Hazardous Waste Management
RCRA Permit NEVHW0028
March 2014

Precious Metals Recovery, LLC
Dry Hills Facility
Eureka County, Nevada
EPA ID# NVR000088542

State of Nevada
Department of Conservation and Natural Resources
Division of Environmental Protection
Bureau of Waste Management

PERMIT MODIFICATION CHRONOLOGY

Revised/Reviewed:
By:

POINT OF CONTACT FOR THE FACILITY:

Mr. Joe Giraudo
Manager of Closure Properties
(801) 990-3747

PERMITTEE: Precious Metals Recovery, LLC, Eureka County, NV
FACILITY IDENTIFICATION NUMBER: NVR000088542
PERMIT NUMBER: NEVHW0028
DATE ISSUED: March 31, 2014 (New)

Part B. Rev. #	Permit Rev. #	Date of Rev.	Event	Description

TABLE OF CONTENTS

Form ------ Signature Page

Section 1 ------ General Permit Conditions

Section 2 ------ General Facility Conditions

Section 3 ------ Container Management Conditions

Section 4 ------ Tank Storage Conditions

Section 5 ------ Tank Treatment Conditions

Section 6 ------ Miscellaneous unit Conditions

Section 7 ------ Waste Minimization Conditions

Section 8 ------ Organic Air Emissions Conditions---*Reserved*

Section 9 ------ Groundwater Monitoring Conditions---*Reserved*

Section 10 ------ Corrective Action Conditions

Section 11 ------ Financial Assurance Conditions

Attachment 1A - RCRA Part A Application

Attachment 1B - List of Restricted Wastes

Attachment 1C - List of Activities Authorized

Attachment 2 - List of Documents adopted by this Permit
- RCRA Part B Application and other stand-alone documents
(not physically attached to this Permit)

P:\BWM\HW Permits\Precious Metals Recovery LLC (Barrick Mercury TSD)\PERMIT1\Final Permit\Table of Contents.docx

RCRA PERMIT
FOR A HAZARDOUS WASTE MANAGEMENT FACILITY

Permittee:	**Precious Metals Recovery LLC** **Eureka County, Nevada**	***NEW*** MARCH 2014
Facility EPA ID#:	**NVR000088542**	
Permit Number:	**NEVHW0028**	

This Permit is issued by the Nevada Division of Environmental Protection (NDEP) under the authority of Section 3006 of Resource Conservation and Recovery Act (RCRA) (40 CFR Part 271), Nevada Revised Statutes (NRS) 459.520 and Nevada Administrative Code (NAC) 444.842 through 444.8746 and 444.960. The State of Nevada has adopted 40 CFR Subpart A of Part 2, Subparts A and B of Part 124, and Parts 260 through 270 inclusive, by reference in the NAC at 444.8632 with exceptions listed at 444.86325 and as revised at 444.8633. This Permit is issued to Precious Metals Recovery LLC (hereafter called the Permittee), to operate a hazardous waste treatment and storage facility (TSF) located in Eureka County, Nevada at latitude 40° 25' 19" N and longitude 116° 22' 40" W, described as follows:

The facility is located on the Dean Ranch in the Crescent Valley in Eureka County, Nevada. The site, which has an Assessor Parcel Number (APN) #005-530-17, is owned by the Permittee. The site is a separate parcel within the proposed TSF compound that will comprise the proposed RCRA facility. The facility consists of:

- One (1) Container Storage Unit;
- Two (2) Storage Tanks;
- Four (4) Treatment Tanks; and
- Three (3) Miscellaneous Units (2 mercury retorts, 1 active & 1 future and 1 filter press)

The facility is not required to perform groundwater monitoring nor post-closure care and monitoring. The Permittee must comply with all terms and conditions of this Permit. This Permit consists of the conditions contained herein, the Permit Application, and the applicable regulations contained in 40 CFR Parts 124, 260 through 266, and 270, and Sections 206, 212, and 224 of HSWA, which require corrective action for all releases of hazardous wastes or constituents from any solid waste management unit (SWMU) at a treatment, storage, or disposal unit seeking a Permit, regardless of the time at which waste was placed in such unit, as specified in the Permit. If there are conflicts between this Permit and the Permit Application, the Permit shall prevail. Applicable regulations are those that are in effect on the date of issuance of the Permit, in accordance with 40 CFR 270.32(c) and NAC 444.8632.

This Permit is based on the assumption that the information submitted in the Part A Permit Application originally dated March 5, 2013, and last revised December 2013 and Part B Permit Application originally dated March 7, 2013, and last revised December 2013 (hereafter referred to as the Permit Application) is accurate and that the facility will be constructed, operated and closed as specified in the Permit Application and this Permit.

RCRA PERMIT
FOR A HAZARDOUS WASTE MANAGEMENT FACILITY

Any inaccuracies found in the submitted information may be grounds for the revocation and reissuance, modification, or termination of this Permit in accordance with 40 CFR 270.41, 270.42, 270.43, and NAC 444.8632 and for enforcement action. The Permittee must inform the Director of any deviation from or changes in the information in the application, which would affect the Permittee's ability to comply with the applicable regulations or Permit conditions. Failure to comply with any term or condition set forth in this Permit in the time or manner specified herein will subject the Permittee to possible enforcement action and penalties pursuant to NRS 459.565, 459.570, 459.585, and 459.595.

This Permit is effective as of **March 31, 2014** and shall remain in effect until **March 31, 2019** unless revoked and reissued under 40 CFR 270.41 and NAC 444.8632, terminated under 40 CFR 270.43 and NAC 444.8632, or continued in accordance with 40 CFR 270.51(a) and NAC 444.8632.

As provided in NRS 459.520 (4) this Permit shall be subject to review by the Director at least every five years from issuance. Pursuant to 40 CFR 270.51 (d), the permit conditions shall remain in effect until such time that the permit is reissued.

3/31/14

R. Eric Noack
Chief, Bureau of Waste Management

Date

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1. SUMMARY

The Permittee is a non-commercial hazardous waste Treatment and Storage Facility (TSF). The Permittee may store and treat all waste identified in the *Part A Application* and managed as identified in the *Part B Application* which are adopted by reference and are attachments to this Permit. Storage of waste is identified in Permit Sections 3 and 4 (Container Management and Tank Storage), and Tank Treatment is identified in Permit Section 5. The facility is expected to treat or store only inorganic waste and as such may not be subject to RCRA Subparts BB and CC and requirements identified in Permit Section 8 (Organic Air Emissions Conditions for Tanks & Containers) are reserved for future use only. All regulations cited in this Permit refer to regulations in effect on the date of issuance of this Permit. The Permittee is to maintain compliance with the conditions contained in this Permit and any self-implementing regulations promulgated after issuance.

1.1. EFFECT OF PERMIT

The Permittee is authorized to treat and store hazardous waste in accordance with the conditions of this Permit and its attachments. Any treatment and storage of hazardous waste not authorized in this Permit is prohibited. Subject to 40 CFR 270.4, compliance with this Permit generally constitutes compliance, for purposes of enforcement, with Subtitle C of RCRA, NRS 459.400 through 459.600, NAC 444.842 through 444.8746, NAC 444.960, and with HSWA. Issuance of this Permit does not convey any property rights of any sort or any exclusive privilege; nor does it authorize any injury to persons or property, any invasion of other private rights, or any infringement of State or local law or regulations. Compliance with the terms of this Permit does not constitute a defense to any order issued or any action brought under Sections 3008(a), 3008(h), 3013, or 7003 of RCRA; Sections 106(a), 104, 107 or 301(c) of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (42 U.S.C. 9601 et seq., commonly known as CERCLA), as amended by the Superfund Amendments and Reauthorization Act of 1986 (SARA), NRS 459.400 through NRS 459.600, or any other law providing for protection of public health or the environment. *[40 CFR 270.4, 270.30(g)]*

The State of Nevada has adopted 40 CFR Subpart A of Part 2, Subparts A and B of Part 124, Parts 260 through 270 inclusive, by reference in the NAC at 444.8632 with exceptions listed at 444.86325 and as revised at 444.8633. Therefore, all references to 40 CFR in this Permit shall be interpreted to include reference to NAC 444.8632.

1.2. PERMIT ACTIONS

1.2.1. Permit Modification, Revocation and Reissuance, and Termination

This Permit may be modified, revoked and reissued, or terminated for cause, as specified in 40 CFR 270.41, 270.42, and 270.43. The filing of a request for a permit modification, revocation and reissuance, or termination, or the notification of planned changes or anticipated noncompliance on the part of the Permittee, does not stay the applicability or enforceability of any Permit condition. *[40 CFR 270.4(a) and 270.30(f)]*

1.2.2. Permit Renewal

This Permit may be renewed as specified in 40 CFR 270.30(b) and Permit Condition 1.5.3. Review of any application for a permit renewal shall consider improvements in the state of control and measurement technology, as well as changes in applicable regulations.

[40 CFR 270.30(b), HSWA Sec. 212]

1.3. SEVERABILITY

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

1.4. DEFINITIONS

For purposes of this Permit, terms used herein shall have the same meaning as those in 40 CFR Parts 124, 260, 264, 266, 268, and 270, unless this Permit specifically provides otherwise; where terms are not defined in the regulations or the Permit, the meaning associated with such terms shall be defined by a standard dictionary reference or the generally accepted scientific or industrial meaning of the term. For purposes of this Permit, the definitions listed below will apply:

1.4.1. Administrator

The Administrator of the Nevada Division of Environmental Protection (NDEP) or his/her designee or authorized representative.

1.4.2. Ancillary Equipment

Any device including, but not limited to, such devices as piping, fittings, flanges, valves, and pumps, that is used to distribute, meter, or control the flow of hazardous waste from its point of generation to a storage or treatment unit or tank, between hazardous waste storage and treatment units or tanks, or to a point of shipment for disposal off-site.

1.4.3. Certified Laboratory

A laboratory that has been approved by the Director to perform specific analyses referenced in NRS 459.500.

1.4.4. Closure Plan

The plan for closure prepared in accordance with the requirements of 40 CFR 264.112.

1.4.5. Contamination

The presence of any hazardous constituent in a concentration which exceeds the naturally occurring concentration of that constituent in areas not affected by the operations of the facility.

1.4.6. Corrective Action

May include all corrective actions necessary to protect human health and the environment for all releases of hazardous waste or hazardous constituents at the facility, regardless of the time at which waste was placed in the unit, as required under 40 CFR 264.101. Corrective action may

address releases to air, soil, surface water sediment, groundwater, or subsurface gas.

1.4.7. Director
The Director of the Nevada Department of Conservation and Natural Resources (DCNR) or his/her designee or authorized representative.

1.4.8. Division
The Nevada Division of Environmental Protection (NDEP), including personnel thereof authorized by the Administrator to act on behalf of the Division.

1.4.9. Facility
Includes all contiguous property and structures, other appurtenances, and improvements on the property, used for treatment, storage or disposal of hazardous waste. For the purpose of implementing corrective action under 40 CFR 264.100 and 40 CFR 264.101, "facility" includes all contiguous property under the control of the operator seeking a permit under Subtitle C of RCRA.

1.4.10. Hazardous Constituents
Those substances listed in 40 CFR 261 Appendix VIII and/or 40 CFR Part 264 Appendix IX, or any pollutant as defined in the NRS 445A.400.

1.4.11. Hazardous Waste Management Unit (HWMU)
A contiguous area of land on or in which hazardous waste is managed, or the largest area in which there is significant likelihood of mixing hazardous waste constituents in the same area. Examples of hazardous waste management units include surface impoundments, waste piles, land treatment areas, landfill cells, incinerators, tanks and their associated piping and underlying containment system, and container storage areas. A container alone does not constitute a unit; the unit includes containers and the land or pad upon which they are managed.

1.4.12. Non-Commercial Facility
A facility which provides a service to affiliates and joint venture partners of Barrick Gold of North America only. No services will be offered to the mass market.

1.4.13. Qualified Professional Engineer
A person who by reason of his/her professional education and practical experience is granted a license by the Nevada State Board of Professional Engineers and Land Surveyors to practice professional engineering.

1.4.14. Release
Any spilling, leaking, pumping, pouring, emitting, emptying, discharging, injecting, escaping, leaching, dumping, or disposing into the environment of any hazardous waste or hazardous constituents.

1.4.15. Schedule of Compliance

A schedule of remedial measures that may be included in this Permit, including an enforceable sequence of interim requirements (for example, actions, operations, or milestone events) leading to compliance with the Resource Conservation and Recovery Act and/or the State of Nevada Hazardous Waste Management Regulations.

1.4.16. Solid Waste

Any garbage, refuse, sludge from a waste treatment plant, water supply treatment plant, or air pollution control facility and other discarded material, including solid, liquid, semisolid, or contained gaseous material resulting from industrial, commercial, mining, and agricultural operations, and from community activities, but does not include solid or dissolved material in domestic sewage, or solid or dissolved materials in irrigation return flows or industrial discharges which are point sources subject to permits under Section 402 of the Federal Water Pollution Control Act, as amended (86 Stat. 880), or source, special nuclear, or byproduct material as defined by the Atomic Energy Act of 1954, as amended (68 Stat. 923).

1.4.17. Solid Waste Management Unit (SWMU)

Any unit which has been used for the treatment, storage, or disposal of solid waste at any time, irrespective of whether the unit is or ever was intended for the management of solid waste. RCRA hazardous waste management units are also solid waste management units. SWMUs include areas that have been contaminated by routine and systematic releases of hazardous waste or hazardous constituents, excluding one-time accidental spills that are immediately remediated and cannot be linked to solid waste management activities (e.g. product or process spills).

1.4.18. Unit

Includes, but is not limited to, any landfill, surface impoundment, waste pile, land treatment unit, treatment unit, incinerator, injection well, tank, container storage area, wastewater treatment unit, elementary neutralization unit, or recycling unit.

1.5. DUTIES AND REQUIREMENTS

1.5.1. Duty to Comply

The Permittee shall comply with all conditions of this Permit, except to the extent and for the duration such noncompliance is authorized by an Emergency Permit (see 40 CFR 270.61). Any Permit noncompliance, other than noncompliance authorized by an Emergency Permit, constitutes a violation of RCRA and is grounds for enforcement action; for Permit termination, revocation and reissuance, or modification; or for denial of a Permit renewal application.

[40 CFR 270.30(a)]

1.5.2. Compliance Schedules

Any schedule of compliance established subsequent to the issuance of this Permit shall be adopted by reference as a condition of Permit compliance as if fully set forth herein.

1.5.3. Duty to Reapply

If the Permittee wishes to continue an activity allowed by this Permit after the expiration date of this Permit, the Permittee shall submit a complete application for a new Permit at least 180 days prior to Permit expiration. *[40 CFR 270.10(h), 270.30(b)]*

1.5.4. Permit Expiration

Pursuant to NRS 459.520 (4), this Permit shall be effective for a fixed term not to exceed five (5) years. As long as the Director is the Permit-issuing authority, this Permit and all conditions herein will remain in effect beyond the Permit's expiration date, if the Permittee has submitted a timely, complete application (see 40 CFR 270.10, 270.13 through 270.29) and, through no fault of the Permittee, the Director has not issued a new Permit, as set forth in 40 CFR 270.51.

1.5.5. Need to Halt or Reduce Activity Not a Defense

It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the Permitted activity in order to maintain compliance with the conditions of this Permit. *[40 CFR 270.30(c)]*

1.5.6. Duty to Mitigate

In the event of noncompliance with this Permit, the Permittee shall take all reasonable steps to minimize releases to the environment and shall carry out such measures, as are reasonable, to prevent significant adverse impacts on human health or the environment. *[40 CFR 270.30(d)]*

1.5.7. Proper Operation and Maintenance

The Permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the Permittee to achieve compliance with the conditions of this Permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance/quality control procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of this Permit.

[40 CFR 270.30(e)]

1.5.8. Duty to Provide Information

The Permittee shall furnish to the Director, within a reasonable time, any relevant information which the Director may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this Permit, or to determine compliance with this Permit. The Permittee shall also furnish to the Director, upon request, copies of records required to be kept by this Permit. *[40 CFR 264.74(a), 270.30(h)]*

1.5.9. Inspection and Entry

The Permittee shall allow the Director, or an authorized representative, upon presentation of credentials and other documents, as may be required by law, to: *[40 CFR 270.30(i)]*

1. Enter at reasonable times upon the Permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this Permit;
2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this Permit;
3. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this Permit; and
4. Sample or monitor, at reasonable times, for the purposes of assuring Permit compliance or as otherwise authorized by RCRA, any substances or parameters at any location.

1.5.10. Monitoring and Records

1.5.10.1. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity. The method used to obtain a representative sample of the waste to be analyzed must be the appropriate method from Appendix I of 40 CFR Part 261 or an equivalent method approved by the Director. Laboratory methods must be those specified in the current edition (and its current update) of EPA manual SW-846: Test Methods for Evaluating Solid Waste, Physical/Chemical Methods- Standard Methods of Wastewater Analysis, or an equivalent method, as specified in the Waste Analysis Plan, Appendix 2-A of the Permit Application. *[40 CFR 270.30(j)(1)]*

1.5.10.1.1. Both groundwater and soil samples for regulatory monitoring and remedial efforts, when warranted, must be sent to a Nevada-certified laboratory for analyses. As a permitted hazardous waste management facility, the on-site laboratory is not required to be state-certified if the laboratory is solely utilized for the purposes of on-site management of wastes. *[NRS 445A.425 and 445A.427]*

1.5.10.1.2 The Permittee shall retain required records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports and records required by this Permit, the certification required by 40 CFR 264.73(b)(9), and records of all data used to complete the application for this Permit for a period of at least 3 years from the date of the sample, measurement, report, record, certification, or application. This period may be extended by request of the Director at any time and are automatically extended during the course of any unresolved enforcement action regarding this facility. The Permittee shall maintain records from all groundwater monitoring wells and associated groundwater surface elevations, for the active life of the facility. *40 CFR 264.74(b) and 270.30(j)(2)]*

1.5.10.2. Records of monitoring information shall include: *[40 CFR 270.30(j)(3)]*

1. The dates, exact place, and times of sampling or measurements;
2. The individuals who performed the sampling or measurements;
3. The dates analyses were performed;
4. The individuals who performed the analyses;
5. The analytical techniques or methods used; and
6. The results of such analyses.

1.5.11. Signatory Requirement

All applications, reports, or information submitted to or requested by the Director, his designee, or authorized representative, shall be signed and certified in accordance with 40 CFR 270.11.

[40 CFR 270.30(k)]

1.5.12. Reporting Requirements

1.5.12.1. Reporting Planned Changes

The Permittee shall give notice to the Director, as soon as possible, of any planned physical alterations or additions to the permitted facility. *[40 CFR 270.30(l)(1)]*

1.5.12.2. Reporting Anticipated Non-Compliance

The Permittee shall give advance notice to the Director of any planned changes in the permitted facility or activity, which may result in noncompliance with Permit requirements.

[40 CFR 270.30(l)(2)]

1.5.12.3. Certification of Construction or Modification

The Permittee may not commence treatment, storage or disposal of hazardous waste in any modified or newly constructed portion of the facility until:

1. The Permittee has submitted to the Director, by certified mail or hand delivery, a letter signed by the Permittee and a qualified Professional Engineer stating that the facility has been constructed or modified in compliance with the Permit; and

   [40 CFR 270.30(l)(2)(i)]

2. (A) The Director has inspected the modified or newly constructed facility and finds it is in compliance with the conditions of the Permit; or *[40 CFR 270.30(l)(2)(ii)(A)]*

   (B) Within 15 calendar days of the date of submission of the letter in Section 1.5.12.3.1 of this Permit, if the Permittee has not received notice from the Director of his or her intent to inspect, prior inspection is waived and the Permittee may commence treatment, storage, or disposal of hazardous waste. *[40 CFR 270.30(l)(2)(ii)(B)]*

1.5.12.4. Transfer of Permits

This Permit is not transferable to any person, except after notice to the Director. The Director may require modification or revocation and reissuance of the Permit to change the name of the Permittee and incorporate such other requirements as may be necessary under RCRA. Before transferring ownership or operation of the facility during its operating life (or during its post-closure period, if applicable), the Permittee shall notify the new owner or operator in writing of the requirements of 40 CFR Parts 264 and 270, NAC 444.842 through NAC 444.8746, NAC 444.960, and this Permit.

[40 CFR 264.12(c), 40 CFR 270.30(l)(3), 40 CFR 270.40]

1.5.12.5. Monitoring Reports

Monitoring results shall be reported at the intervals specified elsewhere in this Permit or as required by a compliance schedule issued pursuant to Permit Condition 1.5.2.

[40 CFR 270.30(l)(4)]

1.5.12.6. Compliance Schedule Reports

Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this Permit or issued as an enforcement action, shall be submitted no later than 14 calendar days following each schedule date. *[40 CFR 270.30(l)(5)]*

1.5.12.7. Twenty-Four Hour Reporting

1.5.12.7.1. The Permittee shall report to the Director any noncompliance which may endanger human health or the environment. Any such information shall be reported orally within 24 hours from the time the Permittee becomes aware of the circumstances. The report shall include the following: *[40 CFR 270.30(l)(6)(i)]*

1. Information concerning release of any hazardous waste that may cause an endangerment to public drinking water supplies.
2. Any information of a release or discharge of hazardous waste, or of a fire or explosion from the hazardous waste management facility which could threaten the environment or human health.

1.5.12.7.2. The description of the occurrence and its cause shall include: *[40 CFR 270.30(l)(6)(ii)]*

1. Name, address, and telephone number of the owner or operator;
2. Name, address, and telephone number of the facility;
3. Date, time, and type of incident;
4. Name and quantity of materials involved;
5. The extent of injuries, if any;
6. An assessment of actual or potential hazards to the environment and human health outside the facility, where this is applicable; and
7. Estimated quantity and disposition of recovered material that resulted from the incident.

1.5.12.7.3. A written submission shall also be provided within five days of the time the Permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period(s) of noncompliance (including exact dates and times); whether the noncompliance has been corrected; and, if not, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance. The Director may waive the five-day written notice requirement in favor of a written report within 15 days.

[40 CFR 270.30(l)(6)(iii)]

1.5.12.8. Manifest Discrepancy Report

If a significant discrepancy in a manifest is discovered, the Permittee must attempt to reconcile the discrepancy. If not resolved within fifteen days, the Permittee must submit a letter report, including a copy of the manifest, to the Director. (See 40 CFR 264.72)

[40 CFR 270.30(l)(7)]

1.5.12.9. Unmanifested Waste Report

A report must be submitted to the Director within 15 calendar days of receipt of unmanifested hazardous waste. (See 40 CFR 264.76) *[40 CFR 270.30(l)(8)]*

1.5.12.10. Biennial Report

A Biennial Report must be submitted by March 1st of each even numbered year, covering facility activities during the previous calendar year and the information in 40 CFR 264.75.

[40 CFR 270.30(l)(9)]

1.5.12.11. Other Noncompliance

The Permittee shall report all other instances of noncompliance not otherwise required to be reported above at the time monitoring reports are submitted. The reports shall contain the information listed in Permit Condition 1.5.12.7.2. *[40 CFR 270.30(l)(10)]*

1.5.12.12. Other Information

Whenever the Permittee becomes aware that it failed to submit any relevant facts in the Permit application, or submitted incorrect information in a Permit application or in any report to the Director, the Permittee shall promptly submit such facts or information.

