-46-OPN-1	DAYLIGHT	N/A	N/A	WAREHOUSE			NO FLOW	No	NONE (DISCONNECTED)
21	110	21-110-OPN-1	RLW	N/A	N/A	RAD. STORAGE TANK			NO FLOW	No	RLW OVERFLOW DRAIN
21	110	21-110-OPN-2	RLW	N/A	N/A	RLW STORAGE TANK			FLOW IS NIL	No	RAD. LIQUID WASTE
21	111	21-111-OPN-1	RLW	N/A	N/A	RAD. STORAGE TANK			NO FLOW	No	RLW OVERFLOW DRAIN
21	111	21-111-OPN-2	RLW	N/A	N/A	RLW STORAGE TANK			FLOW IS NIL	No	RAD. LIQUID WASTE
21	112	21-112-OPN-1	RLW	N/A	N/A	RLW STORAGE TANK			AS NEEDED	No	RLW OVERFLOW DRAIN
21	113	21-113-OPN-1	RLW	N/A	N/A	RLW STORAGE TANK			AS NEEDED	No	RLW OVERFLOW DRAIN
21	210	21-210-OPN-01	DAYLIGHT	N/A	N/A	BASEMENT			MAINLY SUMMER	Yes	HVAC CONDENSATE
21	210	21-210-OPN-02	DAYLIGHT	N/A	B1	BASEMENT			ONCE ANNUALLY	No	FIRE LINE DRAIN
21	210	21-210-OPN-03	05S/SWSC	1CD1	140	STORAGE ROOM			NO FLOW	No	NONE
21	210	21-210-OPN-03	05S/SWSC	1FD07	134	LABORATORY			5 DAYS PER WEEK	No	FLOOR WASHINGS
21	210	21-210-OPN-03	05S/SWSC	1FD08	127	CONTROLLED RESTROOM			NO FLOW	No	NONE
21	210	21-210-OPN-03	05S/SWSC	1FD09	127	CONTROLLED RESTROOM			NO FLOW	No	NONE
21	210	21-210-OPN-03	05S/SWSC	1FD10	122	CONTROL. SHOWER RM.			NO FLOW	No	NONE
21	210	21-210-OPN-03	05S/SWSC	1FD11	122	CONTROL. SHOWER RM.			NO FLOW	No	NONE
21	210	21-210-OPN-03	05S/SWSC	1FD12	122	CONTROL. SHOWER RM.			NO FLOW	No	NONE
21	210	21-210-OPN-03	05S/SWSC	1FD13	122	CONTROL. SHOWER RM.			NO FLOW	No	NONE
21	210	21-210-OPN-03	05S/SWSC	1FD14	122	CONTROL. SHOWER RM.			NO FLOW	No	NONE
21	210	21-210-OPN-03	05S/SWSC	1FD15	122	CONTROL. SHOWER RM.			NO FLOW	No	NONE
21	210	21-210-OPN-03	05S/SWSC	1FS1	134	LABORATORY			NO FLOW	No	NONE (PLUGGED)
21	210	21-210-OPN-03	05S/SWSC	1FS2	134	LABORATORY			NO FLOW	No	NONE (PLUGGED)
21	210	21-210-OPN-03	05S/SWSC	1FS3	134	LABORATORY			NO FLOW	No	NONE (PLUGGED)
21	210	21-210-OPN-03	05S/SWSC	1FS4	134	LABORATORY			NO FLOW	No	NONE (PLUGGED)
21	210	21-210-OPN-03	05S/SWSC	1LV01	134	LABORATORY			5 DAYS PER WEEK	No	LAVATORY
21	210	21-210-OPN-03	05S/SWSC	1LV02	102	RESTROOM			5 DAYS PER WEEK	No	LAVATORY
21	210	21-210-OPN-03	05S/SWSC	1LV03	104	RESTROOM			5 DAYS PER WEEK	No	LAVATORY
21	210	21-210-OPN-03	05S/SWSC	1LV04	127	CONTROLLED RESTROOM			NO FLOW	No	NONE
21	210	21-210-OPN-03	05S/SWSC	1LV05	127	CONTROLLED RESTROOM			NO FLOW	No	NONE
21	210	21-210-OPN-03	05S/SWSC	1LV06	127	CONTROLLED RESTROOM			NO FLOW	No	NONE
21	210	21-210-OPN-03	05S/SWSC	1LV07	127	CONTROLLED RESTROOM			NO FLOW	No	NONE
21	210	21-210-OPN-03	05S/SWSC	1LV08	127	CONTROLLED RESTROOM			NO FLOW	No	NONE
21	210	21-210-OPN-03	05S/SWSC	1LV09	127	CONTROLLED RESTROOM			NO FLOW	No	NONE
21	210	21-210-OPN-03	05S/SWSC	1LV10	127	CONTROLLED RESTROOM			NO FLOW	No	NONE

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TA	BLDG	OUTLET PIPING NO	EPA OUTFALL #	DRAIN #	ROOM #	ROOM DESCRIPTION	FLOW RATE		PERIODICITY	SEASONAL	SOURCE TYPES
21	210	21-210-OPN-03	05S/SWSC	1SD1	140	STORAGE ROOM			5 DAYS PER WEEK	No	FLOOR WASHINGS
21	210	21-210-OPN-03	05S/SWSC	1SD2	134	LABORATORY			5 DAYS PER WEEK	No	FUME HOOD SINK
21	210	21-210-OPN-03	05S/SWSC	1SD4	128A	JANITOR'S CLOSET			5 DAYS PER WEEK	No	FLOOR WASHINGS
21	210	21-210-OPN-03	05S/SWSC	1SD5	121	JANITOR'S CLOSET			5 DAYS PER WEEK	No	FLOOR WASHINGS
21	210	21-210-OPN-03	05S/SWSC	1SD6	120	LABORATORY			5 DAYS PER WEEK	No	HAND WASHING
21	210	21-210-OPN-03	05S/SWSC	1TL1	102	RESTROOM			5 DAYS PER WEEK	No	TOILET
21	210	21-210-OPN-03	05S/SWSC	1TL2	104	RESTROOM			5 DAYS PER WEEK	No	TOILET
21	210	21-210-OPN-03	05S/SWSC	1TL3	127	CONTROLLED RESTROOM			NO FLOW	No	NONE
21	210	21-210-OPN-03	05S/SWSC	1TL4	127	CONTROLLED RESTROOM			NO FLOW	No	NONE
21	210	21-210-OPN-03	05S/SWSC	1TL5	127	CONTROLLED RESTROOM			NO FLOW	No	NONE
21	210	21-210-OPN-03	05S/SWSC	1TL6	127	CONTROLLED RESTROOM			NO FLOW	No	NONE
21	210	21-210-OPN-03	05S/SWSC	1UR1	127	CONTROLLED RESTROOM			NO FLOW	No	NONE
21	210	21-210-OPN-03	05S/SWSC	1UR2	127	CONTROLLED RESTROOM			NO FLOW	No	NONE
21	210	21-210-OPN-03	05S/SWSC	1UR3	127	CONTROLLED RESTROOM			NO FLOW	No	NONE
21	210	21-210-OPN-03	05S/SWSC	1UR4	127	CONTROLLED RESTROOM			NO FLOW	No	NONE
21	210	21-210-OPN-03	05S/SWSC	1UR5	127	CONTROLLED RESTROOM			NO FLOW	No	NONE
21	210	21-210-OPN-03	05S/SWSC	1UR6	127	CONTROLLED RESTROOM			NO FLOW	No	NONE
21	210	21-210-OPN-03	05S/SWSC	1WF1	140	STORAGE ROOM			5 DAYS PER WEEK	No	WATER FOUNTAIN
21	210	21-210-OPN-03	05S/SWSC	1WF2	131	LABORATORY			5 DAYS PER WEEK	No	WATER FOUNTAIN
21	210	21-210-OPN-03	05S/SWSC	1WF3	N/A	CORRIDOR			5 DAYS PER WEEK	No	WATER FOUNTAIN
21	210	21-210-OPN-03	05S/SWSC	2FD1	241	RESTROOM			FLOW IS NIL	No	FLOOR WASHINGS
21	210	21-210-OPN-03	05S/SWSC	2FD2	209	RESTROOM			FLOW IS NIL	No	FLOOR WASHINGS
21	210	21-210-OPN-03	05S/SWSC	2LV1	241	RESTROOM			5 DAYS PER WEEK	No	LAVATORY
21	210	21-210-OPN-03	05S/SWSC	2LV2	241	RESTROOM			5 DAYS PER WEEK	No	LAVATORY
21	210	21-210-OPN-03	05S/SWSC	2LV3	209	RESTROOM			5 DAYS PER WEEK	No	LAVATORY
21	210	21-210-OPN-03	05S/SWSC	2LV4	209	RESTROOM			5 DAYS PER WEEK	No	LAVATORY
21	210	21-210-OPN-03	05S/SWSC	2LV5	209	RESTROOM			5 DAYS PER WEEK	No	LAVATORY
21	210	21-210-OPN-03	05S/SWSC	2SD1	211	JANITOR'S CLOSET			5 DAYS PER WEEK	No	FLOOR WASHINGS
21	210	21-210-OPN-03	05S/SWSC	2TL1	241	RESTROOM			5 DAYS PER WEEK	No	TOILET
21	210	21-210-OPN-03	05S/SWSC	2TL2	241	RESTROOM			5 DAYS PER WEEK	No	TOILET
21	210	21-210-OPN-03	05S/SWSC	2TL3	209	RESTROOM			5 DAYS PER WEEK	No	TOILET
21	210	21-210-OPN-03	05S/SWSC	2TL4	209	RESTROOM			5 DAYS PER WEEK	No	TOILET
21	210	21-210-OPN-03	05S/SWSC	2UR1	209	RESTROOM			5 DAYS PER WEEK	No	URINAL

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TA	BLDG	OUTLET PIPING NO	EPA OUTFALL #	DRAIN #	ROOM #	ROOM DESCRIPTION	FLOW RATE		PERIODICITY	SEASONAL	SOURCE TYPES
21	210	21-210-OPN-03	05S/SWSC	2UR2	209	RESTROOM			5 DAYS PER WEEK	No	URINAL
21	210	21-210-OPN-03	05S/SWSC	2WF1	200	CORRIDOR			5 DAYS PER WEEK	No	WATER FOUNTAIN
21	210	21-210-OPN-03	05S/SWSC	2WF2	200	CORRIDOR			5 DAYS PER WEEK	No	WATER FOUNTAIN
21	210	21-210-OPN-04	DAYLIGHT	N/A	128B	OFFICE			MAINLY SUMMER	Yes	HVAC CONDENSATE
21	210	21-210-OPN-05	DAYLIGHT	N/A	128B	OFFICE			FLOW IS NIL	No	WATER HTR T/P REFLIEF
21	210	21-210-OPN-06	03A035	1FD1	140	STORAGE ROOM			NO FLOW	No	NONE (PLUGGED)
21	210	21-210-OPN-06	03A035	1FD2	140	STORAGE ROOM			NO FLOW	No	NONE (PLUGGED)
21	210	21-210-OPN-06	03A035	1FD3	140	STORAGE ROOM			NO FLOW	No	NONE (PLUGGED)
21	210	21-210-OPN-06	03A035	1FD4	140	STORAGE ROOM			NO FLOW	No	NONE (PLUGGED)
21	210	21-210-OPN-06	03A035	1FD5	100	UTILITY ROOM			NO FLOW	No	NONE (PLUGGED)
21	210	21-210-OPN-06	03A035	1FD6	100	UTILITY ROOM			NO FLOW	No	NONE (PLUGGED)
21	210	21-210-OPN-06	03A035	1SD3	100	UTILITY ROOM			5 DAYS PER WEEK	No	METAL PARTS RINSE
21	210	21-210-OPN-06	03A035	BAD1	N/A	BASEMENT ENTRY			MAINLY SUMMER	No	STORM WATER
21	210	21-210-OPN-06	03A035	BFD1	N/A	BASEMENT	0.1	GPM	FLOW IS NIL	No	AIR WASHER BLOWDOWN
21	210	21-210-OPN-06	03A035	BFD2	N/A	BASEMENT			FLOW IS NIL	No	COMPRESSOR DRAIN
21	210	21-210-OPN-06	03A035	BFD2	N/A	BASEMENT			FLOW IS NIL	No	WATER HTR PRV/BFP DRAIN
21	210	21-210-OPN-06	03A035	BSP1	N/A	BASEMENT			7 DAYS PER WEEK	No	STORM WTR/AIR WASHER BLOWDOWN
21	210	21-210-OPN-06	03A035	BSP1	N/A	BASEMENT			7 DAYS PER WEEK	No	FLOOR WASHI/BACKFLOW PREVENTER D
21	210	21-210-OPN-06	03A035	N/A	N/A	PERMITTED OUTFALL			MAINLY SUMMER	Yes	STORM WATER
21	210	21-210-OPN-06	03A035	RD1	N/A	ROOF			MAINLY SUMMER	Yes	STORM WATER
21	210	21-210-OPN-06	03A035	RD2	N/A	ROOF			MAINLY SUMMER	Yes	STORM WATER
21	210	21-210-OPN-06	03A035	RD3	N/A	ROOF			MAINLY SUMMER	Yes	STORM WATER
21	210	21-210-OPN-06	03A035	RD4	N/A	ROOF			MAINLY SUMMER	Yes	STORM WATER
21	210	21-210-OPN-06	03A035	RD5	N/A	ROOF			MAINLY SUMMER	Yes	STORM WATER
21	210	21-210-OPN-07	DAYLIGHT	N/A	120	LABORATORY			ONCE ANNUALLY	No	FIRE LINE DRAIN
21	210	21-210-OPN-08	DAYLIGHT	N/A	120	LABORATORY			ONCE ANNUALLY	No	FIRE LINE DRAIN
21	210	21-210-OPN-09	DAYLIGHT	N/A	120	LABORATORY			ONCE ANNUALLY	No	FIRE LINE DRAIN
21	210	21-210-OPN-10	DAYLIGHT	N/A	142	STORAGE ROOM			NO FLOW	No	ABANDONED CONDUIT
21	210	21-210-OPN-11	DAYLIGHT	N/A	142	STORAGE ROOM			NO FLOW	No	ABANDONED CONDUIT
21	210	21-210-OPN-12	DAYLIGHT	N/A	142	STORAGE ROOM			ONCE ANNUALLY	No	FIRE LINE DRAIN
21	210	21-210-OPN-13	DAYLIGHT	N/A	200	CORRIDOR			MAINLY SUMMER	Yes	FIRE LINE DRAIN
21	212	TA-21-212	ND	N/A	N/A	CALCIUM BUILDING			NO FLOW	No	NONE
21	254	21-254-OPN-1	05S/SWSC	1SD1	100	GUARD ROOM			5 DAYS PER WEEK	No	HAND WASHING

REPORT # 79

TA	BLDG	OUTLET PIPING NO	EPA OUTFALL #	DRAIN #	ROOM #	ROOM DESCRIPTION	FLOW RATE		PERIODICITY	SEASONAL	SOURCE TYPES
21	254	21-254-OPN-1	05S/SWSC	1TL1	101	RESTROOM			5 DAYS PER WEEK	No	TOILET
21	254	21-254-OPN-1	05S/SWSC	1WF1	100	GUARD ROOM			5 DAYS PER WEEK	No	WATER FOUNTAIN
21	257	21-257-OPN-1	RLW	N/A	N/A	RAD WASTE STOR. TANKS			NO FLOW	No	RAD. TANKS OVERFLOW
21	257	21-257-OPN-2	DAYLIGHT	RD1	N/A	ROOF			MAINLY SUMMER	Yes	STORM WATER
21	257	21-257-OPN-2	DAYLIGHT	RD2	N/A	ROOF			MAINLY SUMMER	Yes	STORM WATER
21	257	21-257-OPN-3	DAYLIGHT	N/A	107	CONTROLLED AREA			ONCE ANNUALLY	No	FIRE LINE DRAIN
21	257	21-257-OPN-4	05S/SWSC	1BFP1	110	BREAK ROOM			NO FLOW	No	BACKFLOW PREVENTER
21	257	21-257-OPN-4	05S/SWSC	1BFP2	109	MECHANICAL ROOM			NO FLOW	No	BACKFLOW PREVENTER
21	257	21-257-OPN-4	05S/SWSC	1BFP3	109	MECHANICAL ROOM			NO FLOW	No	BACKFLOW PREVENTER
21	257	21-257-OPN-4	05S/SWSC	1BFP4	109	MECHANICAL ROOM			NO FLOW	No	BACKFLOW PREVENTER
21	257	21-257-OPN-4	05S/SWSC	1FD1	111	BATHROOM			FLOW IS NIL	No	FLOOR WASHINGS
21	257	21-257-OPN-4	05S/SWSC	1FD2	109	MECHANICAL ROOM			FLOW IS NIL	No	BFP DRAINS/WATER HTR. PRV
21	257	21-257-OPN-4	05S/SWSC	1FD2	109	MECHANICAL ROOM			FLOW IS NIL	No	AIR COMRESSOR DRAIN
21	257	21-257-OPN-4	05S/SWSC	1LV1	111	BATHROOM			5 DAYS PER WEEK	No	LAVATORY
21	257	21-257-OPN-4	05S/SWSC	1SD1	110	BREAK ROOM			5 DAYS PER WEEK	No	DISH & HAND WASHING
21	257	21-257-OPN-4	05S/SWSC	1SH1	111	BATHROOM			5 DAYS PER WEEK	No	SHOWER
21	257	21-257-OPN-4	05S/SWSC	1TL1	111	BATHROOM			5 DAYS PER WEEK	No	TOILET
21	257	21-257-OPN-4	05S/SWSC	1WF1	110	BREAK ROOM			5 DAYS PER WEEK	No	WATER FOUNTAIN
21	257	21-257-OPN-4	05S/SWSC	1WH1	109	MECHANICAL ROOM			NO FLOW	No	WATER HEATER PRV DRAIN
21	257	21-257-OPN-4	05S/SWSC	1WH2	109	MECHANICAL ROOM			NO FLOW	No	WATER HEATER PRV DRAIN
21	257	21-257-OPN-5	DAYLIGHT	N/A	114	OFFICE			ONCE ANNUALLY	No	FIRE LINE DRAIN
21	257	21-257-OPN-6	NONE	N/A	115	CONTROLLED AREA			NO FLOW	No	NONE (ABANDONED PIPE)
21	257	21-257-OPN-7	RLW	1AD1	N/A	EXTERIOR CONTAINMENT			MAINLY SUMMER	Yes	RLW SECOND. CONTAIN./STORM WATER
21	257	21-257-OPN-7	RLW	1AD2	N/A	EXTERIOR CONTAINMENT			MAINLY SUMMER	Yes	SEC. CONTAIN. DRAIN/STORM WATER
21	257	21-257-OPN-7	RLW	1AD4	N/A	EXTERIOR CONTAINMENT			MAINLY SUMMER	Yes	STORM WATER
21	257	21-257-OPN-8	DAYLIGHT	1AD3	N/A	EXTERIOR CONTAINMENT			MAINLY SUMMER	Yes	STORM WATER
21	258	21-258-OPN-1	DAYLIGHT	N/A	N/A	WATER TOWER			FLOW IS NIL	No	CONDENSED WATER
21	328	TA-21-328	ND	N/A	N/A	MATERIALS RECEIVING			NO FLOW	No	NONE
21	334	TA-21-334	ND	N/A	N/A	UTILITY SHED			NO FLOW	No	NONE
21	335	TA-21-335	ND	N/A	N/A	ABAND. RAD. STOR. TANK			NO FLOW	No	NONE
21	350	21-350-OPN-1	DAYLIGHT	N/A	N/A	EXTERIOR WALL			MAINLY SUMMER	Yes	HVAC CONDENSATE
21	351	21-351-OPN-1	DAYLIGHT	N/A	N/A	EXTERIOR WALL			MAINLY SUMMER	Yes	HVAC CONDENSATE
21	352	TA-21-352	ND	N/A	N/A	OFFICE TRAILER			NO FLOW	No	NONE