[40 CFR 270.30(l)(11)]

1.5.13. Information Repository

The Permittee shall maintain at the facility the information repository created in support of all Permit applications, renewals and modifications pursuant to 40 CFR 124.33(c) through (f) for the life of the facility. *[40 CFR 270.30(m)]*

1.6. REPORTS, NOTIFICATIONS, AND SUBMISSIONS TO THE DIRECTOR

All reports, notifications, or other submissions required by this Permit must be sent to the addressee shown below and must be **received** by the specified due date:

RCRA Permitting Branch Supervisor
Bureau of Waste Management
Nevada Division of Environmental Protection
901 S. Stewart St., Suite 4001
Carson City, NV 89701-5249

1.7. CONFIDENTIAL INFORMATION

In accordance with 40 CFR 270.12, the Permittee may claim confidential any information required to be submitted by this Permit.

1.8. DOCUMENTS TO BE MAINTAINED AT THE FACILITY

The Permittee shall maintain at the facility, until closure is completed and certified by a qualified Professional Engineer, the following documents and all amendments, revisions and modifications to these documents:

1. Waste Analysis Plan, as required by 40 CFR 264.13 and this Permit
2. Inspection Schedules, as required by 40 CFR 264.15(b)(2) and this Permit
3. Personnel Training documents and records, as required by 40 CFR 264.16(d) and this Permit
4. Contingency Plan, as required by 40 CFR 264.53(a) and this Permit;
5. Operating Record, as required by 40 CFR 264.73 and this Permit;
6. Closure Plan, as required by 40 CFR 264.112(a) and this Permit;
7. Annually-adjusted cost estimate for facility closure, as required by 40 CFR 264.142(d) respectively and this Permit;
8. Information Repository as required by 40 CFR 270.30(m) and this Permit;
9. All Groundwater Monitoring Records inclusive of installation details for all wells required by this Permit or otherwise;
10. Corrective Action Plans and Reports, if applicable
11. All instances of implementation of the Contingency Plan;
12. All correspondence related to changes or modifications to this Permit;
13. Indoor air monitoring data for mercury vapor, and
14. Unusual Occurrence Reports (examples: all manifest discrepancies, deficiencies found as a result of an inspection, all releases whether contained by secondary containment or not, all injuries to personnel, all activations of the alarm system, any non-compliance with this Permit, etc.)

1.9. COMPLIANCE SCHEDULES

Refer to specific sections of this Permit for any compliance schedules established by the Director.

2. SUMMARY

The Permittee is required to operate the facility consistent with the accepted practices detailed in this and other sections of the Permit and Permit Application in order to minimize the possibility of releases to the environment or harm to either employees or the public at large.

2.1. DESIGN AND OPERATION OF FACILITY

The Permittee shall construct, maintain and operate the facility to minimize the possibility of a fire, explosion, or any unplanned, sudden or non-sudden release of hazardous waste constituents to air, soil, or surface water which could threaten human health or the environment as required by 40 CFR 264.31 and in accordance with the management practices and procedures specified in the permit application.

2.2. REQUIRED NOTICES

2.2.1. Hazardous Waste from Off-Site Sources

When the Permittee is to receive hazardous waste from an off-site source (except where the Permittee is also the generator), the Permittee must inform the generator in writing that they have the appropriate Permits, and will accept the waste the generator is shipping. The Permittee must keep a copy of this written notice as part of the operating record. *[40 CFR 264.12(b)]*

2.3. GENERAL WASTE ANALYSIS

The Permittee shall comply with the waste analysis requirements of 40 CFR 264.13 and follow the Waste Analysis Plan procedures of Permit Application Section 2.2, Appendix 2-A and the conditions listed below:

2.3.1. The Permittee shall verify the analysis of each waste stream annually as part of its quality assurance program, in accordance with Test Methods for Evaluating Solid Waste: Physical/Chemical Methods, EPA Publication SW-846 or equivalent methods as specified in the Waste Analysis Plan and as approved by the Director. At a minimum, the Permittee shall maintain proper functional instruments, use approved sampling and analytical methods, verify the validity of sampling and analytical procedures, and perform correct calculations. If the Permittee uses a contract laboratory to perform analyses, then the Permittee shall inform the laboratory in writing that it must use analytical methods and operate under the waste analysis conditions set forth in this Permit.

2.4. SECURITY

The Permittee shall comply with the security provisions of 40 CFR 264.14 and follow the Security Plan in Permit Application Section 3.

2.5. GENERAL INSPECTION REQUIREMENTS

The Permittee shall comply with the Inspection Plan requirements of 40 CFR 264.15 and follow the Inspection Plan procedures in the Permit Application Section 4 and Appendix 4-B. The Permittee shall remedy any deterioration or malfunction discovered by an inspection, as required by 40 CFR 264.15(c). Records of all inspection shall be kept, as required by 40 CFR 264.15(d).

2.6. PERSONNEL TRAINING

The Permittee shall conduct personnel training, as required by 40 CFR 264.16. The Permittee shall follow the Personnel Training Program procedures in the Permit Application Section 12 and Appendix 12-A and maintain training documents and records, as required by 40 CFR 264.16(d) and (e).

2.6.1. Training Program

2.6.1.1. Facility Personnel

Facility personnel must successfully complete a program of classroom instruction or on-the-job training that teaches them to perform their duties in a way that complies with the requirements of this Permit. The Permittee must develop and implement a program which includes all the elements described in the document required under 40 CFR 264.16(d)(3) *[40 CFR 264.16(a)(1)]*

2.6.1.2. Instructor Qualifications and Training Content

The training program must be directed by a person trained in hazardous waste management procedures and must include instruction which teaches facility personnel hazardous waste management procedures (including contingency plan implementation) relevant to the positions in which they are employed. *[40 CFR 264.16(a)(2)]*

2.6.1.3. Emergency Response

At a minimum, the training program must be designed and implemented to ensure that facility personnel are trained and able to respond effectively to emergencies by familiarizing them with emergency procedures, emergency equipment, and emergency systems, including, where applicable: *[40 CFR 264.16(a)(3)]*

1. Procedures for using, inspecting, repairing, and replacing facility emergency and monitoring equipment;
2. Key parameters for automatic waste feed cut-off systems;
3. Communications or alarm systems;
4. Response to fires or explosions;
5. Response to ground-water contamination incidents; and
6. Shutdown of operations.

2.6.1.3.1. For facility employees that receive emergency response training pursuant to Occupational Safety and Health Administration (OSHA) regulations 29 CFR 1910.120(p)(8) and 1910.120(q), the facility is not required to provide separate emergency response training

pursuant to this section, provided that the overall facility training meets all the requirements of 40 CFR 264.16 and this permit. *[40 CFR 264.16(a)(4)]*

2.6.2. Training Schedule

Facility personnel must successfully complete the program required in Permit Condition 2.6.1 within six months after the date of their employment or assignment to the facility, or to a new position at the facility, whichever is later. Newly hired employees must not work in unsupervised positions until they have completed the training requirements in Permit Conditions 2.6.1.1 through 2.6.1.3, above. *[40 CFR 264.16(b)]*

2.6.3. Annual Review

Facility personnel must take part in an annual review of the initial training required in Permit Condition 2.6.1, above. *[40 CFR 264.16(c)]*

2.6.4. Documentation

The Permittee shall maintain the following documents and records at the facility:

[40 CFR 264.16(d)]

1. The job title for each position at the facility related to hazardous waste management, and the name of the employee filling each job;
2. A written job description for each position listed under (1), above. This description may be consistent in its degree of specificity with descriptions of other similar positions in the same company location or bargaining unit, but must include the requisite skill, education, or other qualifications, and duties of employees assigned to each position;
3. A written description of the type and amount of both introductory and continuing training that will be given to each person filling a position listed under (1), above.
4. Records that document that the training or job experience required under Permit Conditions 2.6.1, 2.6.2 and 2.6.3 has been given to, and completed by, facility personnel.

2.6.5. Record Keeping

Training records on current personnel must be kept until closure of the facility; training records on former employees must be kept for at least three years from the date the employee last worked at the facility. Personnel training records may accompany personnel transferred within the same company. *[40 CFR 264.16(e)]*

2.7. SPECIAL PROVISIONS

2.7.1. Special Provisions for Ignitable, Reactive, or Incompatible Waste

The Permittee shall comply with the requirements of 40 CFR 264.17 and follow the procedures for handling ignitable, reactive, and incompatible wastes in Permit Application Section 2.9, and Appendices 2-A and 2-B.

2.7.2. Special Provisions for State-Hazardous Waste

2.7.2.1. The Permittee shall manage all waste that is designated as hazardous waste in the state of its origin (e.g., California) [See NAC 444.843.2(c)] as hazardous waste. This shall be done in accordance with the terms of this permit, upon acceptance, when brought to the facility and during storage and/or treatment while at the facility.

2.7.2.2. Waste originally designated as hazardous waste in its state of origin shall be manifested as hazardous waste when shipped offsite.

2.8. PREPAREDNESS AND PREVENTION

2.8.1. Required Equipment
At a minimum, the Permittee shall maintain at the facility the equipment as required by 40 CFR 264.32 and as set forth in the Contingency Plan in the Permit Application Section 6 and Appendix 6-A..

2.8.2. Testing and Maintenance of Equipment
The Permittee shall test and maintain the equipment specified in Permit Condition 2.9.1, as necessary, to assure its proper operation in time of emergency, as required by 40 CFR 264.33.

2.8.3. Access to Communications or Alarm System
The Permittee shall maintain access to the communications or alarm system, as required by 40 CFR 264.34.

2.8.4. Required Aisle Space
The Permittee shall maintain a minimum of three (3) feet of aisle space between container rows to facilitate inspections and the movement of emergency equipment and personnel. Additionally, a minimum of three (3) feet of clearance should be kept between walls and obstructions to personnel movement, such as storage racks and mechanical equipment as stated in Permit Application Section 5.6. *[40 CFR 264.35]*

2.8.5. Arrangements with Local Authorities
The Permittee shall maintain arrangements with State and local authorities as required by 40 CFR 264.37 and as specified in Permit Application Section 5.2.1. If State or local officials refuse to enter into preparedness and prevention arrangements with the Permittee, the Permittee must document this refusal in the Operating Record.

2.9. CONTINGENCY PLAN

2.9.1. Implementation of Plan
The provisions of the Contingency Plan in Permit Application Appendix 6-A must be carried out immediately whenever there is a fire, explosion, or release of hazardous waste or hazardous waste constituents which could threaten human health or the environment. *[40 CFR 264.51(b)]*

2.9.2. Copies of Plan

A copy of the Contingency Plan and all revisions to the plan must be: *[40 CFR 264.53]*

1. Maintained at the facility; and
2. Submitted to all local police departments, fire departments, hospitals, and State and local emergency response teams that may be called upon to provide emergency services.

2.9.3. Amendments to Plan

The Permittee shall review and immediately amend, if necessary, the Contingency Plan, as required by 40 CFR 264.54.

2.9.4. Emergency Coordinator

A qualified emergency coordinator shall be available at all times in case of an emergency, as required by 40 CFR 264.55.

2.10.4.1. The Emergency Coordinator shall comply with the requirements of 40 CFR 264.56.

2.10. MANIFEST SYSTEM

The Permittee shall comply with the manifest requirements of 40 CFR 264.71, 264.72, 264.76 and NAC 444.8666 and follow the procedures in Permit Application Section 9 consistent with:

1. Signing and dating each copy of the manifest to certify that the hazardous waste covered by the manifest was received[1];
2. Noting any significant discrepancies in the manifest as defined below, on each copy of the manifest;
   a. Waste Types - Manifest discrepancies between the type of hazardous waste designated on the manifest or shipping paper, and the type of hazardous waste the facility actually receives, or obvious differences which can be discovered by inspection or waste analysis such as toxic constituents not reported on the manifest or shipping paper or:
   b. Waste Quantities - For bulk waste, variations greater than 10 percent in weight, for batch waste, any variation in piece count, such as a discrepancy of one drum in a truckload.
3. Immediately give the transporter at least one copy of the signed manifest;
4. Within 30 days after the delivery, send a copy of the manifest to the generator; and
5. Retain at the facility a copy of each manifest for at least three years from the date of delivery.
6. The Permittee shall comply with the manifest discrepancies requirements of 40 CFR 264.72 by reconciling the discrepancy with the waste generator or transporter (e.g., with

[1] [*Comment:* The Director does not intend that the Permittee (who performs procedures under 40 CFR 264.13(c)) perform that analysis before signing the manifest and returning it to the transporter. §264.72(b), however, requires reporting an unreconciled discrepancy discovered during later analysis.]

telephone conversations). If the discrepancy is not resolved within 15 days after receiving the waste, the Permittee must immediately submit to the Director a letter describing the discrepancy and attempts to reconcile it, and a copy of the manifest or shipping paper.

2.11. RECORDKEEPING AND REPORTING

In addition to the recordkeeping, reporting and fee requirements specified elsewhere in this Permit, the Permittee shall do the following:

2.11.1. Operating Record

2.12.1.1. The Permittee shall maintain a written operating record at the facility as required in 40 CFR 264.73.

2.12.1.2. The Permittee shall maintain at the facility copies of waste minimization documents required in Permit Section 7 and shall make them available to any authorized representative of NDEP or USEPA conducting an inspection.

2.11.2. Quarterly Volume Fee

The Permittee shall submit to the Director a detailed volume fee breakdown report along with the quarterly volume fees due within 30 days after the end of each calendar quarter.

[NAC 444.8452]

2.11.3. Annual Operating Fee

The Permittee shall pay the annual operating fee on or before March 1 of each year.

[NAC 444.845]

2.11.4. Annual Report

In addition to complying with the biennial reporting requirements of 40 CFR 264.75, the Permittee shall prepare and submit an Annual Report to the Director by March 1 of each year with the following information:

1. The EPA identification number, name, and address of the facility;
2. The calendar year covered by the report;
3. For each waste stream received by the Permittee during the previous calendar year:
   a. The EPA identification number of each generator from which a waste stream was received;
   b. A description and quantity (in tons); and
   c. The methods of treatment, storage or disposition for each waste stream received as well as generated;
4. The most recent closure cost estimate (including summary of cost for each unit);
5. A description of the waste minimization efforts undertaken during the year to reduce the volume and toxicity of wastes generated by the Permittee, including a description of the changes in volume and toxicity of waste actually achieved during the year in comparison

to previous years;

6. Unusual occurrence reports covering all rejected shipments during the year; and
7. The certification signed by the operator of the facility or his authorized representative.

2.12. GENERAL CLOSURE REQUIREMENTS

2.12.1. Performance Standard

The Permittee shall close the facility, as required by 40 CFR 264.111 and in accordance with the approved Closure Plan in Permit Application Appendix 13-A.

2.12.2. Amendment to Closure Plan

The Permittee shall amend the Closure Plan in accordance with 40 CFR 264.112(c).

2.12.3. Notification of Closure

The Permittee shall notify the Director in writing at least 60 days prior to the date on which the facility expects to begin partial or final closure of the facility, as required by 40 CFR 264.112(d).

2.12.4. Time Allowed for Closure

After receiving the final volume of hazardous waste in any or all of the regulated units, the Permittee shall treat, remove from the unit or facility all hazardous wastes and shall complete closure activities, in accordance with 40 CFR 264.113 and the schedules specified in the Closure Plan in Permit Application Section 13, Table 13.7-1 as determined by the Director.

2.12.5. Disposal or Decontamination of Equipment, Structures, and Soils

The Permittee shall decontaminate or ship offsite all contaminated equipment, structures, and soils, as required by 40 CFR 264.114 and the approved Closure Plan.

2.12.6. Certification of Closure

The Permittee shall certify that the facility has been closed in accordance with the specifications in the Closure Plan in Permit Application Appendix 13-A, as required by 40 CFR 264.115.

2.13. FINANCIAL REQUIREMENTS FOR CLOSURE AND POST CLOSURE

The Permittee shall comply with the conditions in Permit Section 11 for Financial Assurance requirements and cost estimates.

2.14. LIABILITY REQUIREMENTS

The Permittee shall demonstrate continuous compliance with the requirements of 40 CFR 264.147 (a), and with Permit Section 11.

2.17. INCAPACITY OF OWNERS OR OPERATORS, GUARANTORS, OR FINANCIAL INSTITUTIONS

The Permittee shall comply with 40 CFR 264.148, whenever necessary.

2.18 COMPLIANCE SCHEDULE

	Task	Date Due
1	*Reserved*	

3. SUMMARY

The Permittee is allowed to store waste in containers subject to the terms and conditions of this Permit as described in this Section. Containers are managed in the areas noted in Permit Application Section 22. The facility does not receive or process any organic waste (hence no Volatile Organic Compounds); as such, these containers are not subject to 264 Subpart CC air emission regulations. No treatment of waste in containers is permitted. The specific management requirements of the container management area are specified below.

3.1. CONTAINER STORAGE

The container storage areas are identified in Permit Application Section 22 and summarized in Table 3.3. The actual locations of these container storage areas can be seen in Permit Application Appendix 1-A, map# H340940-0000-50-015-0013. The maximum amount and type of wastes that may be handled are discussed below in Permit Condition 3.3.

3.2. CONTAINER-SPECIFIC INFORMATION TO BE MAINTAINED AT THE FACILITY

3.2.1. The Permittee shall maintain at the facility, until closure is completed for all container storage areas and certified by a qualified Professional Engineer, the following container-specific documents and information and all amendments, revisions and modifications to these documents and information:

3.2.2. A description of the containment systems including: *[40 CFR 270.15(a)]*

1. Basic design parameters, dimensions, and materials of construction;
2. How the design promotes drainage or how containers are kept from contact with standing liquids in the containment system;
3. Capacity of the containment system relative to the number and volume of containers to be stored;
4. Provisions for preventing or managing run-on; and
5. How accumulated liquids can be analyzed and removed to prevent overflow.

3.2.3. For container storage areas holding wastes that do not contain free liquids, the Permittee shall maintain the following documentation onsite: *[40 CFR 270.15(b)]*

1. Test procedures and results or other documentation or information to show that the wastes do not contain free liquids; and
2. A description of how the storage area is designed or operated to drain and remove liquids or how containers are kept from contact with standing liquids.

3.3. PERMITTED AND PROHIBITED WASTE IDENTIFICATION

3.3.1. The Permittee may store in containers any hazardous waste identified in Part A of the Permit Application, and other hazardous wastes as identified in NAC 444.843, subject to the terms of this Permit.

3.3.2. The Permittee may store hazardous waste in any of the container storage areas listed in Table 3.3 up to the maximum volume specified, in accordance with Permit Application Section 22.4.

3.3.3. The Permittee is prohibited from treating waste in containers. Treatment is defined as "...any method, technique, or process, including neutralization, designed to change the physical, chemical, or biological character or composition of any hazardous waste so as to neutralize such waste, or so as to recover energy or material resources from the waste, or so as to render such waste non-hazardous, or less hazardous; safer to transport, store, or dispose of; or amenable for recovery, amenable for storage, or reduced in volume". *[40 CFR 260.10]*
Treatment does not include the addition of absorbent for incidental liquids.

Table 3.3

CS Area	Container Management Unit Name	Maximum Volume (gallons)	Maximum Number and Type of Containers
1-A	Elemental Mercury Storage	19,456[1]	1024, 19 gallon pigs
1-B	Calomel Storage	4,180	76, 55 gallon drums
1-C	Spent Activated Carbon Storage	3,300	60, 55 gallon drums
1-D	Other Waste Storage	550	10, 55 gallon drums
	Total	~28,000 gallons	

3.3.4. The Permittee may store hazardous waste for up to one (1) year in Container Storage Areas 1-B through 1-D, as listed in Table 3.3. Elemental mercury (CS area# 1-A) may be stored until a Federal National Repository begins to start accepting elemental mercury.

3.3.5. Aisle space shall be maintained as noted in the Permit Application Section 5.6 and Permit Condition 2.9.4.

3.3.6. The Permittee shall perform a Paint Filter Test (EPA method 9095 in SW 846) on all hazardous waste to be placed in any of the four (4) CS areas in Table 3.3 above for which the absence of free liquids cannot be determined by visual inspection.

3.3.7. The Permittee shall not store or place any hazardous waste (whether accepted from offsite or generated onsite), which contains free liquids, as determined by the Paint Filter Test (EPA method 9095 in SW 846), in an area that does not have RCRA secondary containment.

3.4. CONDITION OF CONTAINERS

If a container holding hazardous waste is not in good condition (e.g., severe rusting, apparent structural defects) or if it begins to leak, the Permittee shall transfer the hazardous waste from such container to a container that is in good condition or otherwise manage the waste in compliance with Permit Application Section 22.1.2 *[40 CFR 264.171]*

[1] Maximum storage capacity of elemental mercury is based on 11 year life of the facility

3.5. COMPATIBILITY OF WASTE WITH CONTAINERS

The Permittee shall use a container made of, or lined with, materials which will not react with, and are otherwise compatible with, the hazardous waste to be stored, so that the ability of the container to contain the waste is not impaired, in accordance with Permit Application Section 22.3.4. *[40 CFR 264.172]*

3.6. MANAGEMENT OF CONTAINERS

The Permittee shall keep all containers closed during storage or staging, except when it is necessary to visually inspect, add or remove waste, and shall not open, handle, or store containers in a manner which may rupture the container or cause it to leak. The Permittee shall follow the container management practices in Permit Application Section 22.3.

[40 CFR 264.173]

3.7. INSPECTION SCHEDULES AND PROCEDURES

The Permittee shall inspect all container areas in accordance with the Inspection Plan in Permit Application Appendix 4-A (see Permit Application Section 22.3.5) , to detect leaking containers, improperly labeled containers, deterioration of containers and/or the containment system caused by corrosion and other factors. *[40 CFR 264.174]*

3.8. CONTAINMENT SYSTEMS

The Permittee shall construct and maintain the secondary containment systems as required by 40 CFR 264.175 and in accordance with Permit Application Sections 22.5 and 22.6.

3.9. RECORDKEEPING

3.9.1. The Permittee shall place the results of all waste analyses, trial tests and inspections in the operating record. *[40 CFR 264.73]*

3.9.2. The Permittee must document compliance with 40 CFR 264.17(a) and (b) and 264.177 in the facility operating record. *[40 CFR 264.73]*

3.10. SPECIAL CONTAINER PROVISIONS FOR IGNITABLE OR REACTIVE WASTE

3.10.1. The Permittee shall not store containers holding ignitable or reactive waste within 50 feet (15 meters) of the facility's property line as required by 40 CFR 264.176.

3.10.2. The Permittee shall take precautions to prevent accidental ignition or reaction of ignitable or reactive waste as required by 40 CFR 264.17 and 264.176, and as specified in Permit Application Section 22.11.1.

3.11. SPECIAL CONTAINER PROVISIONS FOR INCOMPATIBLE WASTE

3.11.1. The Permittee shall not place incompatible wastes, or incompatible wastes and materials, in the same container, unless the Permittee complies with 40 CFR 264.17 (b). *[40 CFR 264.177(a)]*

3.11.2. The Permittee shall not place hazardous waste in an unwashed container that previously held an incompatible waste or material. *[40 CFR 264.177(b)]*

3.11.3. The Permittee shall separate containers of incompatible wastes as required by 40 CFR 264.177(c) and in accordance with Permit Application Section 22.11.2.

3.12. CONTAINER LABELING REQUIREMENTS

The Permittee shall comply with the labeling requirements of 40 CFR 262.30-262.32 and NAC 444.8671 and in accordance with Permit Application Section 22.3.2.

3.13. CLOSURE

Upon closure of any of the container storage areas, the Permittee shall remove all hazardous waste and hazardous waste residues from the containment system or area, as required by 40 CFR 264.178 and in accordance with the Closure Plan in Permit Application Appendix 13-A.

3.14. COMPLIANCE SCHEDULE

	Task	Date Due
1	*Reserved*	

4. SUMMARY

The tank storage portion of the facility includes two (2) waste solution storage tanks. These two tanks are made of fiberglass reinforced plastic (FRP) and are used for storage of treated waste solution prior to shipment off-site for further treatment and/or disposal. The facility does not receive or process any organic waste (hence no Volatile Organic Compounds); as such, these tanks are not subject to 264 Subpart BB and CC air emission regulations. The maximum amount and type of wastes that may be handled are discussed below in Permit Condition 4.1.

4.1. PERMITTED AND PROHIBITED WASTE IDENTIFICATION

4.1.1. The Permittee may store in Tanks ST-1 and ST-2 any hazardous waste identified in Part A of the Permit Application, subject to the terms of this Permit.

4.1.2. The Permittee is prohibited from storing hazardous waste that is not identified in Permit Condition 4.1.1.

4.1.3. The Permittee may store a total volume of 7,200 gallons of hazardous waste in the two tanks listed below, subject to the terms of this Permit and as follows:

Table 4.1

Tank ID #	Dimensions	Material of construction	Description	Waste Code	Capacity (Gallons)
ST-1 (1540-TK-012)	7.5 ft. D x 15 ft. H	FRP*	Treated Waste Solution Storage	D002, D004, D005, D006, D007, D008, D009, D010 & D011	3,600
ST-2 (1540-TK-035)	7.5 ft. D x 15 ft. H	FRP	Treated Waste Solution Storage	D002, D004, D005, D006, D007, D008, D009, D010 & D011	3,600
				Total =	7,200 Gallons

* Fiberglass Reinforced Plastic

4.1.4. The Permittee may store hazardous waste for up to one (1) year in any of the two storage tanks listed in Table 4.1. *[40 CFR 268.50(b)]*

4.2. SECONDARY CONTAINMENT AND INTEGRITY ASSESSMENTS

4.2.1. The Permittee shall design, construct, and operate the secondary containment system(s), in accordance with the detailed design plans and descriptions contained in Permit Application Section 23.2. *[40 CFR 264.193(a)-(f)]*

4.2.2. The Permittee shall submit the integrity assessments to the Director prior to operation of any new tank system, as stated in Permit Application Section 23.4. *[40 CFR 264.192]*

4.3. OPERATING REQUIREMENTS

4.3.1. The Permittee shall not place hazardous wastes or treatment reagents in the tank system if they could cause the tank, its ancillary equipment, or a containment system to rupture, leak, corrode, or otherwise fail. *[40 CFR 264.194(a)]*

4.3.2. The Permittee shall prevent spills and overflows from the tank or containment systems using the methods described in Permit Application Section 23.6.1. *[40 CFR 264.194(b)]*

4.4. RESPONSE TO LEAKS OR SPILLS

4.4.1 In the event of a leak or a spill from the tank system, from a secondary containment system, or if a system becomes unfit for continued use, the Permittee shall comply with Permit Application Section 23.8 and remove the system from service immediately and complete the following actions: *[40 CFR 264.196]*

1. Immediately stop the flow of hazardous waste into the tank system or secondary containment system and inspect the system to determine the cause of the release.
2. If the release is from the tank system, the Permittee must, within 24 hours after detection of the leak or, if the Permittee demonstrates that it is not possible, at the earliest practicable time, remove as much of the waste as is necessary to prevent further release of hazardous waste to the environment and to allow inspection and repair of the tank system to be performed.

   If the material released is to a secondary containment system, all released materials must be removed within 24 hours or in as timely a manner as is possible to prevent harm to human health and the environment.
3. Contain visible releases to the environment. The Permittee shall immediately conduct a visual inspection of all releases to the environment and based on that inspection: (1) prevent further migration of the leak or spill to soils or surface water and (2) remove and properly dispose of any visible contamination of the soil or surface water.
4. Close the system in accordance with the Closure Plan in Permit Application Appendix 13-A and as stated in Permit Application section 23.9, unless the following actions are taken:

4.1 For a release caused by a spill that has not damaged the integrity of the system, the Permittee may return the system to service as soon as the released waste is removed and repairs, if necessary, are made.

4.2 For a release caused by a leak from the primary tank system into the secondary containment system, the Permittee shall repair the system prior to returning the tank system to service.

4.3 If the Permittee replaces a component of the tank system to eliminate the leak, that component must satisfy the requirements for new tank systems or components in 40 CFR 264.192 and 264.193.

4.4.2. For all major repairs to eliminate leaks or restore the integrity of the tank system, the Permittee must obtain a certification by a qualified Professional Engineer that the repaired system is capable of handling hazardous wastes without release for the intended life of the system before returning the system to service. Examples of major repairs are: installation of an internal liner, repair of a ruptured tank, or repair of a secondary containment.

4.5. INSPECTION SCHEDULES AND PROCEDURES

4.5.1. The Permittee shall inspect the tank systems, in accordance with Permit Application Sections 4 and 23.7, and complete the items in Permit Conditions 4.5.2 and 4.5.3 as part of those inspections.

4.5.2. The Permittee shall inspect the overfill controls in accordance with the inspection plan in Permit Application Appendices 4-A and 4-B. *[40 CFR 264.195(a)]*

4.5.3. The Permittee shall inspect the following components of the tank system once each operating day: *[40 CFR 264.195(b), (c) and (f)]*

1. Data gathered from monitoring and leak detection equipment (e.g., pressure or temperature gauges, monitoring wells) to ensure that the tank system is being operated according to its design;
2. Aboveground portions of the tank system, if any, to detect corrosion or releases of waste;
3. Construction materials and the area immediately surrounding the externally accessible portion of the tank system, including the secondary containment system, to detect erosion or signs of releases of hazardous waste (e.g., wet spots, dead vegetation).
4. Ancillary equipment that is not provided with secondary containment, as described in 40 CFR 264.193(f)(1)-(4).

4.5.4. The Permittee shall document compliance with Permit Conditions 4.5.1 through 4.5.3 and place this documentation in the operating record for the facility. *[40 CFR 264.195(h)]*

4.6. RECORDKEEPING AND REPORTING

4.6.1. The Permittee shall report to the Director, within 24 hours of detection, when a leak or spill occurs from the tank system or secondary containment system to the environment. (A leak or spill of one pound or less of hazardous waste, that is immediately contained and cleaned-up, need not be reported). If the Permittee has reported the release pursuant to 40 CFR 302, that report satisfies the requirements of this Permit Condition. *[40 CFR 264.196(d)(1) and (2)]*

4.6.2. Within 30 days of detecting a release to the environment from the tank system or secondary containment system, the Permittee shall report the following information to the Director: *[40 CFR 264.196(d)(3)]*

1. Likely route of migration of the release;
2. Characteristics of the surrounding soil (including soil composition, geology, hydrogeology, and climate);
3. Results of any monitoring or sampling conducted in connection with the release. If the Permittee finds it will be impossible to meet this time period, the Permittee should provide the Director with a schedule of when the results will be available. This schedule must be provided before the required 30-day submittal period expires;
4. Proximity of down-gradient drinking water, surface water, and populated areas; and
5. Description of response actions taken or planned.

4.6.3. The Permittee shall submit to the Director all certifications of major repairs to correct leaks within seven days from returning the tank system to use. *[40 CFR 264.196(f)]*

4.6.4. The Permittee shall maintain at the facility a record of the results of leak tests and integrity tests conducted in accordance with 40 CFR 264.192 (a) and (d).

4.6.5. The Permittee shall obtain, and keep on file at the facility, the written statements by those persons required to certify the design and installation of the tank system. *[40 CFR 264.192(g)]*

4.7. SPECIAL TANK PROVISIONS FOR IGNITABLE OR REACTIVE WASTES

4.7.1. The Permittee shall not place ignitable or reactive waste in the tank system or in the secondary containment system. *[40 CFR 264.198(a)]*

4.7.2. The Permittee shall comply with the requirements for the maintenance of protective distances between the waste management area and any public ways, streets, alleys, or an adjoining property line that can be built upon, as required in Tables 2-1 through 2-6 of the National Fire Protection Association's "Flammable and Combustible Liquids Code" (1977 or 1981). *[40 CFR 264.198(b)]*

4.8. SPECIAL TANK PROVISIONS FOR INCOMPATIBLE WASTES

4.8.1. The Permittee shall not place incompatible wastes, or incompatible wastes and materials, in the same tank system or the same secondary containment system. *[40 CFR 264.199(a)]*

4.8.2. The Permittee shall not place hazardous waste in a tank system that has not been decontaminated and that previously held an incompatible waste or material. *[40 CFR 264.199(b)]*

4.9. CLOSURE AND POST-CLOSURE CARE

4.9.1. At closure of the tank system(s), the Permittee shall follow the procedures in the Closure Plan in Permit Application Appendix 13-A. *[40 CFR 264.197(a)]*

4.9.2. If the Permittee demonstrates that not all contaminated soils can be practically removed or decontaminated in accordance with the Closure Plan, then the Permittee shall close the tank system(s) and perform post-closure care in accordance with 40 CFR 264.197(b).

4.10. COMPLIANCE SCHEDULE

	Task	Date Due
1	**Conduct** tank integrity assessments and **submit** required certifications	Prior to commencing tank operation
2	*Reserved*	

5. SUMMARY

The amount and type of wastes that may be treated in tanks are discussed in this Section. The containment systems employed for the treatment tanks are discussed in Permit Application Section 23.2. There are four (4) treatment tanks for the treatment of calomel (mercurous chloride) wastes using a caustic leach process (see Table 5.1). The facility does not receive or process any organic waste (hence no VOCs); as such, these tanks are not subject to 264 Subpart BB and CC air emission regulations.

5.1. PERMITTED AND PROHIBITED WASTE IDENTIFICATION

5.1.1. The Permittee may treat in tanks any hazardous waste identified in Part A of the Permit Application in the treatment tanks listed in Table 5.1 within the parameters outlined in Permit Application Section 23.

5.1.2. The Permittee is prohibited from treating hazardous waste that is not identified in Permit Condition 5.1.1.

5.1.3. The Permittee may treat 400 gallons/day of hazardous waste each in Treatment Tanks TT-1 through TT-3 and 300 gallons/day of hazardous waste in TT-4; a total of 1500 gallons/day, subject to the terms of this Permit.

Table 5.1

Tank ID #	Dimensions	Description	Material of Construction	Waste Code	Design Capacity (gallons)	Permitted Throughput (gallons/day)[1]
TT-1 1420-TK-033	5 ft. D x 6 ft. H	Decomposition Tank	FRP*	D002, D004, D005, D006, D007, D008, D009, D010 & D011	400	400
TT-2 1420-TK-037	5 ft. D x 6 ft. H	Waste Solution Treatment Tank	FRP	D002, D004, D005, D006, D007, D008, D009, D010 & D011	400	400
TT-3 1440-TK-114	5 ft. D x 6 ft. H	Waste Solution collection Tank	FRP	D002, D004, D005, D006, D007, D008, D009, D010 & D011	400	400
TT-4 1440-TK-116	3.5 ft. D x 6.5 ft. H	Waste Solution Settling Tank	FRP	D002, D004, D005, D006, D007, D008, D009, D010 & D011	300	300
					Total =	1500 gallons/day

* Fiberglass Reinforced Plastic

1 Caustic leach treatment is a batch process which may process more than one batch in a 24 hour period.

5.2. SECONDARY CONTAINMENT AND INTEGRITY ASSESSMENT

5.2.1. The Permittee shall submit the tank integrity assessments to the Director prior to operation of any new tank system and whenever the tanks are re-evaluated, as stated in Permit Application Section 23.4. *[40 CFR 264.192(a) & (b)]*

5.2.2. The Permittee shall ensure that all ancillary equipment is supported and protected against physical damage and excessive stress due to settlement, vibration, expansion, or contraction. *[40 CFR 264.192 (e)]*

5.2.3. The Permittee shall design, construct, and operate the secondary containment system(s), in accordance with the detailed design plans and descriptions contained in the Permit Application Sections 23.2, 23.5 and drawing# H340940-0000-50-015-0008. *[40 CFR 264.193(a)-(f)]*

5.3. OPERATING REQUIREMENTS

5.3.1. The Permittee shall not place hazardous wastes or treatment reagents in the tank system if they could cause the tank, its ancillary equipment, or a containment system to rupture, leak, corrode, or otherwise fail. *[40 CFR 264.194(a)]*

5.3.2. The Permittee shall prevent spills and overflows from the tank or containment systems using the methods described in Permit Application Section 23.6.1. *[40 CFR 264.194(b)]*

5.4. RESPONSE TO LEAKS OR SPILLS

5.4.1. In the event of a leak or a spill from the tank system, from a secondary containment system, or if a system becomes unfit for continued use, the Permittee shall comply with Permit Application Section 23.8 and remove the system from service immediately and complete the following actions: *[40 CFR 264.196]*

1. Immediately stop the flow of hazardous waste into the system and inspect the system to determine the cause of the release.
2. If the release is from the tank system, the Permittee must, within 24 hours after detection of the leak or, if the Permittee demonstrates that it is not possible, at the earliest practicable time, remove as much of the waste as is necessary to prevent further release of hazardous waste to the environment and to allow inspection and repair of the tank system to be performed.

   If the material released is to a secondary containment system, all released materials must be removed within 24 hours or in as timely a manner as is possible to prevent harm to human health and the environment.
3. Contain visible releases to the environment. The Permittee shall immediately conduct a visual inspection of all releases to the environment and based on that inspection: (1) prevent further migration of the leak or spill to soils or surface water and (2) remove and properly dispose of any visible contamination of the soil or surface water.

4. Close the system in accordance with the Closure Plan in Permit Application Appendix 13-A, and as stated in Permit Application Section 23.9, unless the following actions are taken:
   - 4.1 For a release caused by a spill that has not damaged the integrity of the system, the Permittee may return the system to service as soon as the released waste is removed and repairs, if necessary, are made.
   - 4.2 For a release caused by a leak from the primary tank system into the secondary containment system, the Permittee shall repair the system prior to returning the tank system to service.
   - 4.3 If the Permittee replaces a component of the tank system to eliminate the leak, that component must satisfy the requirements for new tank systems or components in 40 CFR 264.192 and 264.193.

5.4.2. For all major repairs to eliminate leaks or restore the integrity of the tank system, the Permittee must obtain a certification by a qualified Professional Engineer that the repaired system is capable of handling hazardous wastes without release for the intended life of the system before returning the system to service. Examples of major repairs are: installation of an internal liner, repair of a ruptured tank, or repair of a secondary containment.

5.5. INSPECTION SCHEDULES AND PROCEDURES

5.5.1. The Permittee shall inspect the tank systems, in accordance with the Inspection Plan in Permit Application Appendices 4-A and 4-B, and complete the items in Permit Conditions 5.5.2 and 5.5.3 as part of those inspections.

5.5.2. The Permittee shall inspect the overfill controls in accordance with the schedule in Permit Application Appendices 4-A and 4-B. *[40 CFR 264.195(a)]*

5.5.3. The Permittee shall inspect the following components of the tank system once each operating day: *[40 CFR 264.195(b), (c) and (f)]*

1. Data gathered from monitoring and leak detection equipment (e.g., pressure or temperature gauges, monitoring wells) to ensure that the tank system is being operated according to its design;
2. Aboveground portions of the tank system, if any, to detect corrosion or releases of waste;
3. Construction materials and the area immediately surrounding the externally accessible portion of the tank system, including the secondary containment system, to detect erosion or signs of releases of hazardous waste (e.g., wet spots, dead vegetation).
4. Ancillary equipment that is not provided with secondary containment, as described in 40 CFR 264.193(f)(1)-(4).

5.5.4. The Permittee shall document compliance with Permit Conditions 5.5.1 through 5.5.3 and place this documentation in the operating record for the facility. *[40 CFR 264.195(h)]*

5.6. RECORDKEEPING AND REPORTING

5.6.1. The Permittee shall report to the Director, within 24 hours of detection, when a leak or spill occurs from the tank system or secondary containment system to the environment. (A leak or spill of one pound or less of hazardous waste, that is immediately contained and cleaned-up, need not be reported). If the Permittee has reported the release pursuant to 40 CFR 302, that report satisfies the requirements of this Permit Condition. *[40 CFR 264.196(d)(1) and (2)]*

5.6.2. Within 30 days of detecting a release to the environment from the tank system or secondary containment system, the Permittee shall report the following information to the Director: *[40 CFR 264.196(d)(3)]*

1. Likely route of migration of the release;
2. Characteristics of the surrounding soil (including soil composition, geology, hydrogeology, and climate);
3. Results of any monitoring or sampling conducted in connection with the release. If the Permittee finds it will be impossible to meet this time period, the Permittee should provide the Director with a schedule of when the results will be available. This schedule must be provided before the required 30-day submittal period expires;
4. Proximity of downgradient drinking water, surface water, and populated areas; and
5. Description of response actions taken or planned.

5.6.3. The Permittee shall submit to the Director all certifications of major repairs to correct leaks within seven days from returning the tank system to use. *[40 CFR 264.196(f)]*

5.6.4. The Permittee shall obtain, and keep on file at the facility, the written statements by those persons required to certify the design and installation of any new tank system. *[40 CFR 264.192(g)]*

5.6.5. The Permittee shall maintain at the facility a record of the results of leak tests and integrity tests conducted, in accordance with 40 CFR 264.192 (a) and (d).

5.7. SPECIAL TANK PROVISIONS FOR IGNITABLE OR REACTIVE WASTES

5.7.1. The Permittee shall not place ignitable or reactive waste in the tank system or in the secondary containment system. *[40 CFR 264.198(a)]*

5.7.2. The Permittee shall comply with the requirements for the maintenance of protective distances between the waste management area and any public ways, streets, alleys, or an adjoining property line that can be built upon, as required in Tables 2-1 through 2-6 of the National Fire Protection Association's "Flammable and Combustible Liquids Code" (1977 or 1981). *[40 CFR 264.198(b)]*

5.8. SPECIAL TANK PROVISIONS FOR INCOMPATIBLE WASTES

5.8.1. The Permittee shall not place incompatible wastes, or incompatible wastes and materials, in the same tank system or the same secondary containment system. *[40 CFR 264.199(a)]*

5.8.2. The Permittee shall not place hazardous waste in a tank system that has not been decontaminated and that previously held an incompatible waste or material. *[40 CFR 264.199(b)]*

5.9. CLOSURE AND POST-CLOSURE CARE

5.9.1. At closure of the tank system(s) the Permittee shall follow the procedures in the Closure Plan in Permit Application Appendix 13-A. *[40 CFR 264.197(a)]*

5.9.2. If the Permittee demonstrates that not all contaminated soils can be practically removed or decontaminated in accordance with the Closure Plan, then the Permittee shall close the tank system(s) and perform post-closure care in accordance with the 40 CFR 264.197 (b).

5.9. COMPLIANCE SCHEDULE

	Task	*Date Due*
1	**Conduct** tank integrity assessments and **submit** required certifications	Prior to commencing tank operation
2	*Reserved*	

6. SUMMARY

In addition to the container management, tank storage, and tank treatment units described elsewhere in this Permit, the Permittee will also operate two Subpart X (i.e. Miscellaneous) Units with the possibility of one additional unit in the future. The Miscellaneous Units at the facility include: (1) one Filter Press, (2) one Retort and (3) one future Retort. These units are located in the process area of the facility as shown respectively in Figures 1.2-3 and 1.2-4 in Permit Application Section 1.2.

These RCRA Miscellaneous Units are permitted under the Subpart X requirements of 40CFR 264 (40CFR264.600-264.603) and may include additional requirements pursuant to 40CFR 270.32(b)(2) for further protective measures for both human health and environment.

6.1 MISCELLANEOUS UNIT DESCRIPTION

The Miscellaneous Units and their surrounding areas are not permitted for the storage of hazardous waste.

6.1.1 Filter Press

This filter press is used to physically separate solids from liquids. It consists of a shell with plates in a chamber. The unit is constructed of epoxy coated steel. A high density polypropylene filter cloth is used to filter solids from the waste solution. The Filter Press is a mechanical processing unit not meeting the definition of a tank (40 CFR 260.10). The Permittee shall operate the filter press as described in Permit Application Section 30.2.

6.1.2 Retort

The retort will be the primary treatment unit to reclaim elemental mercury from mercury-bearing materials accepted for treatment at the facility, as well as for mercury-bearing wastes generated by the facility. The Retort does not meet the definition of an incinerator, boiler or industrial furnace (40 CFR 260.10) because it is an electric thermal treatment unit with no flame. Mercury-bearing materials are heated in the retort and elemental mercury is recovered (with a purity content of 99.5% or greater) as it vaporizes and separates from the feed, rather than being destroyed. The Permittee shall operate the retort as described in Permit Application Section 30.1.

6.2 PERMITTED AND PROHIBITED WASTE IDENTIFICATION AND PERMITTED CAPACITY – TREATMENT

6.2.1 The Permittee may treat at the Filter Press and Retort the hazardous waste identified in Table 6.2, within the parameters outlined in Permit Application Sections 30.2 and 30.1 respectively.

6.2.2 The Permittee is prohibited from treating in the Filter Press and Retort any hazardous waste not identified in Table 6.2 below.

6.2.3 The Permittee may dewater up to 400 gallons of waste solution per day in the Filter Press and process up to 110 gallons of mercury-bearing waste per day in the Retort[1], subject to the terms of this Permit.

Table 6.2 – Miscellaneous Units

Description	Miscellaneous Code & Process	Approximate Dimensions	Permitted Throughput	Permitted EPA Waste Code
Filter Press 1420-FL-036	X02 Mechanical Processing	13.5 ft. L x 4.7 ft. W x 4.9 ft. H	400 gallons/day	D002, D004, D005, D006, D007, D008, D009, D010 & D011
Retort 1410-MR-003	X03 Thermal Unit	13.6 ft. L x 8.1 ft. W x 12.4 ft. H	110 gallons/day[1]	D002, D004, D005, D006, D007, D008, D009, D010 & D011
Retort *Future Unit*	X03 Thermal Unit	TBD-	110 gallons/day	D002, D004, D005, D006, D007, D008, D009, D010 & D011

6.3 SECONDARY CONTAINMENT

6.3.1 The Permittee shall maintain and operate the secondary containment in accordance with the descriptions in Permit Application Section 30. *[40 CFR 264.193(a)-(f)]*

6.3.2 The Permittee shall maintain and operate the containment as follows:

1. Keep it free of cracks or gaps and impervious to contain leaks and spills until the collected material is detected and removed;
2. Prevent stormwater run-on into the containment system; and
3. Remove spilled waste within 24 hours or in as timely a manner as is possible to prevent overflow of the containment.