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TA	BLDG	OUTLET PIPING NO	EPA OUTFALL #	DRAIN #	ROOM #	ROOM DESCRIPTION	FLOW RATE		PERIODICITY	SEASONAL	SOURCE TYPES
21	353	21-353-OPN-1	05S/SWSC	1LV1	N/A	CHANGE ROOM			5 DAYS PER WEEK	No	LAVATORY
21	353	21-353-OPN-1	05S/SWSC	1LV2	N/A	CHANGE ROOM			NO FLOW	No	LAVATORY
21	353	21-353-OPN-1	05S/SWSC	1SH1	N/A	CHANGE ROOM			NO FLOW	No	SHOWER
21	353	21-353-OPN-1	05S/SWSC	1SH2	N/A	CHANGE ROOM			NO FLOW	No	SHOWER
21	353	21-353-OPN-1	05S/SWSC	1TL1	N/A	CHANGE ROOM			NO FLOW	No	TOILET
21	353	21-353-OPN-1	05S/SWSC	1TL2	N/A	CHANGE ROOM			NO FLOW	No	TOILET
21	355	TA-21-355	ND	N/A	N/A	STORAGE TRAILER			NO FLOW	No	NONE
21	356	21-356-OPN-1	DAYLIGHT	N/A	N/A	EXTERIOR			MAINLY SUMMER	Yes	HVAC CONDENSATE
21	359	21-359-OPN-1	05S/SWSC	1SD1	N/A	OFFICE			5 DAYS PER WEEK	No	DISH WASHING
21	359	21-359-OPN-2	DAYLIGHT	N/A	N/A	EXTERIOR WALL			MAINLY SUMMER	Yes	HVAC CONDENSATE
21	363	TA-21-363	N/A	N/A	N/A	OFFICE TRAILER			NO FLOW	No	NONE (RELOCATED TO TA-51)
21	368	TA-21-368	N/A	N/A	N/A	ICE SAMPLE FREEZER			NO FLOW	No	NONE (REMOVED FROM LANL)
21	376	TA-21-376	ND	N/A	N/A	OFFICE TRLR. (SALVAGED)			NO FLOW	No	NONE
21	376	TA-21-376	N/A	N/A	N/A	OFFICE TRAILER			NO FLOW	No	NONE (SALVAGED)
21	384	TA-21-384	ND	N/A	N/A	MORGAN SHED			NO FLOW	No	NONE
21	396	TA-21-396	ND	N/A	N/A	TRANSPORTAINER			NO FLOW	No	NONE
21	397	TA-21-397	ND	N/A	N/A	TRANSPORTAINER			NO FLOW	No	NONE
21	398	TA-21-398	N/A	N/A	N/A	OFFICE TRAILER			NO FLOW	No	NONE (SALVAGED)
21	399	TA-21-399	ND	N/A	N/A	TRANSPORTAINER			NO FLOW	No	NONE
21	400	TA-21-400	ND	N/A	N/A	TRANSPORTAINER			NO FLOW	No	NONE
21	400	TA-21-400	ND	N/A	N/A	TRANSPORTAINER			NO FLOW	No	NONE
21	403	TA-21-403	ND	N/A	N/A	TRANSPORTAINER			NO FLOW	No	NONE
21	403	TA-21-403	ND	N/A	N/A	TRANSPORTAINER			NO FLOW	No	NONE
21	406	TA-21-406	N/A	N/A	N/A	TRANSPORTAINER			NO FLOW	No	NONE (CANCELLED)
21	407	TA-21-407	ND	N/A	N/A	SHED			NO FLOW	No	NONE
21	410	TA-21-410	ND	N/A	N/A	STORAGE TRAILER			NO FLOW	No	NONE
21	426	TA-21-426	N/A	N/A	N/A	TRANSPORTAINER			NO FLOW	No	NONE (LOCATED AT TA-60)
21	428	TA-21-428	ND	N/A	N/A	STORAGE SHED			NO FLOW	No	NONE
21	443	21-443-OPN-1	DAYLIGHT	N/A	N/A	EXTERIOR			MAINLY SUMMER	Yes	HVAC CONDENSATE
21	445	21-445-OPN-1	NONE	1LV01	N/A	BATHROOM			NO FLOW	No	LAVATORY
21	445	21-445-OPN-1	NONE	1LV02	N/A	BATHROOM			NO FLOW	No	LAVATORY
21	445	21-445-OPN-1	NONE	1LV03	N/A	BATHROOM			NO FLOW	No	LAVATORY
21	445	21-445-OPN-1	NONE	1LV04	N/A	BATHROOM			NO FLOW	No	LAVATORY

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TA	BLDG	OUTLET PIPING NO	EPA OUTFALL #	DRAIN #	ROOM #	ROOM DESCRIPTION	FLOW RATE		PERIODICITY	SEASONAL	SOURCE TYPES
21	445	21-445-OPN-1	NONE	1LV05	N/A	BATHROOM			NO FLOW	No	LAVATORY
21	445	21-445-OPN-1	NONE	1LV06	N/A	BATHROOM			NO FLOW	No	LAVATORY
21	445	21-445-OPN-1	NONE	1LV07	N/A	BATHROOM			NO FLOW	No	LAVATORY
21	445	21-445-OPN-1	NONE	1LV08	N/A	BATHROOM			NO FLOW	No	LAVATORY
21	445	21-445-OPN-1	NONE	1LV09	N/A	BATHROOM			NO FLOW	No	LAVATORY
21	445	21-445-OPN-1	NONE	1LV10	N/A	BATHROOM			NO FLOW	No	LAVATORY
21	445	21-445-OPN-1	NONE	1LV11	N/A	BATHROOM			NO FLOW	No	LAVATORY
21	445	21-445-OPN-1	NONE	1LV12	N/A	BATHROOM			NO FLOW	No	LAVATORY
21	445	21-445-OPN-1	NONE	1SD1	N/A	BATHROOM			NO FLOW	No	LAVATORY
21	445	21-445-OPN-1	NONE	1SH1	N/A	BATHROOM			NO FLOW	No	LAVATORY
21	445	21-445-OPN-1	NONE	1TL01	N/A	BATHROOM			NO FLOW	No	TOILET
21	445	21-445-OPN-1	NONE	1TL02	N/A	BATHROOM			NO FLOW	No	TOILET
21	445	21-445-OPN-1	NONE	1TL03	N/A	BATHROOM			NO FLOW	No	TOILET
21	445	21-445-OPN-1	NONE	1TL04	N/A	BATHROOM			NO FLOW	No	TOILET
21	445	21-445-OPN-1	NONE	1TL05	N/A	BATHROOM			NO FLOW	No	TOILET
21	445	21-445-OPN-1	NONE	1TL06	N/A	BATHROOM			NO FLOW	No	TOILET
21	445	21-445-OPN-1	NONE	1TL07	N/A	BATHROOM			NO FLOW	No	TOILET
21	445	21-445-OPN-1	NONE	1TL08	N/A	BATHROOM			NO FLOW	No	TOILET
21	445	21-445-OPN-1	NONE	1TL09	N/A	BATHROOM			NO FLOW	No	TOILET
21	445	21-445-OPN-1	NONE	1TL10	N/A	BATHROOM			NO FLOW	No	TOILET
21	445	21-445-OPN-1	NONE	1UR1	N/A	BATHROOM			NO FLOW	No	URINAL
21	445	21-445-OPN-1	NONE	1UR2	N/A	BATHROOM			NO FLOW	No	URINAL
21	445	21-445-OPN-1	NONE	1UR3	N/A	BATHROOM			NO FLOW	No	URINAL
21	445	21-445-OPN-1	NONE	1UR4	N/A	BATHROOM			NO FLOW	No	URINAL
21	445	21-445-OPN-1	NONE	1UR5	N/A	BATHROOM			NO FLOW	No	URINAL
21	445	21-445-OPN-1	NONE	1UR6	N/A	BATHROOM			NO FLOW	No	URINAL
21	449	TA-21-449	ND	N/A	N/A	MORGAN STORAGE SHED			NO FLOW	No	NONE
21	450	TA-21-450	ND	N/A	N/A	SEMI-TRAILER			NO FLOW	No	NONE
21	451	TA-21-451	ND	N/A	N/A	STORAGE SHED			NO FLOW	No	NONE
21	1001	21-1001-OPN-01	UNKNOWN	1LV1	109	RESTROOM			5 DAYS PER WEEK	No	LAVATORY
21	1001	21-1001-OPN-01	UNKNOWN	1TL1	109	RESTROOM			5 DAYS PER WEEK	No	TOILET
21	1001	21-1001-OPN-01	UNKNOWN	1WF1	BAY E	RECORDS STORAGE			5 DAYS PER WEEK	No	WATER FOUNTAIN
21	1001	21-1001-OPN-02	DAYLIGHT	N/A	N/A	ROOF			MAINLY SUMMER	Yes	STORM WATER

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TA	BLDG	OUTLET PIPING NO	EPA OUTFALL #	DRAIN #	ROOM #	ROOM DESCRIPTION	FLOW RATE		PERIODICITY	SEASONAL	SOURCE TYPES
21	1001	21-1001-OPN-03	DAYLIGHT	N/A	N/A	EXTERIOR			MAINLY SUMMER	Yes	EVAP. COOLER WATER
21	1001	21-1001-OPN-04	CITY SEWAGE	1LV2	106	RESTROOM			5 DAYS PER WEEK	No	LAVATORY
21	1001	21-1001-OPN-04	CITY SEWAGE	1LV3	105	RESTROOM			5 DAYS PER WEEK	No	LAVATORY
21	1001	21-1001-OPN-04	CITY SEWAGE	1SD1	BAY D	CORRIDOR			5 DAYS PER WEEK	No	DISH WASHING
21	1001	21-1001-OPN-04	CITY SEWAGE	1TL2	106	RESTROOM			5 DAYS PER WEEK	No	TOILET
21	1001	21-1001-OPN-04	CITY SEWAGE	1TL3	105	RESTROOM			5 DAYS PER WEEK	No	TOILET
21	1001	21-1001-OPN-04	CITY SEWAGE	1UR1	105	RESTROOM			5 DAYS PER WEEK	No	URINAL
21	1001	21-1001-OPN-05	DAYLIGHT	1WH1	105	RESTROOM			FLOW IS NIL	No	WATER HTR PRV REFLIEF
21	1001	21-1001-OPN-06	DAYLIGHT	N/A	N/A	ROOF			MAINLY SUMMER	Yes	STORM WATER
21	1001	21-1001-OPN-07	CITY SEWAGE	1SD2	100C	OFFICE			5 DAYS PER WEEK	No	HAND WASHING
21	1001	21-1001-OPN-08	DAYLIGHT	N/A	BAY A	STORAGE ROOM			ONCE ANNUALLY	No	FIRE LINE DRAIN
21	1001	21-1001-OPN-09	DAYLIGHT	N/A	BAY A	RECORDS STORAGE			MAINLY SUMMER	Yes	HVAC CONDENSATE
21	1001	21-1001-OPN-10	DAYLIGHT	N/A	BAY B	RECORDS STORAGE			NO FLOW	No	NONE (ABANDONED CONDUIT)
21	1001	21-1001-OPN-11	DAYLIGHT	N/A	111	RECORDS STORAGE			MAINLY SUMMER	Yes	HVAC CONDENSATE
21	1001	21-1001-OPN-12	DAYLIGHT	N/A	BAY E	RECORDS STORAGE			NO FLOW	No	NONE (ABANDONED CONDUIT)
21	1001	21-1001-OPN-13	DAYLIGHT	N/A	BAY F	RECORDS STORAGE			ONCE ANNUALLY	No	FIRE LINE DRAIN
21	1001	21-1001-OPN-14	DAYLIGHT	N/A	BAY F	RECORDS STORAGE			ONCE ANNUALLY	No	FIRE LINE DRAIN
21	1002	21-1002-OPN-02	DAYLIGHT	N/A	N/A	ROOF			MAINLY SUMMER	Yes	STORM WATER
21	1002	21-1002-OPN-03	CITY SEWAGE	1LV1	N/A	RESTROOM			5 DAYS PER WEEK	No	LAVATORY
21	1002	21-1002-OPN-03	CITY SEWAGE	1TL1	N/A	RESTROOM			5 DAYS PER WEEK	No	TOILET
21	1002	21-1002-OPN-04	DAYLIGHT	N/A	104	FIRE SYSTEM EQUIP. RM.			FLOW IS NIL	No	DELUGE FIRE SYSTEM DRAIN
21	1002	21-1002-OPN-05	DAYLIGHT	N/A	104	FIRE SYSTEM EQUIP. RM.			ONCE ANNUALLY	No	FIRE LINE DRAIN
21	1002	21-1002-OPN-06	DAYLIGHT	N/A	104	FIRE SYSTEM EQUIP. RM.			ONCE ANNUALLY	No	FIRE LINE DRAIN
21	1002	21-1002-OPN-07	DAYLIGHT	N/A	N/A	DOCK AREA			FLOW IS NIL	No	COMPRESSED AIR TANK DRAIN
21	1002	21-1002-OPN-08	DAYLIGHT	1EW1	103	MACHINE ROOM			NO FLOW	No	EMERGENCY EYE WASH UNIT
21	1002	21-1002-OPN-09	DAYLIGHT	N/A	N/A	ROOF			MAINLY SUMMER	Yes	STORM WATER
21	1002	21-1002-OPN-1	DAYLIGHT	1WH1	N/A	RESTROOM			FLOW IS NIL	No	WATER HTR T/P REFLIEF
21	1002	21-1002-OPN-10	CITY SEWAGE	1LV2	101	RESTROOM			5 DAYS PER WEEK	No	LAVATORY
21	1002	21-1002-OPN-10	CITY SEWAGE	1LV3	102	RESTROOM			5 DAYS PER WEEK	No	LAVATORY
21	1002	21-1002-OPN-10	CITY SEWAGE	1LV3	102	RESTROOM			5 DAYS PER WEEK	No	LAVATORY
21	1002	21-1002-OPN-10	CITY SEWAGE	1LV4	102	RESTROOM			5 DAYS PER WEEK	No	LAVATORY
21	1002	21-1002-OPN-10	CITY SEWAGE	1LV5	102	RESTROOM			5 DAYS PER WEEK	No	LAVATORY
21	1002	21-1002-OPN-10	CITY SEWAGE	1LV6	102	RESTROOM			5 DAYS PER WEEK	No	LAVATORY

REPORT # 79

TA	BLDG	OUTLET PIPING NO	EPA OUTFALL #	DRAIN #	ROOM #	ROOM DESCRIPTION	FLOW RATE		PERIODICITY	SEASONAL	SOURCE TYPES
21	1002	21-1002-OPN-10	CITY SEWAGE	1TL2	101	RESTROOM			5 DAYS PER WEEK	No	TOILET
21	1002	21-1002-OPN-10	CITY SEWAGE	1TL3	102	RESTROOM			5 DAYS PER WEEK	No	TOILET
21	1002	21-1002-OPN-10	CITY SEWAGE	1TL4	102	RESTROOM			5 DAYS PER WEEK	No	TOILET
21	1002	21-1002-OPN-10	CITY SEWAGE	1UR1	102	RESTROOM			5 DAYS PER WEEK	No	URINAL
21	1002	21-1002-OPN-10	CITY SEWAGE	1UR2	102	RESTROOM			5 DAYS PER WEEK	No	URINAL
21	1002	21-1002-OPN-10	CITY SEWAGE	1WF1	N/A	BREAK ROOM			5 DAYS PER WEEK	No	WATER FOUNTAIN
21	1002	21-1002-OPN-10	CITY SEWAGE	1WF2	N/A	WELDING SHOP			5 DAYS PER WEEK	No	WATER FOUNTAIN
21	1003	21-1003-OPN-1	04A182	1BFP1	N/A	BACKFLOW PREVENTER RM			FLOW IS NIL	No	POT. WATER BACKFLOW PREVENTER
21	1004	TA-21-1004	ND	N/A	N/A	STORAGE SHED			NO FLOW	No	NONE
21	1005	TA-21-1005	ND	N/A	N/A	STORAGE SHED			NO FLOW	No	NONE
21	1006	TA-21-1006	ND	N/A	N/A	STORAGE SHED			NO FLOW	No	NONE
21	1007	TA-21-1007	ND	N/A	N/A	STORAGE SHED			NO FLOW	No	NONE
21	1008	TA-21-1008	ND	N/A	N/A	STORAGE SHED			NO FLOW	No	NONE

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.	
03A035	35	52	33.2	106	16	42.2	Tributaries To Los Alamos 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	
035	TA-21-210 Air Washer Blowdown (TCW)	0.1 GPM			
	Floor Washings, Storm Water	(When Flowing)			

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	
035	Air Washer Blowdown	7	6	0.0000036 mgd	0.0000036 mgd	36 gpd	36 gpd	6 H/D

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
a. QUANTITY PER DAY	b. UNITS OF MEASURE	c. OPERATION, PRODUCT, MATERIAL, ETC. *(specify)*	*(list outfall numbers)*

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

EPA I.D. NUMBER *(copy from Item 1 of Form 1)*
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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
N/A			

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 ALLEN J. TIEDMAN, ASSOC. DIRECTOR FOR OPERATIONS	505-667-5105 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 1 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. 03A035

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	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	3. UNITS *(specify if blank)* a. CONCENTRATION	3. UNITS b. MASS	4. INTAKE *(optional)* a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	4. INTAKE a. LONG TERM AVERAGE VALUE (2) MASS	4. INTAKE b. NO. OF ANALYSES
a. Biochemical Oxygen Demand *(BOD)*	2.0	0.3						mg/l	g/d			
b. Chemical Oxygen Demand *(COD)*	42.0	5.7						mg/l	g/d			
c. Total Organic Carbon *(TOC)*	7.4	1.0						mg/l	g/d			
d. Total Suspended Solids *(TSS)*	7.0	1.0						mg/l	g/d			
e. Ammonia *(as N)*	< .01	< 1.363						mg/l	mg/d			
f. Flow	VALUE 36		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	2. MARK 'X' b. BELIEVED ABSENT	3. EFFLUENT 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	4. UNITS a. CONCENTRATION	4. UNITS b. MASS	5. INTAKE *(optional)* a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	5. INTAKE a. LONG TERM AVERAGE VALUE (2) MASS	5. INTAKE b. NO. OF ANALYSES
a. Bromide (24959-67-9)	X		3.24	0.4						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	70.9						mg/l	mg/d			
f. Nitrate-Nitrite *(as N)*	X		1.13	0.2						mg/l	g/d			

CONTINUE ON REVERSE

ITEM V-B CONTINUED FROM FRONT

1. POLLUTANT AND CAS NO. (if available)	2. MARK 'X'		3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	a. BELIEVED PRESENT	b. 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
g. Nitrogen, Total Organic (as N)	X		2.3	0.3						mg/l	g/d			
h. Oil and Grease		X	< 1.2	< 0.2						mg/l	g/d			
i. Phosphorus (as P), Total (7723-14-0)	X		.306	41.7						mg/l	mg/d			
j. Radioactivity														
(1) Alpha, Total	X		14	1.9						pCi/l	nCi/d			
(2) Beta, Total	X		6.6	0.9						pCi/l	nCi/d			
(3) Radium, Total	X													
(4) Radium 226, Total	X		0.07	9.5						pCi/l	nCi/d			
k. Sulfate (as SO_4) (14808-79-8)	X		143	19.5						mg/l	g/d			
l. Sulfide (as S)	X		70.2	9.6						mg/l	g/d			
m. Sulfite (as SO_3) (14265-45-3)	X		18.8	2.6						mg/l	g/d			
n. Surfactants	X		0.11	15.0						mg/l	mg/d			
o. Aluminum, Total (7429-90-5)	X		0.06	8.2						mg/l	mg/d			
p. Barium, Total (7440-39-3)	X		0.11	15.0						mg/l	mg/d			
q. Boron, Total (7440-42-8)	X		0.33	45.0						mg/l	mg/d			
r. Cobalt, Total (7440-48-4)		X	0.07	9.5						mg/l	mg/d			
s. Iron, Total (7439-89-6)	X		1.1	0.1						mg/l	g/d			
t. Magnesium, Total (7439-95-4)	X		5.8	0.8						mg/l	g/d			
u. Molybdenum, Total (7439-98-7)	X		1.7	0.2						mg/l	g/d			
v. Manganese, Total (7439-96-5)	X		0.05	6.8						mg/l	mg/d			
w. Tin, Total (7440-31-5)		X	< 0.050	< 6.8						mg/l	mg/d			
x. Titanium, Total (7440-32-6)		X	< 0.004	< 0.5						mg/l	mg/d			

EPA I.D. NUMBER (copy from Item 1 of Form 1)	OUTFALL NUMBER
NM0890010515	03A035

Form Approved.
OMB No. 2040-0086
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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	< 6.8						mg/l	mg/d			
2M. Arsenic, Total (7440-38-2)		X		0.04	5.5						mg/l	mg/d			
3M. Beryllium, Total, 7440-41-7)			X	< 0.1	< 13.6						mg/l	mg/d			
4M. Cadmium, Total (7440-43-9)		X		.004	0.5						mg/l	mg/d			
5M. Chromium, Total (7440-47-3)		X		.260	35.4						mg/l	mg/d			
6M. Copper, Total (7440-50-8)		X		0.1	13.6						mg/l	mg/d			
7M. Lead, Total (7439-92-1)		X		.050	6.8						mg/l	mg/d			
8M. Mercury, Total (7439-97-6)			X	< .0002	< 0.0						mg/l	mg/d			
9M. Nickel, Total (7440-02-0)		X		.28	38.2						mg/l	mg/d			
10M. Selenium, Total (7782-49-2)			X	< .001	< 0.1						mg/l	mg/d			
11M. Silver, Total (7440-22-4)			X	< 0.01	< 1.4						mg/l	mg/d			
12M. Thallium, Total (7440-28-0)		X		0.51	69.5						mg/l	mg/d			
13M. Zinc, Total (7440-66-6)		X		.071	9.7						mg/l	mg/d			
14M. Cyanide, Total (57-12-5)		X		.033	4.5						mg/l	mg/d			
15M. Phenols, Total			X	< .01	< 1.4						mg/l	mg/d			
DIOXIN															
2,3,7,8-Tetrachlorodibenzo-P-Dioxin (1764-01-6)			X	DESCRIBE RESULTS											

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															
1V. Acrolein (107-02-8)			X												
2V. Acrylonitrile (107-13-1)			X												
3V. Benzene (71-43-2)			X	< 0.005	< 0.7						mg/l	mg/d			
4V. Bis (Chloromethyl) Ether (542-88-1)			X												
5V. Bromoform (75-25-2)			X	< 0.005	< 0.7						mg/l	mg/d			
6V. Carbon Tetrachloride (56-23-5)			X	< 0.005	< 0.7						mg/l	mg/d			
7V. Chlorobenzene (108-90-7)			X	< 0.005	< 0.7						mg/l	mg/d			
8V. Chlorodibromomethane (124-48-1)			X	< 0.005	< 0.7						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	< 0.7						mg/l	mg/d			
12V. Dichlorobromomethane (75-27-4)			X	< 0.005	< 0.7						mg/l	mg/d			
13V. Dichlorodifluoromethane (75-71-8)			X												
14V. 1,1-Dichloroethane (75-34-3)			X	< 0.005	< 0.7						mg/l	mg/d			
15V. 1,2-Dichloroethane (107-06-2)			X	< 0.005	< 0.7						mg/l	mg/d			
16V. 1,1-Dichloroethylene (75-35-4)			X	< 0.005	< 0.7						mg/l	mg/d			
17V. 1,2-Dichloropropane (78-87-5)			X	< 0.005	< 0.7						mg/l	kg/d			
18V. 1,3-Dichloropropylene (542-75-6)			X	< 0.005	< 0.7						mg/l	mg/d			
19V. Ethylbenzene (100-41-4)			X	< 0.005	< 0.7						mg/l	mg/d			
20V. Methyl Bromide (74-83-9)			X	< 0.010	< 1.4						mg/l	mg/d			
21V. Methyl Chloride (74-87-3)			X	< 0.010	< 1.4						mg/l	mg/d			

EPA I.D. NUMBER (copy from Item 1 of Form 1): NM0890010515 | OUTFALL NUMBER: 03A035

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Approval expires 7-31-88

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X' a. TESTING REQUIRED	2. MARK 'X' b. BELIEVED PRESENT	2. MARK 'X' c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	3. EFFLUENT a. MAXIMUM DAILY VALUE (2) MASS	3. EFFLUENT b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	3. EFFLUENT b. MAXIMUM 30 DAY VALUE (if available) (2) MASS	3. EFFLUENT c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	3. EFFLUENT c. LONG TERM AVRG. VALUE (if available) (2) MASS	3. EFFLUENT d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	4. UNITS b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (2) MASS	5. INTAKE (optional) b. NO. OF ANALYSES
GC/MS FRACTION – VOLATILE COMPOUNDS *(continued)*															
22V. Methylene Chloride (75-09-2)			X	< 0.005	< 0.7						mg/l	mg/d			
23V. 1,1,2,2-Tetrachloroethane (79-34-5)			X	< 0.005	< 0.7						mg/l	mg/d			
24V. Tetrachloroethylene (127-18-4)			X	< 0.005	< 0.7						mg/l	mg/d			
25V. Toluene (108-88-3)			X	< 0.005	< 0.7						mg/l	mg/d			
26V. 1,2-Trans-Dichloroethylene (156-60-5)			X	< 0.005	< 0.7						mg/l	mg/d			
27V. 1,1,1-Trichloroethane (71-55-6)			X	< 0.005	< 0.7						mg/l	mg/d			
28V. 1,1,2-Trichloroethane (79-00-5)			X	< 0.005	< 0.7						mg/l	mg/d			
29V. Trichloroethylene (79-01-6)			X	< 0.005	< 0.7						mg/l	mg/d			
30V. Trichlorofluoromethane (75-69-4)			X	< 0.005	< 0.7						mg/l	mg/d			
31V. Vinyl Chloride (75-01-4)			X	< 0.010	< 1.4						mg/l	mg/d			
GC/MS FRACTION – ACID COMPOUNDS															
1A. 2-Chlorophenol (95-57-8)			X	< 0.010	< 1.4						mg/l	mg/d			
2A. 2,4-Dichlorophenol (120-83-2)			X	< 0.010	< 1.4						mg/l	mg/d			
3A. 2,4-Dimethylphenol (105-67-9)			X	< 0.010	< 1.4						mg/l	mg/d			
4A. 4,6-Dinitro-O-Cresol (534-52-1)			X	< 0.010	< 1.4						mg/l	mg/d			
5A. 2,4-Dinitrophenol (51-28-5)			X	< 0.010	< 1.4						mg/l	mg/d			
6A. 2-Nitrophenol (88-75-5)			X	< 0.010	< 1.4						mg/l	mg/d			
7A. 4-Nitrophenol (100-02-7)			X	< 0.010	< 1.4						mg/l	mg/d			
8A. P-Chloro-M-Cresol (59-50-7)			X	< 0.010	< 1.4						mg/l	mg/d			
9A. Pentachlorophenol (87-86-5)			X	< 0.010	< 1.4						mg/l	mg/d			
10A. Phenol (108-95-2)			X	< 0.010	< 1.4						mg/l	mg/d			
11A. 2,4,6-Trichlorophenol (88-06-2)			X	< 0.010	< 1.4						mg/l	mg/d			

CONTINUE ON REVERSE

CONTINUED FROM THE FRONT

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															
1B. Acenaphthene (83-32-9)			X	< 0.010	< 1.4						mg/l	mg/d			
2B. Acenaphtylene (208-96-8)			X	< 0.010	< 1.4						mg/l	mg/d			
3B. Anthracene (120-12-7)			X	< 0.010	< 1.4						mg/l	mg/d			
4B. Benzidine (92-87-5)			X	< 0.010	< 1.4						mg/l	mg/d			
5B. Benzo *(a)* Anthracene (56-55-3)			X	< 0.010	< 1.4						mg/l	mg/d			
6B. Benzo *(a)* Pyrene (50-32-8)			X	< 0.010	< 1.4						mg/l	mg/d			
7B. 3,4-Benzo-fluoranthene (205-99-2)			X	< 0.010	< 1.4						mg/l	mg/d			
8B. Benzo *(ghi)* Perylene (191-24-2)			X	< 0.010	< 1.4						mg/l	mg/d			
9B. Benzo *(k)* Fluoranthene (207-08-9)			X	< 0.010	< 1.4						mg/l	mg/d			
10B. Bis *(2-Chloro-ethoxy)* Methane (111-91-1)			X	< 0.010	< 1.4						mg/l	mg/d			
11B. Bis *(2-Chloro-ethyl)* Ether (111-44-4)			X	< 0.010	< 1.4						mg/l	mg/d			
12B. Bis *(2-Chloroiso-propyl)* Ether (102-60-1)			X	< 0.010	< 1.4						mg/l	mg/d			
13B. Bis *(2-Ethyl-hexyl)* Phthalate (117-81-7)			X	< 0.010	< 1.4						mg/l	mg/d			
14B. 4-Bromo-phenyl Phenyl Ether (101-55-3)			X	< 0.010	< 1.4						mg/l	mg/d			
15B. Butyl Benzyl Phthalate (85-68-7)			X	< 0.010	< 1.4						mg/l	mg/d			
16B. 2-Chloro-naphthalene (91-58-7)			X	< 0.010	< 1.4						mg/l	mg/d			
17B. 4-Chloro-phenyl Phenyl Ether (7005-72-3)			X	< 0.010	< 1.4						mg/l	mg/d			
18B. Chrysene (218-01-9)			X	< 0.010	< 1.4						mg/l	mg/d			
19B. Dibenzo *(a,h)* Anthracene (53-70-3)			X	< 0.010	< 1.4						mg/l	mg/d			
20B. 1,2-Dichloro-benzene (95-50-1)			X	< 0.010	< 1.4						mg/l	mg/d			
21B. 1,3-Dichloro-benzene (541-73-1)			X	< 0.010	< 1.4						mg/l	mg/d			

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

OUTFALL NUMBER: 03A035

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	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	4. UNITS a. CONCENTRATION	4. UNITS b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (2) MASS	5. INTAKE (optional) b. NO. OF ANALYSES
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (continued)															
22B. 1,4-Dichlorobenzene (106-46-7)			X	< 0.010	< 1.4						mg/l	mg/d			
23B. 3,3'-Dichlorobenzidine (91-94-1)			X	< 0.010	< 1.4						mg/l	mg/d			
24B. Diethyl Phthalate (84-66-2)			X	< 0.010	< 1.4						mg/l	mg/d			
25B. Dimethyl Phthalate (131-11-3)			X	< 0.010	< 1.4						mg/l	mg/d			
26B. Di-N-Butyl Phthalate (84-74-2)			X	< 0.010	< 1.4						mg/l	mg/d			
27B. 2,4-Dinitrotoluene (121-14-2)			X	< 0.010	< 1.4						mg/l	mg/d			
28B. 2,6-Dinitrotoluene (606-20-2)			X	< 0.010	< 1.4						mg/l	mg/d			
29B. Di-N-Octyl Phthalate (117-84-0)			X	< 0.010	< 1.4						mg/l	mg/d			
30B. 1,2-Diphenylhydrazine (as Azobenzene) (122-66-7)			X	< 0.010	< 1.4						mg/l	mg/d			
31B. Fluoranthene (206-44-0)			X	< 0.010	< 1.4						mg/l	mg/d			
32B. Fluorene (86-73-7)			X	< 0.010	< 1.4						mg/l	mg/d			
33B. Hexachlorobenzene (118-74-1)			X	< 0.010	< 1.4						mg/l	mg/d			
34B. Hexachlorobutadiene (87-68-3)			X	< 0.010	< 1.4						mg/l	mg/d			
35B. Hexachlorocyclopentadiene (77-47-4)			X	< 0.010	< 1.4						mg/l	mg/d			
36B. Hexachloroethane (67-72-1)			X	< 0.010	< 1.4						mg/l	mg/d			
37B. Indeno (1,2,3-cd) Pyrene (193-39-5)			X	< 0.010	< 1.4						mg/l	mg/d			
38B. Isophorone (78-59-1)			X	< 0.010	< 1.4						mg/l	mg/d			
39B. Naphthalene (91-20-3)			X	< 0.010	< 1.4						mg/l	mg/d			
40B. Nitrobenzene (98-95-3)			X	< 0.010	< 1.4						mg/l	mg/d			
41B. N-Nitrosodimethylamine (62-75-9)			X	< 0.010	< 1.4						mg/l	mg/d			
42B. N-Nitrosodi-N-Propylamine (621-64-7)			X	< 0.010	< 1.4						mg/l	mg/d			

CONTINUE ON REVERSE

CONTINUED FROM THE FRONT

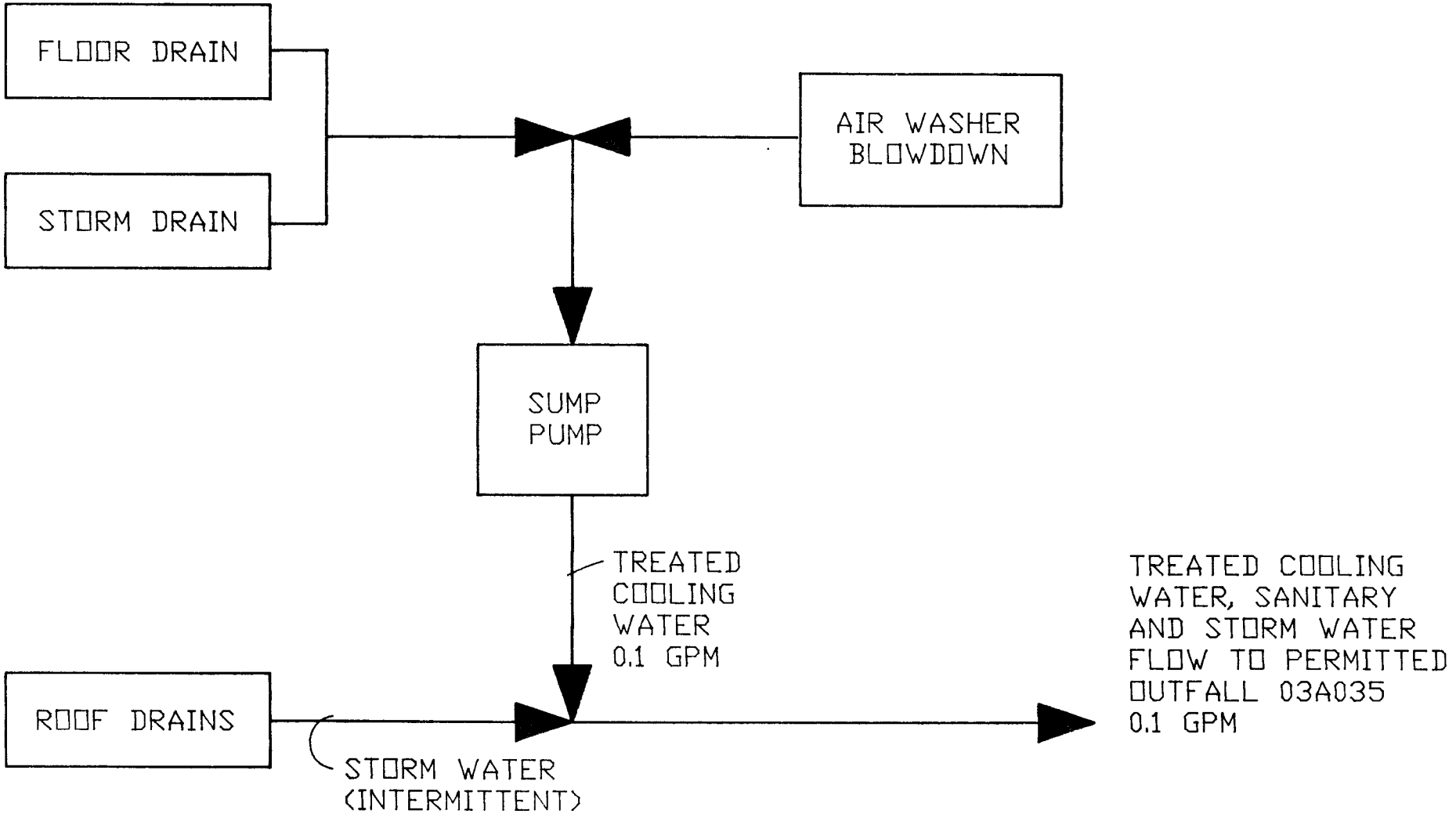
1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X' a. TESTING REQUIRED	2. MARK 'X' b. BELIEVED PRESENT	2. MARK 'X' c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	3. EFFLUENT a. MAXIMUM DAILY VALUE (2) MASS	3. EFFLUENT b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	3. EFFLUENT b. MAXIMUM 30 DAY VALUE (if available) (2) MASS	3. EFFLUENT c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	3. EFFLUENT c. LONG TERM AVRG. VALUE (if available) (2) MASS	3. EFFLUENT d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	4. UNITS b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (2) MASS	5. INTAKE (optional) b. NO. OF ANALYSES
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (continued)															
43B. N-Nitrosodiphenylamine (86-30-6)			X	< 0.010	< 3.8						mg/l	mg/d			
44B. Phenanthrene (85-01-8)			X	< 0.010	< 3.8						mg/l	mg/d			
45B. Pyrene (129-00-0)			X	< 0.010	< 3.8						mg/l	mg/d			
46B. 1,2,4 - Trichlorobenzene (120-82-1)			X	< 0.010	< 3.8						mg/l	mg/d			
GC/MS FRACTION – PESTICIDES															
1P. Aldrin (309-00-2)			X	< 0.06	< 22.7						ug/l	ug/d			
2P. α-BHC (319-84-6)			X	< 0.04	< 15.1						ug/l	ug/d			
3P. β-BHC (319-85-7)			X	< 0.1	< 37.9						ug/l	ug/d			
4P. γ-BHC (58-89-9)			X	< 0.03	< 11.4						ug/l	ug/d			
5P. δ-BHC (319-86-8)			X	< 0.12	< 45.4						ug/l	ug/d			
6P. Chlordane (57-74-9)			X	< 0.25	< 94.6						ug/l	ug/d			
7P. 4,4'-DDT (50-29-3)			X	< 0.06	< 22.7						ug/l	ug/d			
8P. 4,4'-DDE (72-55-9)			X	< 0.08	< 30.3						ug/l	ug/d			
9P. 4,4'-DDD (72-54-8)			X	< 0.08	< 30.3						ug/l	ug/d			
10P. Dieldrin (60-57-1)			X	< 0.08	< 30.3						ug/l	ug/d			
11P. α-Endosulfan (115-29-7)			X	< 0.05	< 18.9						ug/l	ug/d			
12P. β-Endosulfan (115-29-7)			X	< 0.08	< 30.3						ug/l	ug/d			
13P. Endosulfan Sulfate (1031-07-8)			X	< 0.09	< 34.1						ug/l	ug/d			
14P. Endrin (72-20-8)			X	< 0.06	< 22.7						ug/l	ug/d			
15P. Endrin Aldehyde (7421-93-4)			X	< 0.62	< 0.2						ug/l	mg/d			
16P. Heptachlor (76-44-8)			X	< 0.03	< 11.4						ug/l	ug/d			

CONTINUED FROM PAGE V-8

EPA I.D. NUMBER (copy from Item 1 of Form 1)	OUTFALL NUMBER
NM0890010515	03A035

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	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	4. UNITS a. CONCENTRATION	4. UNITS b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (2) MASS	5. INTAKE (optional) b. NO. OF ANALYSES
GC/MS FRACTION – PESTICIDES *(continued)*															
17P. Heptachlor Epoxide (1024-57-3)			X	< 0.08	< 30.3						ug/l	ug/d			
18P. PCB-1242 (53469-21-9)			X	< 0.71	< 0.3						ug/l	mg/d			
19P. PCB-1254 (11097-69-1)			X	< 0.71	< 0.3						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	< 0.3						ug/l	mg/d			
24P. PCB-1016 (12674-11-2)			X	N.D.											
25P. Toxaphene (8001-35-2)			X	< 2.5	< 0.9						ug/l	mg/d			



OUTFALL 03A035 FLOW DIAGRAM

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
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FORM 2C NPDES

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.	
04A182	35	52	41	106	17	26	Tributaries To Los Alamos 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. OUT-FALL 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	
182	Potable Water Backflow Preventer Drain	5 GPD (When Flowing)	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 a. DAYS PER WEEK *(specify average)*	3. FREQUENCY b. MONTHS PER YEAR *(specify average)*	4. FLOW a. FLOW RATE *(in mgd)* 1. LONG TERM AVERAGE	4. FLOW a. FLOW RATE *(in mgd)* 2. MAXIMUM DAILY	4. FLOW b. TOTAL VOLUME *(specify with units)* 1. LONG TERM AVERAGE	4. FLOW b. TOTAL VOLUME *(specify with units)* 2. MAXIMUM DAILY	4. FLOW c. DURATION *(in days)*
182	Potable Water From Backflow Preventer	.04	12	0.0000005 mgd	0.00001 mgd	5 GPD	100 GPD	0.1

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

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 a. NO.	2. AFFECTED OUTFALLS b. SOURCE OF DISCHARGE	3. BRIEF DESCRIPTION OF PROJECT	4. FINAL COMPLIANCE DATE a. REQUIRED	4. FINAL COMPLIANCE DATE 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

EPA I.D. NUMBER (copy from Item 1 of Form 1)
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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
N/A			

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 ALLEN J. TIEDMAN, ASSOC. DIRECTOR FOR OPERATIONS	505-667-5105 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 1 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. 04A182

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. EFFLUENT a. MAXIMUM DAILY VALUE (2) MASS	2. EFFLUENT b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	2. EFFLUENT b. MAXIMUM 30 DAY VALUE (if available) (2) MASS	2. EFFLUENT c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	2. EFFLUENT c. LONG TERM AVRG. VALUE (if available) (2) MASS	2. EFFLUENT d. NO. OF ANALYSES	3. UNITS (specify if blank) a. CONCENTRATION	3. UNITS b. MASS	4. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	4. INTAKE (optional) a. LONG TERM AVERAGE VALUE (2) MASS	4. INTAKE (optional) b. NO. OF ANALYSES
a. Biochemical Oxygen Demand *(BOD)*	< 2.0	< 37.9						mg/l	g/d			
b. Chemical Oxygen Demand *(COD)*	< 10.0	< 0.2						mg/l	g/d			
c. Total Organic Carbon *(TOC)*	0.6	11.2						mg/l	g/d			
d. Total Suspended Solids *(TSS)*	18.0	0.3						mg/l	g/d			
e. Ammonia *(as N)*	< 0.1	< 1.893						mg/l	g/d			
f. Flow	VALUE 5		VALUE		VALUE			gal/day		VALUE		
g. Temperature *(winter)*	VALUE 13.9		VALUE		VALUE			°C		VALUE		
h. Temperature *(summer)*	VALUE N/A		VALUE		VALUE			°C		VALUE		
i. pH	MINIMUM 8.45	MAXIMUM 8.80	MINIMUM	MAXIMUM				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	2. MARK 'X' b. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	3. EFFLUENT a. MAXIMUM DAILY VALUE (2) MASS	3. EFFLUENT b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	3. EFFLUENT b. MAXIMUM 30 DAY VALUE (if available) (2) MASS	3. EFFLUENT c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	3. EFFLUENT c. LONG TERM AVRG. VALUE (if available) (2) MASS	3. EFFLUENT d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	4. UNITS b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (2) MASS	5. INTAKE (optional) b. NO. OF ANALYSES
a. Bromide (24959-67-9)		X	< 0.5	< 9.5						mg/l	g/d			
b. Chlorine, Total Residual	X		0.05	0.0						mg/l	mg/d			
c. Color	X		7.0							units				
d. Fecal Coliform		X												
e. Fluoride (16984-48-8)	X		0.21	4.0						mg/l	g/d			
f. Nitrate-Nitrite *(as N)*	X		0.304	5.8						mg/l	g/d			