6.3.3 The Permittee shall submit the integrity assessments required under 40 CFR 264.192 to the Director prior to operation of the Miscellaneous Units.

6.4 OPERATING REQUIREMENTS

The Filter Press and Retort shall be operated in accordance with the requirements of this Permit Section and the vendor operating and maintenance manual as stated in Permit Application Section 30 (Miscellaneous Treatment-Subpart X).

6.4.1 The Permittee shall comply with the Environmental Performance Standard provisions of 40 CFR 264.601 by following the operating procedures and controls described in Permit Application Section 30.

6.4.2 The Permittee shall not place hazardous wastes or treatment reagents in a Miscellaneous Unit that could cause the unit, its ancillary equipment, or its containment to rupture, leak, corrode, or otherwise fail. *[40 CFR 264.194(a)]*

6.4.3 The Permittee shall prevent spills and overflows from the Miscellaneous Unit, its ancillary equipment, or its containment using the methods described in Permit Application Section 30.

[1] Retort operation is a batch process (at 110 gallons per batch) which may process longer than 24 hours.

6.4.4 The Permittee shall transfer waste between tanks, containers, or Miscellaneous Units in accord with Permit Application Section D2.4.1 (Tank System Transfer Operations).

6.5 RESPONSE TO LEAKS OR SPILLS

A Miscellaneous Unit, its secondary containment, or its ancillary equipment from which there has been a leak or spill, or which is unfit for use, must be removed from service immediately, and the Permittee shall implement the Contingency Plan in Permit Application Appendix 6-A, and must satisfy the following requirements: *[40 CFR 264.196]*

1. Immediately stop the flow of hazardous waste into the Miscellaneous Unit, its secondary containment, or its ancillary equipment and inspect the system to determine the cause of the release. *[40 CFR 264.196(a)]*

2. If the release is from the Miscellaneous Unit, or its ancillary equipment, the Permittee must, within 24 hours after detection of the leak, remove as much of the waste as is necessary to prevent further release of hazardous waste to the environment and to allow inspection and repair of the Miscellaneous Unit, or its ancillary equipment to be performed. If the Permittee finds that it will not be possible to meet this time period, the Permittee shall notify the Director and demonstrate that a longer period is required.

   If the release is to a secondary containment, all released materials must be removed within 24 hours or in as timely a manner as is possible to prevent harm to human health and the environment. *[40 CFR 264.196(b)]*

3. If the collected material is a RCRA hazardous waste, the waste shall be managed in accordance with all applicable requirements of 40 CFR Parts 262-264. The Permittee shall note that if the collected material is discharged through a point source to waters of the U.S. or to a Publicly Owned Treatment Works (POTW), it is subject to the requirements of the Clean Water Act. If the collected material is released to the environment, it may be subject to reporting requirements under 40 CFR Part 302.

4. Immediately conduct a visual inspection of the release and, based upon that inspection, the Permittee shall: *[40 CFR 264.196(c)]*

   (a) Prevent further migration of the leak or spill to soils or surface water; and

   (b) Remove and properly dispose of any visible contamination of the soil or surface water.

   Unless the Permittee satisfies the requirements of Permit Conditions 6.5.5(a) and 6.5.5(b) below, the Miscellaneous Unit must be closed in accordance with Permit Condition 6.8.

   [40 CFR 264.196(e)(1)]

   (a) For a release caused by a spill that has not damaged the integrity of the unit, the Permittee may return the unit to service as soon as the released waste is removed and repairs, if necessary, are made. *[40 CFR 264.196(e)(2)]*

   (b) For a release caused by a leak from the unit into the secondary containment, the Permittee shall repair the containment prior to returning the Miscellaneous Unit to service. *[40 CFR 264.196(e)(3)]*

(1) If a component of the Miscellaneous Unit is replaced to eliminate the leak, the new component must satisfy the requirements for new Miscellaneous Unit component in 40 CFR 264.601 and 264.602.

6.5.1 If extensive repairs to a Miscellaneous Unit or containment are made (for example, installation of an internal liner; repair of a ruptured primary or secondary containment vessel), the Miscellaneous Unit must not be returned to service until the Permittee has obtained a certification by a qualified Professional Engineer in accordance with 40 CFR 270.11(d) that the repaired unit or containment is capable of handling hazardous wastes without release for the intended life of the system. This certification must be placed in the operating record and maintained until closure of the facility; and a copy submitted to the Director. *[40 CFR 264.196(f)]*

6.6 INSPECTION SCHEDULES AND PROCEDURES

6.6.1 The Permittee shall inspect the Miscellaneous Unit, its ancillary equipment, and its secondary containment in accordance with the Inspection Plan in Permit Application Appendix 4-A.

6.6.2 The Permittee shall inspect the Miscellaneous Unit, its ancillary equipment, and its secondary containment area daily for condition, proper equipment operation, and housekeeping.

6.6.3 The Permittee shall perform maintenance and testing on the Miscellaneous Unit in accordance with the vendor operating and maintenance manual as stated in Permit Application Section 30 (Miscellaneous Treatment-Subpart X).

6.6.4 The Permittee shall document compliance with Permit Conditions 6.6.1 through 6.6.3 and place this documentation in the operating record for the facility. *[40 CFR 264.195(h)]*

6.7 RECORDKEEPING AND REPORTING

6.7.1 The Permittee shall report to the Director, within 24 hours of detection, when a leak or spill occurs from the Miscellaneous Unit or its secondary containment or its ancillary equipment to the environment. (A leak or spill of one pound or less of hazardous waste, that is immediately contained and cleaned-up, need not be reported.) If the Permittee has reported the release pursuant to 40 CFR Part 302, that report satisfies the requirements of this Permit Condition.
[40 CFR 264.196(d)(1) and (2)]

6.7.2 Within 30 days of detecting a release to the environment from the Miscellaneous Unit or its secondary containment or its ancillary equipment, the Permittee shall report the following information to the Director: *[40 CFR 264.196(d)(3)]*

1. Likely route of migration of the release;
2. Characteristics of the surrounding soil (including soil composition, geology, hydrogeology, and climate);
3. Results of any monitoring or sampling conducted in connection with the release. If the Permittee finds it will be impossible to meet this time period, the Permittee should

provide the Director with a schedule of when the results will be available. This schedule must be provided before the required 30-day submittal period expires;

4. Proximity of down-gradient drinking water, surface water, and populated areas; and
5. Description of response actions taken or planned.

6.7.3 The Permittee shall submit to the Director all certifications of major repairs to correct leaks within seven days from returning the Miscellaneous Unit to use. *[40 CFR 264.196(f)]*

6.7.4 The Permittee shall maintain at the facility a record of the results of leak tests and integrity tests conducted, as applicable. *[40 CFR 264.192(a) and (d)]*

6.7.5 The Permittee shall obtain and keep on file at the facility the written statements by those persons (e.g. qualified Professional Engineer or the equipment vendor) required to certify the design and installation of the Miscellaneous Unit. *[40 CFR 264.192(g)]*

6.7.6 The Permittee shall maintain at the facility, until closure is completed for all Miscellaneous Units and certified by a qualified Professional Engineer, the following documents and information specific to the Miscellaneous Units, including all amendments, revisions and modifications to these documents and information:

1. A description of the containment systems showing the following:
   (a) Basic design parameters, dimensions, and materials of construction;
   (b) How the design promotes drainage or how containers are kept from contact with standing liquids in the containment system;
   (c) Capacity of the containment system relative to the number and volume of containers to be stored;
   (d) Provisions for preventing or managing run-on; and
   (e) How accumulated liquids can be analyzed and removed to prevent overflow.
2. Where incompatible, wastes are stored or otherwise managed in the containers of this subpart, a description of the procedures used to ensure compliance with 40 CFR 264.175 (a) and (b), and 40 CFR 264.17 (b) and (c).

6.8 CLOSURE AND POST-CLOSURE CARE

6.8.1 At closure, the Permittee shall follow the procedures in the Closure Plan, Permit Application Appendix 13-A, for the Miscellaneous Units identified in Table 6.2, above.
[40 CFR 264.197(a)]

6.8.2 If the Permittee cannot remove or decontaminate all soils, secondary containment systems, appurtenances, etc. in accordance with the Closure Plan, then the Permittee shall close the Miscellaneous Unit or Units and perform post-closure care in accordance with 40 CFR 264.603.

6.9 COMPLIANCE SCHEDULE

	Task	Date Due
1	In accordance with Permit Condition 1.5.12.1, the Permittee shall provide written notification to NDEP prior to the installation of an additional retort system. The submitted notification shall include documentation verifying that the operating, maintenance, closure and emergency response procedures and plans have all been updated adequately to address respective elements for the new retort system. Verification shall also be provided to ensure that the closure cost estimate has been updated to include the additional equipment.	At least **60 days prior** to commencing installation of the new retort.
2	*Reserved*	

7. SUMMARY

The US EPA's National Waste Minimization Program supports efforts that promote a more sustainable society, reduce the amounts of waste generated, and lower the toxicity and persistence of wastes that are generated. The Permittee is required to conduct a Waste Minimization Program in accordance with this section of the Permit.

7.1. WASTE MINIMIZATION RECORD

The Permittee shall maintain at the facility copies of waste minimization documents required in Permit Conditions 7.2 and 7.3 and shall make them available to any authorized representative of the Division or US EPA conducting an inspection, pursuant to 40 CFR 270.32 (b).

7.2. WASTE MINIMIZATION CERTIFICATION

The Permittee shall annually certify the following in accordance with 40 CFR 264.73 (b)(9):

1. The Permittee has a program in place to reduce the volume and toxicity of all hazardous wastes which are generated by the facility operations to the degree, determined by the Permittee, to be economically practicable; and,
2. The method of treatment, storage, or disposal is the only practicable method or combination of methods currently available to the facility, which minimizes the present and future threat to human health and the environment.
3. This certification shall be retained with the facility's operating record and shall comply with the signatory requirements of Permit Condition 1.5.13.

7.3. SOURCE REDUCTION PLANS AND REPORTS

7.3.1. Source Reduction Evaluation Review and Plan

Within one (1) year of the effective date of this Permit, and at each permit renewal thereafter, the Permittee shall submit a source reduction evaluation review and plan to the Director. The review and plan should be conducted and prepared in accordance with the procedures and format provided in the EPA Waste Minimization Opportunity Assessment Manual or other equivalent source reduction guidance. The review and plan shall include at a minimum the following:

[40 CFR 270.32(b)]

1. The name and location of the facility.
2. The NAIC/SIC Code of the facility.
3. A copy of any written company policy or statement that outlines the general goals, objectives, and methods of source reduction to be implemented within the next five years.
4. Identification of all routinely generated hazardous waste streams, which result from ongoing processes or operations.
5. For each hazardous waste stream identified in Permit Condition 7.3.1.4 the following information shall be included:

1. An estimate of the quantity of hazardous waste generated.
2. An evaluation of source reduction approaches available to the Permittee, which are potentially viable. The evaluation shall consider at a minimum the following source reduction approaches:
    1. Input change;
    2. Operational improvement;
    3. Production process change; and,
    4. Product reformulation.

6. Any source reduction and/or recycling measure implemented by the Permittee in the last five years.

7. A specification of, and a rationale for, the technically feasible and economically practicable source reduction measures, which will be taken by the Permittee with respect to each waste stream identified. The review and plan shall fully document any statement explaining the Permittee's rationale for rejecting any available source reduction approach identified in Permit Condition 7.3.1.5.[1]

8. A detailed description of any programs the Permittee may have to assist generators of hazardous waste in reducing the volume or quantity and toxicity of wastes they produce.

9. An evaluation, and, to the extent practicable, a quantification, of the effects of the chosen source reduction method on emissions and discharges to the air, water, or land environmental mediums.

10. A description of employee training programs and employee incentive programs for source reduction, which may be in effect at the facility.

11. A timetable for making reasonable and measurable progress towards implementation of the selected source reduction measures identified in Permit Condition 7.3.1.7.

12. A summary of the source reduction evaluation review and plan.

13. Certification of the review and plan and the summary by a qualified Professional Engineer, or by an individual who is responsible for the processes and operation of the facility, or by an environmental assessor, who has demonstrated expertise in hazardous waste management. The engineer, individual, or assessor shall certify the review and plan and the summary only if the review and plan and the summary meet all the requirements of Permit Condition 7.3.1.

7.3.2. Certification of Plan Implementation

At the time the review and plan required by Permit Condition 7.3.1 is submitted to the Director, the Permittee shall also submit a written statement from a responsible official of the facility

[1] Note: NDEP/EPA does not consider a source reduction method to be valid if it merely switches the waste load from one environmental medium (air, water, or land) to another.

certifying that the Permittee has implemented, is implementing, or will be implementing, the source reduction measures identified in the plan according to the implementation schedule contained in the Source Reduction Plan.

7.3.2.1. The Permittee may determine not to implement a measure selected pursuant to Permit Condition 7.3.1.7 only if the Permittee determines, upon conducting further analysis or due to unexpected circumstances, that the selected measure is not technically feasible or economically practicable, or if attempts to implement that measure reveal that the measure would result in, or has resulted in, any of the following:

1. An increase in the generation of waste (hazardous and solid).
2. An increase in the release of hazardous chemicals to other environmental media.
3. Adverse impacts on product quality.
4. A significant increase in the risk of an adverse impact to human health or the environment.

7.3.3. Source Reduction Plan and Plan Summary Amendments

If the Permittee elects not to implement the measures selected pursuant to Permit Condition 7.3.1.7, the Permittee shall amend its review and plan, and its summary to reflect this rejection and include in the review and plan, and in the summary, proper documentation identifying the rationale for this rejection. Any amendments to the review and plan or the plan summary shall be submitted to the Director no later than 30 days prior to implementation of the changes.

[40 CFR 270.32(b)]

7.3.4. Hazardous Waste Management Performance Report

Within one (1) year of the effective date of this permit and every year thereafter, the Permittee shall prepare a hazardous waste management performance report documenting hazardous waste management approaches implemented at the facility. The report shall be prepared in accordance with the EPA Waste Minimization Opportunity Assessment Manual or other equivalent source reduction guidance. The report shall include at a minimum the following: *[40 CFR 270.32(b)]*

1. The name and location of the facility.
2. The SIC Code for the facility.
3. The following information for each waste stream identified pursuant to Permit Condition 7.3.1.4.

    1. An estimate of the quantity of hazardous waste generated and the quantity of hazardous waste managed by the Permittee during the current reporting year and the baseline year. The current reporting year is the calendar year immediately preceding the year in which the report is to be prepared. For the initial report, the baseline year is any calendar year selected by the Permittee for which substantial data is available on waste generation, or on-site or off-site management. Alternatively, the Permittee may select the current reporting year as the initial baseline year. For all subsequent reports, the baseline year is the current reporting year of the immediately preceding report.

2. An assessment of the effect, during the current year, of each hazardous waste management measure implemented since the baseline year, upon the generation and the on-site and off-site management of hazardous waste. For the initial report, the assessment of the effect required by this condition shall be made for the current year in general terms for any waste management measures implemented in the preceding five years. The report shall consider, but shall not be limited to, measures which use the following approaches:
    1. Source reduction.
    2. Recycling.
    3. Treatment.

3. A description of factors during the current reporting year that have affected hazardous waste generation and on-site and off-site hazardous waste management since the baseline year. For the initial report, the description of factors shall be made in general terms for those factors affecting generation and management in the preceding five years. The description shall include, but is not limited to, any of the following:
    1. Changes in business activity.
    2. Changes in waste classification.
    3. Natural phenomena.
    4. Other factors that have affected either the quantity of hazardous waste generated or on-site and off-site hazardous waste management requirements.

4. A description of any factors, which may have prevented implementation of any aspect of the source reduction plan.

4. A summary of the Hazardous Waste Management Performance Report.

5. Certification of the report and summary by a qualified Professional Engineer, or by an individual who is responsible for the processes and operations of the facility, or by an environmental assessor, who has demonstrated expertise in hazardous waste management. The engineer, individual, or assessor shall certify the report and summary only if the report and summary meet all the requirements of Permit Condition 7.3.4.

7.4. COMPLIANCE SCHEDULE

	Task	Date Due
1	*Reserved*	

Note: This Section is currently not applicable since no organic materials are proposed to be treated, stored or otherwise managed at the PMR facility. However, the PMR facility shall be operated in compliance with the conditions set forth in the air pollution control permit to be issued by the Nevada Division of Environmental Protection (NDEP), Bureau of Air Pollution Control.

Reserved for future use (Organic Air Emissions Conditions)

Note: This Section is currently not applicable since no land disposal is proposed at the PMR facility.
[40 CFR 264.90(a)(2])

Reserved for future use (Groundwater Detection Monitoring)

10. SUMMARY and APPLICABILITY

The objective of the corrective action program at a permitted hazardous waste management facility is to evaluate the nature and extent of a release of hazardous waste and/or constituents; and if necessary, implement corrective measures to protect human health and the environment. Since the permitted facility is to be newly constructed and there are no corrective action issues prior to issuance of this permit, this permit does not include a compliance schedule for any corrective measures pursuant to 40 CFR 264.101.

10.1. AUTHORITY

40 CFR 264.101, adopted by the Director in NAC 444.8632, requires that the Permittee must institute corrective action as necessary to protect human health and the environment for all releases of hazardous waste or constituents from any solid waste management unit at the permitted facility, regardless of the time at which waste was placed in such unit. The Permittee must implement corrective actions beyond the facility property boundary, where necessary to protect human health and the environment, unless the owner or operator demonstrates to the satisfaction of the Director that despite the Permittee's best efforts, the Permittee was unable to obtain the necessary permission to undertake such actions. The Permittee is not relieved of the responsibility to clean up a release that has migrated beyond the facility boundary where off-site access is denied. Onsite measures to address such releases will be determined on a case-by-case basis. Assurances of financial responsibility for such corrective action must be provided.

10.2. CORRECTIVE ACTION SUMMARY and HISTORY

The facility is proposed to be constructed in a remote area on previously undisturbed land. As such, there are no existing Solid Waste Management Units (SWMUs), nor have there been any prior releases of hazardous waste or constituents at the facility. Therefore, any future release or discovery of a release at the facility shall be reported and mitigated by the Permittee per the conditions of this permit.

10.3. DUTY TO IDENTIFY AND REPORT RELEASES

10.3.1 In the event that the Permittee identifies or discovers a release of hazardous waste and/or hazardous constituent(s), the Permittee shall notify the Director orally within 24 hours of discovery and notify the Director in writing in accordance with Permit Condition 1.5.12.7. If a release is detected from the Tank Storage or Tank Treatment systems, the Miscellaneous Units or secondary containment system, the Permittee shall also comply with the reporting requirements of Permit Conditions 4.6.2, 5.6.2, and 6.7.2.

10.3.2 In the event of a reported or suspected release, the Director may require the Permittee to investigate, mitigate and/or take other appropriate action to minimize any immediate or potential threat(s) to human health and/or the environment. These requirements may be in conjunction with, or in addition to, the requirements of Permit Condition 1.5.14.7 and Permit Conditions 4.6.2, 5.6.2 and 6.7.2. Upon written request by the Director, the Permittee shall submit to the

Director any required information or documents needed to further address any identified or potential release(s) in accordance with Permit Condition 1.5.10. Failure to minimize or adequately respond to any sudden or nonsudden release of hazardous waste or constituents violates Permit Condition 2.1. Failure to comply with Permit Condition 2.1 is grounds for modifying, revoking and reissuing, or termination of this Permit in accordance with Permit Condition 1.5.1.

10.4. COMPLIANCE SCHEDULE

	Task	Date Due
1	*Reserved*	

11. SUMMARY

The Permittee shall comply with the Financial Assurance requirements of this section, and establish and maintain an approved financial assurance funding mechanism(s) to fully cover the cost for Closure of the facility, and for any Sudden Liability or required Corrective Action measures resulting from an accidental release at the facility. At the time of this permit issuance, the facility is proposed to be 'clean- closed' without the need for a post-closure monitoring and care period. As such, the required financial assurance does not, at this time, include a funding mechanism for any post-closure care and monitoring of the facility. If necessary, a determination for the financial assurance conditions respective to any required corrective action may be assessed at a later date.

11.1 APPLICABILITY

The requirements of 40 CFR 264.142, 264.143, 264.147, 264.148 and 264.151 apply to the Permittee, except as provided otherwise in this section or in 40 CFR 264.1. The Division may replace all or part of the requirements of this Permit Section applying to any Solid Waste Management Unit with alternative requirements for financial assurance to be set out in this Permit or in an enforceable document (as defined in 40 CFR 270.1(c)(7)), where the Director:

1. Prescribes alternative requirements for that Solid Waste Management Unit(s) (SWMU(s)) under 40 CFR 264.140(d).

11.2 MODIFICATIONS

For changes or modifications to the facility that may affect the financial assurance requirements, the Permittee shall comply with the requirement of Permit Condition 1.2.

11.3 FINANCIAL ASSURANCE FOR FACILITY CLOSURE, SUDDEN LIABILITY AND CORRECTIVE ACTION

Prior to commencement of operations, the Permittee shall demonstrate continuous compliance with 40 CFR 264.142, 264.143, and 264.147 by following the Financial Assurance procedures of Permit Application Section 15.3 and by providing documentation of financial assurance in at least the amount of the cost estimates required by Permit Conditions 11.4 and 11.6. Any proposed changes in the financial assurance mechanisms must be approved by the Director pursuant to 40 CFR 264.143, and in accordance with Permit Condition 1.2. The Permittee shall comply with both Permit Application Section 15.3 and the requirements of this section.

11.4 COST ESTIMATE FOR CLOSURE

The Permittee shall maintain a detailed written estimate, in current dollars, of the cost of closing the entire facility in accordance with the requirements in 40 CFR 264.111 through 40 CFR 264.115 and applicable closure requirements in 40 CFR 264.178, 264.197, 264.351, 264.601 through 264.602, and 264.1102. *[40 CFR 264.142(a)]*

11.4.1. The Closure Cost Estimate:

11.4.1.1. Shall equal the cost of final closure at the point in the facility's active life when the extent and manner of its operation would make closure the most expensive, as indicated by the

facility's Closure Plan (Permit Application Appendix 13-A); *40 CFR 264.142(a)(1)]*

11.4.1.2. Shall be based on the costs of hiring a third party[i] to close the facility; *[40 CFR 264.142 (a)(2)]*

11.4.1.3. May not incorporate any salvage value that may be realized with the sale of hazardous wastes, or non-hazardous wastes if applicable under 40 CFR 264.113(d), facility structures or equipment, land, or other assets associated with the facility at the time of partial or final closure. *[40 CFR 264.142 (a)(3)]*

11.4.1.4. May not incorporate a zero cost for hazardous wastes, or non-hazardous wastes if applicable, under 40 CFR 264.113(d), that might have economic value. *[40 CFR 264.142 (a)(4)]*

11.4.2. Adjustment for Inflation

During the active life of the facility, the Permittee must annually adjust the closure cost estimate for inflation within 60 days prior to the anniversary date of the establishment of the financial instrument(s) used to comply with Permit Condition 11.5 and in accordance with Permit Application Section 15 and Appendix 15-A (*Closure Cost Estimates*). The adjustment may be made by recalculating the maximum costs of closure in current dollars, or by using an inflation factor[ii] derived from the most recent Implicit Price Deflator for Gross National Product published by the U.S. Department of Commerce in its *Survey of Current Business*. Adjustment is made by multiplying the closure cost estimate by the inflation factor. *[40 CFR 264.142 (b)]*

11.4.3. During the active life of the facility, the Permittee shall revise the closure cost estimate no later than 30 days after the Director has approved the request to modify the closure plan, if the change in the closure plan increases the cost of closure. The revised closure cost estimate must be adjusted for inflation as specified in Permit Condition 11.4.2. *[40 CFR 264.142 (c)]*

11.4.4. Documentation

The Permittee must keep the following at the facility during the operating life of the facility: *[40 CFR 264.142(d)]*

1. The latest Closure Cost Estimate prepared in accordance with Permit Condition 11.4.1; and
2. When the cost estimate has been adjusted in accordance with Permit Condition 11.4.2, the latest adjusted closure cost estimate along with documentation of how the adjusted cost estimate was derived.