ITEM V-B CONTINUED FROM FRONT

1. POLLUTANT AND CAS NO. (if available)	2. MARK 'X' a. BELIEVED PRESENT	2. MARK 'X' b. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	3. EFFLUENT a. MAXIMUM DAILY VALUE (2) MASS	3. EFFLUENT b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	3. EFFLUENT b. MAXIMUM 30 DAY VALUE (if available) (2) MASS	3. EFFLUENT c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	3. EFFLUENT c. LONG TERM AVRG. VALUE (if available) (2) MASS	3. EFFLUENT d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	4. UNITS b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (2) MASS	5. INTAKE (optional) b. NO. OF ANALYSES
g. Nitrogen, Total Organic (as N)		X	< 0.5	< 9.5						mg/l	mg/d			
h. Oil and Grease		X	< 1.05	< 19.9						mg/l	mg/d			
i. Phosphorus (as P), Total (7723-14-0)	X		0.05	0.9						mg/l	mg/d			
j. Radioactivity														
(1) Alpha, Total	X		0.1	1.9						pCi/l	pCi/d			
(2) Beta, Total	X		6.6	0.1						pCi/l	nCi/d			
(3) Radium, Total	X													
(4) Radium 226, Total	X		0.06	1.1						pCi/l	pCi/d			
k. Sulfate (as SO_4) (14808-79-8)	X		3.16	59.8						mg/l	mg/d			
l. Sulfide (as S)		X		0.0						mg/l	mg/d			
m. Sulfite (as SO_3) (14265-45-3)		X	< 0.05	< 0.9						mg/l	mg/d			
n. Surfactants		X	< 0.1	< 1.9						mg/l	mg/d			
o. Aluminum, Total (7429-90-5)		X	< 0.04	< 0.8						mg/l	mg/d			
p. Barium, Total (7440-39-3)	X		0.03	0.6						mg/l	mg/d			
q. Boron, Total (7440-42-8)	X		0.02	0.4						mg/l	mg/d			
r. Cobalt, Total (7440-48-4)		X	< 0.1	< 1.9						mg/l	mg/d			
s. Iron, Total (7439-89-6)	X		0.41	7.8						mg/l	mg/d			
t. Magnesium, Total (7439-95-4)	X		2.5	47.3						mg/l	mg/d			
u. Molybdenum, Total (7439-98-7)		X	< 0.02	< 0.4						mg/l	mg/d			
v. Manganese, Total (7439-96-5)	X		0.01	0.2						mg/l	mg/d			
w. Tin, Total (7440-31-5)		X	< 0.050	< 0.9						mg/l	mg/d			
x. Titanium, Total (7440-32-6)		X	< 0.004	< 0.1						mg/l	mg/d			

EPA I.D. NUMBER (copy from Item 1 of Form 1)	OUTFALL NUMBER
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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	< 0.9						mg/l	mg/d			
2M. Arsenic, Total (7440-38-2)		X		0.002	0.0						mg/l	mg/d			
3M. Beryllium, Total, 7440-41-7)			X	< 0.001	< 0.0						mg/l	mg/d			
4M. Cadmium, Total (7440-43-9)			X	< 0.010	< 0.2						mg/l	mg/d			
5M. Chromium, Total (7440-47-3)		X		0.040	0.8						mg/l	mg/d			
6M. Copper, Total (7440-50-8)		X		0.031	0.6						mg/l	mg/d			
7M. Lead, Total (7439-92-1)			X	< 0.050	< 0.9						mg/l	mg/d			
8M. Mercury, Total (7439-97-6)			X	< 0.0002	< 0.00						mg/l	mg/d			
9M. Nickel, Total (7440-02-0)		X		0.06	1.1						mg/l	mg/d			
10M. Selenium, Total (7782-49-2)			X	< 0.001	< 0.0						mg/l	mg/d			
11M. Silver, Total (7440-22-4)			X	< 0.010	< 0.2						mg/l	mg/d			
12M. Thallium, Total (7440-28-0)			X	< 0.4	< 7.6						mg/l	mg/d			
13M. Zinc, Total (7440-66-6)		X		0.043	0.8						mg/l	mg/d			
14M. Cyanide, Total (57-12-5)			X	0.01	0.2						mg/l	mg/d			
15M. Phenols, Total			X	< 0.01	< 0.2						mg/l	mg/d			
DIOXIN															
2,3,7,8-Tetrachlorodibenzo-P-Dioxin (1764-01-6)			X	DESCRIBE RESULTS											

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	< 0.1						mg/l	mg/d			
4V. Bis (Chloromethyl) Ether (542-88-1)			X												
5V. Bromoform (75-25-2)			X	< 0.005	< 0.1						mg/l	mg/d			
6V. Carbon Tetrachloride (56-23-5)			X	< 0.005	< 0.1						mg/l	mg/d			
7V. Chlorobenzene (108-90-7)			X	< 0.005	< 0.1						mg/l	mg/d			
8V. Chlorodibromomethane (124-48-1)			X	< 0.005	< 0.1						mg/l	mg/d			
9V. Chloroethane (75-00-3)			X	< 0.010	< 0.000						mg/l	mg/d			
10V. 2-Chloroethylvinyl Ether (110-75-8)			X												
11V. Chloroform (67-66-3)			X	< 0.005	< 0.1						mg/l	mg/d			
12V. Dichlorobromomethane (75-27-4)			X	< 0.005	< 0.1						mg/l	mg/d			
13V. Dichlorodifluoromethane (75-71-8)			X												
14V. 1,1-Dichloroethane (75-34-3)			X	< 0.005	< 0.1						mg/l	mg/d			
15V. 1,2-Dichloroethane (107-06-2)			X	< 0.005	< 0.1						mg/l	mg/d			
16V. 1,1-Dichloroethylene (75-35-4)			X	< 0.005	< 0.1						mg/l	mg/d			
17V. 1,2-Dichloropropane (78-87-5)			X	< 0.005	< 0.1						mg/l	kg/d			
18V. 1,3-Dichloropropylene (542-75-6)			X	<	< 0.0						mg/l	mg/d			
19V. Ethylbenzene (100-41-4)			X	< 0.005	< 0.1						mg/l	mg/d			
20V. Methyl Bromide (74-83-9)			X	< 0.010	< 0.2						mg/l	mg/d			
21V. Methyl Chloride (74-87-3)			X	< 0.010	< 0.2						mg/l	mg/d			

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

OUTFALL NUMBER: 04A182

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	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	4. UNITS a. CONCENTRATION	4. UNITS b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (2) MASS	5. INTAKE (optional) b. NO. OF ANALYSES
GC/MS FRACTION – VOLATILE COMPOUNDS *(continued)*															
22V. Methylene Chloride (75-09-2)			X	< 0.005	< 0.1						mg/l	mg/d			
23V. 1,1,2,2-Tetrachloroethane (79-34-5)			X	< 0.005	< 0.1						mg/l	mg/d			
24V. Tetrachloroethylene (127-18-4)			X	< 0.005	< 0.1						mg/l	mg/d			
25V. Toluene (108-88-3)			X	< 0.005	< 0.1						mg/l	mg/d			
26V. 1,2-Trans-Dichloroethylene (156-60-5)			X	< 0.005	< 0.1						mg/l	mg/d			
27V. 1,1,1-Trichloroethane (71-55-6)			X	< 0.005	< 0.1						mg/l	mg/d			
28V. 1,1,2-Trichloroethane (79-00-5)			X	< 0.005	< 0.1						mg/l	mg/d			
29V. Trichloroethylene (79-01-6)			X	< 0.005	< 0.1						mg/l	mg/d			
30V. Trichlorofluoromethane (75-69-4)			X	< 0.005	< 0.1						mg/l	mg/d			
31V. Vinyl Chloride (75-01-4)			X	< 0.010	< 0.2						mg/l	mg/d			
GC/MS FRACTION – ACID COMPOUNDS															
1A. 2-Chlorophenol (95-57-8)			X	< 0.010	< 0.2						mg/l	mg/d			
2A. 2,4-Dichlorophenol (120-83-2)			X	< 0.010	< 0.2						mg/l	mg/d			
3A. 2,4-Dimethylphenol (105-67-9)			X	< 0.010	< 0.2						mg/l	mg/d			
4A. 4,6-Dinitro-O-Cresol (534-52-1)			X	< 0.010	< 0.2						mg/l	mg/d			
5A. 2,4-Dinitrophenol (51-28-5)			X	< 0.010	< 0.2						mg/l	mg/d			
6A. 2-Nitrophenol (88-75-5)			X	< 0.010	< 0.2						mg/l	mg/d			
7A. 4-Nitrophenol (100-02-7)			X	< 0.010	< 0.2						mg/l	mg/d			
8A. P-Chloro-M-Cresol (59-50-7)			X	< 0.010	< 0.2						mg/l	mg/d			
9A. Pentachlorophenol (87-86-5)			X	< 0.010	< 0.2						mg/l	mg/d			
10A. Phenol (108-95-2)			X	< 0.010	< 0.2						mg/l	mg/d			
11A. 2,4,6-Trichlorophenol (88-06-2)			X	< 0.010	< 0.2						mg/l	mg/d			

CONTINUE ON REVERSE

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X' a. TESTING REQUIRED	2. MARK 'X' b. BELIEVED PRESENT	2. MARK 'X' c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	3. EFFLUENT a. MAXIMUM DAILY VALUE (2) MASS	3. EFFLUENT b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	3. EFFLUENT b. MAXIMUM 30 DAY VALUE (if available) (2) MASS	3. EFFLUENT c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	3. EFFLUENT c. LONG TERM AVRG. VALUE (if available) (2) MASS	3. EFFLUENT d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	4. UNITS b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (2) MASS	5. INTAKE (optional) b. NO. OF ANALYSES
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS															
1B. Acenaphthene (83-32-9)			X	< 0.010	< 0.2						mg/l	mg/d			
2B. Acenaphtylene (208-96-8)			X	< 0.010	< 0.2						mg/l	mg/d			
3B. Anthracene (120-12-7)			X	< 0.010	< 0.2						mg/l	mg/d			
4B. Benzidine (92-87-5)			X	< 0.010	< 0.2						mg/l	mg/d			
5B. Benzo *(a)* Anthracene (56-55-3)			X	< 0.010	< 0.2						mg/l	mg/d			
6B. Benzo *(a)* Pyrene (50-32-8)			X	< 0.010	< 0.2						mg/l	mg/d			
7B. 3,4-Benzo-fluoranthene (205-99-2)			X	< 0.010	< 0.2						mg/l	mg/d			
8B. Benzo *(ghi)* Perylene (191-24-2)			X	< 0.010	< 0.2						mg/l	mg/d			
9B. Benzo *(k)* Fluoranthene (207-08-9)			X	< 0.010	< 0.2						mg/l	mg/d			
10B. Bis *(2-Chloro-ethoxy)* Methane (111-91-1)			X	< 0.010	< 0.2						mg/l	mg/d			
11B. Bis *(2-Chloro-ethyl)* Ether (111-44-4)			X	< 0.010	< 0.2						mg/l	mg/d			
12B. Bis *(2-Chloroiso-propyl)* Ether (102-60-1)			X	< 0.010	< 0.2						mg/l	mg/d			
13B. Bis *(2-Ethyl-hexyl)* Phthalate (117-81-7)			X	< 0.010	< 0.2						mg/l	mg/d			
14B. 4-Bromo-phenyl Phenyl Ether (101-55-3)			X	< 0.010	< 0.2						mg/l	mg/d			
15B. Butyl Benzyl Phthalate (85-68-7)			X	< 0.010	< 0.2						mg/l	mg/d			
16B. 2-Chloro-naphthalene (91-58-7)			X	< 0.010	< 0.2						mg/l	mg/d			
17B. 4-Chloro-phenyl Phenyl Ether (7005-72-3)			X	< 0.010	< 0.2						mg/l	mg/d			
18B. Chrysene (218-01-9)			X	< 0.010	< 0.2						mg/l	mg/d			
19B. Dibenzo *(a,h)* Anthracene (53-70-3)			X	< 0.010	< 0.2						mg/l	mg/d			
20B. 1,2-Dichloro-benzene (95-50-1)			X	< 0.010	< 0.2						mg/l	mg/d			
21B. 1,3-Dichloro-benzene (541-73-1)			X	< 0.010	< 0.2						mg/l	mg/d			

CONTINUED FROM PAGE V-6

EPA I.D. NUMBER (copy from Item 1 of Form 1)	OUTFALL NUMBER
NM0890010515	04A182

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 – BASE/NEUTRAL COMPOUNDS (continued)															
22B. 1,4-Dichlorobenzene (106-46-7)			X	< 0.010	< 0.2						mg/l	mg/d			
23B. 3,3'-Dichlorobenzidine (91-94-1)			X	< 0.010	< 0.2						mg/l	mg/d			
24B. Diethyl Phthalate (84-66-2)			X	< 0.010	< 0.2						mg/l	mg/d			
25B. Dimethyl Phthalate (131-11-3)			X	< 0.010	< 0.2						mg/l	mg/d			
26B. Di-N-Butyl Phthalate (84-74-2)			X	< 0.010	< 0.2						mg/l	mg/d			
27B. 2,4-Dinitrotoluene (121-14-2)			X	< 0.010	< 0.2						mg/l	mg/d			
28B. 2,6-Dinitrotoluene (606-20-2)			X	< 0.010	< 0.2						mg/l	mg/d			
29B. Di-N-Octyl Phthalate (117-84-0)			X	< 0.010	< 0.2						mg/l	mg/d			
30B. 1,2-Diphenylhydrazine (as Azobenzene) (122-66-7)			X	< 0.010	< 0.2						mg/l	mg/d			
31B. Fluoranthene (206-44-0)			X	< 0.010	< 0.2						mg/l	mg/d			
32B. Fluorene (86-73-7)			X	< 0.010	< 0.2						mg/l	mg/d			
33B. Hexachlorobenzene (118-74-1)			X	< 0.010	< 0.2						mg/l	mg/d			
34B. Hexachlorobutadiene (87-68-3)			X	< 0.010	< 0.2						mg/l	mg/d			
35B. Hexachlorocyclopentadiene (77-47-4)			X	< 0.010	< 0.2						mg/l	mg/d			
36B. Hexachloroethane (67-72-1)			X	< 0.010	< 0.2						mg/l	mg/d			
37B. Indeno (1,2,3-cd) Pyrene (193-39-5)			X	< 0.010	< 0.2						mg/l	mg/d			
38B. Isophorone (78-59-1)			X	< 0.010	< 0.2						mg/l	mg/d			
39B. Naphthalene (91-20-3)			X	< 0.010	< 0.2						mg/l	mg/d			
40B. Nitrobenzene (98-95-3)			X	< 0.010	< 0.2						mg/l	mg/d			
41B. N-Nitrosodimethylamine (62-75-9)			X	< 0.010	< 0.2						mg/l	mg/d			
42B. N-Nitrosodi-N-Propylamine (621-64-7)			X	< 0.010	< 0.2						mg/l	mg/d			

CONTINUED FROM THE FRONT

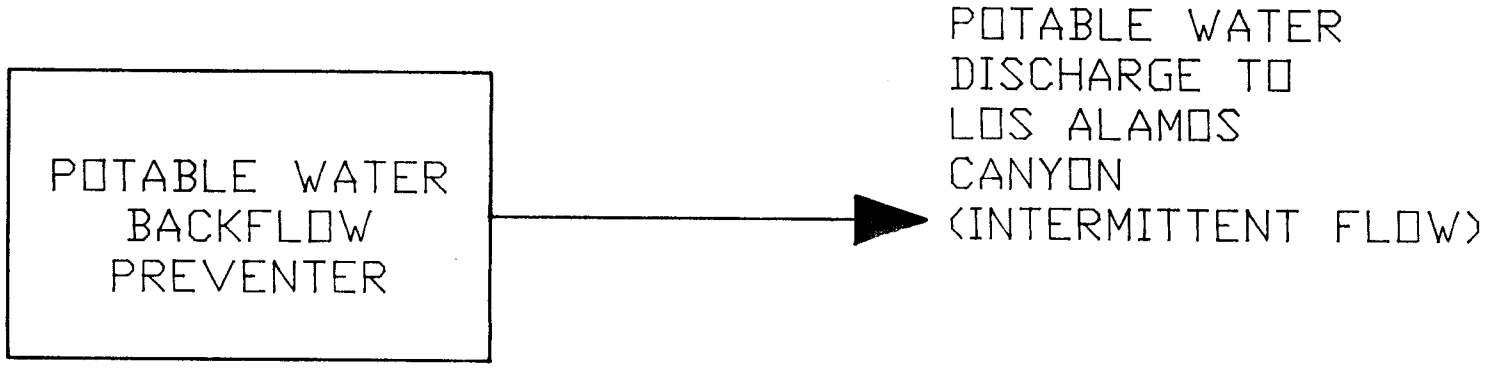
1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	b. 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	< 0.2						mg/l	mg/d			
44B. Phenanthrene (85-01-8)			X	< 0.010	< 0.2						mg/l	mg/d			
45B. Pyrene (129-00-0)			X	< 0.010	< 0.2						mg/l	mg/d			
46B. 1,2,4-Trichlorobenzene (120-82-1)			X	< 0.010	< 0.2						mg/l	mg/d			
GC/MS FRACTION – PESTICIDES															
1P. Aldrin (309-00-2)			X	< 0.06	< 1.1						ug/l	ug/d			
2P. α-BHC (319-84-6)			X	< 0.02	< 0.4						ug/l	ug/d			
3P. β-BHC (319-85-7)			X	< 0.1	< 1.9						ug/l	ug/d			
4P. γ-BHC (58-89-9)			X	< 0.03	< 0.6						ug/l	ug/d			
5P. δ-BHC (319-86-8)			X	< 0.12	< 2.3						ug/l	ug/d			
6P. Chlordane (57-74-9)			X	< 0.25	< 4.7						ug/l	ug/d			
7P. 4,4'-DDT (50-29-3)			X	< 0.06	< 1.1						ug/l	ug/d			
8P. 4,4'-DDE (72-55-9)			X	< 0.08	< 1.5						ug/l	ug/d			
9P. 4,4'-DDD (72-54-8)			X	< 0.08	< 1.5						ug/l	ug/d			
10P. Dieldrin (60-57-1)			X	< 0.08	< 1.5						ug/l	ug/d			
11P. α-Endosulfan (115-29-7)			X	< 0.05	< 0.9						ug/l	ug/d			
12P. β-Endosulfan (115-29-7)			X	< 0.08	< 1.5						ug/l	ug/d			
13P. Endosulfan Sulfate (1031-07-8)			X	< 0.09	< 1.7						ug/l	ug/d			
14P. Endrin (72-20-8)			X	< 0.06	< 1.1						ug/l	ug/d			
15P. Endrin Aldehyde (7421-93-4)			X	< 0.62	< 11.7						ug/l	ug/d			
16P. Heptachlor (76-44-8)			X	< 0.3	< 5.7						ug/l	ug/d			

CONTINUED FROM PAGE V-8

EPA I.D. NUMBER (copy from Item 1 of Form 1)	OUTFALL NUMBER
NM0890010515	04A186

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	< 0.04	< 0.8						ug/l	ug/d			
18P. PCB-1242 (53469-21-9)			X	< 0.68	< 12.9						ug/l	ug/d			
19P. PCB-1254 (11097-69-1)			X	< 0.68	< 12.9						ug/l	ug/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 (11098-82-5)			X	< 0.68	< 12.9						ug/l	ug/d			
24P. PCB-1016 (12674-11-2)			X	N.D.											
25P. Toxaphene (8001-35-2)			X	< 2.5	< 47.3						ug/l	ug/d			



OUTFALL 04A182 FLOW DIAGRAM

Please type or print in the unshaded areas only

EPA ID Number (copy from Item 1 of Form 1)
NM0890010515

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

Form 2D NPDES

EPA

New Sources and New Dischargers Application for Permit to Discharge Process Wastewater

I. Outfall Location

For each outfall, list the latitude and longitude, and the name of the receiving water.

Outfall Number (list)	Latitude			Longitude			Receiving Water (name)
	Deg	Min	Sec	Deg	Min	Sec	
21-257-	35	52	40	106	16	30	Tributaries To Los Alamos Canyon, an ephemeral tributary
OPN-8							to the Rio Grande.

II. Discharge Date (When do you expect to begin discharging?)

ACTIVE DISCHARGE OBSERVED DURING WASTE STREAM CHARACTERIZATION STUDY.

III. Flows, Sources of Pollution, and Treatment Technologies

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

Outfall Number	1. Operations Contributing Flow (list)	2. Average Flow (include units)	3. Treatment (Description or List Codes from Table 2D-1)
OPN-8	Storm Water and Radioactive Liquid	Intermittent	None
	Waste Tank Containment Drain	(Storm Events)	

B. 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 III-A. 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.

C. Except for storm runoff, leaks, or spills, will any of the discharges described in item III-A be intermittent or seasonal?

☐ Yes *(complete the following table)* ☒ No *(go to item IV)*

Outfall Number	1. Frequency		2. Flow		
	a. Days Per Week *(specify average)*	b. Months Per Year *(specify average)*	a. Maximum Daily Flow Rate *(in mgd)*	b. Maximum Total Volume *(specify with units)*	c. Duration *(in days)*

IV. Production

If there is an applicable production-based effluent guideline or NSPS, for each outfall list the estimated level of production (projection of actual production level, not design), expressed in the terms and units used in the applicable effluent guideline or NSPS, for each of the first 3 years of operation. If production is likely to vary, you may also submit alternative estimates (attach a separate sheet).

Year	a. Quantity Per Day	b. Units of Measure	c. Operation, Product, Material, etc *(specify)*
			N/A

CONTINUE ON NEXT PAGE

CONTINUED FROM THE FRONT	EPA ID Number *(copy from Item 1 of Form 1)*	Outfall Number
	NM0890010515	21-257-OPN-8

V. Effluent Characteristics

A, and B: These items require you to report estimated amounts *(both concentration and mass)* of the pollutants to be discharged from each of your outfalls. Each part of this item addresses a different set of pollutants and should be completed in accordance with the specific instructions for that part. Data for each outfall should be on a separate page. Attach additional sheets of paper if necessary.