11.5 FINANCIAL ASSURANCE FOR CLOSURE

Prior to commencement of operations, the Permittee shall establish and maintain financial assurance for closure of the facility in accordance with the approved Closure Plan and comply

[i] A third party is a party who is neither a parent nor a subsidiary of the Permittee (See definition of Parent Corporation in 40 CFR 264.141(d)).

[ii] The inflation factor is the result of dividing the latest published annual Deflator by the Deflator for the previous year.

with the requirements specified below. Any change in the financial assurance mechanism must be approved by the Director in accordance with Permit Condition 1.2.1. At the time this Permit was issued, the Permittee proposed the use of a Corporate Guarantee from Barrrick Gold Corporation pursuant to 40 CFR 264.143(f), to satisfy this financial assurance requirement. However, the specific financial mechanism(s), and/or the percentage of the total cost estimate to be accepted under the proposed mechanism shall be subject to review and approval by the director, prior to the facility commencing operation. The required conditions specific to the use of Corporate Guarantee as a mechanism are provided in Section 11.5.1. Other conditions may be applied as warranted for alternate financial assurance mechanisms. *[40 CFR 264.143]*

11.5.1. Financial Test and Corporate Guarantee for Closure *[40 CFR 264.143(f)]*

In order to utilize Corporate Guarantee as an acceptable financial assurance mechanism, the Permittee shall demonstrate they can satisfy the following conditions.

11.5.1.1. Financial Test

(1) To pass the financial test the Permittee must meet either (i) or (ii) of the following criteria: *[40 CFR 264.143(f)(1)]*

(i) The Permittee must have:

(A) Two of the following three ratios: (1) a ratio of total liabilities to net worth less than 2.0; (2) a ratio of the sum of net income plus depreciation, depletion, and amortization to total liabilities greater than 0.1; (3) and a ratio of current assets to current liabilities greater than 1.5; and

(B) Net working capital and tangible net worth each at least six times the sum of the current closure and post-closure cost estimates and the current plugging and abandonment cost estimates; and

(C) Tangible net worth of at least $10 million; and

(D) Assets located in the United States amounting to at least 90 percent of total assets or at least six times the sum of the current closure and post-closure cost estimates and the current plugging and abandonment cost estimates.

(ii) The Permittee must have:

(A) A current rating for his most recent bond issuance of AAA, AA, A, or BBB as issued by Standard and Poor's or Aaa, Aa, A, or Baa as issued by Moody's; and

(B) Tangible net worth at least six times the sum of the current closure and post-closure cost estimates and the current plugging and abandonment cost estimates; and

(C) Tangible net worth of at least $10 million; and

(D) Assets located in the United States amounting to at least 90 percent of total assets or at least six times the sum of the current closure and post-closure cost estimates and the current plugging and abandonment cost estimates.

(2) The phrase "current closure and post-closure cost estimates" as used in paragraph (f)(1) of this section refers to the cost estimates required to be shown in paragraphs 1-4 of the letter from the Permittee's chief financial officer (40 CFR 264.151(f)). The phrase

"current plugging and abandonment cost estimates" as used in paragraph (f)(1) of this section refers to the cost estimates required to be shown in paragraphs 1-4 of the letter from the Permittee's chief financial officer (40CFR 144.70(f). *[40 CFR 264.143(f)(2)]*

(3) To demonstrate that he meets this test, the Permittee must submit the following items to the Director: *[40 CFR 264.143(f)(3)]*

(i) A letter signed by the Permittee's chief financial officer and worded as specified in 40 CFR 264.151(f); and

(ii) A copy of the independent certified public accountant's report on examination of the Permittee's financial statements for the latest completed fiscal year; and

(iii) A special report from the Permittee's independent certified public accountant to the Permittee stating that:

(A) He has compared the data which the letter from the chief financial officer specifies as having been derived from the independently audited, year-end financial statements for the latest fiscal year with the amounts in such financial statements; and

(B) In connection with that procedure, no matters came to his attention which caused him to believe that the specified data should be adjusted.

(4) A Permittee of a new facility must submit the items specified in paragraph (f)(3) of this section to the Director at least 60 days before the date on which hazardous waste is first received for treatment, storage, or disposal. *[40 CFR 264.143(f)(4)]*

(5) After the initial submission of items specified in paragraph (f)(3) of this section, the Permittee must send updated information to the Director within 90 days after the close of each succeeding fiscal year. This information must consist of all three items specified in paragraph (f)(3) of this section. *[40 CFR 264.143(f)(5)]*

(6) If the Permittee no longer meets the requirements of paragraph (f)(1) of this section, he must send notice to the Director of intent to establish alternate financial assurance as specified in this section. The notice must be sent by certified mail within 90 days after the end of the fiscal year for which the year-end financial data show that the Permittee no longer meets the requirements. The Permittee must provide the alternate financial assurance within 120 days after the end of such fiscal year. *[40 CFR 264.143(f)(6)]*

(7) The Director may, based on a reasonable belief that the Permittee may no longer meet the requirements of paragraph (f)(1) of this section, require reports of financial condition at any time from the Permittee in addition to those specified in paragraph (f)(3) of this section. If the Direcor finds, on the basis of such reports or other information, that the Permittee no longer meets the requirements of paragraph (f)(1) of this section, the Permittee must provide alternate financial assurance as specified in this section within 30 days after notification of such a finding. *[40 CFR 264.143(f)(7)]*

(8) The Director may disallow use of this test on the basis of qualifications in the opinion expressed by the independent certified public accountant in his report on examination of the Permittee's financial statements (see paragraph (f)(3)(ii) of this section). An adverse opinion or a disclaimer of opinion will be cause for disallowance. The Director will evaluate other qualifications on an individual basis. The Permittee must provide

alternate financial assurance as specified in this section within 30 days after notification of the disallowance. *[40 CFR 264.143(f)(8)]*

(9) The Permittee is no longer required to submit the items specified in paragraph (f)(3) of this section when: *[40 CFR 264.143(f)(9)]*

(i) A Permittee substitutes alternate financial assurance as specified in this section; or

(ii) The Director releases the Permittee from the requirements of this section in accordance with 40 CFR 264.143(i).

(10) The Permittee may meet the requirements of 40 CFR 264.143 by obtaining a written guarantee. The guarantor must be the direct or higher-tier parent corporation of the Permittee, a firm whose parent corporation is also the parent corporation of the Permittee, or a firm with a "substantial business relationship" with the Permittee. The guarantor must meet the requirements for owners or operators in paragraphs (f)(1) through (8) of this section and must comply with the terms of the guarantee. The wording of the guarantee must be identical to the wording specified in 40 CFR 264.151(h). The certified copy of the guarantee must accompany the items sent to the Director as specified in paragraph (f)(3) of this section. One of these items must be the letter from the guarantor's chief financial officer. If the guarantor's parent corporation is also the parent corporation of the Permittee, the letter must describe the value received in consideration of the guarantee. If the guarantor is a firm with a "substantial business relationship" with the Permittee, this letter must describe this "substantial business relationship" and the value received in consideration of the guarantee. The terms of the guarantee must provide that: *[40 CFR 264.143(f)(10)]*

(i) If the Permittee fails to perform final closure of a facility covered by the corporate guarantee in accordance with the closure plan and other permit requirements whenever required to do so, the guarantor will do so or establish a trust fund as specified in 40 CFR 264.143(a) in the name of the Permittee.

(ii) The corporate guarantee will remain in force unless the guarantor sends notice of cancellation by certified mail to the Permittee and to the Director. Cancellation may not occur, however, during the 120 days beginning on the date of receipt of the notice of cancellation by both the Permittee and the Director, as evidenced by the return receipts.

(iii) If the Permittee fails to provide alternate financial assurance as specified in this section and obtain the written approval of such alternate assurance from the Director within 90 days after receipt by both the Permittee and the Director of a notice of cancellation of the corporate guarantee from the guarantor, the guarantor will provide such alternative financial assurance in the name of the Permittee.

11.5.2. Use of multiple financial mechanisms

The Permittee may satisfy the requirements of this section by establishing more than one financial mechanism for the facility. The acceptable mechanisms are trust funds, surety bonds guaranteeing payment into a trust fund, and insurance. The combination of mechanisms must provide financial assurance for an amount at least equal to the current cost estimate. The Director may use any or all of these mechanisms to provide for closure of the facility.

[40 CFR 264.143(g)]

11.5.3. Release of the Permittee from the Requirements of Financial Assurance for Closure

Within 60 days after receiving certifications from the Permittee and a qualified Professional Engineer that final closure has been completed in accordance with the approved closure plan, the Director will notify the Permittee in writing that the Permittee is no longer required by this permit section to maintain financial assurance for final closure of the facility, unless the Director has reason to believe that final closure has not been in accordance with the approved closure plan. The Director shall provide the Permittee a detailed written statement of any such reason to believe that closure has not been in accordance with the approved closure plan.

[40 CFR 264.143(i)]

11.6 COST ESTIMATE FOR CORRECTIVE ACTION

Upon direction of the Director, the Permittee shall establish and maintain financial assurance for any remedial or corrective actions required at the facility as a result of a release of hazardous waste and in accordance with the corrective measures study, the approved corrective measure implementation workplan, and the requirements specified below. Any change in the financial assurance mechanism must be approved by the Director in accordance with Permit Condition 1.2.

11.6.1. The cost estimate for corrective action shall be:

1. Based on the costs of hiring a third party[iii] to conduct the corrective action activities; and
2. Calculated by multiplying the annual corrective action cost estimate by the number of years of corrective action required by the Director.

11.6.2. Adjustment for Inflation

When required to perform Corrective Action, during the active life of the facility, the Permittee must annually adjust the corrective action cost estimate for inflation within 60 days prior to the anniversary date of the establishment of the financial instrument(s) used to comply with Permit Condition 11.6. The adjustment may be made by recalculating the maximum costs of corrective action in current dollars, or by multiplying the corrective action cost estimate by the inflation factor, as described in Permit Condition 11.4.2.

11.6.3. During the active life of the facility, the Permittee shall revise the corrective action cost estimate no later than 30 days after the Director has approved the request to modify the Corrective Action Plan, if the change in the Corrective Action Plan increases the cost of corrective action. The revised corrective action cost estimate must be adjusted for inflation, as specified in Permit Condition 11.6.2. *[40 CFR 264.142(c)]*

11.6.4. Documentation

The Permittee must keep the following at the facility during the operating life of the facility:

1. The latest corrective action cost estimate prepared in accordance with Permit Condition 11.6.1; and

[iii] A third party is a party who is neither a parent nor a subsidiary of the Permittee (see definition of Parent Corporation in 40 CFR 264.141(d)).

2. When this cost estimate has been adjusted in accordance with Permit Condition 11.6.2, the latest adjusted corrective action cost estimate along with documentation of how the adjusted cost estimate was derived.

11.6.5. Release from the Requirements of Financial Assurance for Corrective Action

After receiving certifications from the Permittee and a qualified Professional Engineer that corrective action has been completed in accordance with the approved plans, and the Project Coordinator has accepted the final corrective action report and issued a letter indicating no further action, the Director will notify the Permittee that he/she is no longer required to maintain financial assurance for corrective action, unless the Director has reason to believe that corrective action has not been in accordance with the approved corrective action plan. The Director shall provide the Permittee with a detailed written statement of any such reason to believe that corrective action care has not been in accordance with the approved corrective action plan.

11.7 LIABILITY REQUIREMENTS

Prior to commencement of operations, the Permittee shall demonstrate continuous compliance with the requirement of 40 CFR 264.147(a) to establish and maintain financial liability coverage for sudden accidental occurrences in the amount of at least $1 million per occurrence, with an annual aggregate of at least $2 million, exclusive of legal defense costs.

11.7.1. Coverage for Sudden Accidental Occurrences

11.7.1.1. The Permittee must demonstrate financial responsibility for bodily injury and property damage to third parties caused by sudden accidental occurrences arising from operations of the facility or group of facilities. The Permittee must have and maintain liability coverage for sudden accidental occurrences in the amount of at least $1 million per occurrence with an annual aggregate of at least $2 million, exclusive of legal defense costs. This liability coverage may be demonstrated as follows: *[40CFR 264.147(a)]*

1. The Permittee may demonstrate the required liability coverage by having liability insurance as specified in this paragraph.
2. Each insurance policy must be amended by attachment of the Hazardous Waste Facility Liability Endorsement or evidenced by a Certificate of Liability Insurance. The wording of the endorsement must be identical to the wording specified in 40 CFR 264.151(i). The wording of the certificate of insurance must be identical to the wording specified in 40 CFR 264.151(j). The Permittee must submit a signed duplicate original of the endorsement or the certificate of insurance to the Director. If requested by the Director, the Permittee must provide a signed duplicate original of the insurance policy.
3. Each insurance policy must be issued by an insurer, which, at a minimum, is licensed to transact the business of insurance, or eligible to provide insurance as an excess or surplus lines insurer, in one or more States, including Nevada.

11.7.1.2. The Permittee shall notify the Director in writing within 30 days whenever:

1. A claim results in a reduction in the amount of financial assurance for liability coverage provided by a financial instrument authorized in Permit Condition 11.7.1.1; or
2. A Certification of Valid Claim for bodily injury or property damages caused by a sudden accidental occurrence arising from the operation of a hazardous waste treatment, storage, or disposal facility is entered between the Permittee and third-party claimant for liability coverage under Permit Condition 11.7.1.1; or
3. A final court order establishing a judgment for bodily injury or property damage caused by a sudden or non-sudden accidental occurrence arising from the operation of a hazardous waste treatment, storage, or disposal facility is issued against the Permittee or an instrument that is providing financial assurance for liability coverage under Permit Condition 11.7.1.1.

11.7.2. Adjustments by the Director

If the Director determines that the levels of financial responsibility required are not consistent with the degree and duration of risk associated with the treatment or storage at the facility, the Director may adjust the level of financial responsibility required under this section as may be necessary to protect human health and the environment. The adjusted level will be based on the Director's assessment of the degree and duration of risk associated with the operation of the facility. In addition, if the Director determines that there is a significant risk to human health and the environment from non-sudden accidental occurrences resulting from the operations of a facility that is not a surface impoundment, landfill, or land treatment facility, he may require that the Permittee comply with 40 CFR 264.147(b). The Permittee must furnish to the Director, within a reasonable time, any information, which the Director requests to determine whether cause exists for such adjustments of level or type of coverage. Any adjustment of the level or type of coverage for a facility that has a permit will be treated as a permit modification under 40 CFR 270.41(a)(2) and 40 CFR 124.5 and comply with Permit Condition 1.2.1.

[40CFR 264.147(d)]

11.7.3. Period of Coverage

Within 60 days after receiving certifications from the Permittee and a qualified Professional Engineer that final closure has been completed in accordance with the approved closure plan, the Director will notify the Permittee in writing that he is no longer required by this section to maintain liability coverage for the facility, unless the Director has reason to believe that closure has not been in accordance with the approved closure plan. *[40 CFR 264.147(e)]*

11.8 INCAPACITY OF OPERATORS, GUARANTORS, OR FINANCIAL INSTITUTIONS

11.8.1. Notification

The Permittee must notify the Director by certified mail of the commencement of a voluntary or involuntary proceeding under Title 11 (Bankruptcy), U.S. Code, naming the Permittee or

parent company as a debtor, within 10 days after commencement of the proceeding. A guarantor of a corporate guarantee shall make such notification if he is named as debtor as required under the terms of the corporate guarantee *[40 CFR 264.148(a)]*

11.8.2. Establishment of Alternative Financial Assurance
The Permittee will be deemed to be without the required financial assurance or liability coverage in the event of bankruptcy of the trustee or issuing institution, or a suspension or revocation of the authority of the institution issuing the surety bond or insurance policy. The Permittee shall establish other financial assurance or liability coverage within 60 days after such an event. *[40 CFR 264.148(b)]*

11.9 COMPLIANCE SCHEDULE

	Task	Date Due
1	The Permittee shall provide documentation that acceptable mechanism(s) have been established for the required Financial Assurance for both closure of the permitted facility and liability coverage for sudden accidental occurrences pursuant to 40CFR 264.143 and 40CFR 264.147(a).	Prior to commencing facility operation.
2	*Reserved*	

RCRA Permit Application, Part A (*attached*)

Precious Metals Recovery LLC
Dry Hills Facility
EPA ID# NVR000088542
Eureka County, Nevada

RCRA Part A Permit Application

December 2, 2013

Revision 3

PREPARED FOR:

Precious Metals Recovery LLC
460 W. 50 North, Suite 500
Salt Lake City, Utah 84101
Contact: Rich Haddock
Ph: 801.990.3773

PREPARED BY:

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Hatch
2800 Speakman Drive
Mississauga, Ontario, Canada
Contact: Sonia Sennik
Ph: 905.403.4043

Part A Application

Dry Hills Treatment and Storage Facility

OMB# 2050-0024; Expires 12/31/2014

SEND COMPLETED FORM TO: The Appropriate State or Regional Office.	United States Environmental Protection Agency **RCRA SUBTITLE C SITE IDENTIFICATION FORM**

1. Reason for Submittal

MARK ALL BOX(ES) THAT APPLY

Reason for Submittal:

- ☐ To provide an Initial Notification (first time submitting site identification information / to obtain an EPA ID number for this location)
- ☐ To provide a Subsequent Notification (to update site identification information for this location)
- ☐ As a component of a First RCRA Hazardous Waste Part A Permit Application
- ☒ As a component of a Revised RCRA Hazardous Waste Part A Permit Application (Amendment # 3)
- ☐ As a component of the Hazardous Waste Report (If marked, see sub-bullet below)
  - ☐ Site was a TSD facility and/or generator of ≥1,000 kg of hazardous waste, >1 kg of acute hazardous waste, or >100 kg of acute hazardous waste spill cleanup in one or more months of the report year (or State equivalent LQG regulations)

2. Site EPA ID Number

EPA ID Number N V R 0 0 0 0 8 8 5 4 2

3. Site Name

Name: Dry Hills Facility

4. Site Location Information

Street Address: APN # 005-530-17

City, Town, or Village: Crescent Valley **County:** Eureka

State: NV **Country:** USA **Zip Code:** 89821-1250

5. Site Land Type ☑ Private ☐ County ☐ District ☐ Federal ☐ Tribal ☐ Municipal ☐ State ☐ Other

6. NAICS Code(s) for the Site (at least 5-digit codes)

A. 5 6 2 2 1 1 C.

B. D.

7. Site Mailing Address

Street or P.O. Box: PO Box 1250

City, Town, or Village: Crescent Valley

State: NV **Country:** USA **Zip Code:** 89821-1250

8. Site Contact Person

First Name: Richie **MI:** **Last:** Haddock

Title: Secretary, Precious Metals Recovery LLC

Street or P.O. Box: 460 W. 50 North, Suite 500

City, Town or Village: Salt Lake City

State: UT **Country:** USA **Zip Code:** 84101

Email: rhaddock@barrick.com

Phone: (801) 990-3773 **Ext.:** **Fax:**

9. Legal Owner and Operator of the Site

A. Name of Site's Legal Owner: Precious Metals Recovery LLC **Date Became Owner:** 02/07/2013

Owner Type: ☑ Private ☐ County ☐ District ☐ Federal ☐ Tribal ☐ Municipal ☐ State ☐ Other

Street or P.O. Box: 460 W. 50 North, Suite 500

City, Town, or Village: Salt Lake City **Phone:** (801) 990-3900

State: UT **Country:** USA **Zip Code:** 84101

B. Name of Site's Operator: Precious Metals Recovery LLC **Date Became Operator:** 2014

Operator Type: ☑ Private ☐ County ☐ District ☐ Federal ☐ Tribal ☐ Municipal ☐ State ☐ Other

10. Type of Regulated Waste Activity (at your site)
Mark "Yes" or "No" for all current activities (as of the date submitting the form); complete any additional boxes as instructed.

A. Hazardous Waste Activities; Complete all parts 1-10.

Y [✓] N [ ] **1. Generator of Hazardous Waste**
If "Yes", mark only one of the following – a, b, or c.

[✓] a. LQG: Generates, in any calendar month, 1,000 kg/mo (2,200 lbs./mo.) or more of hazardous waste; **or** Generates, in any calendar month, or accumulates at any time, more than 1 kg/mo (2.2 lbs./mo) of acute hazardous waste; **or** Generates, in any calendar month, **or** accumulates at any time, more than 100 kg/mo (220 lbs./mo) of acute hazardous spill cleanup material.

[ ] b. SQG: 100 to 1,000 kg/mo (220 – 2,200 lbs./mo) of non-acute hazardous waste.

[ ] c. CESQG: Less than 100 kg/mo (220 lbs./mo) of non-acute hazardous waste.

If "Yes" above, indicate other generator activities in 2-4.

Y [ ] N [✓] **2. Short-Term Generator** (generate from a short-term or one-time event and not from on-going processes). If "Yes", provide an explanation in the Comments section.

[ ] N [✓] **3. United States Importer of Hazardous Waste**

Y [ ] N [✓] **4. Mixed Waste (hazardous and radioactive) Generator**

Y [ ] N [✓] **5. Transporter of Hazardous Waste**
If "Yes", mark all that apply.

[ ] a. Transporter

[ ] b. Transfer Facility (at your site)

Y [✓] N [ ] **6. Treater, Storer, or Disposer of Hazardous Waste** Note: A hazardous waste Part B permit is required for these activities.

Y [ ] N [✓] **7. Recycler of Hazardous Waste**

Y [ ] N [✓] **8. Exempt Boiler and/or Industrial Furnace**
If "Yes", mark all that apply.

[ ] a. Small Quantity On-site Burner Exemption

[ ] b. Smelting, Melting, and Refining Furnace Exemption

Y [ ] N [✓] **9. Underground Injection Control**

Y [✓] N [ ] **10. Receives Hazardous Waste from Off-site**

B. Universal Waste Activities; Complete all parts 1-2.

Y [ ] N [✓] **1. Large Quantity Handler of Universal Waste (you accumulate 5,000 kg or more) [refer to your State regulations to determine what is regulated]. Indicate types of universal waste managed at your site. If "Yes", mark all that apply.**

a. Batteries [ ]
b. Pesticides [ ]
c. Mercury containing equipment [ ]
d. Lamps [ ]
e. Other (specify) _____ [ ]
f. Other (specify) _____ [ ]
g. Other (specify) _____ [ ]

Y [ ] N [✓] **2. Destination Facility for Universal Waste**
Note: A hazardous waste permit may be required for this activity.