General Instructions *(See table 2D-2 for Pollutants)*

Each part of this item requests you to provide an estimated daily maximum and average for certain pollutants and the source of information. Data for all pollutants in Group A, for all outfalls, must be submitted unless waived by the permitting authority. For all outfalls, data for pollutants in Group B should be reported only for pollutants which you believe will be present or are limited directly by an effluent limitations guideline or NSPS or indirectly through limitations on an indicator pollutant.

1. Pollutant	2. Maximum Daily Value *(include units)*	3. Average Daily Value *(include units)*	4. Source *(see instructions)*
N/A			

CONTINUED FROM THE FRONT	EPA ID Number (copy from Item 1 of Form 1) NM0890010515	

C. Use the space below to list any of the pollutants listed in Table 2D-3 of the instructions which you know or have reason to believe will be discharged from any outfall. For every pollutant you list, briefly describe the reasons you believe it will be present.

1. Pollutant	2. Reason for Discharge
N/A	

VI. Engineering Report on Wastewater Treatment

A. If there is any technical evaluation concerning your wastewater treatment, including engineering reports or pilot plant studies, check the appropriate box below.

☐ Report Available ☒ No Report

B. Provide the name and location of any existing plant(s) which, to the best of your knowledge, resembles this production facility with respect to production processes, wastewater constituents, or wastewater treatments.

Name	Location
N/A	

EPA ID Number *(copy from item one of Form 1)*
NM0890010515

VII. Other Information *(Optional)*

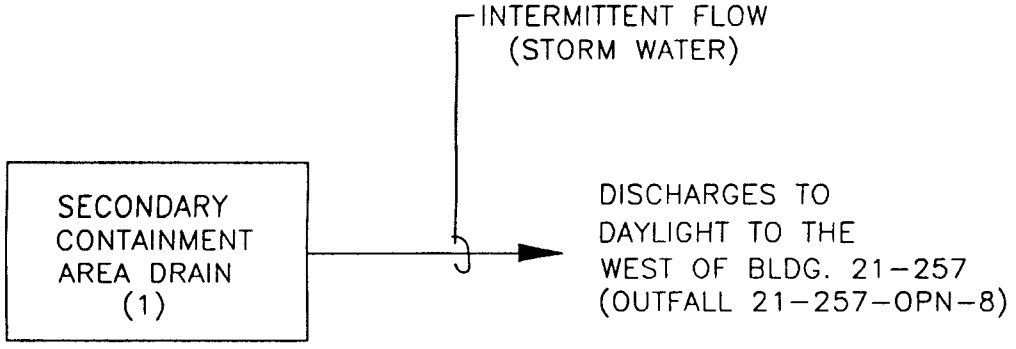
Use the space below to expand upon any of the above questions or to bring to the attention of the reviewer any other information you feel should be considered in establishing permit limitations for the proposed facility. Attach additional sheets if necessary.

VIII. Certification

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

A. Name and Official Title *(type or print)*	B. Phone No.
JOSEPH VOZELLA, ES&H BRANCH CHIEF ALLEN J. TIEDMAN, ASSOC. DIRECTOR FOR OPERATIONS	505-667-5027 505-667-9390
C. Signature	D. Date Signed

*U.S. Government Printing Office : 1986 - 491-191/52940

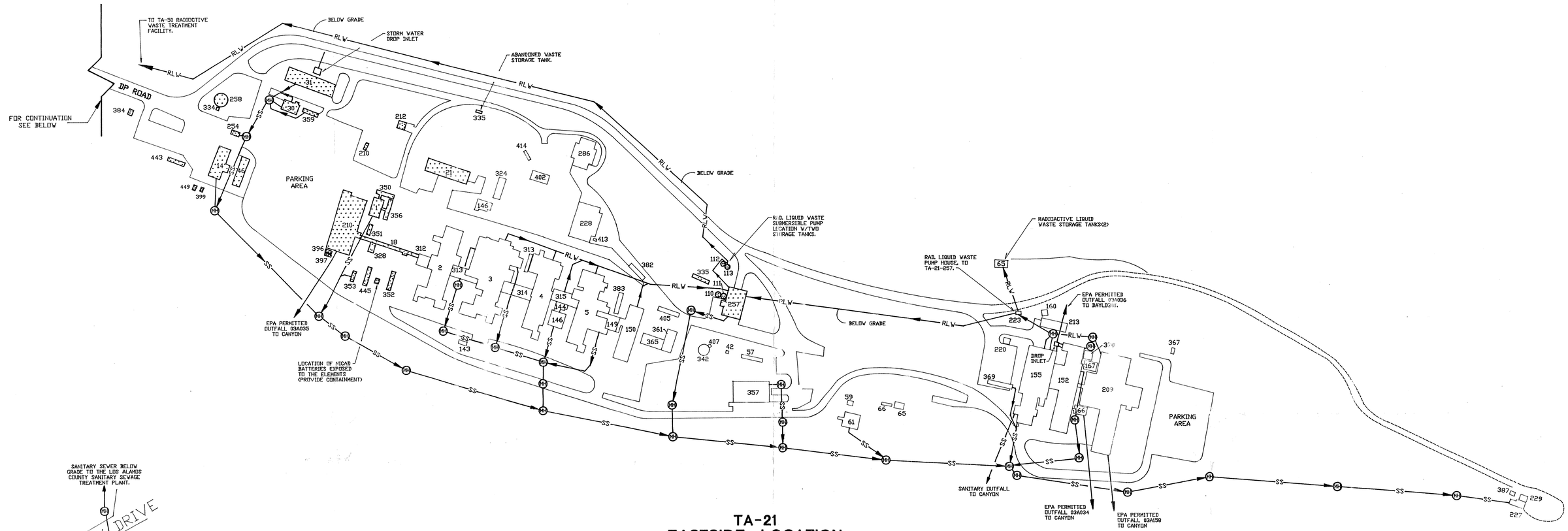


OUTFALL 21-257-OPN-8

- NOT TO SCALE -

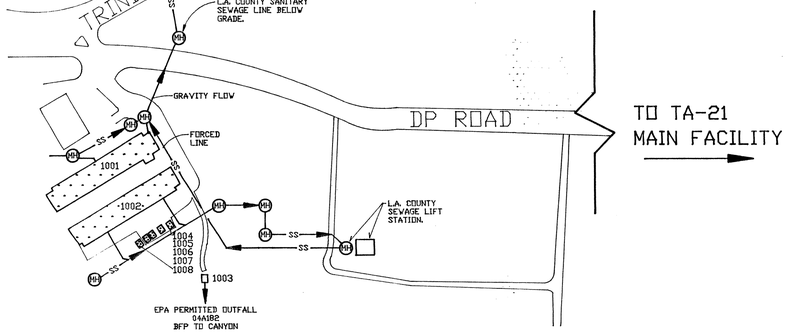
DYE STUDY INFORMATION

BUILDING NUMBER	DRAIN NUMBER	DID DYE REACH EXPECTED DESTINATION?	COMMENTS
21-1	1TL1	YES	NONE
21-14	1SD1	YES	NONE
21-14	1TD5	YES	NONE
21-14	1TL1	YES	NONE
21-14	1TL5	YES	NONE
21-21	1FD21	NO	PIPE TO S.S.
21-30	1SD1	YES	NONE
21-30	1TL1	YES	NONE
21-31	BFD1	NO	RE-PIPE INFLUENT/PLUG DRAIN
21-31	1EW1	YES	NONE
21-31	1FS1	YES	NONE
21-31	1SD1	YES	NONE
21-31	1SD3	YES	ELIMINATE SINK & PLUG DRAIN
21-31	1TL1	YES	NONE
21-210	BAD1	NO	PIPE TO STORM SEWER
21-210	BFD2	YES	NONE (OUTFALL 03A035)
21-210	BSP1	YES	NONE (OUTFALL 03A035)
21-210	1FD13	NO	POSSIBLY RAD. CONTAMINATED
21-210	1LV1	YES	NONE
21-210	1SD1	YES	NONE
21-210	1SD6	YES	NONE
21-210	1TL1	YES	NONE
21-210	1TL3	NO	POSSIBLY RAD. CONTAMINATED
21-210	1TL6	NO	POSSIBLY RAD. CONTAMINATED
21-210	2TL2	YES	NONE
21-254	1TL1	YES	NONE
21-110	1AD3	NO	DRAINS TO DAYLIGHT/PLUG
21-257	1FD2	YES	NONE
21-257	1TL1	YES	NONE
21-257	1WF1	YES	NONE
21-353	1TL1	YES	NONE
21-359	1SD1	YES	NONE
21-1001	1SD1	YES	NONE
21-1001	1SD2	YES	NONE
21-1001	1TL1	NO	UNKNOWN DESTINATION (VERIF
21-1001	1TL3	YES	NONE
21-1002	1TL1	YES	NONE
21-1002	1TL2	YES	NONE
21-1002	1TL3	YES	NONE
21-1003	1BFP1	YES	PERMITTED OUTFALL 04A182



TA-21 EASTSIDE LOCATION

NOT TO SCALE



TA-21 WESTSIDE LOCATION

NOT TO SCALE

SYMBOL LEGEND	
MH	MANHOLE
—RLW—	RADIOACTIVE LIQUID WASTE
—SS—	SANITARY SEWER PIPE

N

NOTE:

THIS SITE DRAIN SCHEMATIC WAS DERIVED FROM L.A.N.L. DRAWINGS C-51441, F-5113 SHTS. 1-5, CONVERSATIONS WITH L.A.N.L. PERSONEL AND SITE VISITS.

SANTA FE ENGINEERING, LTD.

TA-21 SITE PLAN

DRAWN	D.A.H.
DESIGN	M.E.W.
CHECKED	S.C.D.
RELEASED	
DATE	10-8-93

SUBMITTED | RECOMMENDED | APPROVED

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

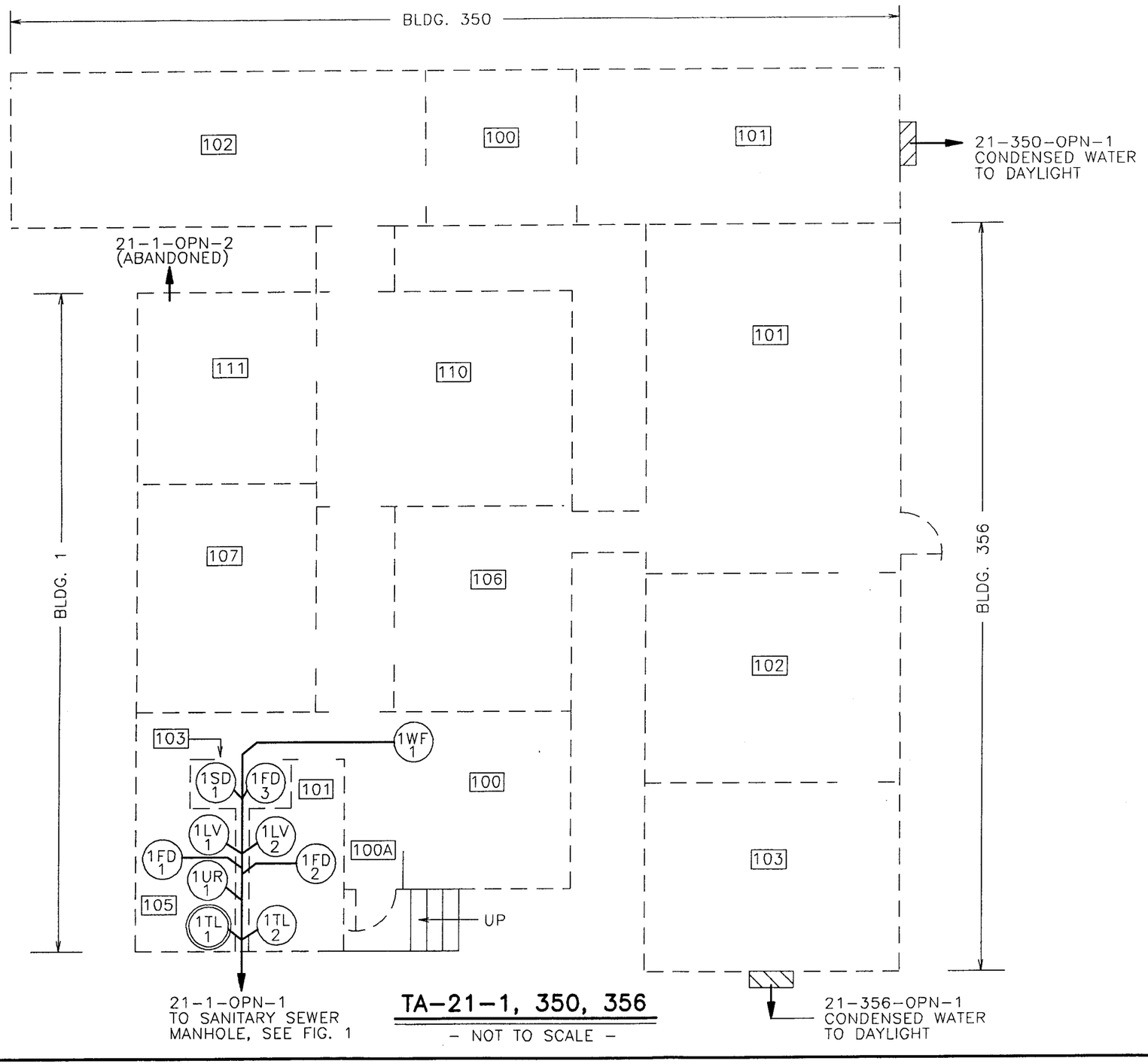
SHEET 1 OF 1

CLASSIFICATION | REVIEWER | DATE

REQUESTING DIVISION | LAB JOB NO. 11056-79 | DRAWING NO. FIGURE 1 | REV.

REQUESTING GROUP EM-8

15333-A



TA-21-1, 350, 356

– NOT TO SCALE –

NOTE:

THIS DRAIN SCHEMATIC WAS DERIVED FROM L.A.N.L. DRAWINGS C-27059, C-27062, C-27063 AND SITE VISITS.

SYMBOL LEGEND	
FD	FLOOR DRAIN
LV	LAVATORY
SD	SINK DRAIN
SH	SHOWER
TL	TOILET
UR	URINAL
WF	WATER FOUNTAIN

DYE TESTED DRAIN

SANTA FE ENGINEERING, LTD.

TA-21-1, 350, 356
DRAIN SCHEMATIC

DRAWN	G.S.
DESIGN	M.E.W.
CHECKED	S.C.D.
DATE	10-8-93

SUBMITTED | RECOMMENDED | APPROVED

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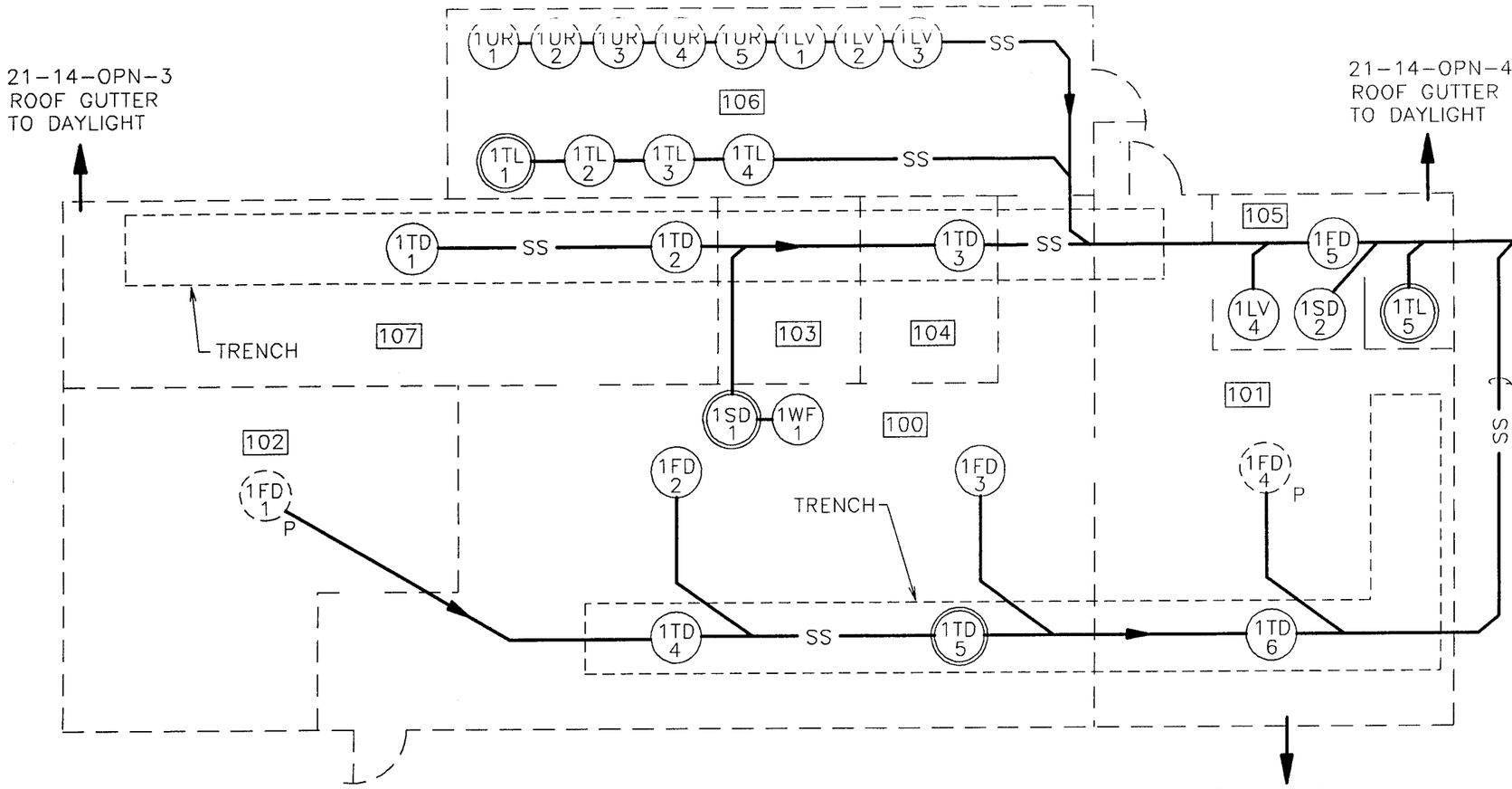
SHEET 1 OF 1

CLASSIFICATION | REVIEWER | DATE

REQUESTING DIVISION | LAB JOB NO. 11056-79 | DRAWING NO. FIGURE 2 | REV.

REQUESTING GROUP EM-8



TA-21-14

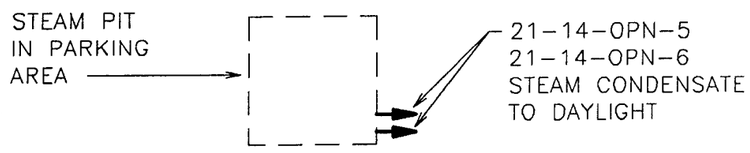
– NOT TO SCALE –

SYMBOL LEGEND	
FD	FLOOR DRAIN
LV	LAVATORY
SD	SINK DRAIN
TD	TRENCH DRAIN
TL	TOILET
UR	URINAL
WF	WATER FOUNTAIN

DYE TESTED DRAIN

PLUGGED DRAIN

P



NOTE:

THIS DRAIN SCHEMATIC WAS DERIVED FROM L.A.N.L. DWG. C-2367, C-2372 AND SITE VISITS.

SANTA FE ENGINEERING, LTD.

TA-21-14
DRAIN SCHEMATIC

DRAWN	G.S.
DESIGN	M.E.W.
CHECKED	S.C.D.
DATE	10-8-93

SUBMITTED | RECOMMENDED | APPROVED

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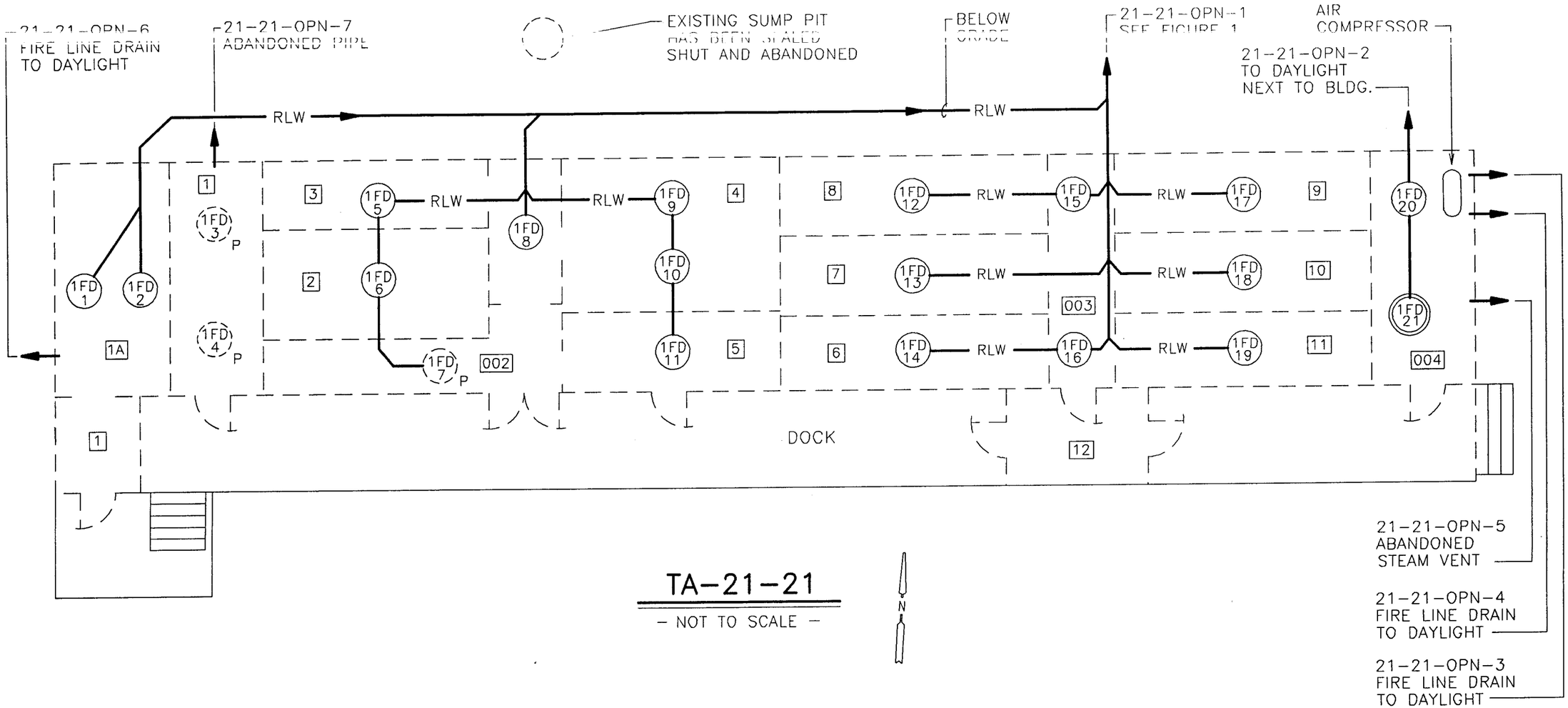
SHEET 1 OF 1

CLASSIFICATION | REVIEWER | DATE

REQUESTING DIVISION | LAB JOB NO. 11056-79 | DRAWING NO. FIGURE 3 | REV.

REQUESTING GROUP EM-8



TA-21-21

– NOT TO SCALE –

N

SYMBOL LEGEND	
FD	FLOOR DRAIN
—RLW—	RADIOACTIVE LIQUID WASTE
P	PLUGGED DRAIN
	DYE TESTED DRAIN

NOTE:

THIS DRAIN SCHEMATIC WAS DERIVED FOR L.A.N.L. DRAWINGS C-2353, C-2355, C2359, C-8411, C-23351, C23358, C-41131, PL-1921, R-2377, R-2936, AND SITE VISITS.

SANTA FE ENGINEERING, LTD.

TA-21-21
DRAIN SCHEMATIC

DRAWN	G.S.
DESIGN	D.R.S.
CHECKED	S.C.D.
DATE	10-8-93

SUBMITTED | RECOMMENDED | APPROVED

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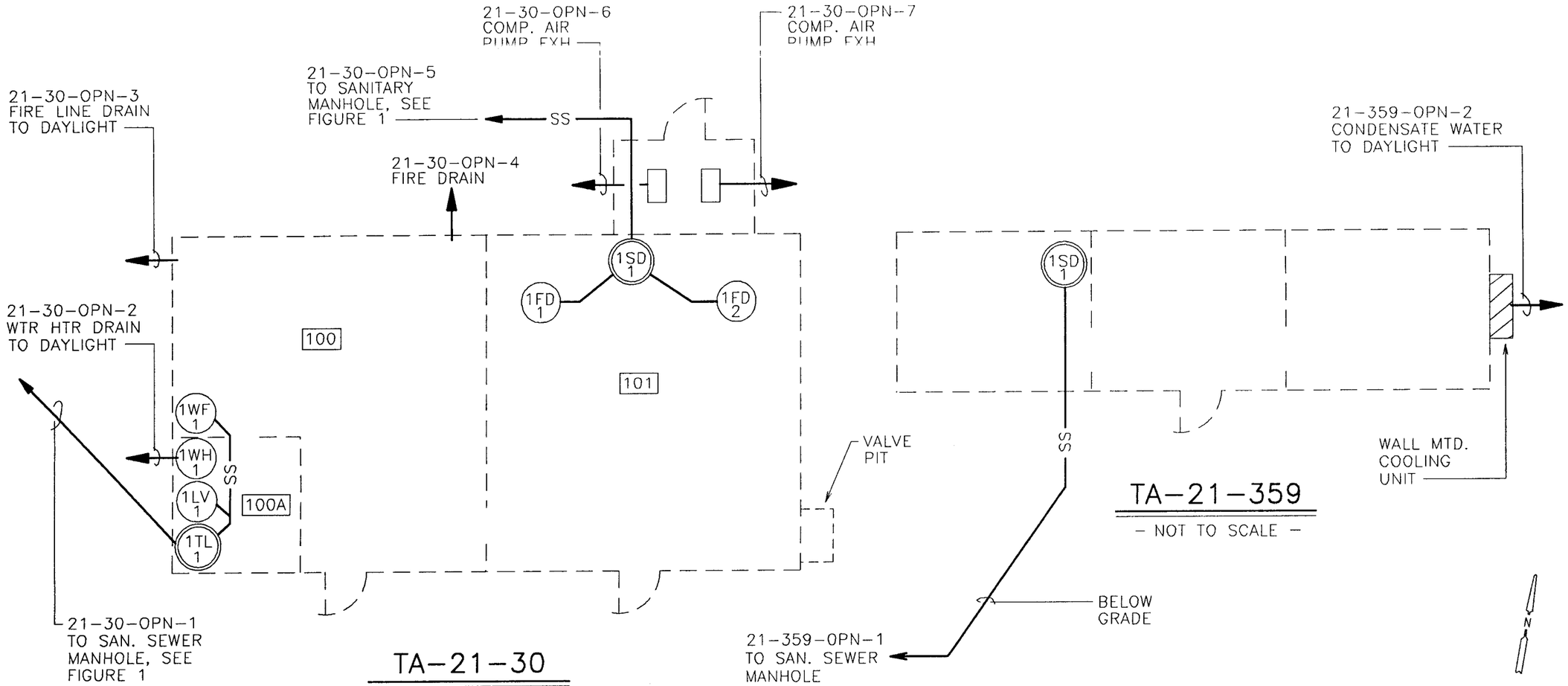
SHEET 1 OF 1

CLASSIFICATION | REVIEWER | DATE

REQUESTING DIVISION | LAB JOB NO. 11056-78 | DRAWING NO. FIGURE 4 | REV.

REQUESTING GROUP EM-8



SYMBOL LEGEND	
FD	FLOOR DRAIN
LV	LAVATORY
SD	SINK DRAIN
— SS —	SANITARY SEWER
TL	TOILET
WF	WATER FOUNTAIN
WH	WATER HEATER

◯ DYE TESTED DRAIN

NOTE:

THIS DRAIN SCHEMATIC WAS DERIVED FROM SITE VISITS.

SANTA FE ENGINEERING, LTD.

TA-21-30 & TA-21-359
DRAIN SCHEMATIC

DRAWN	G.S.
DESIGN	M.E.W.
CHECKED	S.C.D.
DATE	10-8-93

SUBMITTED | RECOMMENDED | APPROVED

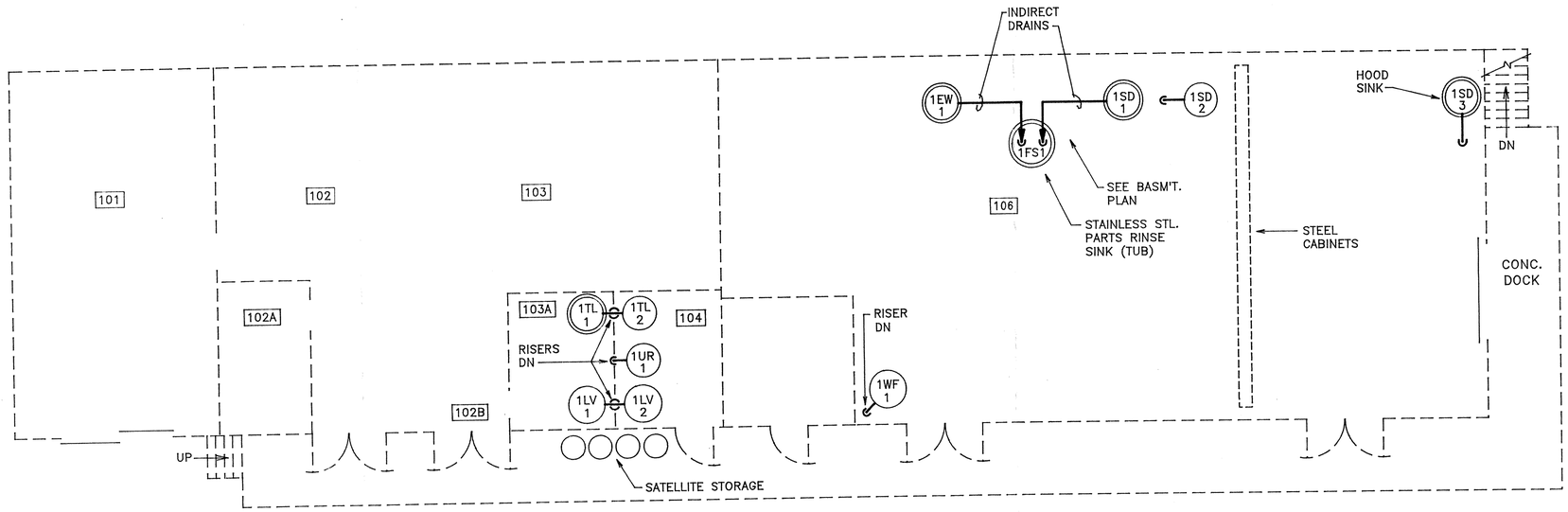
Los Alamos National Laboratory
Los Alamos, New Mexico 87545

SHEET 1 OF 1

CLASSIFICATION | REVIEWER | DATE

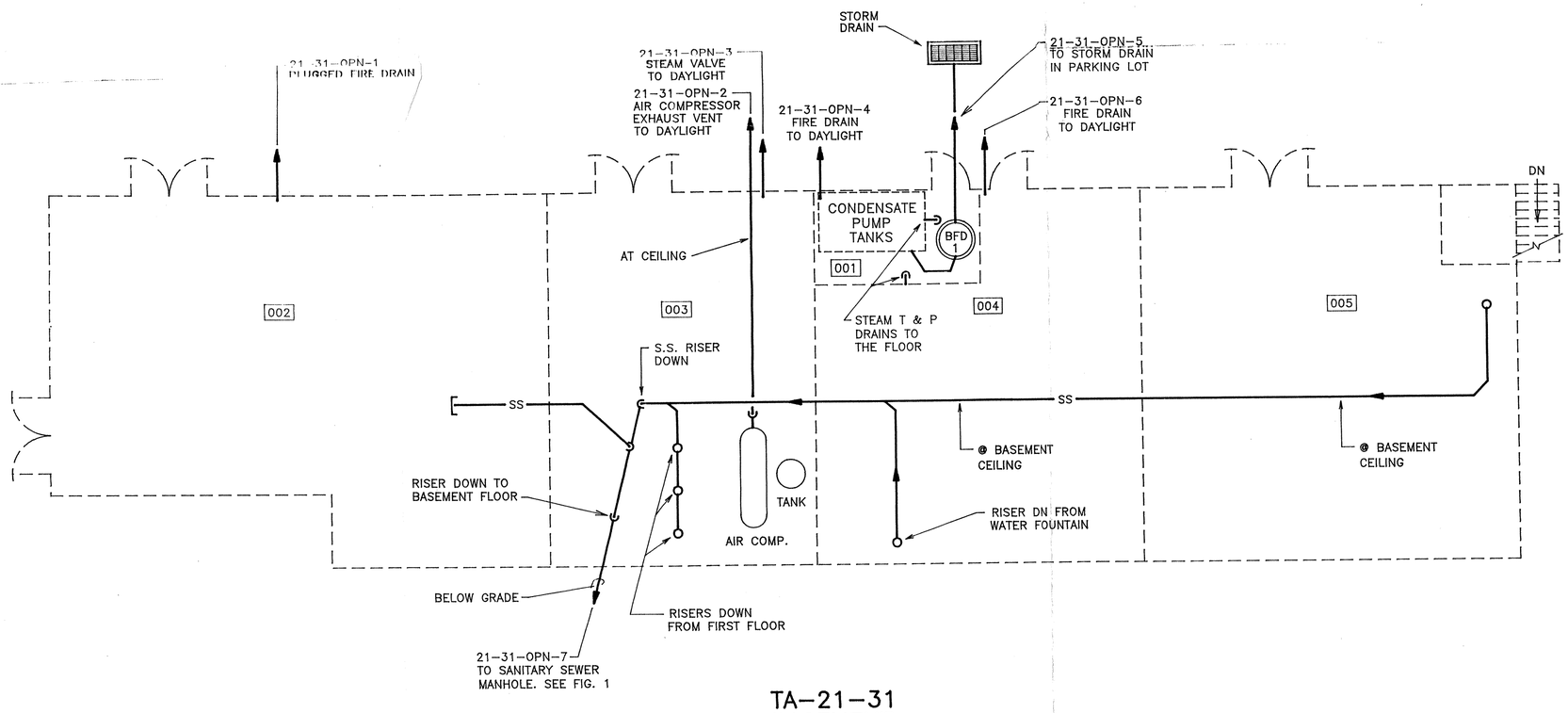
REQUESTING DIVISION | LAB JOB NO. 11056-79 | DRAWING NO. FIGURE 5 | REV.

REQUESTING GROUP EM-8



TA-21-31
FIRST FLOOR

– NOT TO SCALE –



TA-21-31
BASEMENT

– NOT TO SCALE –

NOTE:

THIS DRAIN SCHEMATIC WAS DERIVED FROM L.A.N.L. DRAWINGS C-2396, C-2397, C-43463, R-2939, AND SITE VISITS.

SYMBOL LEGEND	
EW	EYE WASH
FD	FLOOR DRAIN
LV	LAVATORY
SD	SINK DRAIN
— SS —	SANITARY SEWER
TL	TOILET
UR	URINAL
WF	WATER FOUNTAIN

◯ DYE TESTED DRAIN

N

15333-B

SANTA FE ENGINEERING, LTD.

TA-21-31 BASEMENT & 1ST. FLOOR DRAIN SCHEMATIC

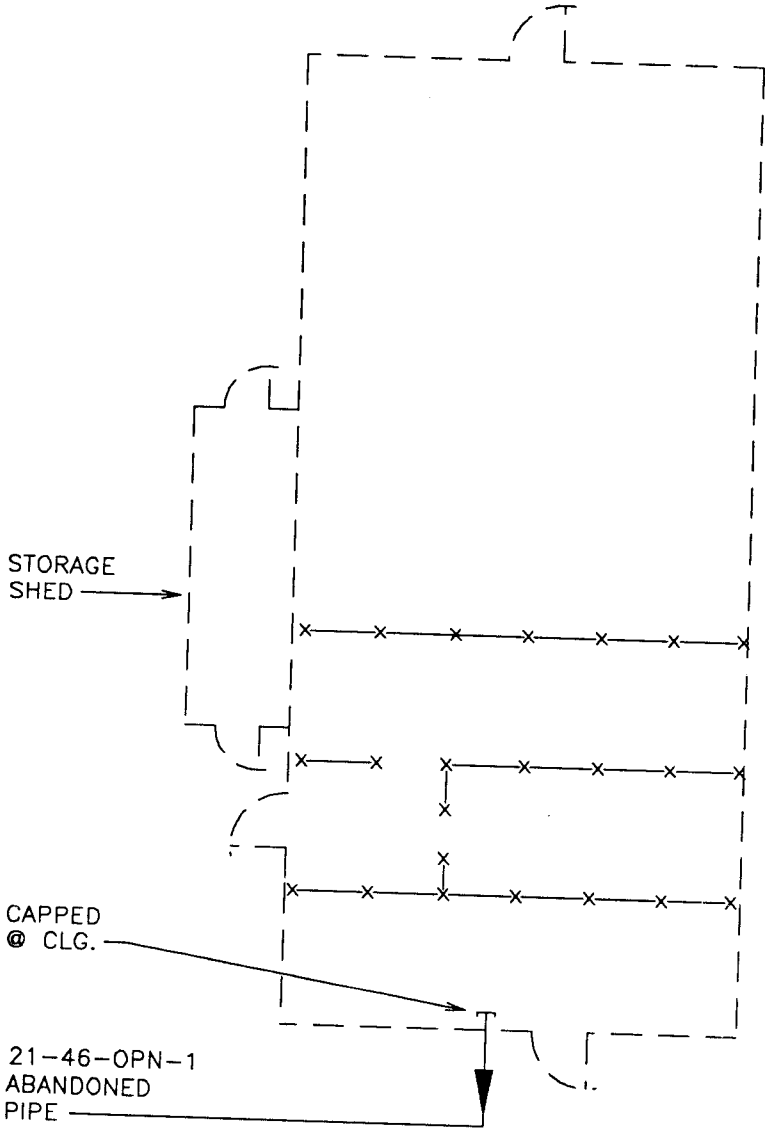
DRAWN	G.S.
DESIGN	M.E.W.
CHECKED	S.C.D.
DATE	10-8-93

SUBMITTED | RECOMMENDED | APPROVED

Los Alamos — Los Alamos National Laboratory, Los Alamos, New Mexico 87545 — SHEET 1 OF 1

CLASSIFICATION | REVIEWER | DATE

REQUESTING DIVISION: EM-8 | LAB JOB NO.: 11056-79 | DRAWING NO.: FIGURE 6 | REV.



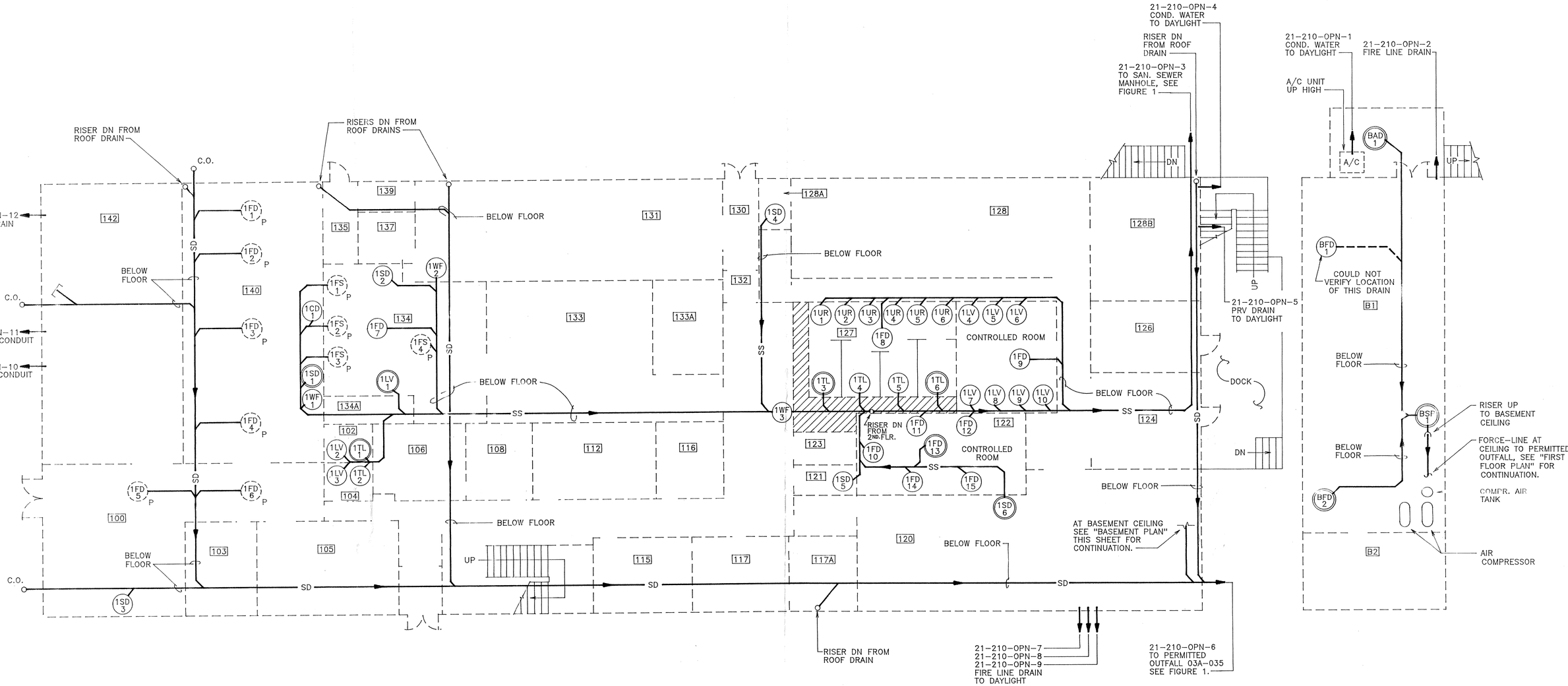
TA-21-46

- NOT TO SCALE -

NOTE:

THIS DRAIN SCHEMATIC WAS DERIVED FROM A SITE VISIT

SANTA FE ENGINEERING, LTD.		
TA-21-46 DRAIN SCHEMATIC	DRAWN	G.S.
	DESIGN	M.E.W.
	CHECKED	S.C.B.
	DATE	10-8-93
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	11056-79	FIGURE 7



TA-21-210

-NOT TO SCALE-

SYMBOL LEGEND	
A/C	AIR CONDITIONER
AD	AREA DRAIN
CD	CUP DRAIN
FD	FLOOR DRAIN
FS	FLOOR SINK
LV	LAVATORY
SD	SINK DRAIN
— SD —	STORM SEWER
SP	SUMP PUMP
— SS —	SANITARY SEWER
TL	TOILET
UR	URINAL
WF	WATER FOUNTAIN

DYE TESTED DRAIN

PLUGGED DRAIN

NOTE:

THIS DRAIN SCHEMATIC WAS DERIVED FROM L.A.N.L. DRAWINGS C-27000, C27002, C-27008, C-27009, C-27011, C-27012, PL-1194, R-2580, R-2581 AND SITE VISITS.