C. Used Oil Activities; Complete all parts 1-4.

Y [ ] N [✓] **1. Used Oil Transporter**
If "Yes", mark all that apply.

[ ] a. Transporter

[ ] b. Transfer Facility (at your site)

Y [ ] N [✓] **2. Used Oil Processor and/or Re-refiner**
If "Yes", mark all that apply.

[ ] a. Processor

[ ] b. Re-refiner

Y [ ] N [✓] **3. Off-Specification Used Oil Burner**

Y [ ] N [✓] **4. Used Oil Fuel Marketer**
If "Yes", mark all that apply.

[ ] a. Marketer Who Directs Shipment of Off-Specification Used Oil to Off-Specification Used Oil Burner

[ ] b. Marketer Who First Claims the Used Oil Meets the Specifications

D. Eligible Academic Entities with Laboratories—Notification for opting into or withdrawing from managing laboratory hazardous wastes pursuant to 40 CFR Part 262 Subpart K

❖ You can **ONLY** Opt into Subpart K if:

- you are at least one of the following: a college or university; a teaching hospital that is owned by or has a formal affiliation agreement with a college or university; or a non-profit research institute that is owned by or has a formal affiliation agreement with a college or university; AND
- you have checked with your State to determine if 40 CFR Part 262 Subpart K is effective in your state

Y☐ N☑ 1. Opting into or currently operating under 40 CFR Part 262 Subpart K for the management of hazardous wastes in laboratories **See the item-by-item instructions for definitions of types of eligible academic entities. Mark all that apply:**

☐ a. College or University

☐ b. Teaching Hospital that is owned by or has a formal written affiliation agreement with a college or university

☐ c. Non-profit Institute that is owned by or has a formal written affiliation agreement with a college or university

Y☐ N☑ 2. Withdrawing from 40 CFR Part 262 Subpart K for the management of hazardous wastes in laboratories

11. Description of Hazardous Waste

A. Waste Codes for Federally Regulated Hazardous Wastes. Please list the waste codes of the Federal hazardous wastes handled at your site. List them in the order they are presented in the regulations (e.g., D001, D003, F007, U112). Use an additional page if more spaces are needed.

D002						
D004						
D005						
D006						
D007						
D008						
D009						
D010						
D011						

B. Waste Codes for State-Regulated (i.e., non-Federal) Hazardous Wastes. Please list the waste codes of the State-Regulated hazardous wastes handled at your site. List them in the order they are presented in the regulations. Use an additional page if more spaces are needed.

NA						

12. Notification of Hazardous Secondary Material (HSM) Activity

Y☐ N☑ Are you notifying under 40 CFR 260.42 that you will begin managing, are managing, or will stop managing hazardous secondary material under 40 CFR 261.2(a)(2)(ii), 40 CFR 261.4(a)(23), (24), or (25)?

If "Yes", you must fill out the Addendum to the Site Identification Form: Notification for Managing Hazardous Secondary Material.

13. Comments

Item 4: The site survey recorded the location of the site in UTM coordinates, North American Datum of 1983, (UTM Zone 11). The coordinates for the northwest corner of the Dry Hills TSF building are: N 14,681,068.24 and E 1,816,741.50. All RCRA hazardous waste units are located within the TSF building.

Item 11, Line A: Waste managed at PMR is treated for the mercury constituent; other waste codes may also apply to some wastes, and therefore, have been listed here.

14. 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 fines and imprisonment for knowing violations. For the RCRA Hazardous Waste Part A Permit Application, all owner(s) and operator(s) must sign (see 40 CFR 270.10(b) and 270.11).

Signature of legal owner, operator, or an authorized representative	Name and Official Title (type or print)	Date Signed (mm/dd/yyyy)
	Richie Haddock, Secretary	12/12/2013

ADDENDUM TO THE SITE IDENTIFICATION FORM:
NOTIFICATION OF HAZARDOUS SECONDARY MATERIAL ACTIVITY

ONLY fill out this form if:

- You are located in a State that allows you to manage excluded hazardous secondary material (HSM) under 40 CFR 261.2(a)(2)(ii), 261.4(a)(23), (24), or (25) (or state equivalent). See http://www.epa.gov/epawaste/hazard/dsw/statespf.htm for a list of eligible states; **AND**
- You are or will be managing excluded HSM in compliance with 40 CFR 261.2(a)(2)(ii), 261.4(a)(23), (24), or (25) (or state equivalent) **or** you have stopped managing excluded HSM in compliance with the exclusion(s) and do not expect to manage any amount of excluded HSM under the exclusion(s) for at least one year. Do not include any information regarding your hazardous waste activities in this section.

1. Indicate reason for notification. Include dates where requested.

☐ Facility will begin managing excluded HSM as of _____ (mm/dd/yyyy).

☐ Facility is still managing excluded HSM/re-notifying as required by March 1 of each even-numbered year.

☐ Facility has stopped managing excluded HSM as of _____ (mm/dd/yyyy) and is notifying as required.

2. Description of excluded HSM activity. Please list the appropriate codes and quantities in **short tons** to describe your excluded HSM activity ONLY (do not include any information regarding your hazardous wastes). Use additional pages if more space is needed.

a. Facility code (answer using codes listed in the Code List section of the instructions)	**b. Waste code(s) for HSM**	**c. Estimated short tons of excluded HSM to be managed annually**	**d. Actual short tons of excluded HSM that was managed during the most recent odd-numbered year**	**e. Land-based unit code** (answer using codes listed in the Code List section of the instructions)

3. Facility has financial assurance pursuant to 40 CFR 261.4(a)(24)(vi). (Financial assurance is required for reclaimers and intermediate facilities managing excluded HSM under 40 CFR 261.4(a)(24) and (25))

Y☐ N☐ Does this facility have financial assurance pursuant to 40 CFR 261.4(a)(24)(vi)?

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EPA ID Number | N | V | R | 0 | 0 | 0 | 0 | 8 | 8 | 5 | 4 | 2 |

OMB#: 2050-0024; Expires 12/31/2014

United States Environmental Protection Agency

HARDOUS WASTE PERMIT INFORMATION FORM

1. Facility Permit Contact	**First Name:** Richie	**MI:**	**Last Name:** Haddock
	Contact Title: Secretary, Precious Metals Recovery LLC		
	Phone: (801) 990-3773	**Ext.:**	**Email:** rhaddock@barrick.com
2. Facility Permit Contact Mailing Address	**Street or P.O. Box:** 460 W. 50 North, Suite 500		
	City, Town, or Village: Salt Lake City		
	State: UT		
	Country: USA	**Zip Code:** 84101	
3. Operator Mailing Address and Telephone Number	**Street or P.O. Box:** PO Box 1250		
	City, Town, or Village: Crescent Valley		
	State: NV	**Phone:**	
	Country: USA	**Zip Code:** 89821-1250	
4. Facility Existence Date	**Facility Existence Date (mm/dd/yyyy):** 12/31/2014		

5. Other Environmental Permits

A. Facility Type *(Enter code)*	B. Permit Number	C. Description
E		SAD Construction permit (not yet issued)
E		CAPP to construct permit, BAPC (not yet issued)
E		CAPP to operate permit, BAPC (not yet issued)
P		Minor Source, Class II Air permit, (not yet issued)
E		Fire Marshal Hazardous Materials Permit (not yet issued)
E		Uniform Fire Flammable Materials Permit (not yet issued)

6. Nature of Business: treatment of mercury-bearing mining wastes to recover elemental mercury; storage of pre-treated wastes; interim storage of elemental mercury pending shipment to National Mercury Repository

7. Process Codes and Design Capacities – Enter information in the Section on Form Page 3

A. PROCESS CODE – Enter the code from the list of process codes below that best describes each process to be used at the facility. If more lines are needed, attach a separate sheet of paper with the additional information. For "other" processes (i.e., D99, S99, T04 and X99), describe the process (including its design capacity) in the space provided in Item 8.

B. PROCESS DESIGN CAPACITY – For each code entered in Item 7.A; enter the capacity of the process.

1. **AMOUNT – Enter the amount. In a case where design capacity is not applicable (such as in a closure/post-closure or enforcement action) enter the total amount of waste for that process.**
2. **UNIT OF MEASURE – For each amount entered in Item 7.B(1), enter the code in Item 7.B(2) from the list of unit of measure codes below that describes the unit of measure used. Select only from the units of measure in this list.**

C. PROCESS TOTAL NUMBER OF UNITS – Enter the total number of units for each corresponding process code.

Process Code	Process	Appropriate Unit of Measure for Process Design Capacity
	Disposal	
D79	Underground Injection Well Disposal	Gallons; Liters; Gallons Per Day; or Liters Per Day
D80	Landfill	Acre-feet; Hectares-meter; Acres; Cubic Meters; Hectares; Cubic Yards
D81	Land Treatment	Acres or Hectares
D82	Ocean Disposal	Gallons Per Day or Liters Per Day
D83	Surface Impoundment Disposal	Gallons; Liters; Cubic Meters; or Cubic Yards
D99	Other Disposal	Any Unit of Measure Listed Below
	Storage	
S01	Container	Gallons; Liters; Cubic Meters; or Cubic Yards
S02	Tank Storage	Gallons; Liters; Cubic Meters; or Cubic Yards
S03	Waste Pile	Cubic Yards or Cubic Meters
S04	Surface Impoundment	Gallons; Liters; Cubic Meters; or Cubic Yards
S05	Drip Pad	Gallons; Liters; Cubic Meters; Hectares; or Cubic Yards
[illegible]6	Containment Building Storage	Cubic Yards or Cubic Meters
S99	Other Storage	Any Unit of Measure Listed Below
	Treatment	
T01	Tank Treatment	Gallons Per Day; Liters Per Day
T02	Surface Impoundment	Gallons Per Day; Liters Per Day
T03	Incinerator	Short Tons Per Hour; Metric Tons Per Hour; Gallons Per Hour; Liters Per Hour; BTUs Per Hour; Pounds Per Hour; Short Tons Per Day; Kilograms Per Hour; Gallons Per Day; Metric Tons Per Hour; or Million BTU Per Hour
T04	Other Treatment	Gallons Per Day; Liters Per Day; Pounds Per Hour; Short Tons Per Hour; Kilograms Per Hour; Metric Tons Per Day; Short Tons Per Day; BTUs Per Hour; Gallons Per Day; Liters Per Hour; or Million BTU Per Hour
T80	Boiler	Gallons; Liters; Gallons Per Hour; Liters Per Hour; BTUs Per Hour; or Million BTU Per Hour

Process Code	Process	Appropriate Unit of Measure for Process Design Capacity (for T81 – T94)
	Treatment (Continued)	
T81	Cement Kiln	Gallons Per Day; Liters Per Day; Pounds Per Hour; Short Tons Per Hour; Kilograms Per Hour; Metric Tons Per Day; Metric Tons Per Hour; Short Tons Per Day; BTU Per Hour; Liters Per Hour; Kilograms Per Hour; or Million BTU Per Hour
T82	Lime Kiln	
T83	Aggregate Kiln	
T84	Phosphate Kiln	
T85	Coke Oven	
T86	Blast Furnace	
T87	Smelting, Melting, or Refining Furnace	
T88	Titanium Dioxide Chloride Oxidation Reactor	
T89	Methane Reforming Furnace	
T90	Pulping Liquor Recovery Furnace	
T91	Combustion Device Used in the Recovery of Sulfur Values from Spent Sulfuric Acid	
T92	Halogen Acid Furnaces	
T93	Other Industrial Furnaces Listed in 40 CFR 260.10	
T94	Containment Building Treatment	Cubic Yards; Cubic Meters; Short Tons Per Hour; Gallons Per Hour; Liters Per Hour; BTU Per Hour; Pounds Per Hour; Short Tons Per Day; Kilograms Per Hour; Metric Tons Per Day; Gallons Per Day; Liters Per Day; Metric Tons Per Hour; or Million BTU Per Hour
	Miscellaneous (Subpart X)	
X01	Open Burning/Open Detonation	Any Unit of Measure Listed Below
X02	Mechanical Processing	Short Tons Per Hour; Metric Tons Per Hour; Short Tons Per Day; Metric Tons Per Day; Pounds Per Hour; Kilograms Per Hour; Gallons Per Hour; Liters Per Hour; or Gallons Per Day
X03	Thermal Unit	Gallons Per Day; Liters Per Day; Pounds Per Hour; Short Tons Per Hour; Kilograms Per Hour; Metric Tons Per Day; Metric Tons Per Hour; Short Tons Per Day; BTU Per Hour; or Million BTU Per Hour
X04	Geologic Repository	Cubic Yards; Cubic Meters; Acre-feet; Hectare-meter; Gallons; or Liters
X99	Other Subpart X	Any Unit of Measure Listed Below

Unit of Measure	Unit of Measure Code
Gallons	G
Gallons Per Hour	E
Gallons Per Day	U
[illegible]ers	L
[illegible]ers Per Hour	H
Liters Per Day	V
Short Tons Per Hour	D
Short Tons Per Day	N
Metric Tons Per Hour	W
Metric Tons Per Day	S
Pounds Per Hour	J
Kilograms Per Hour	X
Million BTU Per Hour	X
Cubic Yards	Y
Cubic Meters	C
Acres	B
Acre-feet	A
Hectares	Q
Hectare-meter	F
BTU Per Hour	I

7. Process Codes and Design Capacities (Continued)

EXAMPLE FOR COMPLETING Item 7 (shown in line number X-1 below): A facility has a storage tank, which can hold 533.788 gallons.

Line Number		A. Process Code (From list above)			B. PROCESS DESIGN CAPACITY (1) Amount (Specify)	(2) Unit of Measure	C. Process Total Number of Units	For Official Use Only					
X	1	S	0	2	533.788	G	001						
	1	S	0	1	28,000	G	001						
	2	S	0	2	7,200	G	002						
	3	T	0	1	1,500	U	004						
	4	X	0	2	400	U	001						
	5	X	0	3	220	U	002						
	6												
	7												
	8												
	9												
1	0												
1	1												
1	2												
1	3												

Note: If you need to list more than 13 process codes, attach an additional sheet(s) with the information in the same format as above. Number the line sequentially, taking into account any lines that will be used for "other" process (i.e., D99, S99, T04, and X99) in Item 8.

8. Other Processes (Follow instructions from Item 7 for D99, S99, T04, and X99 process codes)

Line Number (Enter #s in sequence with Item 7)		A. Process Code (From list above)			B. PROCESS DESIGN CAPACITY (1) Amount (Specify)	(2) Unit of Measure	C. Process Total Number of Units	For Official Use Only					
X	2	T	0	4	100.00	U	001						

9. Description of Hazardous Wastes - Enter Information in the Sections on Form Page 5

A. **EPA HAZARDOUS WASTE NUMBER – Enter the four-digit number from 40 CFR, Part 261 Subpart D of each listed hazardous waste you will handle. For hazardous wastes which are not listed in 40 CFR, Part 261 Subpart D, enter the four-digit number(s) from 40 CFR Part 261, Subpart C that describes the characteristics and/or the toxic contaminants of those hazardous wastes.**

B. **ESTIMATED ANNUAL QUANTITY – For each listed waste entered in Item 9.A, estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in Item 9.A, estimate the total annual quantity of all the non-listed waste(s) that will be handled which possess that characteristic or contaminant.**

C. **UNIT OF MEASURE – For each quantity entered in Item 9.B, enter the unit of measure code. Units of measure which must be used and the appropriate codes are:**

ENGLISH UNIT OF MEASURE	CODE	METRIC UNIT OF MEASURE	CODE
POUNDS	P	KILOGRAMS	K
TONS	T	METRIC TONS	M

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure, taking into account the appropriate density or specific gravity of the waste.

D. **PROCESSES**

1. **PROCESS CODES:**

For listed hazardous waste: For each listed hazardous waste entered in Item 9.A, select the code(s) from the list of process codes contained in Items 7.A and 8.A on page 3 to indicate all the processes that will be used to store, treat, and/or dispose of all listed hazardous wastes.

For non-listed waste: For each characteristic or toxic contaminant entered in Item 9.A, select the code(s) from the list of process codes contained in Items 7.A and 8.A on page 3 to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed hazardous wastes that possess that characteristic or toxic contaminant.

NOTE: THREE SPACES ARE PROVIDED FOR ENTERING PROCESS CODES. IF MORE ARE NEEDED:

1. **Enter the first two as described above.**
2. **Enter "000" in the extreme right box of Item 9.D(1).**
3. **Use additional sheet, enter line number from previous sheet, and enter additional code(s) in Item 9.E.**

2. **PROCESS DESCRIPTION: If code is not listed for a process that will be used, describe the process in Item 9.D(2) or in Item 9.E(2).**

NOTE: HAZARDOUS WASTES DESCRIBED BY MORE THAN ONE EPA HAZARDOUS WASTE NUMBER – Hazardous wastes that can be described by more than one EPA Hazardous Waste Number shall be described on the form as follows:

1. **Select one of the EPA Hazardous Waste Numbers and enter it in Item 9.A. On the same line complete Items 9.B, 9.C, and 9.D by estimating the total annual quantity of the waste and describing all the processes to be used to store, treat, and/or dispose of the waste.**
2. **In Item 9.A of the next line enter the other EPA Hazardous Waste Number that can be used to describe the waste. In Item 9.D.2 on that line enter "included with above" and make no other entries on that line.**
3. **Repeat step 2 for each EPA Hazardous Waste Number that can be used to describe the hazardous waste.**

EXAMPLE FOR COMPLETING Item 9 (shown in line numbers X-1, X-2, X-3, and X-4 below) – A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operations. In addition, the facility will treat and dispose of three non-listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

Line Number		A. EPA Hazardous Waste No. (Enter code)				B. Estimated Annual Qty of Waste	C. Unit of Measure (Enter code)	D. PROCESSES									
								(1) PROCESS CODES (Enter Code)									(2) PROCESS DESCRIPTION (If code is not entered in 9.D(1))
X	1	K	0	5	4	900	P	T	0	3	D	8	0				
X	2	D	0	0	2	400	P	T	0	3	D	8	0				
X	3	D	0	0	1	100	P	T	0	3	D	8	0				
X	4	D	0	0	2												Included With Above

9. Description of Hazardous Wastes ***(Continued. Use additional sheet(s) as necessary; number pages as 5a, etc.)***

Line Number		A. EPA Hazardous Waste No. (Enter code)				B. Estimated Annual Qty of Waste	C. Unit of Measure (Enter code)	D. PROCESSES (1) PROCESS CODES (Enter Code)									(2) PROCESS DESCRIPTION (If code is not entered in 9.D(1))
	1	D	0	0	9	226	T	S	0	1	X	0	3				elemental mercury
	2	D	0	0	2												same as line 1
	3	D	0	0	4												same as line 1
	4	D	0	0	5												same as line 1
	5	D	0	0	6												same as line 1
	6	D	0	0	7												same as line 1
	7	D	0	0	8												same as line 1
	8	D	0	1	0												same as line 1
	9	D	0	1	1												same as line 1
1	0	D	0	0	9	120	T	S	0	1	X	0	3				carbon
1	1	D	0	0	2												same as line 10
1	2	D	0	0	4												same as line 10
1	3	D	0	0	5												same as line 10
1	4	D	0	0	6												same as line 10
1	5	D	0	0	7												same as line 10
1	6	D	0	0	8												same as line 10
1	7	D	0	1	0												same as line 10
1	8	D	0	1	1												same as line 10
1	9	D	0	0	9	61	T	S	0	1	D	8	0				treated carbon residue
2	0	D	0	0	2												same as line 19
2	1	D	0	0	4												same as line 19
2	2	D	0	0	5												same as line 19
2	3	D	0	0	6												same as line 19
2	4	D	0	0	7												same as line 19
2	5	D	0	0	8												same as line 19
2	6	D	0	1	0												same as line 19
2	7	D	0	1	1												same as line 19
2	8	D	0	0	9	306	T	S	0	1	X	0	3				calomel
2	9	D	0	0	2												same as line 28
3	0	D	0	0	4												same as line 28
3	1	D	0	0	5												same as line 28
3	2	D	0	0	6												same as line 28
3	3	D	0	0	7												same as line 28
3	4	D	0	0	8												same as line 28
3	5	D	0	1	0												same as line 28
3	6	D	0	1	1												same as line 28

9. Description of Hazardous Wastes *(Continued. Use additional sheet(s) as necessary; number pages as 5a, etc.)*

Line Number		A. EPA Hazardous Waste No. (Enter code)				B. Estimated Annual Qty of Waste	C. Unit of Measure (Enter code)	D. PROCESSES									
								(1) PROCESS CODES (Enter code)									(2)PROCESS DESCRIPTION (if code is not entered in 9.D.1))
3	7	D	0	0	9	211	T	X	0	2	X	0	3				decomposed filter cake
3	8	D	0	0	2												same as line 37
3	9	D	0	0	4												same as line 37
4	0	D	0	0	5												same as line 37
4	1	D	0	0	6												same as line 37
4	2	D	0	0	7												same as line 37
4	3	D	0	0	8												same as line 37
4	4	D	0	1	0												same as line 37
4	5	D	0	1	1												same as line 37
4	6	D	0	0	9	14	T	S	0	1	X	0	3	D	8	0	treated filter cake residue
4	7	D	0	0	2												same as line 46
4	8	D	0	0	4												same as line 46
4	9	D	0	0	5												same as line 46
5	0	D	0	0	6												same as line 46
5	1	D	0	0	7												same as line 46
5	2	D	0	0	8												same as line 46
5	3	D	0	1	0												same as line 46
5	4	D	0	1	1												same as line 46
5	5	D	0	0	9	367	T	S	0	2	T	0	1	D	8	0	treated waste solution
5	6	D	0	0	2												same as line 55
5	7	D	0	0	4												same as line 55
5	8	D	0	0	5												same as line 55
5	9	D	0	0	6												same as line 55
6	0	D	0	0	7												same as line 55
6	1	D	0	0	8												same as line 55
6	2	D	0	1	0												same as line 55
6	3	D	0	1	1												same as line 55
6	4	D	0	0	9	500	P	S	0	1	X	0	3	D	8	0	generated debris
6	5	D	0	0	2												same as line 64
6	6	D	0	0	4												same as line 64
6	7	D	0	0	5												same as line 64
6	8	D	0	0	6												same as line 64
6	9	D	0	0	7												same as line 64
7	0	D	0	0	8												same as line 64
7	1	D	0	1	0												same as line 64
7	2	D	0	1	1												same as line 64

10. Map

Attach to this application a topographical map, or other equivalent map, of the area extending to at least one mile beyond property boundaries. The map must show the outline of the facility, the location of each of its existing intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all spring, rivers, and other surface water bodies in this map area. See instructions for precise requirements.

11. Facility Drawing

All existing facilities must include a scale drawing of the facility (see instructions for more detail).