15333-C

SANTA FE ENGINEERING, LTD.

TA-21-210
FIRST FLOOR PLAN
DRAIN SCHEMATIC

DRAWN	S.S.
DESIGN	M.E.W.
CHECKED	S.C.D.
DATE	10-8-93

SUBMITTED | RECOMMENDED | APPROVED

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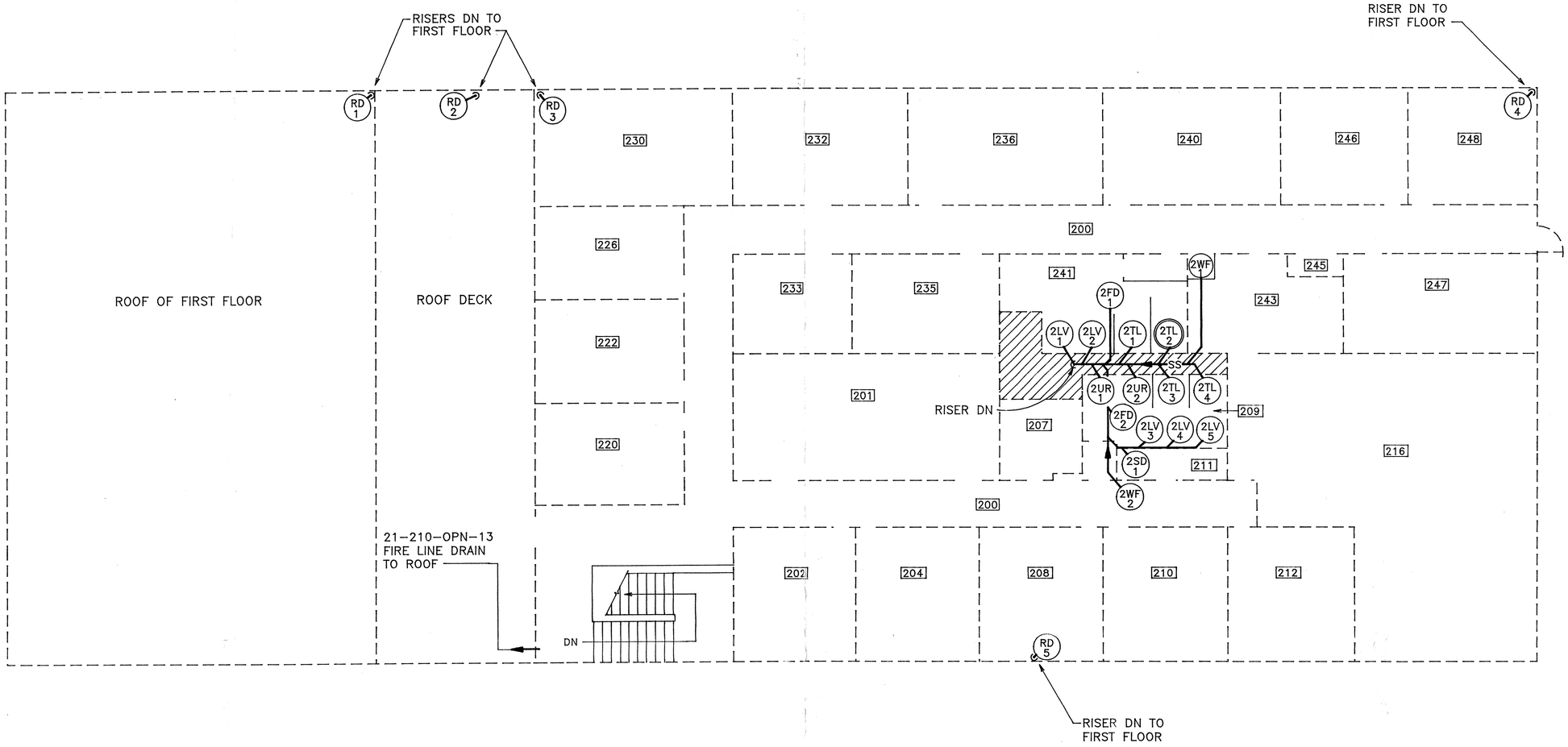
SHEET 1 OF 2

CLASSIFICATION | REVIEWER | DATE

REQUESTING DIVISION | LAB JOB NO. 11056-79 | DRAWING NO. FIGURE 8 | REV.

REQUESTING GROUP EM-8



TA-21-210 SECOND FLOOR

-NOT TO SCALE-

SYMBOL LEGEND	
FD	FLOOR DRAIN
LV	LAVATORY
SD	SINK DRAIN
— SS —	SANITARY SEWER
TL	TOILET
UR	URINAL
WF	WATER FOUNTAIN

DYE TESTED DRAIN

NOTE:

THS DRAIN SCHEMATIC WAS DERIVED FROM L.A.N.L. DRAWINGS C-27000, C-27002, C-27008, C-27009, C-27011, C27012, PL-1194, R-2580, R-2581 AND SITE VISITS.

15333-D

SANTA FE ENGINEERING, LTD.

TA-21-210 SECOND FLOOR PLAN DRAIN SCHEMATIC

DRAWN	G.S.
DESIGN	M.E.W.
CHECKED	S.C.D.
DATE	10-8-93

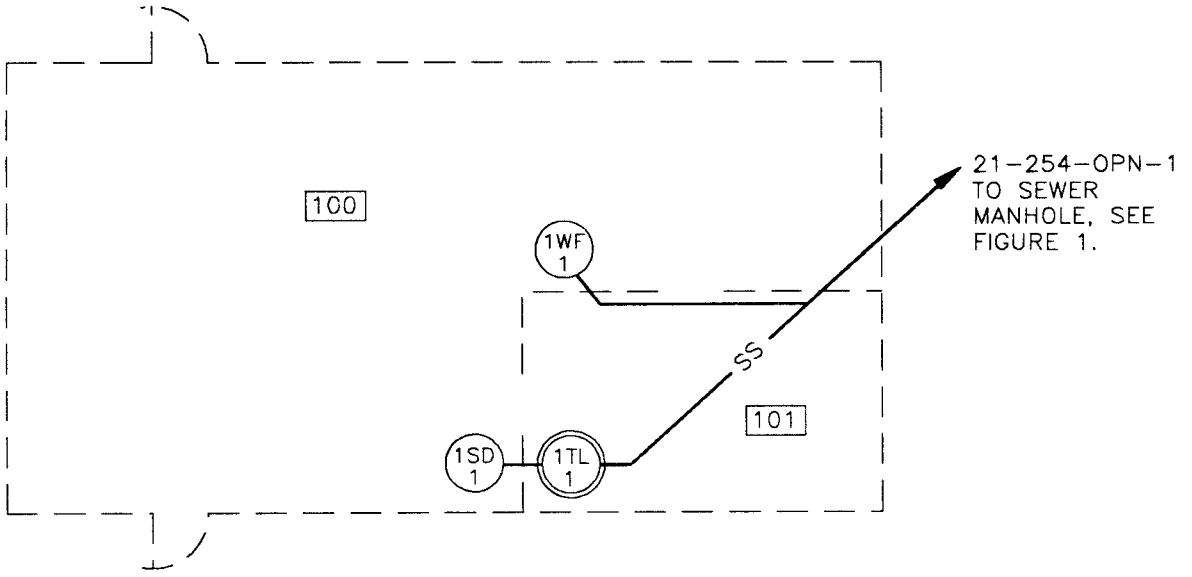
SUBMITTED | RECOMMENDED | APPROVED

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	11056-79	FIGURE 9	



TA-21-254

– NOT TO SCALE –

SYMBOL LEGEND	
SD	SINK DRAIN
TL	TOILET
WF	WATER FOUNTAIN

DYE TESTED DRAIN

NOTE:

THIS DRAIN SCHEMATIC WAS DERIVED FROM L.A.N.L. DRAWINGS C-32034, C-32036, C-32037 AND SITE VISITS.

SANTA FE ENGINEERING, LTD.

TA-21-254 GUARD HOUSE DRAIN SCHEMATIC

DRAWN	G.S.
DESIGN	M.E.W.
CHECKED	S.C.D.
DATE	10-8-93

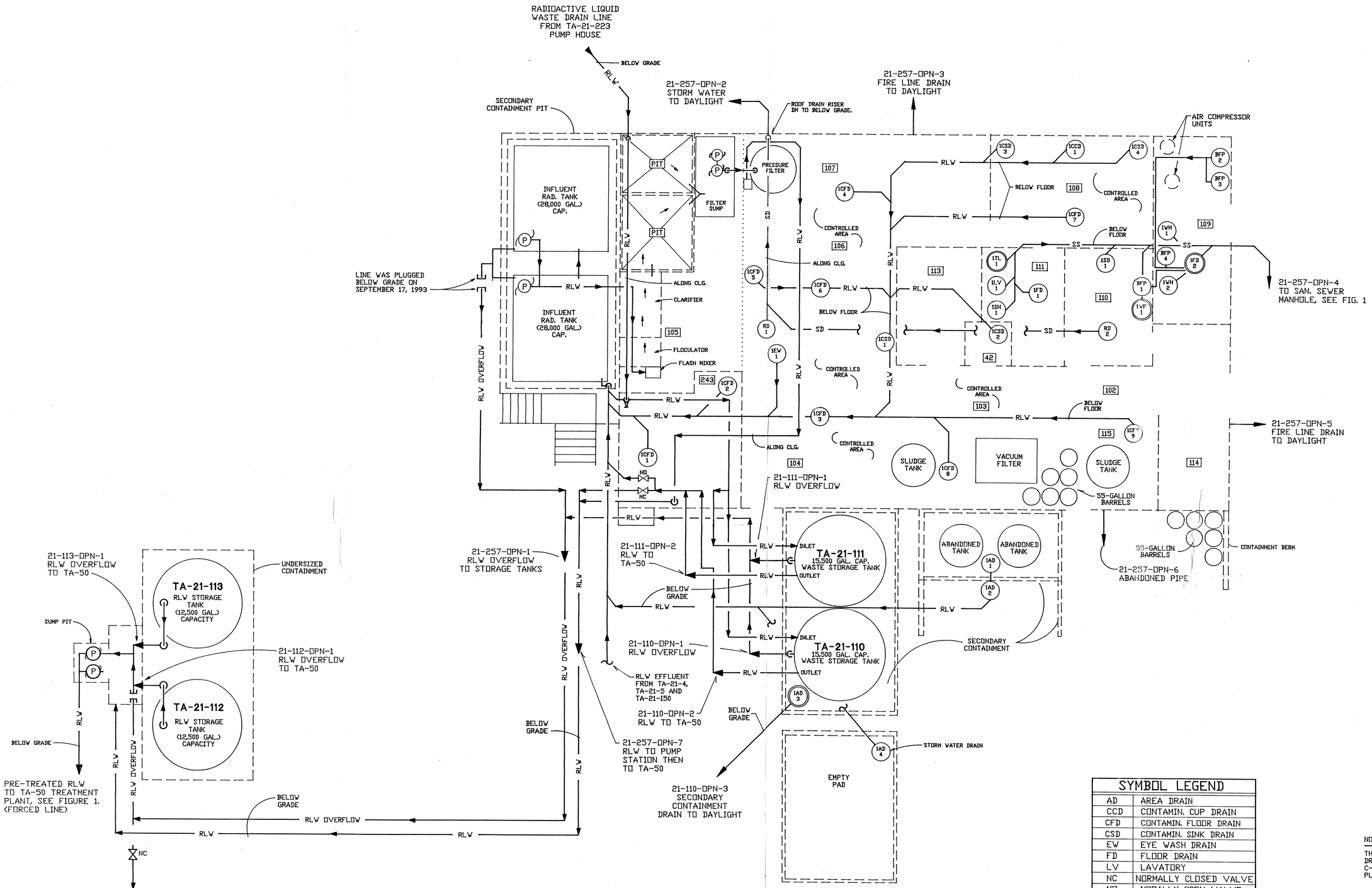
SUBMITTED | RECOMMENDED | APPROVED

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	11056-79	FIGURE 10	



SYMBOL LEGEND	
AD	AREA DRAIN
CCD	CONTAMIN. CUP DRAIN
CFD	CONTAMIN. FLOOR DRAIN
CSD	CONTAMIN. SINK DRAIN
EW	EYE WASH DRAIN
FD	FLOOR DRAIN
LV	LAVATORY
NC	NORMALLY CLOSED VALVE
NO	NORALLY OPEN VALVE
RD	ROOF DRAIN
—RLW—	RAD. LIQUID WASTE PIPE
SH	SHOWER
SD	SINK DRAIN
—SD—	STORM DRAIN PIPE
—SS—	SANITARY SEWER PIPE
TL	TOILET
UR	URNIAL
WF	WATER FOUNTAIN

DYE TESTED DRAIN

SUBMERSIBLE PUMP

15333-E

NOTE:

THIS DRAIN SCHEMATIC WAS DERIVED FROM L.A.N.L. DRAWINGS C-36381, C-36383, C-36384, C-36385, C-36390, C-36395, C-38166, C-38670, C-43412, PL-1636, R-1484 AND SITE VISITS.

SANTA FE ENGINEERING, LTD.

TA21-110,111,112, 113 and 257 DRAIN SCHEMATIC

DRAWN	D.A.H.
DESIGN	M.E.W.
CHECKED	S.C.D.
DATE	10-8-93

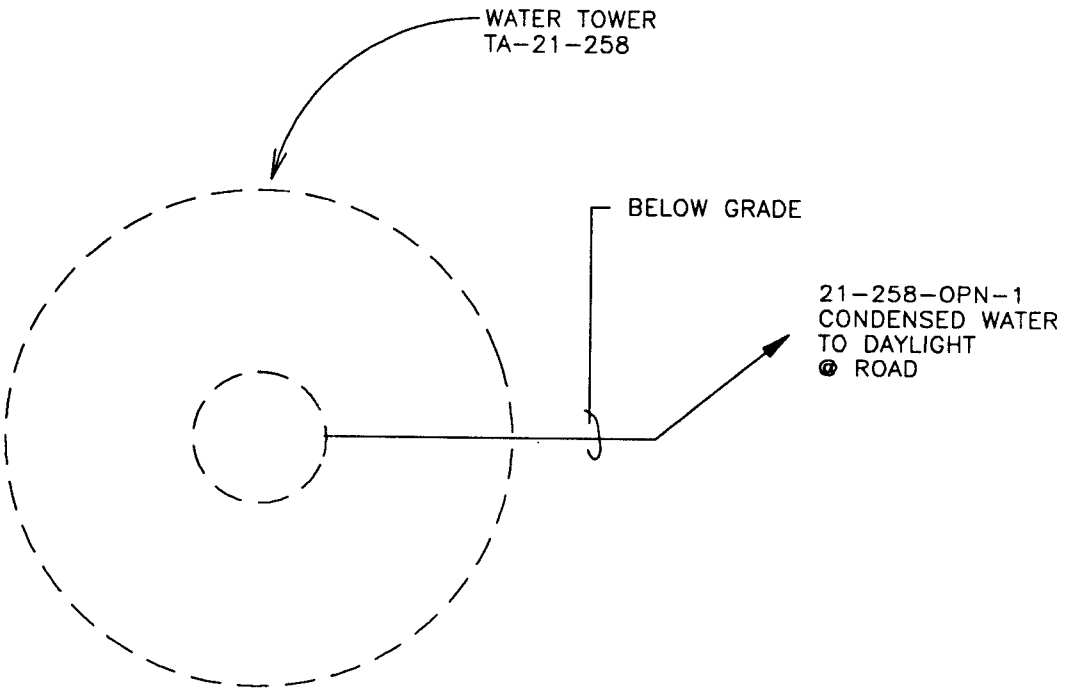
SUBMITTED | RECOMMENDED | APPROVED

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. 11056-79 | DRAWING NO. FIGURE 11 | REV.



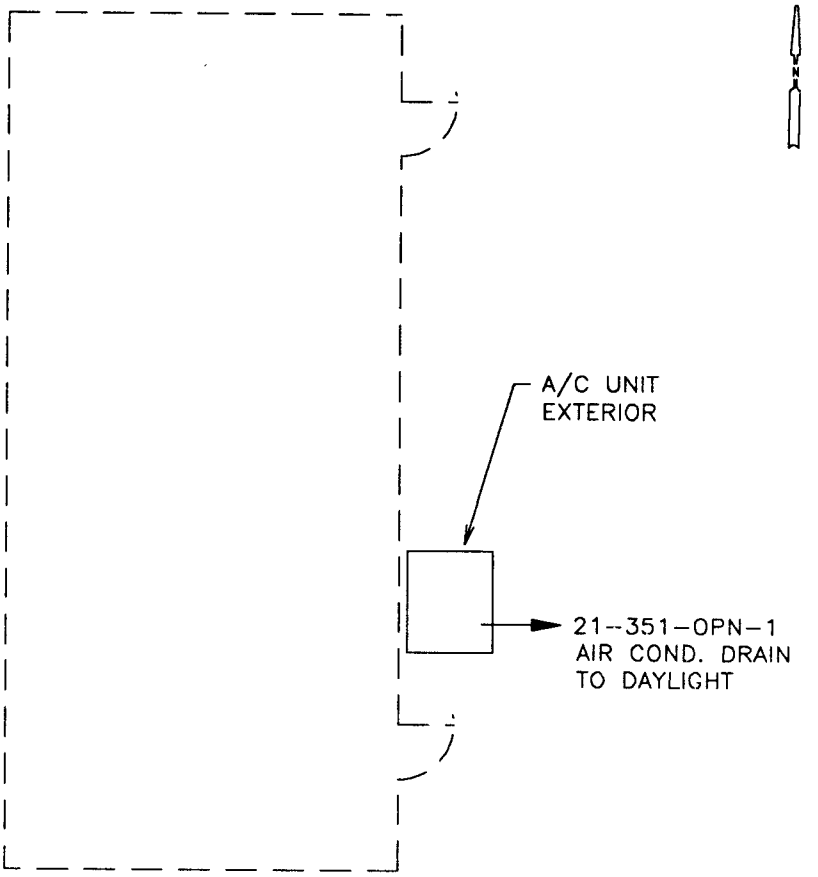
TA-21-258

– NOT TO SCALE –

NOTE:

THIS DRAIN SCHEMATIC WAS DERIVED FROM SITE VISITS.

SANTA FE ENGINEERING, LTD.		
TA-21-258 DRAIN SCHEMATIC	DRAWN	G.S.
	DESIGN	M.E.W.
	CHECKED	S.C.D.
	DATE	10-8-93
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	11056-79	FIGURE 12



TA-21-351

- NOT TO SCALE -

SYMBOL LEGEND	
A/C	AIR CONDITIONER

NOTE: THIS DRAIN SCHEMATIC WAS DERIVED FROM A SITE VISIT

SANTA FE ENGINEERING, LTD.

TA-21-351
OFFICE TRAILER
DRAIN SCHEMATIC

DRAWN	G.S.
DESIGN	M.E.W.
CHECKED	S.C.D.
DATE	10-8-93

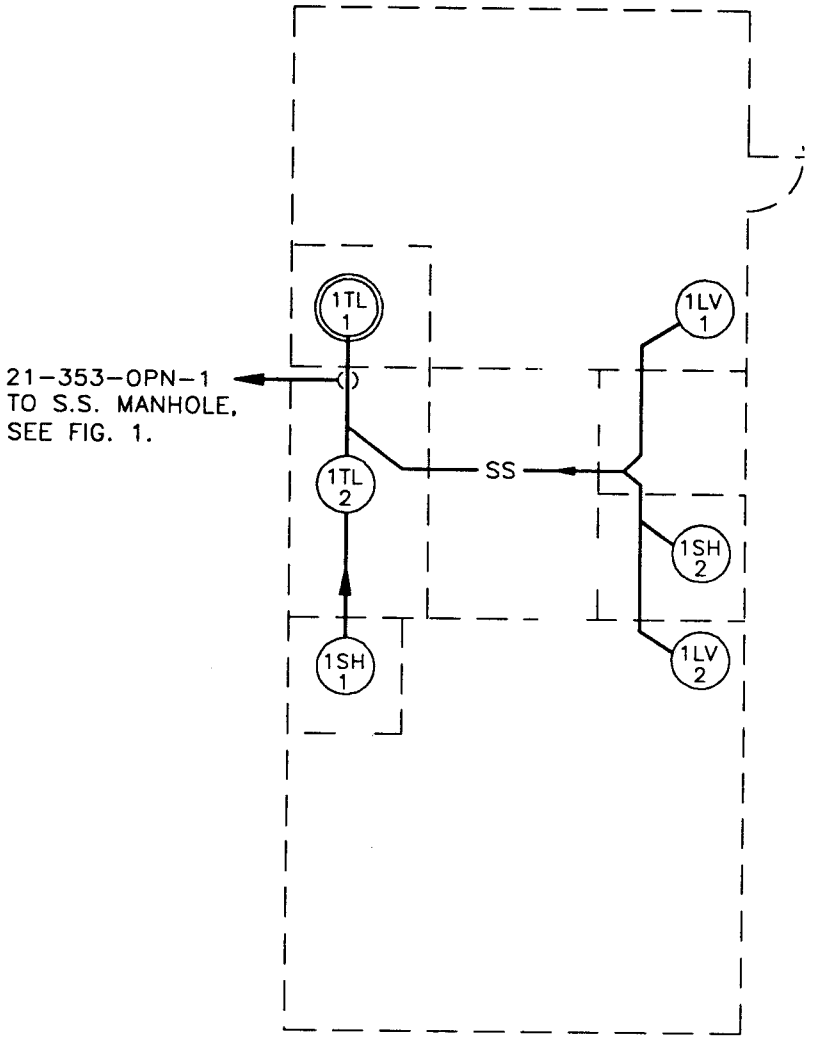
SUBMITTED | RECOMMENDED | APPROVED

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	11056-79	FIGURE 13	



TA-21-353

– NOT TO SCALE –

SYMBOL LEGEND	
LV	LAVATORY
SH	SHOWER
TL	TOILET

DYE TESTED DRAIN

NOTE: THIS DRAIN SCHEMATIC WAS DERIVED FROM A SITE VISIT

SANTA FE ENGINEERING, LTD.