12. Photographs

All existing facilities must include photographs (aerial or ground-level) that clearly delineate all existing structures; existing storage, treatment, and disposal areas; and sites of future storage, treatment, or disposal areas (see instructions for more detail).

13. Comments

Item 7, line 1:Storage in containers - capacity primary for elemental mercury recovered from caustic leach process and received from off-site. Estimated storage capacity for the storage area is 28,000 gallons after the facility has been in operation for 11 years (maximum of 226 pigs/yr) 1024 pigs (19 gal/pig = 19,456 gal. ; 146 containers (55 gal/container = 8030 gal) of combination of calomel (76 drums), carbon (60 drums), and debris (10 drums).
The amount of elemental mercury in storage; corresponds to Item 9, lines 1, 10, 19, 28, 46, and 64.
Item 7, line 2: two 3,600 gallon tanks #1540-TK-012 and #1540-TK-035; corresponds to Item 9, line 55
Item 7, line 3: four tanks in caustic leach system: Decomposition Tank #1420-TK-033 (400 gal), Waste Solution Tank #1420 -TK-037 (400 gal), Waste Collection Tank #1440-TK-114 (400 gal), and Waste Settling Tank #1440-TK-116 (300 gal); corresponds to Item 9, lines 28 and 55.
Item 7, line 4: Filter Press #1420-FL-036 (400 gal, direct feed from caustic leach system); corresponds to Item 9, line 37
Item 7, line 5: Two retorts (initial unit and future unit) 110 gal per batch each; corresponds to Item 9, lines 1,10,37,46,and 64

Item 9: Refer to Drawings H340940-0000-05-015-0001and H340940-0000-05-015-0002 (attached).
Item 9, line 1: If a national repository is not available to accept elemental mercury, the amount of mercury in storage after 11 years of operation will be a maximum of 1024 pigs. If PMR is able to transfer elemental mercury to a national repository during the operational life of the TSF, PMR may regularly transfer stored elemental mercury to a national repository off-site.
Item 9, line 19: Treated carbon residue is generated from treatment of spent carbon in line 10.
Item 9, line 28: Recovered mercury is included in the stored mercury total on line 1; mercury may be recovered from the wastes listed on lines 10, 28, 37, 46, and 64.
Item 9, line 37: Filter cake is generated from treatment of calomel on line 28 and retorted in line 46.
Item 9, line 64: General debris includes PPE, rags, dust, miscellaneous dry waste is treated to recover elemental mercury and meet LDR requirements for D009 waste.
This facility is not permitted for disposal; all disposal occurs at off-site disposal facilities.

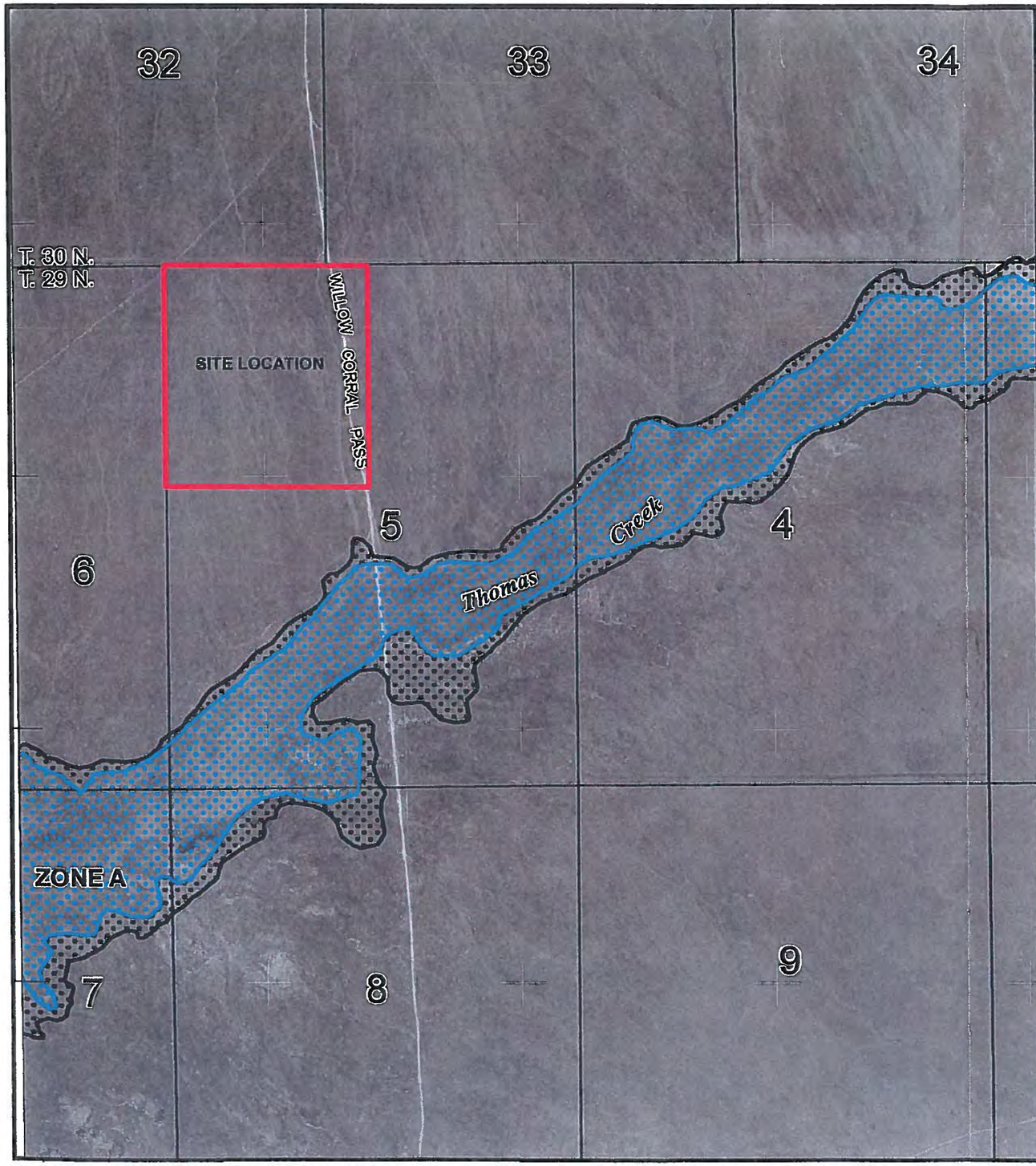
Item 10: Seven maps, drawings or figures are attached to the Part A application. Additional D-size maps and design drawings are included in the Part B application.

Item 11: There is one permitted facility building. All permitted hazardous waste storage and treatment units are located within the confines of the building, see Drawing H340940-0000-50-015-0013, attached. The building houses storage areas and processing areas for thermal treatment by retort, chemical treatment by caustic leach, and mechanical treatment by filter press.

Item 12: This facility is not yet constructed, therefore, no photographs are available.

This document is for reference purposes only and should not be used as a legal document. JBR makes no ... to the accuracy of the data contained herein or any loss resulting therefrom.

Path: M:\SNV\Clients\Barrick\Precious_Metals_Recovery\RCRA\Fig 11.12-1 Firm Panel 0600D.mxd



MAP SCALE 1" = 2000'

000 0 2000 4000 FEET

METE

NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0600D

FIRM

FLOOD INSURANCE RATE MAP

EUREKA COUNTY, NEVADA

ALL JURISDICTIONS

PANEL 600 OF 2300

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
EUREKA COUNTY	320028	0600	D

Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.

MAP NUMBER
32011C0600D

EFFECTIVE DATE
May 16, 2012

Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov

FLOODWAY AREAS

ZONE A — The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachement so that the 1% annual cance flood can be carried without substantial increases in

OTHER FLOOD AREAS

ZONE X — Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual channel flood.

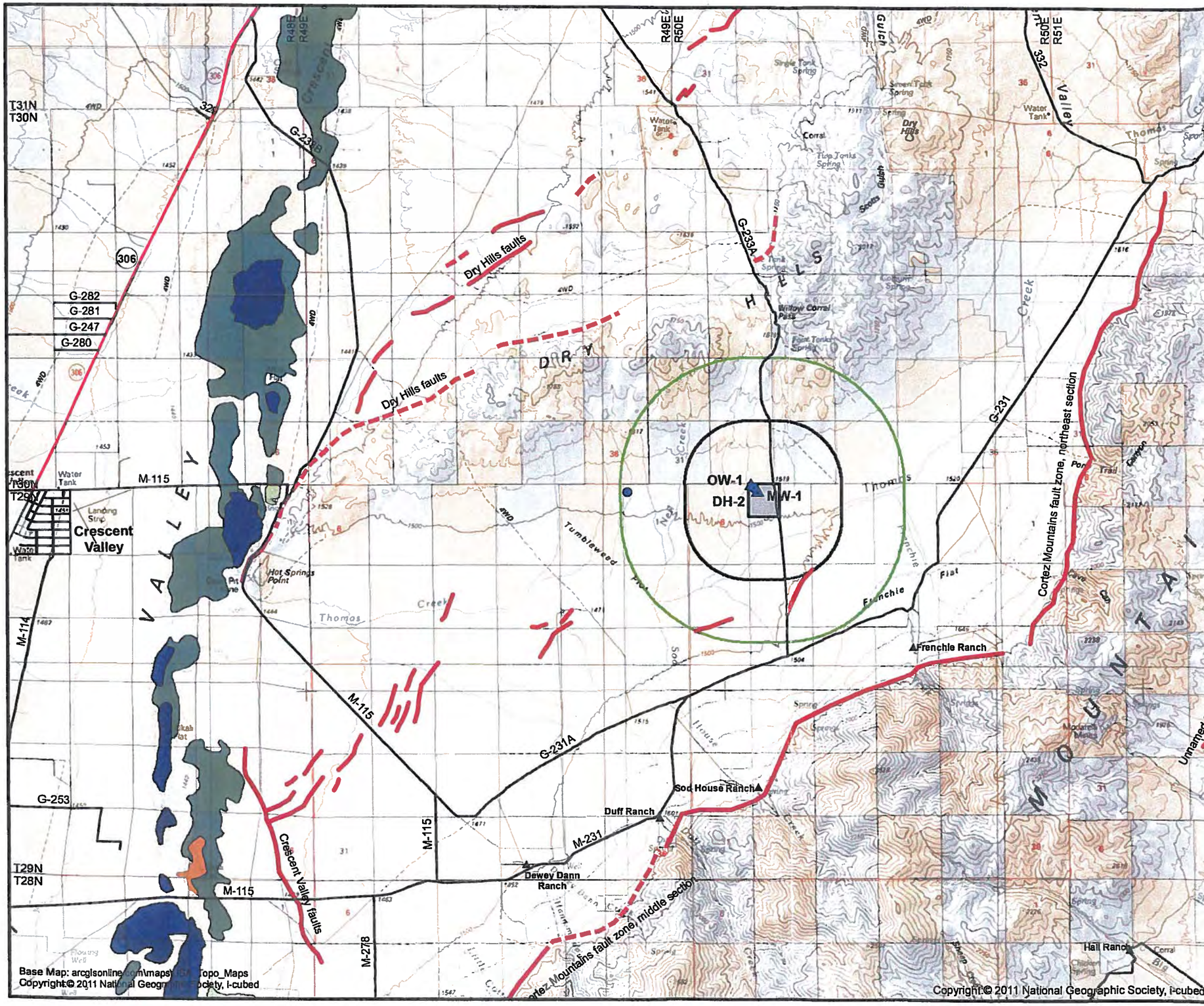
PRECIOUS METALS RECOVERY LLC

FIGURE 11.2-1
FIRM PANEL 0600D

JBR

DRAWN BY	DATE DRAWN
CP	12/3/2012

SCALE: As Shown



Base Map: arcgisonline.com\maps\USA_Topo_Maps
Copyright:© 2011 National Geographic Society, i-cubed

Legend

- Site T29N R50E Sec. 5 NW/4
- 1 Mile Buffer
- 2 Mile buffer
- Water Well
- JBR Wells

Wetlands

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Lake
- Other

Quaternary Faults

- Well constrained
- Moderately constrained

Roads

- State Highway
- Road, dirt/gravel

Drainage

- Artificial Path
- Canal Ditch
- Connector
- Intermittent Stream
- Perennial Stream

Land Ownership

- BLM
- State
- Private

N

2 1 0 2 Miles

Data Sources
Water Well Data: State of Nevada Division of Water Resources (http://water.nv.gov/data/welllog/index.cfm)
Fault Data: USGS Geologic Hazards Science Center (http://geohazards.usgs.gov/qfaults/nv/Nevada.php
Wetland Data: U.S. Fish and Wildlife Service National Wetlands Inventory (http://www.fws.gov/wetlands/)

PRECIOUS METALS RECOVERY LLC

FIGURE 11.3-1
SITE MAP, WELL LOCATIONS, FAULTS, WETLANDS, AND LAND OWNERSHIP

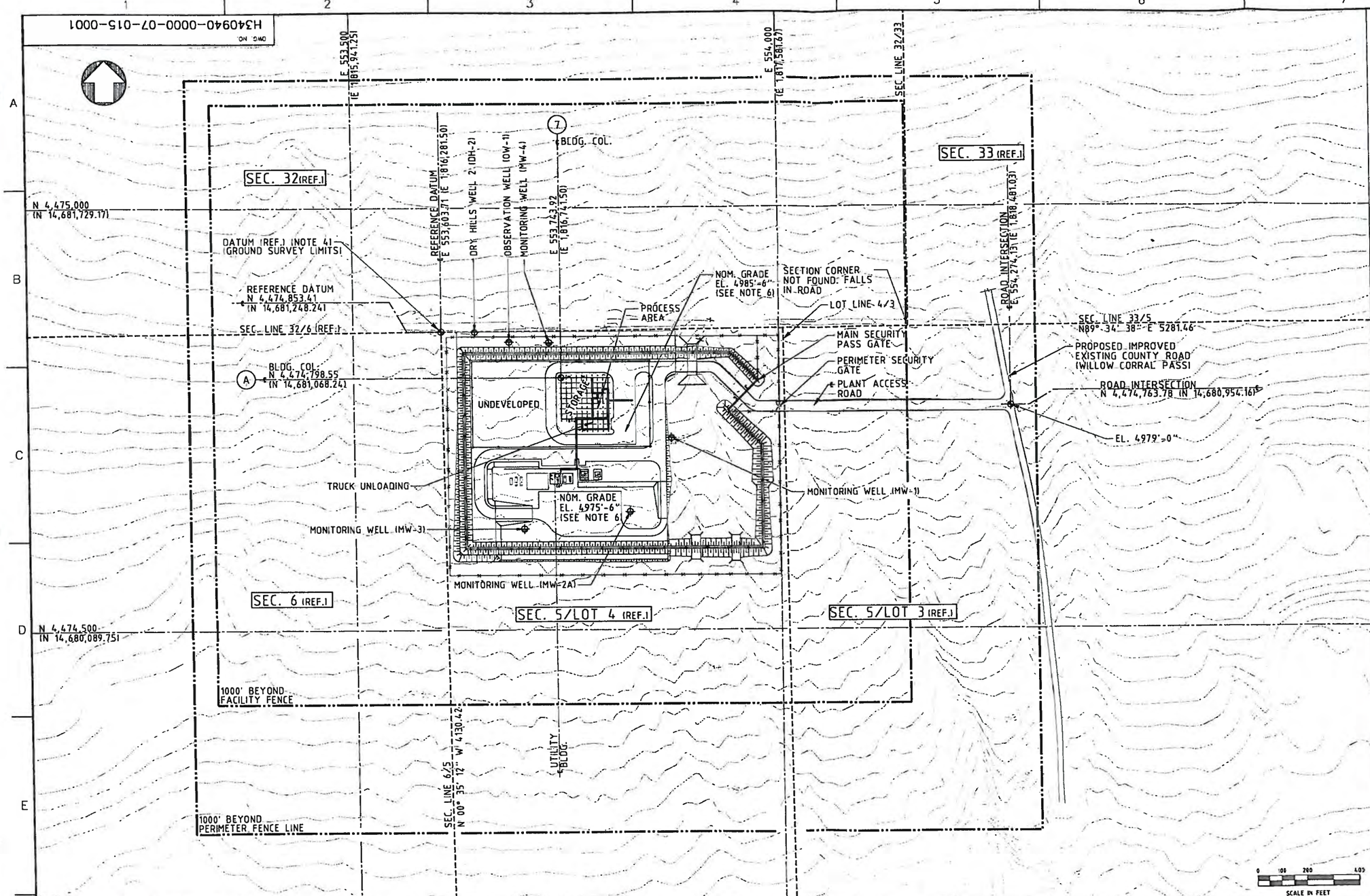
JBR

DRAWN BY	DATE DRAWN
CP	10/30/2012
SCALE	
1:100,000	

This document is for reference purposes only and should not be used as a legal document. JBR makes no warranties to the accuracy of the data contained herein or any loss resulting therefrom.

Path: M:\STA_Clients\Barrick\Precious_Metals_Recovery\RCRA\Fig 11.3-1 SiteMap_LandOwnership_Fa...ands.mxd

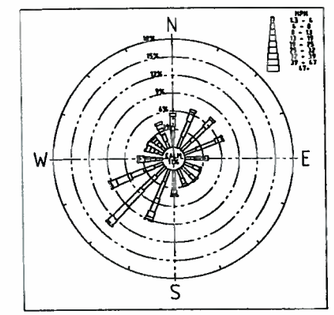
DWG. NO. H340940-0000-07-015-0001



GENERAL NOTES:

1. ALL COORDINATES SHOWN ARE IN METERS (BRACKETED COORDINATES ARE IN U.S. SURVEY FEET).
2. ALL ELEVATIONS ARE IN FEET UNLESS NOTED OTHERWISE.
3. GRID COORDINATES SHOWN ARE BASED ON THE NORTH AMERICAN DATUM OF 1983, (UTM ZONE 11).
4. SURVEY COORDINATES AND ELEVATIONS SHOWN ARE AS RECORDED BY SUMMIT ENGINEERING (RYAN COOK - 08/24/2012).
5. WELL COORDINATES FOR MW-2A, MW-3 AND MW-4 AS PROVIDED BY JBR (09/26/2012).
6. NATURAL GRADE TOPOGRAPHIC INFORMATION (SUMMIT ENGINEERING SURVEY 08/24/2012) OVERLAYED ON THE ENGINEERED GRADE (NOM. GRADE EL. 4975'-6" & EL. 4985'-6")

WIND ROSE
STATION - CRESCENT VALLEY DEAN RANCH, NEVADA.



LEGEND:

- FACILITY FENCE
- PERIMETER FENCE LINE
- BERM FENCE
- BATTERY LIMIT
- SECTION\LOT LINE
- GRID COORDINATES
- TOPOGRAPHIC MAP BOUNDARY
- EXISTING WATER COURSE
- DATUM POINT
- GROUND SURVEY LIMITS
- WELL (SURVEY 08/24/2012)
- WELL (JBR 09/26/2012)

FOR INFORMATION
NOT FOR CONSTRUCTION

DRAWING NO.	DRAWING TITLE
REFERENCE DRAWINGS	

NO.	DESCRIPTION	BY	CHK'D	APP'D	DATE
REVISIONS					

REV.	ISSUE FOR	AUTH. BY		DATE
E	INFORMATION	EC	SS	14-12-2012
D	INFORMATION	EC	SS	29-11-2012
C	INFORMATION	EC	SS	15-11-2012
B	INFORMATION	EC	SS	14-11-2012
A	INFORMATION	EC	SS	25-10-2012

ISSUE AUTHORIZATION

HATCH™

DESIGNED BY J. CHALMERS DATE 25-10-2012	DRAWN BY E. CRAWFORD DATE 25-10-2012
CHECKED BY S. SENNIK DATE 25-10-2012	DISCIP. ENGR. R. FUKUZAWA DATE 25-10-2012
PROJ. CES. COORD. J. CHALMERS DATE 25-10-2012	PROJ. ENGR. S. SENNIK DATE 25-10-2012
PROJ. MGR. M. SUCHARDA DATE 25-10-2012	

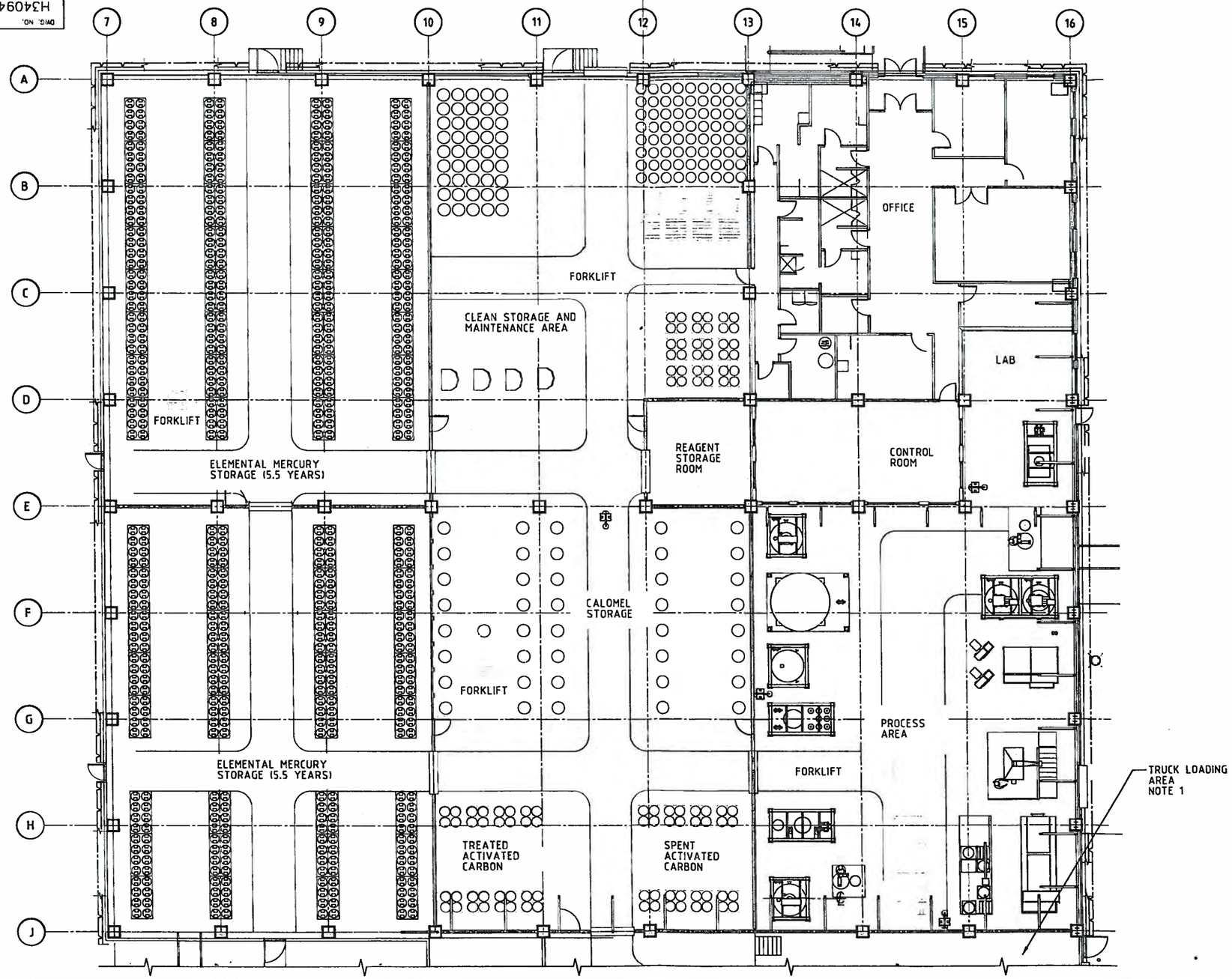
PRECIOUS METALS RECOVERY LLC

PRECIOUS METALS RECOVERY LLC
DRY HILLS FACILITY PROJECT

DRY HILLS FACILITY
TOPOGRAPHIC MAP
(RCRA PERMIT APPLICATION)

SCALE 1"=200' OR AS NOTED | DWG. NO. H340940-0000-07-015-0001 | REV. E

DWG. NO. H340940-0000-50-015-0013

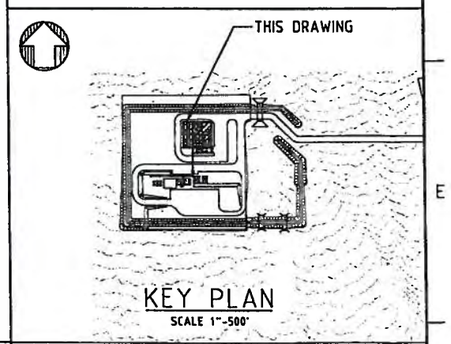


NOTES:

1. TRUCK LOADING AREA & MCC ROOM NOT SHOWN ON THIS SKETCH.
2. THIS SKETCH TO BE USED TO VIEW HAZARDOUS WASTE UNITS ONLY.
3. SKETCH TO BE USED IN CONJUNCTION WITH H340940-0000-50-014-0001, H340940-0000-50-014-0002 & H340940-0000-50-042-0001.

FOR INFORMATION

NOT FOR CONSTRUCTION



KEY PLAN
SCALE 1"=500'

DRAWING NO.	DRAWING TITLE
H340940-0000-50-042-0001	PROCESS/STORAGE BUILDING GENERAL ARRANGEMENT
H340940-0000-50-014-0002	PLOT PLAN
H340940-0000-50-014-0001	OVERALL SITE PLAN

REFERENCE DRAWINGS

NO.	DESCRIPTION	BY	CHK'D	APP'D	DATE

REVISIONS

REV.	ISSUE FOR	AUTH. BY	DATE
A	INFORMATION	BY SS	2013-08-15

ISSUE AUTHORIZATION

HATCH™

DESIGNED BY J. CHALMERS DATE 2013-08-15	DRAWN BY B. YOGANATHAN DATE 2013-08-15
CHECKED BY DATE	DISCIP. ENGR. D. KLUWAK DATE 2013-08-15
PROJ. DES. COORD. J. CHALMERS DATE 2013-08-15	PROJ. ENGR. S. SENNIK DATE 2013-08-15
PROJ. MGR. M. SUCHARDA DATE 2013-08-15	

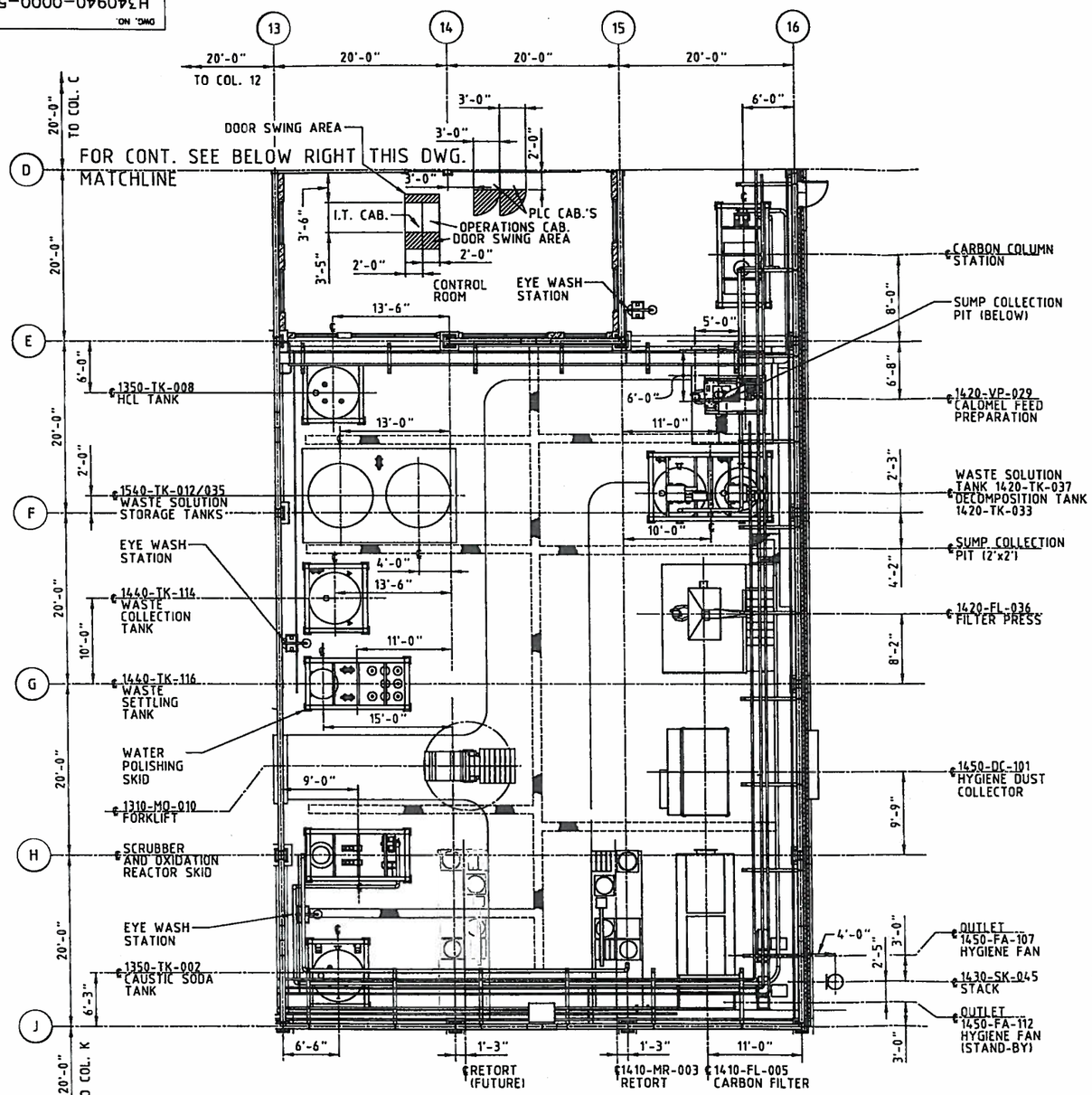
PRECIOUS METALS RECOVERY LLC

PRECIOUS METALS RECOVERY PROJECT
DRY HILLS FACILITY PROJECT

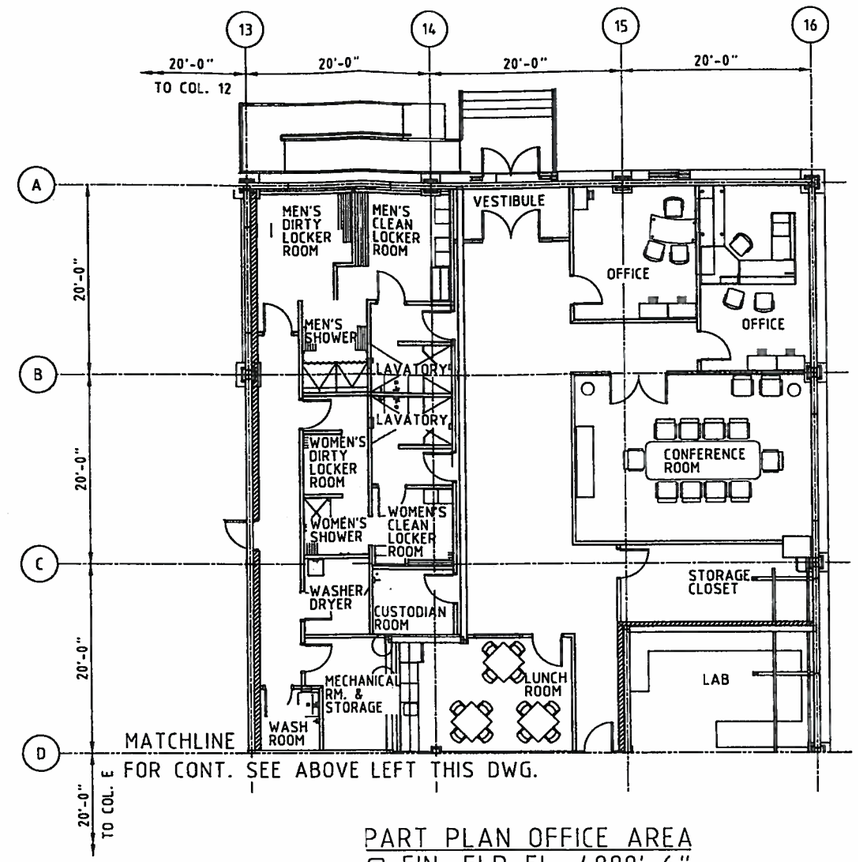
PMR FACILITY
HAZARDOUS WASTE UNITS
SKETCH

SCALE 3/32" = 1' OR AS NOTED | DWG. NO. H340940-0000-50-015-0013 | REV. A

DWG. NO. H340940-0000-50-042-0002

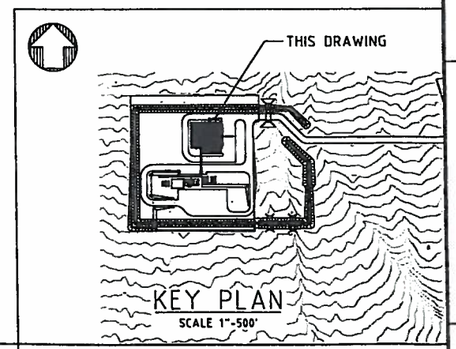


PART PLAN PROCESS AREA
@ FIN. FLR EL. 4989'-6"



PART PLAN OFFICE AREA
@ FIN. FLR EL. 4989'-6"

FOR PROGRESS
NOT FOR CONSTRUCTION



SCALE IN FEET

DRAWING NO.	DRAWING TITLE
H340940-0000-050-042-0001	PROCESS\STORAGE BLDG. GENERAL ARRANGEMENT

REFERENCE DRAWINGS

NO.	DESCRIPTION	BY	CHK'D	APP'D	DATE

REVISIONS

REV.	ISSUE FOR	AUTH. BY		DATE
H	ISSUE FOR DESIGN	J.C.	S.S.	2013-07-17
G	ISSUE FOR DESIGN	E.C.	S.S.	2012-12-14
F	ISSUE FOR DESIGN	E.C.	S.S.	2012-11-14
E	ISSUE FOR DESIGN	D.K.	S.S.	2012-10-18
D	ISSUE FOR DESIGN	J.C.	S.S.	2012-10-11
C	FS FINAL REPORT	J.C.	S.S.	2012-07-31
B	FS FINAL REPORT	J.C.	S.S.	2012-07-05
A	DISCIPLINE ENGINEERING	J.C.	S.S.	2012-06-18

ISSUE AUTHORIZATION

DESIGNED BY J. CHALMERS	DATE 2012-06-18
DRAWN BY D. EAILEY	DATE 2012-06-18
CHECKED BY J. CHALMERS	DATE 2012-06-18
DISCIP. ENGR. D. KLUWAK	DATE 2012-06-18
PROJ. DES. COORD. J. CHALMERS	DATE 2012-06-18
PROJ. ENGR. S. SENNIK	DATE 2012-06-18
PROJ. MGR. M. SUCHARDA	DATE 2012-06-18

HATCH™

PRECIOUS METALS RECOVERY LLC

PRECIOUS METALS RECOVERY LLC
DRY HILLS FACILITY PROJECT

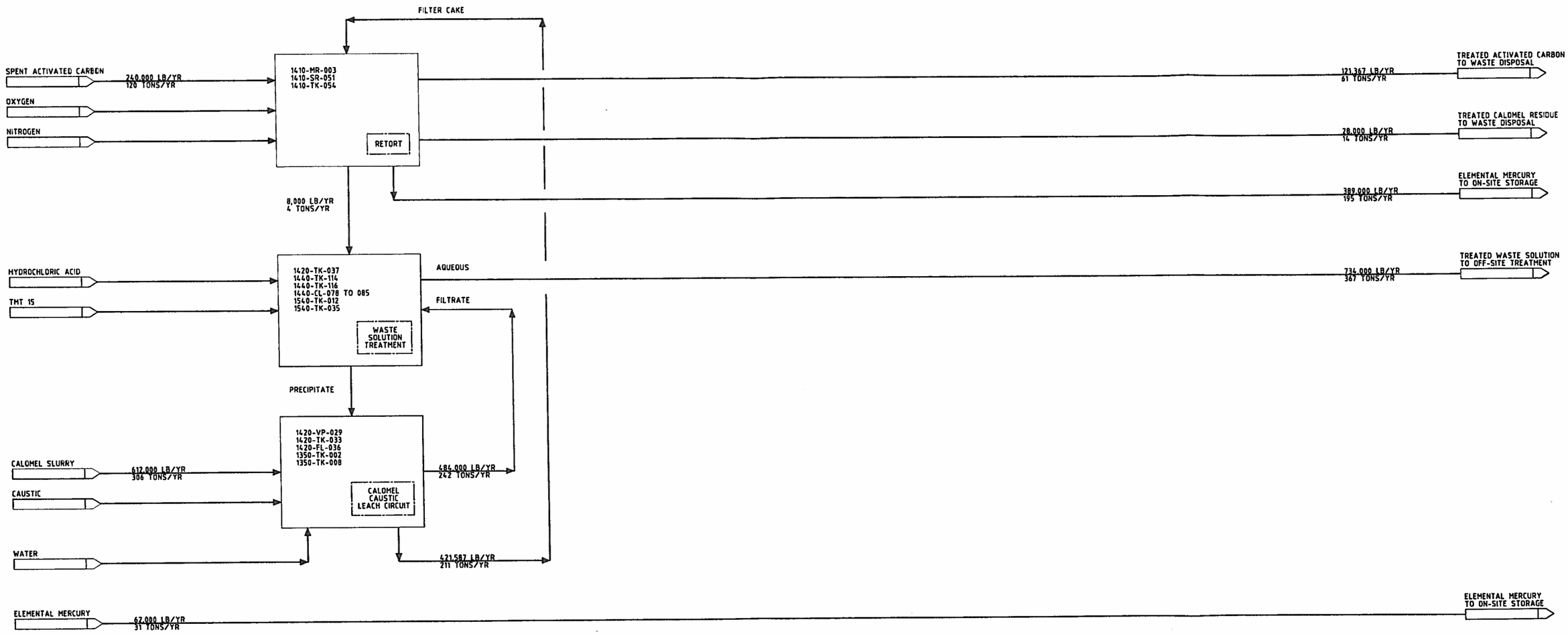
DRY HILLS FACILITY
PROCESS/STORAGE BUILDING
OFFICE & PROCESS AREA

SCALE 1/8" = 1' OR AS NOTED

DWG. NO. H340940-0000-50-042-0002

REV. H

DWG. NO. H340940-0000-05-015-0001



LEGEND
- MAJOR PROCESS
- SECONDARY PROCESS
- INTERMITTENT PROCESS
- VENDOR SUPPLY LIMIT
- DUST PICKUP POINTS

NOT FOR CONSTRUCTION

DRAWING NO.	DRAWING TITLE
REFERENCE DRAWINGS	

NO.	DESCRIPTION	BY	CHK'D	APP'D	DATE
REVISIONS					

REV.	ISSUE FOR	AUTH. BY	DATE
A	FOR INFORMATION	G.K.	S.S. 15-07-2013
ISSUE AUTHORIZATION			

HATCH™

DESIGNED BY G. KERAMARIS DATE 15-07-2013	DRAWN BY B. JANJIC DATE 15-07-2013
CHECKED BY G. KERAMARIS DATE 15-07-2013	DISCIP. ENGR. G. KERAMARIS DATE 15-07-2013
PROJ. DES. COORD. J. CHALMERS DATE 15-07-2013	PROJ. ENGR. S. SENNIK DATE 15-07-2013
PROJ. MGR. M. SUCHARDA DATE 15-07-2013	

PRECIOUS METALS RECOVERY LLC

PRECIOUS METALS RECOVERY LLC
DRY HILLS FACILITY PROJECT

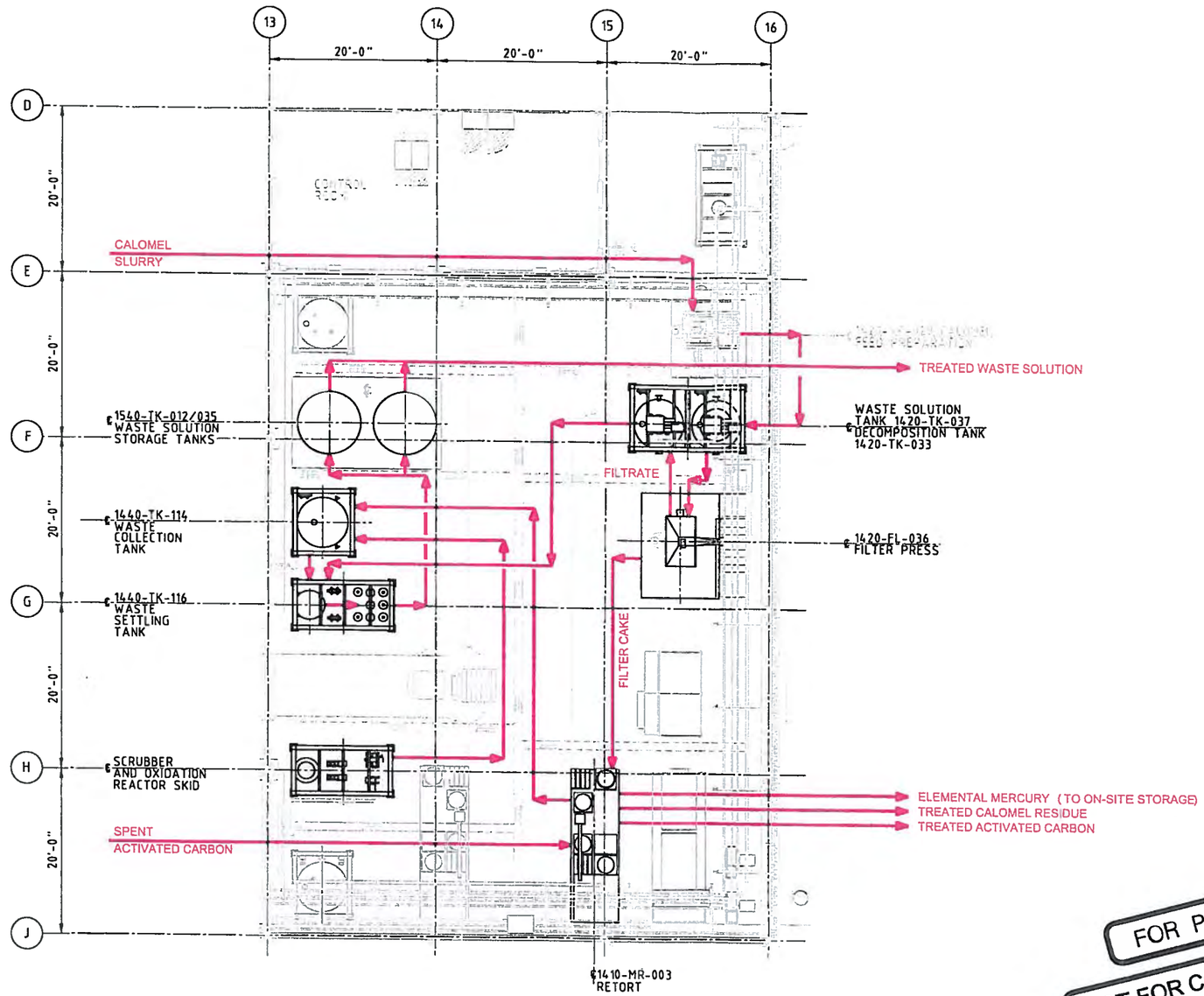
WASTE STREAMS
BLOCK FLOW DIAGRAM

SCALE NTS OR AS NOTED

DWG. NO. H340940-0000-05-015-0001

REV. A

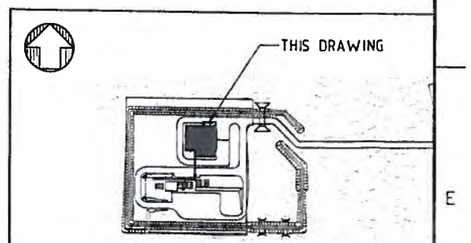
DWG. NO. H340940-0000-05-015-0002



PART PLAN PROCESS AREA
@ FIN. FLR EL. 4989'-6"

FOR PROGRESS
NOT FOR CONSTRUCTION

SCALE IN FEET



KEY PLAN
SCALE 1"=500'

DRAWING NO.	DRAWING TITLE
H340940-0000-050-042-0001	PROCESS\STORAGE BLDG. GENERAL ARRANGEMENT

REFERENCE DRAWINGS

NO.	DESCRIPTION	BY	CHK'D	APP'D	DATE

REVISIONS

REV.	ISSUE FOR	AUTH. BY		DATE
B	INFORMATION	BY	SS	2013-08-15
A	INFORMATION	G.K.	S.S.	2013-07-18

ISSUE AUTHORIZATION

HATCH

DESIGNED BY / DATE	DRAWN BY B. JANJIC DATE 2013-07-18
CHECKED BY / DATE	DISCIP. ENGR. G. KERAMARIS DATE 2013-07-18
PROJ. DES. COORD. / DATE	PROJ. ENGR. S. SENNIK DATE 2013-07-18
PROJ. MGR. M. SUCHARDA DATE 2013-07-18	

PRECIOUS METALS RECOVERY LLC

PRECIOUS METALS RECOVERY LLC
DRY HILLS FACILITY PROJECT

DRY HILLS FACILITY
PROCESS/STORAGE BUILDING
PROCESS FLOW SKETCH

SCALE 1/8" = 1' OR AS NOTED

DWG. NO. H340940-0000-05-015-0002

REV. B

Reserved for future use (List of Restricted Waste at PMR)

List of Certain Activities authorized at PMR

1. The Permittee may store a maximum of 19,456 gallons of elemental mercury, as shown in Table 3.3, based on 11-year life of the facility. (Pursuant to the Mercury Export Ban Act, elemental mercury is not subject to the one year storage limit.)

2. The throughput values shown in Table 5.1 for the operations related to the caustic leach process are greater than the design capacity of the tank (400 gallons) since the caustic leach processes may process more than one batch in 24 hours.

The following documents are adopted herein as if fully set forth in this permit:

1. PMR RCRA Part B Application Volumes 1, 2, 3 and 4 – March 2013 and subsequent revisions.