TA-21-353
DRAIN SCHEMATIC

DRAWN	G.S.
DESIGN	M.E.W.
CHECKED	S.C.D.
DATE	10-8-93

SUBMITTED | RECOMMENDED | APPROVED

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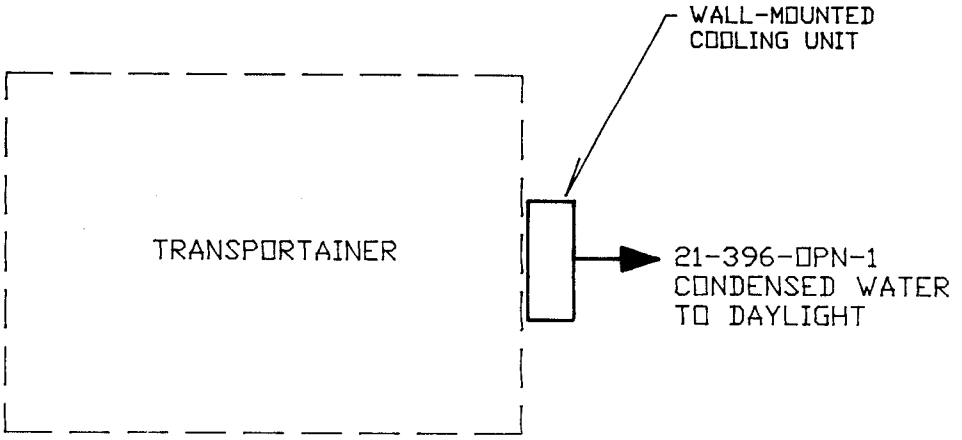
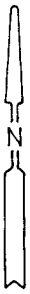
REQUESTING DIVISION	LAB JOB NO.	DRAWING NO.	REV.
REQUESTING GROUP EM-8	11056-79	FIGURE 14	





NOTE:

THIS DRAIN SCHEMATIC WAS DERIVED FROM SITE VISITS.

SANTA FE ENGINEERING, LTD.

TA21-396 DRAIN SCHEMATIC

DRAWN	M.E.W.
DESIGN	M.E.W.
CHECKED	S.C.D.
DATE	10-8-93

SUBMITTED	RECOMMENDED	APPROVED

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

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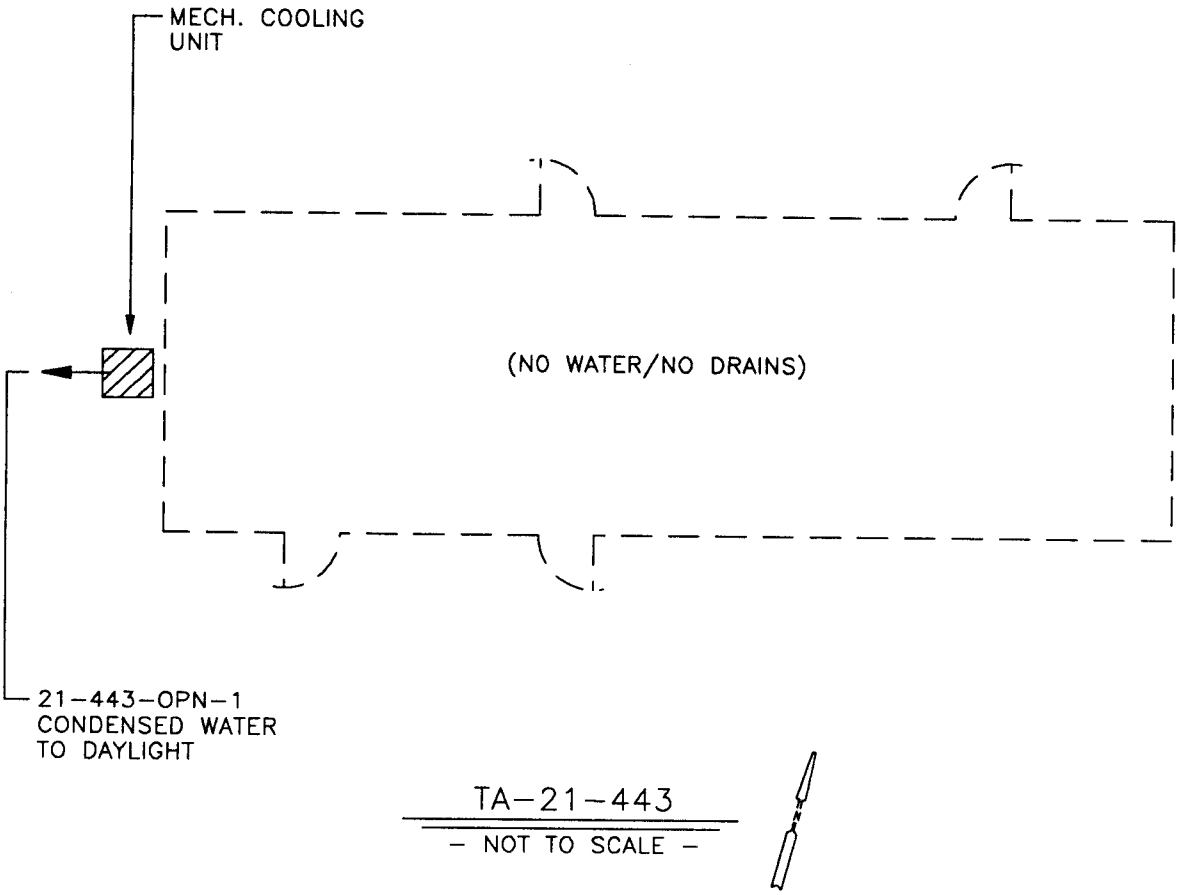
CLASSIFICATION | REVIEWER | DATE

REQUESTING DIVISION	LAB JOB NO.	DRAWING NO.	REV.
REQUESTING GROUP EM-8	11056-79	FIGURE 15	



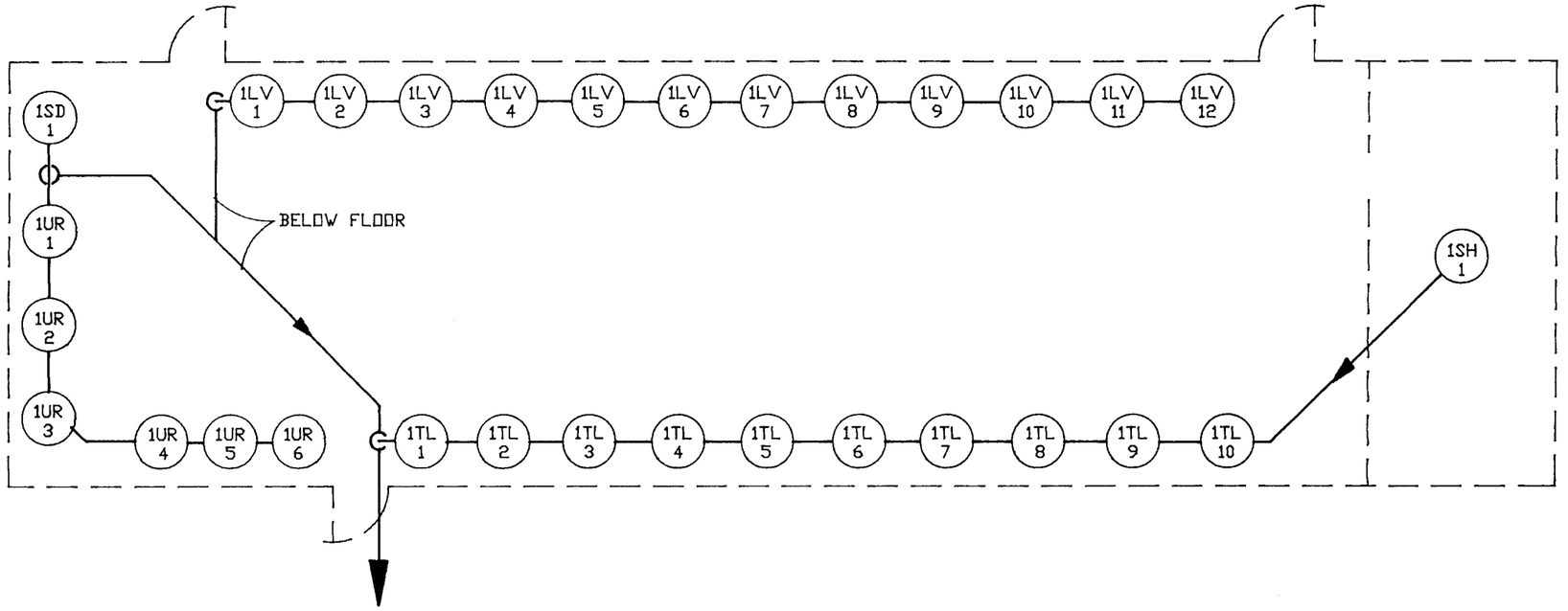
TA-21-443

- NOT TO SCALE -

NOTE:

THIS DRAIN SCHEMATIC WAS DERIVED FROM SITE VISITS.

SANTA FE ENGINEERING, LTD.		
TA-21-443 DRAIN SCHEMATIC	DRAWN	G.S.
	DESIGN	M.E.W.
	CHECKED	S.C.D.
	DATE	10-8-93
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	11056-79	FIGURE 16



21-445-OPN-1
PLUGGED SANITARY
SEWER OUTLET
BELOW TRAILER

SYMBOL LEGEND	
LV	LAVATORY
SD	SINK DRAIN
TL	TOILET
UR	URINAL
SH	SHOWER

NOTE:

THIS DRAIN SCHEMATIC WAS DERIVED FROM SITE VISITS.

SANTA FE ENGINEERING, LTD.

TA-21-445
DRAIN SCHEMATIC

DRAWN	G.S.
DESIGN	M.E.W.
CHECKED	S.C.D.
DATE	9-30-93

SUBMITTED | RECOMMENDED | APPROVED

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

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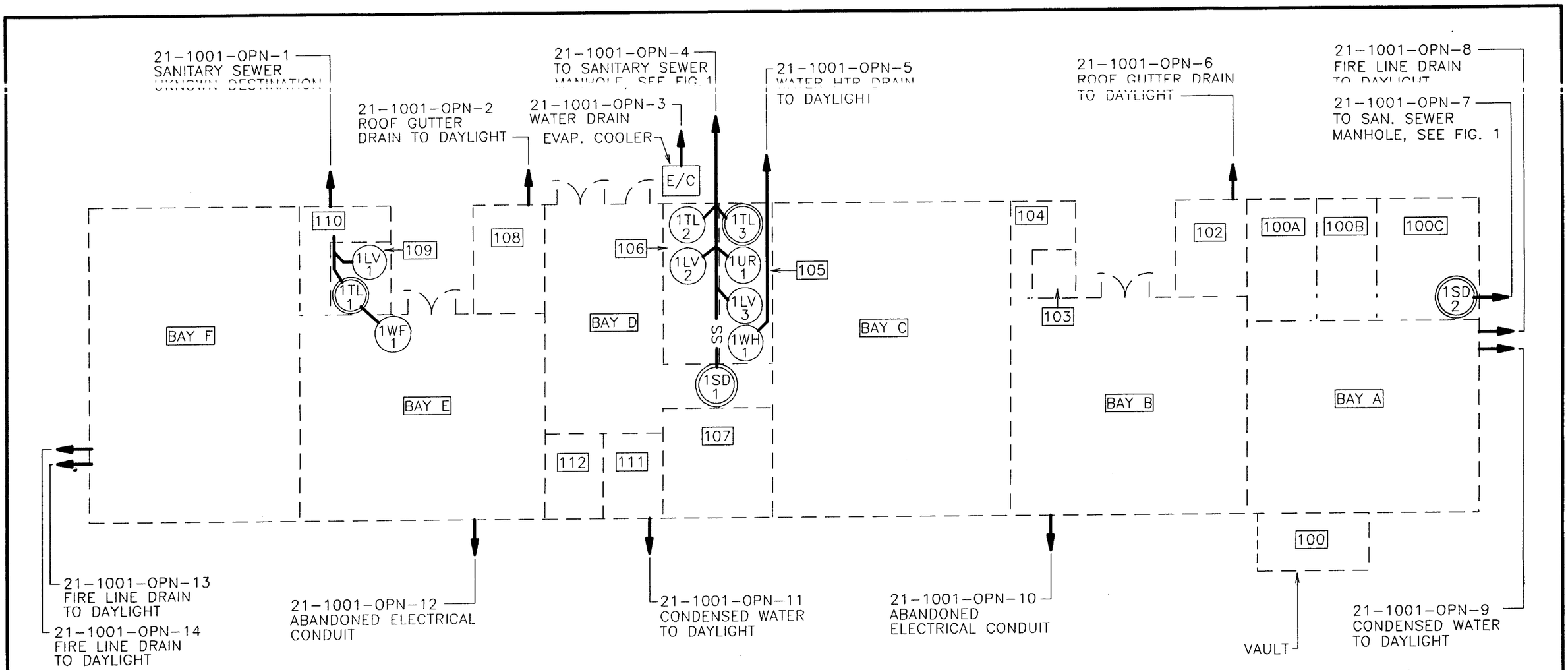
CLASSIFICATION | REVIEWER | DATE

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

REQUESTING GROUP EM-8 | 11056-79 | FIGURE 17



TA-21-1001

– NOT TO SCALE –

SYMBOL LEGEND	
E/C	EVAPORATIVE COOLER
FD	FLOOR DRAIN
LV	LAVATORY
SD	SINK DRAIN
— SS —	SANITARY SEWER
TL	TOILET
UR	URINAL
WF	WATER FOUNTAIN
WH	WATER HEATER

DYE TESTED DRAIN

NOTE:

THIS DRAIN SCHEMATIC WAS DERIVED FROM SITE VISITS.

SANTA FE ENGINEERING, LTD.

TA-21-1001
DRAIN SCHEMATIC

DRAWN	G.S.
DESIGN	M.E.W.
CHECKED	S.C.D.
DATE	10-8-93

SUBMITTED | RECOMMENDED | APPROVED

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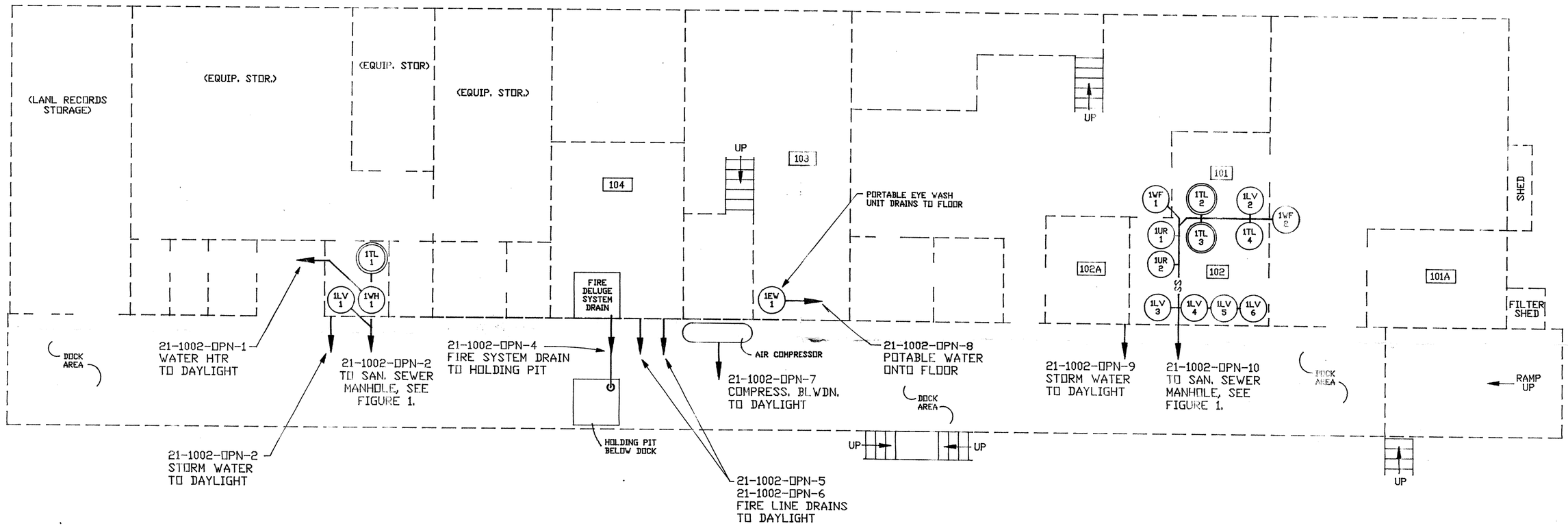
CLASSIFICATION | REVIEWER | DATE

REQUESTING DIVISION | LAB JOB NO. 11056-79 | DRAWING NO. FIGURE 18 | REV.

REQUESTING GROUP EM-8



SYMBOL LEGEND	
EW	EYE WASH DRAIN
LV	LAVATORY
—SS—	SANITARY SEWER PIPE
TL	TOILET
UR	URINAL
WF	WATER FOUNTAIN
WH	WATER HEATER

◎ DYE TESTED DRAIN

15333-F

NOTE:

THIS DRAIN SCHEMATIC WAS DERIVED FROM SITE VISITS AND DYE TESTING.

SANTA FE ENGINEERING, LTD.

TA-21-1002 DRAIN SCHEMATIC

DRAWN	D.A.H.
DESIGN	M.E.W.
CHECKED	S.C.D.
RELEASED	
DATE	10-8-93

SUBMITTED | RECOMMENDED | APPROVED

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

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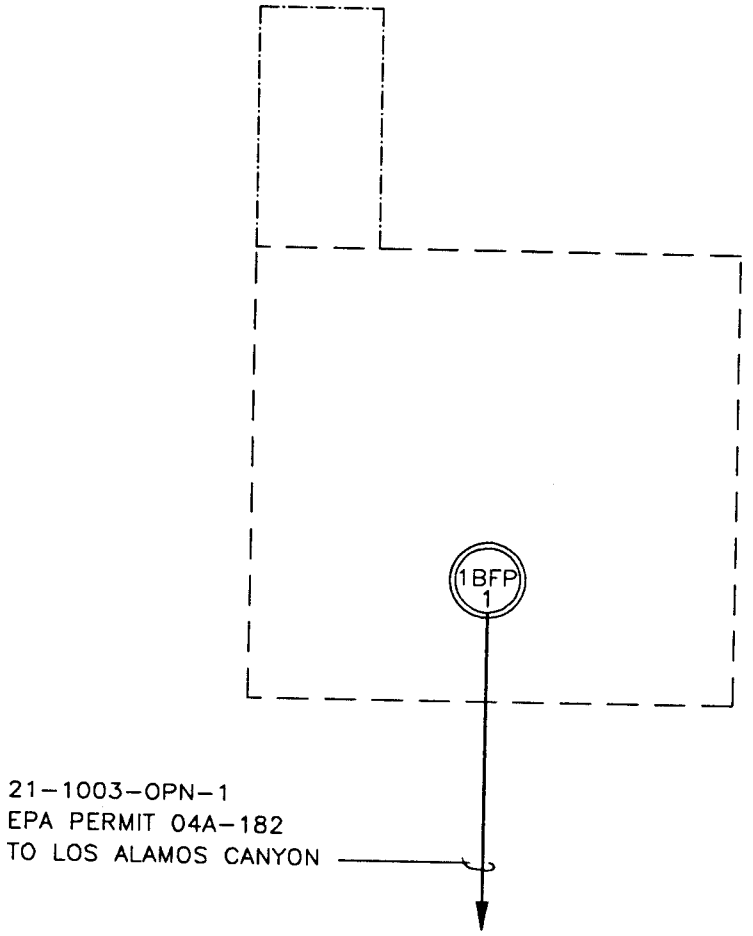
CLASSIFICATION | REVIEWER | DATE

REQUESTING DIVISION	LAB JOB NO.	DRAWING NO.	REV.
REQUESTING GROUP EM-8	11056-79	FIGURE 19	



TA-21-1003

- NOT TO SCALE -

SYMBOL LEGEND	
BFP	BACKFLOW PREVENTER

DYE TESTED DRAIN

NOTE: THIS DRAIN SCHEMATIC WAS DERIVED FROM A SITE VISIT

SANTA FE ENGINEERING, LTD.

TA-21-1003
DRAIN SCHEMATIC

DRAWN	G.S.
DESIGN	M.E.W.
CHECKED	S.C.D.
DATE	10-8-93

SUBMITTED | RECOMMENDED | APPROVED

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

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CLASSIFICATION | REVIEWER | DATE

REQUESTING DIVISION	LAB JOB NO.	DRAWING NO.	REV.
REQUESTING GROUP EM-8	11056-79	FIGURE 20	